Caulk, Kim

From: Jody Overmyer <jovermyer@solutions-ies.com>
Sent: Wednesday, April 30, 2014 2:14 PM
To: Caulk, Kim; Tony Lieberman
Cc: Karen E. Souza; JeffPAllen@Eaton.com
Subject: RE: April Status Update for Eaton Selma NONCD 0002853

Thank you, Kim.

As discussed, we have been preparing and submitting the items listed in .0306(o)(1) – (5) for the APS under the UIC permit for each of the sites. We will prepare this information for submittal to the REC Program for the record as well.

Best regards,
Jody

Jody Overmyer, P.E., PMP |Senior Engineer
Solutions-IES, Inc.
Phone: 919.873.1060 ext. 163
Mobile: 412.901.2934
Web: www.solutions-ies.com

DID YOU KNOW…
that Solutions-IES personnel developed the BIOPLUME model for USEPA to simulate monitored natural attenuation (MNA)

From: Caulk, Kim [mailto:kim.caulk@ncdenr.gov]
Sent: Wednesday, April 30, 2014 1:36 PM
To: Tony Lieberman
Cc: Jody Overmyer; Karen E. Souza; JeffPAllen@Eaton.com; bill.sharek@jcindustries.com
Subject: RE: April Status Update for Eaton Selma NONCD 0002853

I have received your e-mail and attachment for the above referenced site. The submittal will be uploaded into the Superfund electronic filing system.

If you have any questions, please contact me.

Thanks,
Kim

Kim T. Caulk, P.G.
Phone: (919) 707-8350
http://portal.ncdenr.org/web/wm/sf/ihs/recprogram

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Tony Lieberman [mailto:TLieberman@solutions-ies.com]
Sent: Wednesday, April 09, 2014 3:46 PM
To: Caulk, Kim
Cc: Jody Overmyer; Karen E. Souza; JeffPAllen@Eaton.com; bill.sharek@jcindustries.com
Subject: April Status Update for Eaton Selma NONCD 0002853

Dear Kim,

Attached is the April 2014 Quarterly Update with Construction Completion Report No. 2 for the Eaton Selma site. Please contact me if you have any questions.

Regards,
Tony

M. Tony Lieberman |Sr. Environmental Scientist | Sr. Consultant
Phone: 919.873.1060 ext. 117
Fax: 919.873.0174
Cell: 919.523.4109
Web: www.solutions-ies.com

DID YOU KNOW…
that Solutions-IES was recently in Forbes Magazine?
View the profile here

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CONSTRUCTION COMPLETION REPORT
NO. 2

FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NORTH CAROLINA, 27576
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

April 2014

NORTH CAROLINA PROFESSIONAL SEAL 036129 ENGINEER JODY L. OVERMYER

Stewart Farling, E.I.T.
Environmental Specialist

Jody L. Overmyer, P.E., PMP
Project Manager

Solutions-IES
Industrial & Environmental Services

Solutions-IES
Industrial & Environmental Services

1101 Nowell Road ■ Raleigh, NC 27607
(919) 873-1060 ■ Fax (919) 873-1074
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April 8, 2014

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

RE: **April 2014 Quarterly Status Report and Construction Completion Report No. 2**
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. (SIES), on behalf of Eaton Corporation (Eaton), has prepared this Quarterly Status Report for the former Eaton facility located at 1100 East Preston Street in Selma, NC. This site was accepted into the Registered Environmental Consultant (REC) program on February 10, 2009. The Remedial Investigation Work Plan (RI WP) dated February 17, 2009, was certified by the Registered Site Manager (RSM) and submitted to NCDENR. Two RI WP amendments were subsequently submitted dated June 25, 2010, and January 4, 2011. The RI Report dated February 8, 2012, was certified by the RSM on February 9, 2012. The Groundwater Remedial Action Plan (RAP) dated June 3, 2013, was certified complete by the RSM on August 13, 2013. The Pre-Construction Report dated September 16, 2013, was certified complete by the RSM on September 17, 2013. Construction Completion Report No. 1 dated January 2014, described injection into one-half of the injection network. The report was certified by the RSM on January 15, 2014.

The Phase 2 injection of a colloidal buffer (CoBupH-Mg) followed by an emulsified vegetable oil (EOS XR) into the remaining 60 injection wells was conducted between January 20, 2014, and February 14, 2014. SIES has prepared and attached Construction Completion Report No. 2 summarizing the Phase 2 CoBupH-Mg and EOS XR injections. Bioaugmentation has been postponed until April or May 2014 in order to allow the aquifer geochemistry to become more suitable for sustaining bacteria in both phase areas. The Construction Completion Report No. 2 includes RSM certification and the Work Phase Completion Statement for groundwater (per email correspondence dated January 27, 2014).

The Phase 1 3-month post-injection monitoring event was conducted in January 2014. Each of the remaining post-injection monitoring events will cover both injection phase areas, with a 3 month timing separation based on the start date when injections occurred in each area. Therefore, the post-injection monitoring events to be conducted include the Phase 1 6-month/Phase 2 3-month (April), Phase 1 9-month/Phase 2 6-month (July), Phase 1 12-month/Phase 2 9-month (October), and Phase 2 12-month (January 2015).

Work is progressing in a manner to achieve the mandatory work phase completion deadlines specified in the Administrative Agreement and 15A NCAC 13C .0302(h).

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., PMP
Project Manager

Attachment 1 – Certification Statements
Attachment 2 – Construction Completion Report No. 2

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 4/15/2014 Quarterly Summary/Construction Completion Report No. 2

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."

Eaton
Name of Remediating Party

Signature of Remediating Party

3-27-14
Date

NOTARIZATION

OHIO (Enter State)

Cuyahoga COUNTY

I, Shirley K. Garcowski, a Notary Public of said County and State, do hereby certify that Jeffrey Allen 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, 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 27th day of MARCH, 2014

Notary Public (signature)

(OFFICIAL SEAL)

My commission expires. _____.

SHIRLEY K. GARCOWSKI
Notary Public, State of Ohio
My commission expires 09/13/2017
Recorded in Lake County

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

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 2 OF 2
IHSB SITE NAME NONCD 0002853 Former Eaton Selma
DATE & NAME OF DOCUMENT 4/15/2014 Quarterly Summary/Construction Completion Report No. 2
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

4/9/14
Date

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 N.C.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

4/9/14
Date

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 9th day of April, 2014.

Debra A Tabron
Notary Public (signature)

(OFFICIAL SEAL)

DEBRA A. TABRON
Notary Public
Wake County
NORTH CAROLINA

My commission expires: 8.22.15

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

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

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

REC is in compliance with both 15A NCAC 13C .0305(b)(2) and .0305(b)(3): [check] ☑

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

Street Address: 1100 East Preston Street
Selma, NC

The construction of the final remedy, 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 N.C.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
RSM Signature

4/9/14
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 Liebrman 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 9th day of April 2014.

Debra A Tabron
Notary Public (signature)

(OFFICIAL SEAL)

DEBRA A. TABRON
Notary Public
Wake County
NORTH CAROLINA

My commission expires: 8.22.15

Work Phase Completion Form No. WPC – V
(Revised 12/13)

ATTACHMENT 2

CONSTRUCTION COMPLETION REPORT NO. 2

CONSTRUCTION COMPLETION REPORT
NO. 2

FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NORTH CAROLINA, 27576
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

April 2014

NORTH CAROLINA PROFESSIONAL SEAL 036129 ENGINEER JODY L. OVERMYER

Stewart Farling, E.I.T.
Environmental Specialist

Jody L. Overmyer, P.E., PMP
Project Manager

Solutions-IES
Industrial & Environmental Services

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Appendix C Drainage Ditch Waste Manifest and Certificate of Disposal
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Appendix F Monitoring Well Observation Forms During Injection
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1.0 INTRODUCTION

This Construction Completion Report No. 2 has been prepared for the former Eaton Corporation facility located at 1100 East Preston Street in Selma, Johnston County, North Carolina, 27576 (Eaton Selma) (**Figure 1**). 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 for Groundwater (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, Inc. [SIES], 2013a). 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. The Pre-Construction Report dated September 16, 2013, and certified on September 17, 2013, described the results of two Pre-Design Investigations (PDIs) and presented the final design of the remedy. The remedy implementation included well installation beginning on September 16, 2013, and Phase 1 substrate injection beginning on October 21, 2013, and ending October 31, 2013. This Construction Completion Report No. 2 presents "as-built" plans and specifications, a summary of major variances from the final design plans, and a short discussion of problems encountered during the Phase 2 injection, which began January 20, 2014, and was completed February 14, 2014 .

2.0 AS-BUILT PLANS AND SPECIFICATIONS

2.1 MONITORING AND INJECTION WELL INSTALLATION

Monitoring and injection well installation and supporting information were provided in the Construction Completion Report No. 1 submitted for the site (SIES, 2014).

2.2 INVESTIGATION-DERIVED WASTE

Investigation-derived waste (IDW) generated during well installation was previously discussed in the Construction Completion Report No. 1 submitted for the site (SIES, 2014). Drilling/development water from well installation that was containerized in a 4,000 gallon poly tank, which remained on site after Construction Completion Report No. 1 was submitted, was classified as a “characteristically” hazardous

waste based on the concentration of 1,500 micrograms per liter (µg/L) of tetrachloroethene (PCE) in the IDW sample collected (IDW-Develop-1). In North Carolina, PCE concentrations above 700 µg/L are considered characteristically hazardous. The laboratory analytical report for IDW is included in **Appendix A** (Note: additional IDW sample results are included within the laboratory report as discussed in Construction Completion Report No. 1 [SIES, 2014]). The material manifest documenting transportation and disposal of 2,000 gallons of hazardous well drilling/development water to the Clean Harbors facility in Baltimore, Maryland is provided in **Appendix B**.

During Phase 2 injection activities, some additional aqueous waste was generated when surface water runoff mixed with small amounts of substrate that had broken through the ground surface around several well heads and was conveyed via the underground stormwater pipe into the drainage ditch (i.e., Bawdy Swamp Creek) along the northeast corner of the property. The mixed runoff containing dilute EOS XR was pumped out of the drainage ditch by vac truck (see **Section 4.0**). Material manifest and the certificate of disposal documenting transportation and disposal of 1,100 gallons of non-hazardous aqueous waste are included in **Appendix C**.

2.3 SUBSTRATE INJECTIONS

Injection setup included 1.25” HDPE pipe that was extended to the terminal depth of the injection wells to minimize settling of the colloidal buffer. The HDPE pipes were attached to camlock fittings connecting them to the main distribution lines. The injection wells were divided into two groups, Group A and Group B, each consisting of 30 wells at 15 locations. Substrate injection was performed in two steps. First, a colloidal buffer (CoBupH-Mg[1]) was injected to provide immediate and long term groundwater pH adjustment. The amount of colloidal buffer added to each well was adjusted according to its location within the plume as well as injection depth (i.e., its pH and buffering capacity), with Zone A wells receiving more buffer and Zone B wells receiving less. CoBupH-Mg was diluted to a ratio of 1:5 (1 part buffer to 5 parts water) with water prior to injection and then chased with approximately 60 gallons of water in both Zone A and Zone B. Second, following injection of the CoBupH-Mg and the chase water, EOS XR[1] was then injected. EOS XR is a long-lasting emulsified vegetable oil product that promotes an anaerobic, carbon-rich, reducing environment conducive to support reductive dechlorination of the contaminants of concern. EOS XR was diluted with water to a ratio of 1:4.99 (1 part substrate to 4.99 parts water). The EOS XR injection was followed by an average of 2,214 gallons of chase water per

[1] CoBupH-Mg and EOS XR are products of EOS Remediation, LLC. Both are approved for use in North Carolina.

Zone A injection well and 2,683 gallons of chase water per Zone B injection well to distribute the emulsified oil substrate into the aquifer. **Figure 2** shows the locations of injection wells and monitor wells at the site. **Table 2** shows the list of wells injected during Phase 2 and the volumes injected in each.

As discussed in the *Pre-Construction Report* (SIES, 2013b), the amount of base required to raise the pH to 7 standard units (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). Based on this information and low pH in the Phase 2 injection area, approximately 2,743 pounds (lbs) (240 gallons) of CoBupH-Mg was injected into the 60 nested injection wells. Zone A wells received 90 percent of the buffer at each location, and Zone B wells received 10 percent of the total at each location.

Approximately 50,700 lbs (6,337 gallons) of EOS XR was distributed amongst the 60 nested injection wells, equating to 4 drums per location. Zone A wells received two-thirds (141 gallons) of the product volume for each location, and Zone B wells received one-third (71 gallons) of the product volume for each location. This design was implemented to provide more substrate immediately below the shallow clay vadose zone where potential for continuing matrix diffusion of CVOCs from the clay into the shallow groundwater was greatest.

Thirty wells (15 Zone A injection wells and 15 Zone B injection wells) were manifolded and injected at the same time. During the injection, pressures less than 10 pounds per square inch (psi) in Zone A and 15 psi in Zone B were maintained. Injection rates for wells ranged from less than 0.5 gallons per minute (gpm) to as high as 4 gpm. The potable water used during the injection event was obtained from the hydrant located at the northern entrance to the JCI facility off East Preston Street. The pH of the hydrant water was measured at 7.5 SU on February 7, 2014. The Injection Event Record is included in **Appendix D** and injection logs for each injection well are included in **Appendix E**.

During injection, monitoring wells MW-3, MW-4, MW-8, and MW-18 were periodically monitored for water level, visual description, turbidity, pH, conductivity, and oxidation-reduction potential (ORP). Due to a high water table at the start of the Phase 2 injection, all monitoring wells experienced mounding to the top of casing, and subsequent observations could not be carried out. Monitoring well observations carried out during the injection are included in **Appendix F**. A photo log and field notes are included in **Appendix G** and **Appendix H**, respectively.

3.0 SUMMARY OF MAJOR VARIANCES FROM FINAL DESIGN PLANS

During the Phase 2 injection event at the Eaton Selma site, there were variances from the final design plan presented in the Pre-Construction Report (SIES, 2013b). A summary of the variances follows.

Modifications to the injection presented in Table 8 of the Pre-Construction Report (SIES, 2013b) were made to optimize the injection. They are summarized below:

- CoBupH-Mg was diluted with water to a ratio of 1:5 (1 part CoBupH-Mg to 5 parts water), compared to the 1:1 dilution specified in Table 8.
- The total volume of CoBupH-Mg to be injected was increased for the Phase 2 injection wells due to low groundwater pH and increased buffer demand in the injection area. The volume changes were increased from 13.3 lbs (1.17 gallons) to the following:
    - 45 lbs (3.9 gallons) in IW-17, IW-19, IW-20, IW-34, and IW-36
    - 104 lbs (9.1 gallons) in IW-21, IW-23, IW-38, IW-46, IW-47, IW-50, IW-52, IW-54, IW-56, IW-57, and IW-60
    - 107 lbs (9.4 gallons) in IW-22, IW-24, IW-35, IW-37, IW-39, IW-40, IW-45, IW-48, IW-49, IW-51, IW-53, IW-55, IW-58, and IW-59
- The volume distribution of CoBupH-Mg at each injection well location was changed to 90% Zone A and 10% Zone B from two-thirds (67%) Zone A and one-third (33%) Zone B.
- The volume of CoBupH-Mg chase water to each location was increased to 120 gallons (60 gallons in Zone A and 60 gallons in Zone B) from 100 gallons (67 gallons in Zone A and 33 gallons in Zone B).
- The volume of EOS XR chase water was slightly modified to 2,214 gallons in Zone A and 2,683 gallons in Zone B from 2,255 gallons in Zone A to 2,715 gallons in Zone B.

Phase 2 injections were performed between January 20 and February 14, 2014. Both CoBupH-Mg and EOS XR were shipped to the site and stored outdoors, where ambient temperatures ranged from 8°F to 69°F with an average mean of 36°F. The cold temperatures (between 8°F and 40°F) caused some particulate settling in CoBupH-Mg, which resulted in a reduction in the amount of CoBupH-Mg injected into several wells. Major variances at 15 injection wells are summarized below:

- IW-46A received 1.4 gallons less CoBupH-Mg than planned, a 17% decrease.
- IW-46B received 0.2 gallons less CoBupH-Mg than planned, a 26% decrease.
- IW-47A received 1.3 gallons less CoBupH-Mg than planned, a 16% decrease.
- IW-47B received 0.2 gallons less CoBupH-Mg than planned, a 26% decrease.
- IW-50A received 1.3 gallons less CoBupH-Mg than planned, a 16% decrease.
- IW-50B received 0.2 gallons less CoBupH-Mg than planned, a 26% decrease.
- IW-52A received 1.3 gallons less CoBupH-Mg than planned, a 16% decrease.
- IW-52B received 0.2 gallons less CoBupH-Mg than planned, a 26% decrease.
- IW-54A received 1.3 gallons less CoBupH-Mg than planned, a 16% decrease.
- IW-54B received 0.2 gallons less CoBupH-Mg than planned, a 26% decrease.
- IW-56A received 1.3 gallons less CoBupH-Mg than planned, a 16% decrease.
- IW-56B received 0.2 gallons less CoBupH-Mg than planned, a 26% decrease.

- IW-57B received 0.2 gallons less CoBupH-Mg than planned, a 26% decrease.
- IW-60A received 1.3 gallons less CoBupH-Mg than planned, a 16% decrease.
- IW-60B received 0.2 gallons less CoBupH-Mg than planned, a 26% decrease.

During substrate injection, only one well had a major variance in the total amount of EOS XR injected during Phase 2. IW-22B received 15 gallons more EOS XR than planned, a 21% increase.

Due to an elevated groundwater table during the Phase 2 injection that limited the amount chase water that could be injected, there were 46 major variances (greater than a 15% deviation from the planned amount) in the final amount of chase water used to distribute EOS XR from the injection well into the formation. These variances are summarized in **Table 2**.

4.0 SUMMARY OF PROBLEMS ENCOUNTERED DURING CONSTRUCTION

A summary of problems encountered with well installation and soil IDW were provided in the Construction Completion Report No. 1 (SIES, 2014).

During the injection of EOS XR to Phase 2 wells and while maintaining prescribed injection pressures, substrate was observed coming into the vaults of IW-20A/B, IW-37A/B, and IW-40A/B. To prevent further loss of product, substrate injection and water chase were cut off to these wells. However, additional breakthrough occurred around IW-20A/B during the overnight water chase of the remaining wells, resulting in surface pooling and runoff of dilute EOS XR into the stormwater drain along the northern portion of the property. The stormwater is conveyed to the drainage ditch along East Preston Street (which eventually flows to Bawdy Swamp Creek via a culvert under East Preston Street), which became “milky” as a result of the substrate. The North Carolina Department of Environmental and Natural Resources (NCDENR) Division of Water Quality (DWQ), who issued injection permit WI0500657 for the site, was first notified via telephone on January 27, 2014, with written notification provided on January 31, 2014. It was estimated that between 0.5 to 4.6 gallons of EOS XR entered the drainage ditch (see **Appendix G** Photo No. 7 to 11). With NCDENR approval, the milky water in the ditch was removed via vacuum truck and properly disposed.

As a result of the elevated water table encountered before injection began, and large volumes of substrate and chase water specified by the treatment design, water levels were quickly recorded at or above the top of

casing in most injection and monitoring wells during the Phase 2 injection. Due to this mounding and the breakthrough observed around wells, including several wells that were not being pumped overnight, the total amount of chase volume in 46 wells was reduced, as discussed in **Section 3.0**.

5.0 PERFORMANCE MONITORING

Post-injection monitoring events will be conducted per the RAP (SIES, 2013a) and Pre-Construction Report (SIES, 2013b), with a slight variation in the wells to be sampled because the injection phases are now separated by 3 months. A revised performance monitoring schedule is provided in **Table 3**. Initially, monitoring events will occur approximately 3 months, 6 months, 9 months, and 12 months post-injection. Quarterly MNA monitoring in the first year will be scheduled in conjunction with post-injection monitoring. Unless modified, MNA monitoring events beyond Year 0 (quarterly) will be scheduled semi-annually during Years 1 through 5, and then annually until Year 15.

6.0 REFERENCES

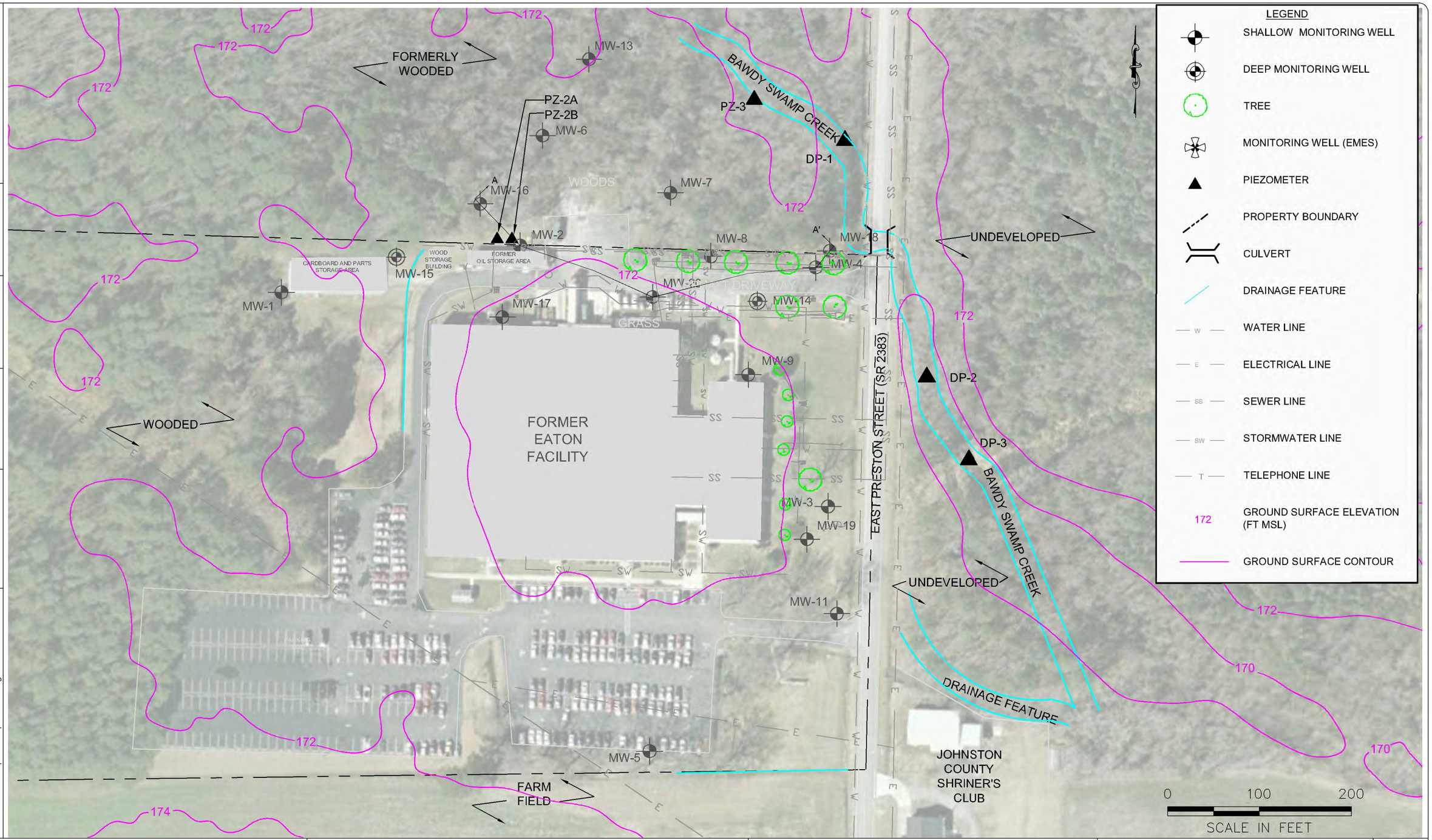
SIES, 2013a. Remedial Action Plan for Groundwater, Former Eaton Corporation Facility, 1100 East Preston Street, Selma, Johnston County, North Carolina, June 3.

SIES, 2013b. Pre-Construction Report, Former Eaton Corporation Facility, 1100 East Preston Street, Selma, Johnston County, North Carolina, September 16.

SIES, 2014. Construction Completion Report No. 1, Former Eaton Corporation Facility, 1100 East Preston Street, Selma, Johnston Country, North Carolina, January 15.

FIGURES

PROJECT NUMBER 2013.0014.EATON
DRAFTER KTS
CHECKED BY JLO
PROJECT MANAGER JLO
DATE 1/6/2014
FILE Construction Completion Report No. 1.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, & OCTOBER 2013.
3) GROUND SURFACE CONTOUR LINES FROM JOHNSTON COUNTY GIS, 2011.

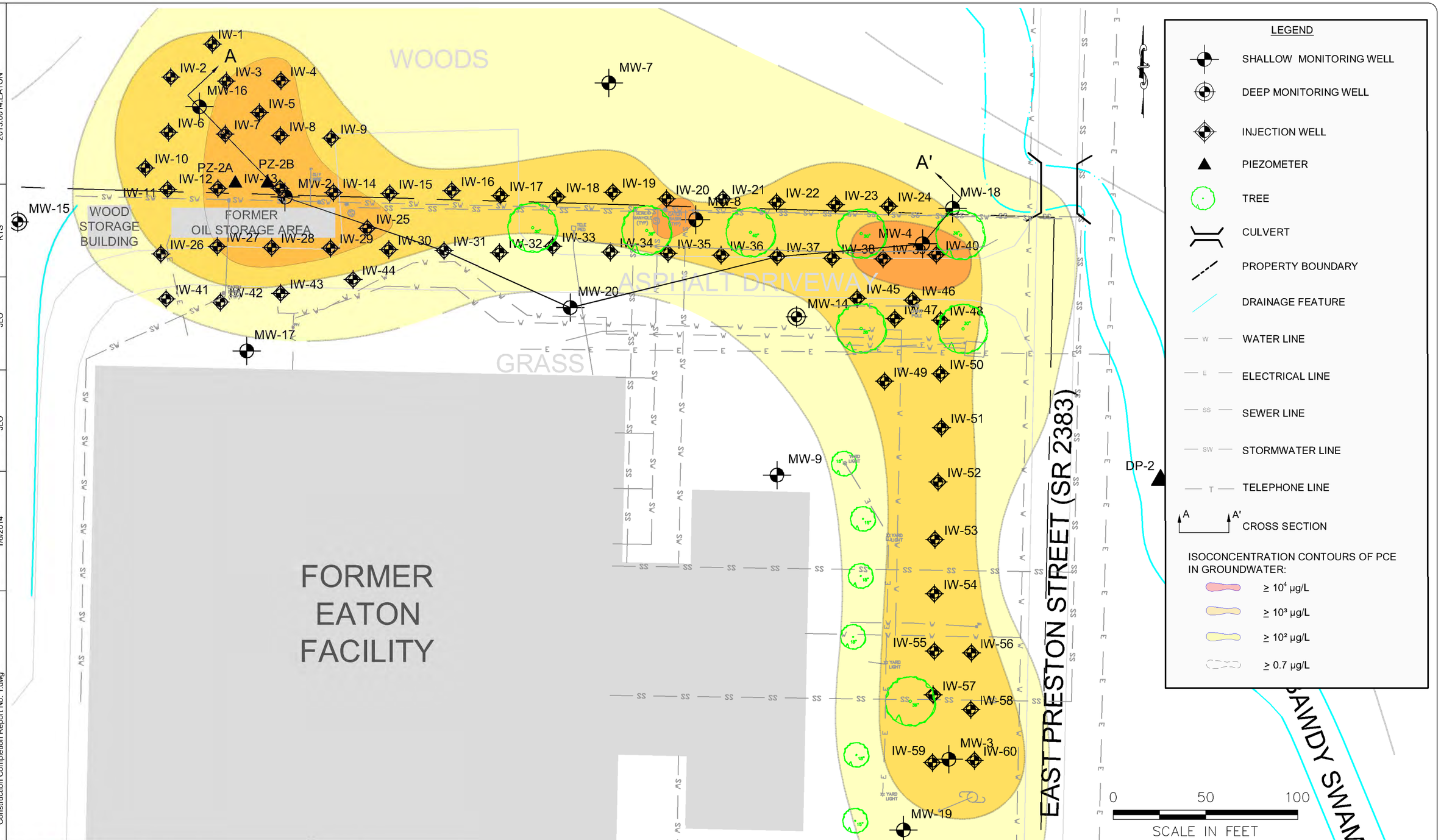
FORMER EATON FACILITY
1100 EAST PRESTON STREET
SELMA, JOHNSTON COUNTY, NC

SITE MAP

FIGURE: 1

J:\Project Files\Eaton Corporation\Eaton Selma\CAD\Current Drawings\Remedial Action\Construction Completion Report No. 1.dwg

PROJECT NUMBER 2013.0014.EATON
DRAFTER KTS
CHECKED BY JLO
PROJECT MANAGER JLO
DATE 1/6/2014
FILE Construction Completion Report No. 1.dwg



Solutions-IES
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1101 NOWELL ROAD
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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, & OCTOBER 2013.
3) INJECTION WELLS ARE IDENTIFIED BY A NUMBER AND ARE LABELED IW-1A/1B, IW-2A/2B, ETC.

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

INJECTION WELL LAYOUT

FIGURE: 2

TABLES

TABLE 1
SUMMARY OF PHASE 2 SUBSTRATE INJECTION VOLUMES
FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Well ID	Diluted Product from Field Forms (5 Water:1 Product)		Product				Chase Water	
	CoBupH-Mg (gal)	EOS XR (gal)	CoBupH-Mg (gal)	CoBupH-Mg (lbs)	EOS XR (gal)	EOS XR (lbs)	CoBupH-Mg (gal)	EOS XR (gal)
IW-17A	18.0	858.0	3.00	34.2	143.2	1,145.6	60.0	1,269.0
IW-17B	5.4	424.0	0.90	10.3	70.8	566.4	60.0	1,749.6
IW-19A	18.0	818.2	3.00	34.2	136.6	1,092.8	60.0	515.3
IW-19B	5.4	424.0	0.90	10.3	70.8	566.4	60.0	1,189.6
IW-20A	18.6	748.0	3.10	35.3	124.9	999.2	60.0	23.0
IW-20B	5.4	424.0	0.90	10.3	70.8	566.4	60.0	29.0
IW-21A	49.2	869.2	8.20	93.5	145.1	1,160.8	60.0	567.8
IW-21B	5.4	421.9	0.90	10.3	70.4	563.2	60.0	1,262.6
IW-22A	51.0	882.0	8.50	96.9	147.2	1,177.6	60.0	811.0
IW-22B	5.6	515.0	0.93	10.6	86.0	688.0	60.0	1,779.0
IW-23A	49.2	847.2	8.20	93.5	141.4	1,131.2	60.0	1,748.8
IW-23B	5.8	424.0	0.97	11.0	70.8	566.4	59.6	1,806.6
IW-24A	51.0	881.0	8.50	96.9	147.1	1,176.8	60.0	785.0
IW-24B	5.4	463.0	0.90	10.3	77.3	618.4	61.8	1,694.0
IW-34A	18.0	858.0	3.00	34.2	143.2	1,145.6	50.0	503.0
IW-34B	5.4	424.0	0.90	10.3	70.8	566.4	60.0	917.9
IW-35A	51.0	848.0	8.50	96.9	141.6	1,132.8	76.5	690.0
IW-35B	5.5	424.0	0.92	10.5	70.8	566.4	60.0	962.0
IW-36A	18.0	858.0	3.00	34.2	143.2	1,145.6	66.0	590.0
IW-36B	5.4	424.0	0.90	10.3	70.8	566.4	60.0	855.7
IW-37A	51.0	881.0	8.50	96.9	147.1	1,176.8	55.8	1,308.0
IW-37B	5.4	424.0	0.90	10.3	70.8	566.4	60.0	1,421.0
IW-38A	51.5	848.0	8.58	97.9	141.6	1,132.8	60.0	1,233.5
IW-38B	5.4	424.1	0.90	10.3	70.8	566.4	60.0	1,390.5
IW-39A	51.0	848.0	8.50	96.9	141.6	1,132.8	60.1	2,214.0
IW-39B	5.4	424.0	0.90	10.3	70.8	566.4	60.1	2,691.0
IW-40A	51.0	848.0	8.50	96.9	141.6	1,132.8	63.0	2,214.0
IW-40B	5.4	424.0	0.90	10.3	70.8	566.4	60.0	2,683.0
IW-45A	51.0	848.0	8.50	96.9	141.6	1,132.8	58.1	2,214.0
IW-45B	5.5	424.0	0.92	10.5	70.8	566.4	60.0	2,681.0
IW-46A	40.9	848.0	6.82	77.7	141.6	1,132.8	59.0	1,062.0
IW-46B	4.0	424.0	0.67	7.6	70.8	566.4	60.0	805.4
IW-47A	41.5	848.2	6.92	78.9	141.6	1,132.8	60.0	1,102.0
IW-47B	4.0	424.0	0.67	7.6	70.8	566.4	60.0	1,109.2
IW-48A	51.0	848.0	8.50	96.9	141.6	1,132.8	66.0	2,236.0
IW-48B	5.4	424.0	0.90	10.3	70.8	566.4	60.0	2,463.0
IW-49A	51.0	848.0	8.50	96.9	141.6	1,132.8	60.0	2,214.0
IW-49B	5.4	424.0	0.90	10.3	70.8	566.4	61.0	2,353.0
IW-50A	41.5	847.6	6.92	78.9	141.5	1,132.0	60.0	1,013.0
IW-50B	4.0	424.2	0.67	7.6	70.8	566.4	60.0	1,453.0

TABLE 1
SUMMARY OF PHASE 2 SUBSTRATE INJECTION VOLUMES
FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Well ID	Diluted Product from Field Forms (5 Water:1 Product)		Product				Chase Water	
	CoBupH-Mg (gal)	EOS XR (gal)	CoBupH-Mg (gal)	CoBupH-Mg (lbs)	EOS XR (gal)	EOS XR (lbs)	CoBupH-Mg (gal)	EOS XR (gal)
IW-51A	51.0	848.0	8.50	96.9	141.6	1,132.8	60.0	1,680.0
IW-51B	5.4	424.0	0.90	10.3	70.8	566.4	60.0	2,190.0
IW-52A	41.1	848.7	6.85	78.1	141.7	1,133.6	60.0	1,089.0
IW-52B	4.0	424.0	0.67	7.6	70.8	566.4	60.0	2,295.0
IW-53A	49.0	849.0	8.17	93.1	141.7	1,133.6	60.0	1,819.0
IW-53B	5.4	425.0	0.90	10.3	71.0	568.0	60.0	1,778.0
IW-54A	41.5	848.4	6.92	78.9	141.6	1,132.8	60.0	1,088.0
IW-54B	4.0	429.5	0.67	7.6	71.7	573.6	64.2	1,683.0
IW-55A	51.0	855.0	8.50	96.9	142.7	1,141.6	60.0	580.0
IW-55B	5.5	474.0	0.92	10.5	79.1	632.8	60.0	2,269.0
IW-56A	41.5	423.5	6.92	78.9	70.7	565.6	60.0	1,414.7
IW-56B	4.0	424.0	0.67	7.6	70.8	566.4	60.0	1,651.0
IW-57A	44.5	848.5	7.42	84.6	141.7	1,133.6	60.0	1,108.0
IW-57B	4.0	424.0	0.67	7.6	70.8	566.4	60.0	1,605.5
IW-58A	51.0	851.0	8.50	96.9	142.1	1,136.8	60.0	2,073.0
IW-58B	4.6	425.0	0.77	8.7	71.0	568.0	60.0	2,142.0
IW-59A	52.5	848.0	8.75	99.8	141.6	1,132.8	59.5	2,118.0
IW-59B	5.4	424.0	0.90	10.3	70.8	566.4	58.1	2,239.0
IW-60A	41.5	847.8	6.92	78.9	141.5	1,132.0	60.0	2,225.7
IW-60B	4.0	424.6	0.67	7.6	70.9	567.2	60.5	1,574.0
ACTUAL	**1,439**	**37,955**	**240**	**2,734**	**6,337**	**50,694**	**3,619**	**90,231**
DESIGN	**1,508**	**38,025**	**265**	**3,021**	**6,338**	**50,700**	**3,600**	**147,512**

Actual CoBupH-Mg Dilution Ratio = 5.00
Actual EOS XR Dilution Ratio = 4.99

TABLE 2
PHASE 2 EOS XR CHASE WATER VARIANCES
FORMER EATON CORPORATION FACILITY
1100 EAST PRESTON STREET, SELMA, NORTH CAROLINA

Well ID	EOS Chase Goal (gal)	Injection Difference (gal)	Percent Difference (%)
IW-17A	2,247	-977.6	-44
IW-17B	2,683	-933.6	-35
IW-19A	2,247	-1,731.3	-77
IW-19B	2,683	-1,493.6	-56
IW-20A	2,246	-2,223.0	-99
IW-20B	2,683	-2,654.2	-99
IW-21A	2,215	-1,647.6	-74
IW-21B	2,683	-1,420.6	-53
IW-22A	2,214	-1,402.6	-63
IW-22B	2,683	-904.2	-34
IW-23A	2,215	-466.6	-21
IW-23B	2,683	-876.6	-33
IW-24A	2,214	-1,428.6	-65
IW-24B	2,683	-989.2	-37
IW-34A	2,247	-1,743.6	-78
IW-34B	2,683	-1,765.3	-66
IW-35A	2,214	-1,523.6	-69
IW-35B	2,683	-1,721.2	-64
IW-36A	2,247	-1,656.6	-74
IW-36B	2,683	-1,827.5	-68
IW-37A	2,214	-905.6	-41
IW-37B	2,683	-1,262.2	-47
IW-38A	2,215	-981.9	-44
IW-38B	2,683	-1,292.7	-48
IW-46A	2,215	-1,153.4	-52
IW-46B	2,683	-1,877.8	-70
IW-47A	2,215	-1,113.4	-50
IW-47B	2,683	-1,574.0	-59
IW-50A	2,215	-1,202.4	-54
IW-50B	2,683	-1,230.2	-46
IW-51A	2,214	-533.6	-24
IW-51B	2,683	-493.2	-18
IW-52A	2,215	-1,126.4	-51
IW-53A	2,214	-394.6	-18
IW-53B	2,683	-905.2	-34
IW-54A	2,215	-1,127.4	-51
IW-54B	2,683	-1,000.2	-37
IW-55A	2,214	-1,633.6	-74
IW-56A	2,639	-1,224.7	-46
IW-56B	2,683	-1,032.2	-38
IW-57A	2,215	-1,107.4	-50
IW-57B	2,683	-1,077.7	-40
IW-58B	2,683	-541.2	-20
IW-59B	2,683	-444.2	-17
IW-60B	2,683	-1,109.2	-41

TABLE 3
PHASE 2 INJECTION 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
Group D Monitoring Wells (5)	
Shallow	MW-4, MW-8, MW-9, MW-18, and MW-19
Group E Monitoring Wells (3)	
Shallow	MW-4, MW-18, and MW-19

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		Group D (5 wells)	Group D (5 wells)	Group D (5 wells)	
Fe+3/Fe+2; Mg (total)					
TOC					
Alkalinity					
MEE					
VFA	Group B (5 wells)	Group E (3 wells)	Group E (3 wells)	Group E (3 wells)	Group B (5 wells)
DHC, TCE-reductase, VC-reductase		0		0	

Note:
Baseline sampling event completed 10/1/13 - 10/2/13.

APPENDIX A

IDW LABORATORY ANALYTICAL REPORT

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

10/15/2013

Solutions-IES, Inc.
Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Lab Submittal Date: 09/27/2013
Prism Work Order: 3090541

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 Robbi A. Jones For Angela D. Overcash
President/Project Manager

Data Qualifiers Key Reference:

D	RPD value outside of the control limits.
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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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

10/15/2013

Prism Work Order: 3090541

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
IDW-Soil-904	3090541-01	Solid	09/27/13	09/27/13
IDW-Soil-910	3090541-02	Solid	09/27/13	09/27/13
IDW-Soil-907	3090541-03	Solid	09/27/13	09/27/13
IDW-Decon-1	3090541-04	Water	09/27/13	09/27/13
IDW-Develop-1	3090541-05	Water	09/27/13	09/27/13
IDW-Drum-1	3090541-06	Solid	09/27/13	09/27/13
IDW-Purge	3090541-07	Water	09/27/13	09/27/13
Trip Blank	3090541-08	Water	09/27/13	09/27/13

Samples were received in good condition at 4.6 degrees C unless otherwise noted.

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Summary of Detections

10/15/2013

Prism Work Order: 3090541

Prism ID	Client ID	Parameter	Method	Result		Units
3090541-01	IDW-Soil-904	1,1,1-Trichloroethane	8260B	0.13		mg/kg dry
3090541-01	IDW-Soil-904	1,1-Dichloroethane	8260B	0.0093		mg/kg dry
3090541-01	IDW-Soil-904	1,1-Dichloroethylene	8260B	0.15		mg/kg dry
3090541-01	IDW-Soil-904	cis-1,2-Dichloroethylene	8260B	0.020		mg/kg dry
3090541-01	IDW-Soil-904	Ethylbenzene	8260B	0.0022	J	mg/kg dry
3090541-01	IDW-Soil-904	m,p-Xylenes	8260B	0.0072	J	mg/kg dry
3090541-01	IDW-Soil-904	o-Xylene	8260B	0.0017	J	mg/kg dry
3090541-01	IDW-Soil-904	Trichloroethylene	8260B	0.12		mg/kg dry
3090541-01	IDW-Soil-904	Trichlorofluoromethane	8260B	0.0045		mg/kg dry
3090541-01	IDW-Soil-904	Vinyl chloride	8260B	0.0021	J	mg/kg dry
3090541-01	IDW-Soil-904	Xylenes, total	8260B	0.0089	J	mg/kg dry
3090541-01	IDW-Soil-904	Tetrachloroethylene	8260B	9.0		mg/kg dry
3090541-02	IDW-Soil-910	1,1,1-Trichloroethane	8260B/5030B	0.0056		mg/kg dry
3090541-02	IDW-Soil-910	1,1,1-Trichloroethane	8260B	0.0082		mg/kg dry
3090541-02	IDW-Soil-910	1,1-Dichloroethylene	8260B/5030B	0.0034	J	mg/kg dry
3090541-02	IDW-Soil-910	1,1-Dichloroethylene	8260B	0.0038	J	mg/kg dry
3090541-02	IDW-Soil-910	Acetone	8260B	0.0085	J	mg/kg dry
3090541-02	IDW-Soil-910	Tetrachloroethylene	8260B	0.11		mg/kg dry
3090541-02	IDW-Soil-910	Tetrachloroethylene	8260B/5030B	0.17		mg/kg dry
3090541-02	IDW-Soil-910	Trichloroethylene	8260B	0.0049	J	mg/kg dry
3090541-02	IDW-Soil-910	Trichloroethylene	8260B/5030B	0.0070		mg/kg dry
3090541-03	IDW-Soil-907	1,1,1-Trichloroethane	8260B	0.0072		mg/kg dry
3090541-03	IDW-Soil-907	1,1-Dichloroethane	8260B	0.0027	J	mg/kg dry
3090541-03	IDW-Soil-907	1,1-Dichloroethylene	8260B	0.050		mg/kg dry
3090541-03	IDW-Soil-907	1,2-Dichlorobenzene	8260B	0.0088	J	mg/kg dry
3090541-03	IDW-Soil-907	Acetone	8260B	0.10		mg/kg dry
3090541-03	IDW-Soil-907	cis-1,2-Dichloroethylene	8260B	0.0047	J	mg/kg dry
3090541-03	IDW-Soil-907	Methyl Ethyl Ketone (2-Butanone)	8260B	0.0021	J	mg/kg dry
3090541-03	IDW-Soil-907	Trichloroethylene	8260B	0.022		mg/kg dry
3090541-03	IDW-Soil-907	Tetrachloroethylene	8260B	0.87		mg/kg dry
3090541-04	IDW-Decon-1	1,1,1-Trichloroethane	8260B	1.2		ug/L
3090541-04	IDW-Decon-1	1,1-Dichloroethylene	8260B	0.79		ug/L
3090541-04	IDW-Decon-1	Acetone	8260B	6.6		ug/L
3090541-04	IDW-Decon-1	Tetrachloroethylene	8260B	22		ug/L
3090541-04	IDW-Decon-1	Trichloroethylene	8260B	0.86		ug/L
3090541-05	IDW-Develop-1	1,1,1-Trichloroethane	8260B	210		ug/L
3090541-05	IDW-Develop-1	1,1-Dichloroethane	8260B	11		ug/L
3090541-05	IDW-Develop-1	1,1-Dichloroethylene	8260B	70		ug/L
3090541-05	IDW-Develop-1	cis-1,2-Dichloroethylene	8260B	15		ug/L
3090541-05	IDW-Develop-1	Tetrachloroethylene	8260B	1500		ug/L
3090541-05	IDW-Develop-1	Trichloroethylene	8260B	70		ug/L
3090541-06	IDW-Drum-1	cis-1,2-Dichloroethylene	8260B	0.090		mg/kg dry
3090541-06	IDW-Drum-1	Tetrachloroethylene	8260B	0.0024	J	mg/kg dry
3090541-07	IDW-Purge	1,1,1-Trichloroethane	8260B	0.75		ug/L

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Summary of Detections

10/15/2013

Prism Work Order: 3090541

Prism ID	Client ID	Parameter	Method	Result	Units
3090541-07	IDW-Purge	1,1-Dichloroethylene	8260B	4.2	ug/L
3090541-07	IDW-Purge	Tetrachloroethylene	8260B	60	ug/L
3090541-07	IDW-Purge	Trichloroethylene	8260B	2.9	ug/L

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-904
Prism Sample ID: 3090541-01
Prism Work Order: 3090541
Time Collected: 09/27/13 09:30
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**79.9**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/2/13 15:00**	**ANG**	**P3J0055**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0040	0.00024	1	8260B	10/5/13 3:56	MSC	P3J0104
1,1,1-Trichloroethane	**0.13**	**mg/kg dry**	**0.0040**	**0.00013**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0040	0.00067	1	8260B	10/5/13 3:56	MSC	P3J0104
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0040	0.00034	1	8260B	10/5/13 3:56	MSC	P3J0104
1,1-Dichloroethane	**0.0093**	**mg/kg dry**	**0.0040**	**0.00034**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
1,1-Dichloroethylene	**0.15**	**mg/kg dry**	**0.0040**	**0.00025**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
1,1-Dichloropropylene	BRL	mg/kg dry	0.0040	0.00042	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0081	0.00030	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0040	0.00061	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0081	0.00024	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0081	0.00079	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2-Dibromo-3-chloropropane	BRL	mg/kg dry	0.0040	0.0012	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2-Dibromoethane	BRL	mg/kg dry	0.0040	0.00046	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0081	0.00018	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2-Dichloroethane	BRL	mg/kg dry	0.0040	0.00065	1	8260B	10/5/13 3:56	MSC	P3J0104
1,2-Dichloropropane	BRL	mg/kg dry	0.0040	0.00026	1	8260B	10/5/13 3:56	MSC	P3J0104
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0081	0.00019	1	8260B	10/5/13 3:56	MSC	P3J0104
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0081	0.000056	1	8260B	10/5/13 3:56	MSC	P3J0104
1,3-Dichloropropane	BRL	mg/kg dry	0.0040	0.00044	1	8260B	10/5/13 3:56	MSC	P3J0104
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0081	0.00030	1	8260B	10/5/13 3:56	MSC	P3J0104
2,2-Dichloropropane	BRL	mg/kg dry	0.0040	0.00025	1	8260B	10/5/13 3:56	MSC	P3J0104
2-Chloroethyl Vinyl Ether	BRL	mg/kg dry	0.0081	0.0023	1	8260B	10/5/13 3:56	MSC	P3J0104
2-Chlorotoluene	BRL	mg/kg dry	0.0081	0.00025	1	8260B	10/5/13 3:56	MSC	P3J0104
4-Chlorotoluene	BRL	mg/kg dry	0.0081	0.00019	1	8260B	10/5/13 3:56	MSC	P3J0104
4-Isopropyltoluene	BRL	mg/kg dry	0.012	0.00026	1	8260B	10/5/13 3:56	MSC	P3J0104
Acetone	BRL	mg/kg dry	0.016	0.0021	1	8260B	10/5/13 3:56	MSC	P3J0104
Acrolein	BRL	mg/kg dry	0.081	0.0024	1	8260B	10/5/13 3:56	MSC	P3J0104
Acrylonitrile	BRL	mg/kg dry	0.081	0.0020	1	8260B	10/5/13 3:56	MSC	P3J0104
Benzene	BRL	mg/kg dry	0.0024	0.00024	1	8260B	10/5/13 3:56	MSC	P3J0104
Bromobenzene	BRL	mg/kg dry	0.0040	0.00017	1	8260B	10/5/13 3:56	MSC	P3J0104
Bromochloromethane	BRL	mg/kg dry	0.0040	0.00059	1	8260B	10/5/13 3:56	MSC	P3J0104
Bromodichloromethane	BRL	mg/kg dry	0.0040	0.00019	1	8260B	10/5/13 3:56	MSC	P3J0104
Bromoform	BRL	mg/kg dry	0.0040	0.00071	1	8260B	10/5/13 3:56	MSC	P3J0104
Bromomethane	BRL	mg/kg dry	0.0081	0.0011	1	8260B	10/5/13 3:56	MSC	P3J0104
Carbon disulfide	BRL	mg/kg dry	0.0081	0.00034	1	8260B	10/5/13 3:56	MSC	P3J0104
Carbon Tetrachloride	BRL	mg/kg dry	0.0040	0.00022	1	8260B	10/5/13 3:56	MSC	P3J0104
Chlorobenzene	BRL	mg/kg dry	0.0040	0.00019	1	8260B	10/5/13 3:56	MSC	P3J0104
Chloroethane	BRL	mg/kg dry	0.0081	0.0031	1	8260B	10/5/13 3:56	MSC	P3J0104
Chloroform	BRL	mg/kg dry	0.0040	0.00017	1	8260B	10/5/13 3:56	MSC	P3J0104

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-904
Prism Sample ID: 3090541-01
Prism Work Order: 3090541
Time Collected: 09/27/13 09:30
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL	mg/kg dry	0.0081	0.0020	1	8260B	10/5/13 3:56	MSC	P3J0104
cis-1,2-Dichloroethylene	**0.020**	**mg/kg dry**	**0.0040**	**0.00033**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0040	0.00020	1	8260B	10/5/13 3:56	MSC	P3J0104
Dibromochloromethane	BRL	mg/kg dry	0.0040	0.00027	1	8260B	10/5/13 3:56	MSC	P3J0104
Dibromomethane	BRL	mg/kg dry	0.0040	0.00027	1	8260B	10/5/13 3:56	MSC	P3J0104
Dichlorodifluoromethane	BRL	mg/kg dry	0.0081	0.00043	1	8260B	10/5/13 3:56	MSC	P3J0104
Ethylbenzene	**0.0022 J**	**mg/kg dry**	**0.0040**	**0.00026**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
Hexachlorobutadiene	BRL	mg/kg dry	0.012	0.00052	1	8260B	10/5/13 3:56	MSC	P3J0104
Isopropyl Ether	BRL	mg/kg dry	0.0040	0.00017	1	8260B	10/5/13 3:56	MSC	P3J0104
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0081	0.00020	1	8260B	10/5/13 3:56	MSC	P3J0104
m,p-Xylenes	**0.0072 J**	**mg/kg dry**	**0.0081**	**0.00052**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.040	0.00083	1	8260B	10/5/13 3:56	MSC	P3J0104
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.016	0.0014	1	8260B	10/5/13 3:56	MSC	P3J0104
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.0081	0.0011	1	8260B	10/5/13 3:56	MSC	P3J0104
Methylene Chloride	BRL	mg/kg dry	0.0081	0.00029	1	8260B	10/5/13 3:56	MSC	P3J0104
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0040	0.00031	1	8260B	10/5/13 3:56	MSC	P3J0104
Naphthalene	BRL	mg/kg dry	0.0040	0.00030	1	8260B	10/5/13 3:56	MSC	P3J0104
n-Butylbenzene	BRL	mg/kg dry	0.012	0.00018	1	8260B	10/5/13 3:56	MSC	P3J0104
n-Propylbenzene	BRL	mg/kg dry	0.0081	0.00023	1	8260B	10/5/13 3:56	MSC	P3J0104
o-Xylene	**0.0017 J**	**mg/kg dry**	**0.0040**	**0.00026**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
sec-Butylbenzene	BRL	mg/kg dry	0.012	0.00016	1	8260B	10/5/13 3:56	MSC	P3J0104
Styrene	BRL	mg/kg dry	0.0040	0.00018	1	8260B	10/5/13 3:56	MSC	P3J0104
tert-Butylbenzene	BRL	mg/kg dry	0.016	0.00021	1	8260B	10/5/13 3:56	MSC	P3J0104
Tetrachloroethylene	See 8260ML	mg/kg dry	0.0081	0.00028	1	8260B	10/5/13 3:56	MSC	P3J0104
Toluene	BRL	mg/kg dry	0.0040	0.00024	1	8260B	10/5/13 3:56	MSC	P3J0104
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0040	0.00047	1	8260B	10/5/13 3:56	MSC	P3J0104
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0040	0.00019	1	8260B	10/5/13 3:56	MSC	P3J0104
Trichloroethylene	**0.12**	**mg/kg dry**	**0.0040**	**0.00037**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
Trichlorofluoromethane	**0.0045**	**mg/kg dry**	**0.0040**	**0.00033**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
Vinyl acetate	BRL	mg/kg dry	0.0081	0.0011	1	8260B	10/5/13 3:56	MSC	P3J0104
Vinyl chloride	**0.0021 J**	**mg/kg dry**	**0.0081**	**0.00052**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**
Xylenes, total	**0.0089 J**	**mg/kg dry**	**0.012**	**0.00076**	**1**	**8260B**	**10/5/13 3:56**	**MSC**	**P3J0104**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*109 %*	*70-130*
Dibromofluoromethane	*114 %*	*84-123*
Toluene-d8	*103 %*	*76-129*

Volatile Organic Compounds by GC/MS (Medium Level)

Tetrachloroethylene	**9.0**	**mg/kg dry**	**2.5**	**0.76**	**500**	**8260B**	**10/7/13 16:48**	**MSC**	**P3J0142**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*110 %*	*70-130*
Dibromofluoromethane	*102 %*	*70-130*
Toluene-d8	*109 %*	*70-130*

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Solutions-IES, Inc.
Attn: Jody Overmyer
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Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-910
Prism Sample ID: 3090541-02
Prism Work Order: 3090541
Time Collected: 09/27/13 09:45
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**78.1**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/2/13 15:00**	**ANG**	**P3J0055**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0050	0.00030	1	8260B	10/5/13 4:20	MSC	P3J0104
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00033	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,1,1-Trichloroethane	**0.0056**	**mg/kg dry**	**0.0055**	**0.00018**	**1**	**8260B/5030B**	**10/8/13 22:23**	**MSC**	**P3J0169**
1,1,1-Trichloroethane	**0.0082**	**mg/kg dry**	**0.0050**	**0.00016**	**1**	**8260B**	**10/5/13 4:20**	**MSC**	**P3J0104**
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0050	0.00082	1	8260B	10/5/13 4:20	MSC	P3J0104
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00091	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0050	0.00042	1	8260B	10/5/13 4:20	MSC	P3J0104
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0055	0.00046	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,1-Dichloroethane	BRL	mg/kg dry	0.0050	0.00042	1	8260B	10/5/13 4:20	MSC	P3J0104
1,1-Dichloroethane	BRL	mg/kg dry	0.0055	0.00046	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,1-Dichloroethylene	**0.0034 J**	**mg/kg dry**	**0.0055**	**0.00033**	**1**	**8260B/5030B**	**10/8/13 22:23**	**MSC**	**P3J0169**
1,1-Dichloroethylene	**0.0038 J**	**mg/kg dry**	**0.0050**	**0.00030**	**1**	**8260B**	**10/5/13 4:20**	**MSC**	**P3J0104**
1,1-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00053	1	8260B	10/5/13 4:20	MSC	P3J0104
1,1-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00058	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.010	0.00037	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.011	0.00041	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0050	0.00075	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0055	0.00083	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.010	0.00029	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.011	0.00032	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.010	0.00098	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.011	0.0011	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2-Dibromo-3-chloropropane	BRL	mg/kg dry	0.0050	0.0015	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2-Dibromo-3-chloropropane	BRL	mg/kg dry	0.0055	0.0017	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2-Dibromoethane	BRL	mg/kg dry	0.0050	0.00057	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2-Dibromoethane	BRL	mg/kg dry	0.0055	0.00063	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2-Dichlorobenzene	BRL	mg/kg dry	0.010	0.00023	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2-Dichlorobenzene	BRL	mg/kg dry	0.011	0.00025	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2-Dichloroethane	BRL	mg/kg dry	0.0050	0.00080	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2-Dichloroethane	BRL	mg/kg dry	0.0055	0.00088	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.00032	1	8260B	10/5/13 4:20	MSC	P3J0104
1,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00035	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.010	0.00024	1	8260B	10/5/13 4:20	MSC	P3J0104
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.011	0.00026	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,3-Dichlorobenzene	BRL	mg/kg dry	0.010	0.000069	1	8260B	10/5/13 4:20	MSC	P3J0104
1,3-Dichlorobenzene	BRL	mg/kg dry	0.011	0.000076	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,3-Dichloropropane	BRL	mg/kg dry	0.0050	0.00054	1	8260B	10/5/13 4:20	MSC	P3J0104
1,3-Dichloropropane	BRL	mg/kg dry	0.0055	0.00059	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
1,4-Dichlorobenzene	BRL	mg/kg dry	0.010	0.00036	1	8260B	10/5/13 4:20	MSC	P3J0104

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-910
Prism Sample ID: 3090541-02
Prism Work Order: 3090541
Time Collected: 09/27/13 09:45
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,4-Dichlorobenzene	BRL	mg/kg dry	0.011	0.00040	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
2,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.00032	1	8260B	10/5/13 4:20	MSC	P3J0104
2,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00035	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
2-Chloroethyl Vinyl Ether	BRL	mg/kg dry	0.010	0.0028	1	8260B	10/5/13 4:20	MSC	P3J0104
2-Chloroethyl Vinyl Ether	BRL	mg/kg dry	0.011	0.0031	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
2-Chlorotoluene	BRL	mg/kg dry	0.010	0.00031	1	8260B	10/5/13 4:20	MSC	P3J0104
2-Chlorotoluene	BRL	mg/kg dry	0.011	0.00034	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
4-Chlorotoluene	BRL	mg/kg dry	0.010	0.00023	1	8260B	10/5/13 4:20	MSC	P3J0104
4-Chlorotoluene	BRL	mg/kg dry	0.011	0.00026	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
4-Isopropyltoluene	BRL	mg/kg dry	0.015	0.00032	1	8260B	10/5/13 4:20	MSC	P3J0104
4-Isopropyltoluene	BRL	mg/kg dry	0.016	0.00035	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Acetone	**0.0085 J**	**mg/kg dry**	**0.020**	**0.0027**	**1**	**8260B**	**10/5/13 4:20**	**MSC**	**P3J0104**
Acetone	BRL	mg/kg dry	0.022	0.0029	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Acrolein	BRL	mg/kg dry	0.10	0.0030	1	8260B	10/5/13 4:20	MSC	P3J0104
Acrolein	BRL	mg/kg dry	0.11	0.0033	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Acrylonitrile	BRL	mg/kg dry	0.10	0.0025	1	8260B	10/5/13 4:20	MSC	P3J0104
Acrylonitrile	BRL	mg/kg dry	0.11	0.0027	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Benzene	BRL	mg/kg dry	0.0030	0.00030	1	8260B	10/5/13 4:20	MSC	P3J0104
Benzene	BRL	mg/kg dry	0.0033	0.00033	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Bromobenzene	BRL	mg/kg dry	0.0050	0.00021	1	8260B	10/5/13 4:20	MSC	P3J0104
Bromobenzene	BRL	mg/kg dry	0.0055	0.00023	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Bromochloromethane	BRL	mg/kg dry	0.0050	0.00073	1	8260B	10/5/13 4:20	MSC	P3J0104
Bromochloromethane	BRL	mg/kg dry	0.0055	0.00080	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Bromodichloromethane	BRL	mg/kg dry	0.0050	0.00023	1	8260B	10/5/13 4:20	MSC	P3J0104
Bromodichloromethane	BRL	mg/kg dry	0.0055	0.00025	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Bromoform	BRL	mg/kg dry	0.0050	0.00088	1	8260B	10/5/13 4:20	MSC	P3J0104
Bromoform	BRL	mg/kg dry	0.0055	0.00097	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Bromomethane	BRL	mg/kg dry	0.010	0.0014	1	8260B	10/5/13 4:20	MSC	P3J0104
Bromomethane	BRL	mg/kg dry	0.011	0.0015	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Carbon disulfide	BRL	mg/kg dry	0.010	0.00041	1	8260B	10/5/13 4:20	MSC	P3J0104
Carbon disulfide	BRL	mg/kg dry	0.011	0.00046	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Carbon Tetrachloride	BRL	mg/kg dry	0.0050	0.00027	1	8260B	10/5/13 4:20	MSC	P3J0104
Carbon Tetrachloride	BRL	mg/kg dry	0.0055	0.00030	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Chlorobenzene	BRL	mg/kg dry	0.0050	0.00023	1	8260B	10/5/13 4:20	MSC	P3J0104
Chlorobenzene	BRL	mg/kg dry	0.0055	0.00026	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Chloroethane	BRL	mg/kg dry	0.010	0.0038	1	8260B	10/5/13 4:20	MSC	P3J0104
Chloroethane	BRL	mg/kg dry	0.011	0.0042	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Chloroform	BRL	mg/kg dry	0.0050	0.00021	1	8260B	10/5/13 4:20	MSC	P3J0104
Chloroform	BRL	mg/kg dry	0.0055	0.00023	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Chloromethane	BRL	mg/kg dry	0.010	0.0025	1	8260B	10/5/13 4:20	MSC	P3J0104
Chloromethane	BRL	mg/kg dry	0.011	0.0028	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00040	1	8260B	10/5/13 4:20	MSC	P3J0104
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00044	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-910
Prism Sample ID: 3090541-02
Prism Work Order: 3090541
Time Collected: 09/27/13 09:45
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00025	1	8260B	10/5/13 4:20	MSC	P3J0104
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00027	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Dibromochloromethane	BRL	mg/kg dry	0.0050	0.00034	1	8260B	10/5/13 4:20	MSC	P3J0104
Dibromochloromethane	BRL	mg/kg dry	0.0055	0.00037	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Dibromomethane	BRL	mg/kg dry	0.0050	0.00034	1	8260B	10/5/13 4:20	MSC	P3J0104
Dibromomethane	BRL	mg/kg dry	0.0055	0.00037	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Dichlorodifluoromethane	BRL	mg/kg dry	0.010	0.00053	1	8260B	10/5/13 4:20	MSC	P3J0104
Dichlorodifluoromethane	BRL	mg/kg dry	0.011	0.00059	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Ethylbenzene	BRL	mg/kg dry	0.0050	0.00032	1	8260B	10/5/13 4:20	MSC	P3J0104
Ethylbenzene	BRL	mg/kg dry	0.0055	0.00035	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Hexachlorobutadiene	BRL	mg/kg dry	0.015	0.00064	1	8260B	10/5/13 4:20	MSC	P3J0104
Hexachlorobutadiene	BRL	mg/kg dry	0.016	0.00071	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Isopropyl Ether	BRL	mg/kg dry	0.0050	0.00021	1	8260B	10/5/13 4:20	MSC	P3J0104
Isopropyl Ether	BRL	mg/kg dry	0.0055	0.00023	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.010	0.00025	1	8260B	10/5/13 4:20	MSC	P3J0104
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.011	0.00027	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00064	1	8260B	10/5/13 4:20	MSC	P3J0104
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00070	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.050	0.0010	1	8260B	10/5/13 4:20	MSC	P3J0104
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.055	0.0011	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.020	0.0018	1	8260B	10/5/13 4:20	MSC	P3J0104
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.022	0.0020	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.010	0.0013	1	8260B	10/5/13 4:20	MSC	P3J0104
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.011	0.0014	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Methylene Chloride	BRL	mg/kg dry	0.010	0.00036	1	8260B	10/5/13 4:20	MSC	P3J0104
Methylene Chloride	BRL	mg/kg dry	0.011	0.00040	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0050	0.00038	1	8260B	10/5/13 4:20	MSC	P3J0104
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0055	0.00042	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Naphthalene	BRL	mg/kg dry	0.0050	0.00037	1	8260B	10/5/13 4:20	MSC	P3J0104
Naphthalene	BRL	mg/kg dry	0.0055	0.00040	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
n-Butylbenzene	BRL	mg/kg dry	0.015	0.00022	1	8260B	10/5/13 4:20	MSC	P3J0104
n-Butylbenzene	BRL	mg/kg dry	0.016	0.00024	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
n-Propylbenzene	BRL	mg/kg dry	0.010	0.00028	1	8260B	10/5/13 4:20	MSC	P3J0104
n-Propylbenzene	BRL	mg/kg dry	0.011	0.00031	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
o-Xylene	BRL	mg/kg dry	0.0050	0.00032	1	8260B	10/5/13 4:20	MSC	P3J0104
o-Xylene	BRL	mg/kg dry	0.0055	0.00035	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
sec-Butylbenzene	BRL	mg/kg dry	0.015	0.00020	1	8260B	10/5/13 4:20	MSC	P3J0104
sec-Butylbenzene	BRL	mg/kg dry	0.016	0.00022	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Styrene	BRL	mg/kg dry	0.0050	0.00022	1	8260B	10/5/13 4:20	MSC	P3J0104
Styrene	BRL	mg/kg dry	0.0055	0.00024	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
tert-Butylbenzene	BRL	mg/kg dry	0.020	0.00026	1	8260B	10/5/13 4:20	MSC	P3J0104
tert-Butylbenzene	BRL	mg/kg dry	0.022	0.00028	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Tetrachloroethylene	**0.11**	**mg/kg dry**	**0.010**	**0.00035**	**1**	**8260B**	**10/5/13 4:20**	**MSC**	**P3J0104**

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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

Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-910
Prism Sample ID: 3090541-02
Prism Work Order: 3090541
Time Collected: 09/27/13 09:45
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Tetrachloroethylene	**0.17**	**mg/kg dry**	**0.011**	**0.00038**	**1**	**8260B/5030B**	**10/8/13 22:23**	**MSC**	**P3J0169**
Toluene	BRL	mg/kg dry	0.0050	0.00030	1	8260B	10/5/13 4:20	MSC	P3J0104
Toluene	BRL	mg/kg dry	0.0055	0.00033	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00058	1	8260B	10/5/13 4:20	MSC	P3J0104
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00063	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00024	1	8260B	10/5/13 4:20	MSC	P3J0104
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00026	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Trichloroethylene	**0.0049 J**	**mg/kg dry**	**0.0050**	**0.00046**	**1**	**8260B**	**10/5/13 4:20**	**MSC**	**P3J0104**
Trichloroethylene	**0.0070**	**mg/kg dry**	**0.0055**	**0.00051**	**1**	**8260B/5030B**	**10/8/13 22:23**	**MSC**	**P3J0169**
Trichlorofluoromethane	BRL	mg/kg dry	0.0050	0.00040	1	8260B	10/5/13 4:20	MSC	P3J0104
Trichlorofluoromethane	BRL	mg/kg dry	0.0055	0.00045	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Vinyl acetate	BRL	mg/kg dry	0.010	0.0014	1	8260B	10/5/13 4:20	MSC	P3J0104
Vinyl acetate	BRL	mg/kg dry	0.011	0.0016	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Vinyl chloride	BRL	mg/kg dry	0.010	0.00065	1	8260B	10/5/13 4:20	MSC	P3J0104
Vinyl chloride	BRL	mg/kg dry	0.011	0.00071	1	8260B/5030B	10/8/13 22:23	MSC	P3J0169
Xylenes, total	BRL	mg/kg dry	0.015	0.00093	1	8260B	10/5/13 4:20	MSC	P3J0104

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*70-130*
4-Bromofluorobenzene	*101 %*	*70-130*
Dibromofluoromethane	*102 %*	*84-123*
Dibromofluoromethane	*93 %*	*84-123*
Toluene-d8	*102 %*	*76-129*
Toluene-d8	*125 %*	*76-129*

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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

Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-907
Prism Sample ID: 3090541-03
Prism Work Order: 3090541
Time Collected: 09/27/13 09:00
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**82.4**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/2/13 15:00**	**ANG**	**P3J0055**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00031	1	8260B	10/5/13 4:44	MSC	P3J0104
1,1,1-Trichloroethane	**0.0072**	**mg/kg dry**	**0.0052**	**0.00017**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00086	1	8260B	10/5/13 4:44	MSC	P3J0104
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0052	0.00044	1	8260B	10/5/13 4:44	MSC	P3J0104
1,1-Dichloroethane	**0.0027 J**	**mg/kg dry**	**0.0052**	**0.00044**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
1,1-Dichloroethylene	**0.050**	**mg/kg dry**	**0.0052**	**0.00032**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
1,1-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00055	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.010	0.00039	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0052	0.00079	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.010	0.00031	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.010	0.0010	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2-Dibromo-3-chloropropane	BRL	mg/kg dry	0.0052	0.0016	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2-Dibromoethane	BRL	mg/kg dry	0.0052	0.00060	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2-Dichlorobenzene	**0.0088 J**	**mg/kg dry**	**0.010**	**0.00024**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
1,2-Dichloroethane	BRL	mg/kg dry	0.0052	0.00084	1	8260B	10/5/13 4:44	MSC	P3J0104
1,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00033	1	8260B	10/5/13 4:44	MSC	P3J0104
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.010	0.00025	1	8260B	10/5/13 4:44	MSC	P3J0104
1,3-Dichlorobenzene	BRL	mg/kg dry	0.010	0.000072	1	8260B	10/5/13 4:44	MSC	P3J0104
1,3-Dichloropropane	BRL	mg/kg dry	0.0052	0.00056	1	8260B	10/5/13 4:44	MSC	P3J0104
1,4-Dichlorobenzene	BRL	mg/kg dry	0.010	0.00038	1	8260B	10/5/13 4:44	MSC	P3J0104
2,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00033	1	8260B	10/5/13 4:44	MSC	P3J0104
2-Chloroethyl Vinyl Ether	BRL	mg/kg dry	0.010	0.0029	1	8260B	10/5/13 4:44	MSC	P3J0104
2-Chlorotoluene	BRL	mg/kg dry	0.010	0.00032	1	8260B	10/5/13 4:44	MSC	P3J0104
4-Chlorotoluene	BRL	mg/kg dry	0.010	0.00024	1	8260B	10/5/13 4:44	MSC	P3J0104
4-Isopropyltoluene	BRL	mg/kg dry	0.016	0.00033	1	8260B	10/5/13 4:44	MSC	P3J0104
Acetone	**0.10**	**mg/kg dry**	**0.021**	**0.0028**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
Acrolein	BRL	mg/kg dry	0.10	0.0032	1	8260B	10/5/13 4:44	MSC	P3J0104
Acrylonitrile	BRL	mg/kg dry	0.10	0.0026	1	8260B	10/5/13 4:44	MSC	P3J0104
Benzene	BRL	mg/kg dry	0.0031	0.00032	1	8260B	10/5/13 4:44	MSC	P3J0104
Bromobenzene	BRL	mg/kg dry	0.0052	0.00022	1	8260B	10/5/13 4:44	MSC	P3J0104
Bromochloromethane	BRL	mg/kg dry	0.0052	0.00076	1	8260B	10/5/13 4:44	MSC	P3J0104
Bromodichloromethane	BRL	mg/kg dry	0.0052	0.00024	1	8260B	10/5/13 4:44	MSC	P3J0104
Bromoform	BRL	mg/kg dry	0.0052	0.00092	1	8260B	10/5/13 4:44	MSC	P3J0104
Bromomethane	BRL	mg/kg dry	0.010	0.0015	1	8260B	10/5/13 4:44	MSC	P3J0104
Carbon disulfide	BRL	mg/kg dry	0.010	0.00043	1	8260B	10/5/13 4:44	MSC	P3J0104
Carbon Tetrachloride	BRL	mg/kg dry	0.0052	0.00028	1	8260B	10/5/13 4:44	MSC	P3J0104
Chlorobenzene	BRL	mg/kg dry	0.0052	0.00024	1	8260B	10/5/13 4:44	MSC	P3J0104
Chloroethane	BRL	mg/kg dry	0.010	0.0040	1	8260B	10/5/13 4:44	MSC	P3J0104
Chloroform	BRL	mg/kg dry	0.0052	0.00022	1	8260B	10/5/13 4:44	MSC	P3J0104

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Soil-907
Prism Sample ID: 3090541-03
Prism Work Order: 3090541
Time Collected: 09/27/13 09:00
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL	mg/kg dry	0.010	0.0026	1	8260B	10/5/13 4:44	MSC	P3J0104
cis-1,2-Dichloroethylene	**0.0047 J**	**mg/kg dry**	**0.0052**	**0.00042**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00026	1	8260B	10/5/13 4:44	MSC	P3J0104
Dibromochloromethane	BRL	mg/kg dry	0.0052	0.00035	1	8260B	10/5/13 4:44	MSC	P3J0104
Dibromomethane	BRL	mg/kg dry	0.0052	0.00035	1	8260B	10/5/13 4:44	MSC	P3J0104
Dichlorodifluoromethane	BRL	mg/kg dry	0.010	0.00056	1	8260B	10/5/13 4:44	MSC	P3J0104
Ethylbenzene	BRL	mg/kg dry	0.0052	0.00034	1	8260B	10/5/13 4:44	MSC	P3J0104
Hexachlorobutadiene	BRL	mg/kg dry	0.016	0.00067	1	8260B	10/5/13 4:44	MSC	P3J0104
Isopropyl Ether	BRL	mg/kg dry	0.0052	0.00022	1	8260B	10/5/13 4:44	MSC	P3J0104
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.010	0.00026	1	8260B	10/5/13 4:44	MSC	P3J0104
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00067	1	8260B	10/5/13 4:44	MSC	P3J0104
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.052	0.0011	1	8260B	10/5/13 4:44	MSC	P3J0104
Methyl Ethyl Ketone (2-Butanone)	**0.0021 J**	**mg/kg dry**	**0.021**	**0.0019**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.010	0.0014	1	8260B	10/5/13 4:44	MSC	P3J0104
Methylene Chloride	BRL	mg/kg dry	0.010	0.00038	1	8260B	10/5/13 4:44	MSC	P3J0104
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0052	0.00040	1	8260B	10/5/13 4:44	MSC	P3J0104
Naphthalene	BRL	mg/kg dry	0.0052	0.00038	1	8260B	10/5/13 4:44	MSC	P3J0104
n-Butylbenzene	BRL	mg/kg dry	0.016	0.00023	1	8260B	10/5/13 4:44	MSC	P3J0104
n-Propylbenzene	BRL	mg/kg dry	0.010	0.00030	1	8260B	10/5/13 4:44	MSC	P3J0104
o-Xylene	BRL	mg/kg dry	0.0052	0.00033	1	8260B	10/5/13 4:44	MSC	P3J0104
sec-Butylbenzene	BRL	mg/kg dry	0.016	0.00021	1	8260B	10/5/13 4:44	MSC	P3J0104
Styrene	BRL	mg/kg dry	0.0052	0.00023	1	8260B	10/5/13 4:44	MSC	P3J0104
tert-Butylbenzene	BRL	mg/kg dry	0.021	0.00027	1	8260B	10/5/13 4:44	MSC	P3J0104
Tetrachloroethylene	See 8260ML	mg/kg dry	0.010	0.00036	1	8260B	10/5/13 4:44	MSC	P3J0104
Toluene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	10/5/13 4:44	MSC	P3J0104
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00060	1	8260B	10/5/13 4:44	MSC	P3J0104
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	10/5/13 4:44	MSC	P3J0104
Trichloroethylene	**0.022**	**mg/kg dry**	**0.0052**	**0.00048**	**1**	**8260B**	**10/5/13 4:44**	**MSC**	**P3J0104**
Trichlorofluoromethane	BRL	mg/kg dry	0.0052	0.00042	1	8260B	10/5/13 4:44	MSC	P3J0104
Vinyl acetate	BRL	mg/kg dry	0.010	0.0015	1	8260B	10/5/13 4:44	MSC	P3J0104
Vinyl chloride	BRL	mg/kg dry	0.010	0.00067	1	8260B	10/5/13 4:44	MSC	P3J0104
Xylenes, total	BRL	mg/kg dry	0.016	0.00098	1	8260B	10/5/13 4:44	MSC	P3J0104

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*70-130*
Dibromofluoromethane	*102 %*	*84-123*
Toluene-d8	*98 %*	*76-129*

Volatile Organic Compounds by GC/MS (Medium Level)

Tetrachloroethylene	**0.87**	**mg/kg dry**	**0.21**	**0.064**	**50**	**8260B**	**10/7/13 15:36**	**MSC**	**P3J0142**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*70-130*
Dibromofluoromethane	*96 %*	*70-130*
Toluene-d8	*104 %*	*70-130*

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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: IDW-Decon-1
Prism Sample ID: 3090541-04
Prism Work Order: 3090541
Time Collected: 09/27/13 10:00
Time Submitted: 09/27/13 15:20

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	0.50	0.15	1	8260B	10/2/13 12:19	VHL	P3J0060
1,1,1-Trichloroethane	**1.2**	**ug/L**	**0.50**	**0.063**	**1**	**8260B**	**10/2/13 12:19**	**VHL**	**P3J0060**
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	10/2/13 12:19	VHL	P3J0060
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	10/2/13 12:19	VHL	P3J0060
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	10/2/13 12:19	VHL	P3J0060
1,1-Dichloroethylene	**0.79**	**ug/L**	**0.50**	**0.078**	**1**	**8260B**	**10/2/13 12:19**	**VHL**	**P3J0060**
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	10/2/13 12:19	VHL	P3J0060
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:19	VHL	P3J0060
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	10/2/13 12:19	VHL	P3J0060
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	10/2/13 12:19	VHL	P3J0060
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	10/2/13 12:19	VHL	P3J0060
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	10/2/13 12:19	VHL	P3J0060
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	10/2/13 12:19	VHL	P3J0060
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	10/2/13 12:19	VHL	P3J0060
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	10/2/13 12:19	VHL	P3J0060
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	10/2/13 12:19	VHL	P3J0060
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	10/2/13 12:19	VHL	P3J0060
Acetone	**6.6**	**ug/L**	**5.0**	**0.62**	**1**	**8260B**	**10/2/13 12:19**	**VHL**	**P3J0060**
Acrolein	BRL	ug/L	20	1.1	1	8260B	10/2/13 12:19	VHL	P3J0060
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	10/2/13 12:19	VHL	P3J0060
Benzene	BRL	ug/L	0.50	0.072	1	8260B	10/2/13 12:19	VHL	P3J0060
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	10/2/13 12:19	VHL	P3J0060
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:19	VHL	P3J0060
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	10/2/13 12:19	VHL	P3J0060
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	10/2/13 12:19	VHL	P3J0060
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	10/2/13 12:19	VHL	P3J0060
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	10/2/13 12:19	VHL	P3J0060
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	10/2/13 12:19	VHL	P3J0060
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	10/2/13 12:19	VHL	P3J0060
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:19	VHL	P3J0060
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	10/2/13 12:19	VHL	P3J0060
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	10/2/13 12:19	VHL	P3J0060
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	10/2/13 12:19	VHL	P3J0060
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	10/2/13 12:19	VHL	P3J0060

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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: IDW-Decon-1
Prism Sample ID: 3090541-04
Prism Work Order: 3090541
Time Collected: 09/27/13 10:00
Time Submitted: 09/27/13 15:20

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	10/2/13 12:19	VHL	P3J0060
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:19	VHL	P3J0060
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	10/2/13 12:19	VHL	P3J0060
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	10/2/13 12:19	VHL	P3J0060
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	10/2/13 12:19	VHL	P3J0060
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	10/2/13 12:19	VHL	P3J0060
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	8260B	10/2/13 12:19	VHL	P3J0060
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	10/2/13 12:19	VHL	P3J0060
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	10/2/13 12:19	VHL	P3J0060
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	10/2/13 12:19	VHL	P3J0060
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	10/2/13 12:19	VHL	P3J0060
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	10/2/13 12:19	VHL	P3J0060
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	10/2/13 12:19	VHL	P3J0060
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	10/2/13 12:19	VHL	P3J0060
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	10/2/13 12:19	VHL	P3J0060
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	10/2/13 12:19	VHL	P3J0060
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	10/2/13 12:19	VHL	P3J0060
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	10/2/13 12:19	VHL	P3J0060
Styrene	BRL	ug/L	0.50	0.047	1	8260B	10/2/13 12:19	VHL	P3J0060
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	10/2/13 12:19	VHL	P3J0060
Tetrachloroethylene	**22**	**ug/L**	**0.50**	**0.069**	**1**	**8260B**	**10/2/13 12:19**	**VHL**	**P3J0060**
Toluene	BRL	ug/L	0.50	0.042	1	8260B	10/2/13 12:19	VHL	P3J0060
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	10/2/13 12:19	VHL	P3J0060
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	10/2/13 12:19	VHL	P3J0060
Trichloroethylene	**0.86**	**ug/L**	**0.50**	**0.054**	**1**	**8260B**	**10/2/13 12:19**	**VHL**	**P3J0060**
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	10/2/13 12:19	VHL	P3J0060
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	10/2/13 12:19	VHL	P3J0060
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	10/2/13 12:19	VHL	P3J0060
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	10/2/13 12:19	VHL	P3J0060

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*95 %*	*80-124*
Dibromofluoromethane	*101 %*	*75-129*
Toluene-d8	*97 %*	*77-123*

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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

Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: IDW-Develop-1
Prism Sample ID: 3090541-05
Prism Work Order: 3090541
Time Collected: 09/27/13 10:15
Time Submitted: 09/27/13 15:20

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	10/2/13 13:10	VHL	P3J0060
1,1,1-Trichloroethane	**210**	**ug/L**	**10**	**1.3**	**20**	**8260B**	**10/2/13 13:10**	**VHL**	**P3J0060**
1,1,2,2-Tetrachloroethane	BRL	ug/L	10	1.4	20	8260B	10/2/13 13:10	VHL	P3J0060
1,1,2-Trichloroethane	BRL	ug/L	10	3.3	20	8260B	10/2/13 13:10	VHL	P3J0060
1,1-Dichloroethane	**11**	**ug/L**	**10**	**1.9**	**20**	**8260B**	**10/2/13 13:10**	**VHL**	**P3J0060**
1,1-Dichloroethylene	**70**	**ug/L**	**10**	**1.6**	**20**	**8260B**	**10/2/13 13:10**	**VHL**	**P3J0060**
1,1-Dichloropropylene	BRL	ug/L	10	1.2	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2,3-Trichlorobenzene	BRL	ug/L	40	4.0	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2,3-Trichloropropane	BRL	ug/L	20	1.6	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2,4-Trichlorobenzene	BRL	ug/L	20	2.0	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2,4-Trimethylbenzene	BRL	ug/L	10	0.95	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2-Dibromo-3-chloropropane	BRL	ug/L	40	12	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2-Dibromoethane	BRL	ug/L	10	2.7	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2-Dichlorobenzene	BRL	ug/L	10	1.5	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2-Dichloroethane	BRL	ug/L	10	2.8	20	8260B	10/2/13 13:10	VHL	P3J0060
1,2-Dichloropropane	BRL	ug/L	10	2.5	20	8260B	10/2/13 13:10	VHL	P3J0060
1,3,5-Trimethylbenzene	BRL	ug/L	10	1.1	20	8260B	10/2/13 13:10	VHL	P3J0060
1,3-Dichlorobenzene	BRL	ug/L	10	1.5	20	8260B	10/2/13 13:10	VHL	P3J0060
1,3-Dichloropropane	BRL	ug/L	10	2.2	20	8260B	10/2/13 13:10	VHL	P3J0060
1,4-Dichlorobenzene	BRL	ug/L	10	1.4	20	8260B	10/2/13 13:10	VHL	P3J0060
2,2-Dichloropropane	BRL	ug/L	40	2.3	20	8260B	10/2/13 13:10	VHL	P3J0060
2-Chloroethyl Vinyl Ether	BRL	ug/L	40	4.5	20	8260B	10/2/13 13:10	VHL	P3J0060
2-Chlorotoluene	BRL	ug/L	10	0.76	20	8260B	10/2/13 13:10	VHL	P3J0060
4-Chlorotoluene	BRL	ug/L	10	1.1	20	8260B	10/2/13 13:10	VHL	P3J0060
4-Isopropyltoluene	BRL	ug/L	10	1.3	20	8260B	10/2/13 13:10	VHL	P3J0060
Acetone	BRL	ug/L	100	12	20	8260B	10/2/13 13:10	VHL	P3J0060
Acrolein	BRL	ug/L	400	22	20	8260B	10/2/13 13:10	VHL	P3J0060
Acrylonitrile	BRL	ug/L	400	17	20	8260B	10/2/13 13:10	VHL	P3J0060
Benzene	BRL	ug/L	10	1.4	20	8260B	10/2/13 13:10	VHL	P3J0060
Bromobenzene	BRL	ug/L	10	1.3	20	8260B	10/2/13 13:10	VHL	P3J0060
Bromochloromethane	BRL	ug/L	10	2.5	20	8260B	10/2/13 13:10	VHL	P3J0060
Bromodichloromethane	BRL	ug/L	10	1.2	20	8260B	10/2/13 13:10	VHL	P3J0060
Bromoform	BRL	ug/L	20	5.4	20	8260B	10/2/13 13:10	VHL	P3J0060
Bromomethane	BRL	ug/L	20	9.3	20	8260B	10/2/13 13:10	VHL	P3J0060
Carbon disulfide	BRL	ug/L	100	28	20	8260B	10/2/13 13:10	VHL	P3J0060
Carbon Tetrachloride	BRL	ug/L	10	2.4	20	8260B	10/2/13 13:10	VHL	P3J0060
Chlorobenzene	BRL	ug/L	10	1.2	20	8260B	10/2/13 13:10	VHL	P3J0060
Chloroethane	BRL	ug/L	10	2.6	20	8260B	10/2/13 13:10	VHL	P3J0060
Chloroform	BRL	ug/L	10	1.8	20	8260B	10/2/13 13:10	VHL	P3J0060
Chloromethane	BRL	ug/L	10	2.2	20	8260B	10/2/13 13:10	VHL	P3J0060
cis-1,2-Dichloroethylene	**15**	**ug/L**	**10**	**1.5**	**20**	**8260B**	**10/2/13 13:10**	**VHL**	**P3J0060**
cis-1,3-Dichloropropylene	BRL	ug/L	10	2.1	20	8260B	10/2/13 13:10	VHL	P3J0060

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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: IDW-Develop-1
Prism Sample ID: 3090541-05
Prism Work Order: 3090541
Time Collected: 09/27/13 10:15
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	10	6.0	20	8260B	10/2/13 13:10	VHL	P3J0060
Dibromomethane	BRL	ug/L	10	2.6	20	8260B	10/2/13 13:10	VHL	P3J0060
Dichlorodifluoromethane	BRL	ug/L	20	2.1	20	8260B	10/2/13 13:10	VHL	P3J0060
Ethylbenzene	BRL	ug/L	10	1.3	20	8260B	10/2/13 13:10	VHL	P3J0060
Hexachlorobutadiene	BRL	ug/L	40	7.3	20	8260B	10/2/13 13:10	VHL	P3J0060
Isopropyl Ether	BRL	ug/L	10	0.87	20	8260B	10/2/13 13:10	VHL	P3J0060
Isopropylbenzene (Cumene)	BRL	ug/L	10	1.4	20	8260B	10/2/13 13:10	VHL	P3J0060
m,p-Xylenes	BRL	ug/L	20	1.6	20	8260B	10/2/13 13:10	VHL	P3J0060
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	100	3.8	20	8260B	10/2/13 13:10	VHL	P3J0060
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	100	18	20	8260B	10/2/13 13:10	VHL	P3J0060
Methyl Isobutyl Ketone	BRL	ug/L	100	2.5	20	8260B	10/2/13 13:10	VHL	P3J0060
Methylene Chloride	BRL	ug/L	20	8.9	20	8260B	10/2/13 13:10	VHL	P3J0060
Methyl-tert-Butyl Ether	BRL	ug/L	10	1.4	20	8260B	10/2/13 13:10	VHL	P3J0060
Naphthalene	BRL	ug/L	20	2.0	20	8260B	10/2/13 13:10	VHL	P3J0060
n-Butylbenzene	BRL	ug/L	20	2.3	20	8260B	10/2/13 13:10	VHL	P3J0060
n-Propylbenzene	BRL	ug/L	10	1.2	20	8260B	10/2/13 13:10	VHL	P3J0060
o-Xylene	BRL	ug/L	10	0.92	20	8260B	10/2/13 13:10	VHL	P3J0060
sec-Butylbenzene	BRL	ug/L	10	1.7	20	8260B	10/2/13 13:10	VHL	P3J0060
Styrene	BRL	ug/L	10	0.94	20	8260B	10/2/13 13:10	VHL	P3J0060
tert-Butylbenzene	BRL	ug/L	10	1.6	20	8260B	10/2/13 13:10	VHL	P3J0060
Tetrachloroethylene	**1500**	**ug/L**	**10**	**1.4**	**20**	**8260B**	**10/2/13 13:10**	**VHL**	**P3J0060**
Toluene	BRL	ug/L	10	0.85	20	8260B	10/2/13 13:10	VHL	P3J0060
trans-1,2-Dichloroethylene	BRL	ug/L	10	2.3	20	8260B	10/2/13 13:10	VHL	P3J0060
trans-1,3-Dichloropropylene	BRL	ug/L	10	0.87	20	8260B	10/2/13 13:10	VHL	P3J0060
Trichloroethylene	**70**	**ug/L**	**10**	**1.1**	**20**	**8260B**	**10/2/13 13:10**	**VHL**	**P3J0060**
Trichlorofluoromethane	BRL	ug/L	10	1.8	20	8260B	10/2/13 13:10	VHL	P3J0060
Vinyl acetate	BRL	ug/L	40	2.0	20	8260B	10/2/13 13:10	VHL	P3J0060
Vinyl chloride	BRL	ug/L	10	3.1	20	8260B	10/2/13 13:10	VHL	P3J0060
Xylenes, total	BRL	ug/L	60	2.5	20	8260B	10/2/13 13:10	VHL	P3J0060

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

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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

Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Drum-1
Prism Sample ID: 3090541-06
Prism Work Order: 3090541
Time Collected: 09/27/13 10:20
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**77.1**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/2/13 15:00**	**ANG**	**P3J0055**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0059	0.00036	1	8260B	10/5/13 5:07	MSC	P3J0104
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0059	0.00019	1	8260B	10/5/13 5:07	MSC	P3J0104
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0059	0.00098	1	8260B	10/5/13 5:07	MSC	P3J0104
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0059	0.00050	1	8260B	10/5/13 5:07	MSC	P3J0104
1,1-Dichloroethane	BRL	mg/kg dry	0.0059	0.00050	1	8260B	10/5/13 5:07	MSC	P3J0104
1,1-Dichloroethylene	BRL	mg/kg dry	0.0059	0.00036	1	8260B	10/5/13 5:07	MSC	P3J0104
1,1-Dichloropropylene	BRL	mg/kg dry	0.0059	0.00062	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.012	0.00044	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0059	0.00090	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.012	0.00035	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.012	0.0012	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2-Dibromo-3-chloropropane	BRL	mg/kg dry	0.0059	0.0018	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2-Dibromoethane	BRL	mg/kg dry	0.0059	0.00068	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2-Dichlorobenzene	BRL	mg/kg dry	0.012	0.00027	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2-Dichloroethane	BRL	mg/kg dry	0.0059	0.00096	1	8260B	10/5/13 5:07	MSC	P3J0104
1,2-Dichloropropane	BRL	mg/kg dry	0.0059	0.00038	1	8260B	10/5/13 5:07	MSC	P3J0104
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.012	0.00028	1	8260B	10/5/13 5:07	MSC	P3J0104
1,3-Dichlorobenzene	BRL	mg/kg dry	0.012	0.000082	1	8260B	10/5/13 5:07	MSC	P3J0104
1,3-Dichloropropane	BRL	mg/kg dry	0.0059	0.00064	1	8260B	10/5/13 5:07	MSC	P3J0104
1,4-Dichlorobenzene	BRL	mg/kg dry	0.012	0.00043	1	8260B	10/5/13 5:07	MSC	P3J0104
2,2-Dichloropropane	BRL	mg/kg dry	0.0059	0.00037	1	8260B	10/5/13 5:07	MSC	P3J0104
2-Chloroethyl Vinyl Ether	BRL	mg/kg dry	0.012	0.0033	1	8260B	10/5/13 5:07	MSC	P3J0104
2-Chlorotoluene	BRL	mg/kg dry	0.012	0.00036	1	8260B	10/5/13 5:07	MSC	P3J0104
4-Chlorotoluene	BRL	mg/kg dry	0.012	0.00028	1	8260B	10/5/13 5:07	MSC	P3J0104
4-Isopropyltoluene	BRL	mg/kg dry	0.018	0.00038	1	8260B	10/5/13 5:07	MSC	P3J0104
Acetone	BRL	mg/kg dry	0.024	0.0032	1	8260B	10/5/13 5:07	MSC	P3J0104
Acrolein	BRL	mg/kg dry	0.12	0.0036	1	8260B	10/5/13 5:07	MSC	P3J0104
Acrylonitrile	BRL	mg/kg dry	0.12	0.0029	1	8260B	10/5/13 5:07	MSC	P3J0104
Benzene	BRL	mg/kg dry	0.0036	0.00036	1	8260B	10/5/13 5:07	MSC	P3J0104
Bromobenzene	BRL	mg/kg dry	0.0059	0.00025	1	8260B	10/5/13 5:07	MSC	P3J0104
Bromochloromethane	BRL	mg/kg dry	0.0059	0.00086	1	8260B	10/5/13 5:07	MSC	P3J0104
Bromodichloromethane	BRL	mg/kg dry	0.0059	0.00027	1	8260B	10/5/13 5:07	MSC	P3J0104
Bromoform	BRL	mg/kg dry	0.0059	0.0010	1	8260B	10/5/13 5:07	MSC	P3J0104
Bromomethane	BRL	mg/kg dry	0.012	0.0017	1	8260B	10/5/13 5:07	MSC	P3J0104
Carbon disulfide	BRL	mg/kg dry	0.012	0.00049	1	8260B	10/5/13 5:07	MSC	P3J0104
Carbon Tetrachloride	BRL	mg/kg dry	0.0059	0.00032	1	8260B	10/5/13 5:07	MSC	P3J0104
Chlorobenzene	BRL	mg/kg dry	0.0059	0.00028	1	8260B	10/5/13 5:07	MSC	P3J0104
Chloroethane	BRL	mg/kg dry	0.012	0.0045	1	8260B	10/5/13 5:07	MSC	P3J0104
Chloroform	BRL	mg/kg dry	0.0059	0.00025	1	8260B	10/5/13 5:07	MSC	P3J0104

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Solid

Client Sample ID: IDW-Drum-1
Prism Sample ID: 3090541-06
Prism Work Order: 3090541
Time Collected: 09/27/13 10:20
Time Submitted: 09/27/13 15:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL	mg/kg dry	0.012	0.0030	1	8260B	10/5/13 5:07	MSC	P3J0104
cis-1,2-Dichloroethylene	**0.090**	**mg/kg dry**	**0.0059**	**0.00048**	**1**	**8260B**	**10/5/13 5:07**	**MSC**	**P3J0104**
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0059	0.00029	1	8260B	10/5/13 5:07	MSC	P3J0104
Dibromochloromethane	BRL	mg/kg dry	0.0059	0.00040	1	8260B	10/5/13 5:07	MSC	P3J0104
Dibromomethane	BRL	mg/kg dry	0.0059	0.00040	1	8260B	10/5/13 5:07	MSC	P3J0104
Dichlorodifluoromethane	BRL	mg/kg dry	0.012	0.00064	1	8260B	10/5/13 5:07	MSC	P3J0104
Ethylbenzene	BRL	mg/kg dry	0.0059	0.00038	1	8260B	10/5/13 5:07	MSC	P3J0104
Hexachlorobutadiene	BRL	mg/kg dry	0.018	0.00076	1	8260B	10/5/13 5:07	MSC	P3J0104
Isopropyl Ether	BRL	mg/kg dry	0.0059	0.00025	1	8260B	10/5/13 5:07	MSC	P3J0104
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.012	0.00030	1	8260B	10/5/13 5:07	MSC	P3J0104
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00076	1	8260B	10/5/13 5:07	MSC	P3J0104
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.059	0.0012	1	8260B	10/5/13 5:07	MSC	P3J0104
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.024	0.0021	1	8260B	10/5/13 5:07	MSC	P3J0104
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.012	0.0016	1	8260B	10/5/13 5:07	MSC	P3J0104
Methylene Chloride	BRL	mg/kg dry	0.012	0.00043	1	8260B	10/5/13 5:07	MSC	P3J0104
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0059	0.00046	1	8260B	10/5/13 5:07	MSC	P3J0104
Naphthalene	BRL	mg/kg dry	0.0059	0.00044	1	8260B	10/5/13 5:07	MSC	P3J0104
n-Butylbenzene	BRL	mg/kg dry	0.018	0.00026	1	8260B	10/5/13 5:07	MSC	P3J0104
n-Propylbenzene	BRL	mg/kg dry	0.012	0.00034	1	8260B	10/5/13 5:07	MSC	P3J0104
o-Xylene	BRL	mg/kg dry	0.0059	0.00038	1	8260B	10/5/13 5:07	MSC	P3J0104
sec-Butylbenzene	BRL	mg/kg dry	0.018	0.00024	1	8260B	10/5/13 5:07	MSC	P3J0104
Styrene	BRL	mg/kg dry	0.0059	0.00026	1	8260B	10/5/13 5:07	MSC	P3J0104
tert-Butylbenzene	BRL	mg/kg dry	0.024	0.00031	1	8260B	10/5/13 5:07	MSC	P3J0104
Tetrachloroethylene	**0.0024 J**	**mg/kg dry**	**0.012**	**0.00041**	**1**	**8260B**	**10/5/13 5:07**	**MSC**	**P3J0104**
Toluene	BRL	mg/kg dry	0.0059	0.00035	1	8260B	10/5/13 5:07	MSC	P3J0104
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0059	0.00069	1	8260B	10/5/13 5:07	MSC	P3J0104
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0059	0.00029	1	8260B	10/5/13 5:07	MSC	P3J0104
Trichloroethylene	BRL	mg/kg dry	0.0059	0.00055	1	8260B	10/5/13 5:07	MSC	P3J0104
Trichlorofluoromethane	BRL	mg/kg dry	0.0059	0.00048	1	8260B	10/5/13 5:07	MSC	P3J0104
Vinyl acetate	BRL	mg/kg dry	0.012	0.0017	1	8260B	10/5/13 5:07	MSC	P3J0104
Vinyl chloride	BRL	mg/kg dry	0.012	0.00077	1	8260B	10/5/13 5:07	MSC	P3J0104
Xylenes, total	BRL	mg/kg dry	0.018	0.0011	1	8260B	10/5/13 5:07	MSC	P3J0104

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*110 %*	*70-130*
Dibromofluoromethane	*109 %*	*84-123*
Toluene-d8	*102 %*	*76-129*

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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: IDW-Purge
Prism Sample ID: 3090541-07
Prism Work Order: 3090541
Time Collected: 09/27/13 10:30
Time Submitted: 09/27/13 15:20

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	0.50	0.15	1	8260B	10/2/13 12:45	VHL	P3J0060
1,1,1-Trichloroethane	**0.75**	**ug/L**	**0.50**	**0.063**	**1**	**8260B**	**10/2/13 12:45**	**VHL**	**P3J0060**
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	10/2/13 12:45	VHL	P3J0060
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	10/2/13 12:45	VHL	P3J0060
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	10/2/13 12:45	VHL	P3J0060
1,1-Dichloroethylene	**4.2**	**ug/L**	**0.50**	**0.078**	**1**	**8260B**	**10/2/13 12:45**	**VHL**	**P3J0060**
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	10/2/13 12:45	VHL	P3J0060
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:45	VHL	P3J0060
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	10/2/13 12:45	VHL	P3J0060
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	10/2/13 12:45	VHL	P3J0060
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	10/2/13 12:45	VHL	P3J0060
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	10/2/13 12:45	VHL	P3J0060
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	10/2/13 12:45	VHL	P3J0060
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	10/2/13 12:45	VHL	P3J0060
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	10/2/13 12:45	VHL	P3J0060
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	10/2/13 12:45	VHL	P3J0060
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	10/2/13 12:45	VHL	P3J0060
Acetone	BRL	ug/L	5.0	0.62	1	8260B	10/2/13 12:45	VHL	P3J0060
Acrolein	BRL	ug/L	20	1.1	1	8260B	10/2/13 12:45	VHL	P3J0060
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	10/2/13 12:45	VHL	P3J0060
Benzene	BRL	ug/L	0.50	0.072	1	8260B	10/2/13 12:45	VHL	P3J0060
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	10/2/13 12:45	VHL	P3J0060
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:45	VHL	P3J0060
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	10/2/13 12:45	VHL	P3J0060
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	10/2/13 12:45	VHL	P3J0060
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	10/2/13 12:45	VHL	P3J0060
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	10/2/13 12:45	VHL	P3J0060
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	10/2/13 12:45	VHL	P3J0060
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	10/2/13 12:45	VHL	P3J0060
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:45	VHL	P3J0060
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	10/2/13 12:45	VHL	P3J0060
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	10/2/13 12:45	VHL	P3J0060
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	10/2/13 12:45	VHL	P3J0060
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	10/2/13 12:45	VHL	P3J0060

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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: IDW-Purge
Prism Sample ID: 3090541-07
Prism Work Order: 3090541
Time Collected: 09/27/13 10:30
Time Submitted: 09/27/13 15:20

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	10/2/13 12:45	VHL	P3J0060
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 12:45	VHL	P3J0060
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	10/2/13 12:45	VHL	P3J0060
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	10/2/13 12:45	VHL	P3J0060
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	10/2/13 12:45	VHL	P3J0060
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	10/2/13 12:45	VHL	P3J0060
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	8260B	10/2/13 12:45	VHL	P3J0060
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	10/2/13 12:45	VHL	P3J0060
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	10/2/13 12:45	VHL	P3J0060
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	10/2/13 12:45	VHL	P3J0060
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	10/2/13 12:45	VHL	P3J0060
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	10/2/13 12:45	VHL	P3J0060
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	10/2/13 12:45	VHL	P3J0060
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	10/2/13 12:45	VHL	P3J0060
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	10/2/13 12:45	VHL	P3J0060
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	10/2/13 12:45	VHL	P3J0060
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	10/2/13 12:45	VHL	P3J0060
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	10/2/13 12:45	VHL	P3J0060
Styrene	BRL	ug/L	0.50	0.047	1	8260B	10/2/13 12:45	VHL	P3J0060
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	10/2/13 12:45	VHL	P3J0060
Tetrachloroethylene	**60**	**ug/L**	**0.50**	**0.069**	**1**	**8260B**	**10/2/13 12:45**	**VHL**	**P3J0060**
Toluene	BRL	ug/L	0.50	0.042	1	8260B	10/2/13 12:45	VHL	P3J0060
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	10/2/13 12:45	VHL	P3J0060
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	10/2/13 12:45	VHL	P3J0060
Trichloroethylene	**2.9**	**ug/L**	**0.50**	**0.054**	**1**	**8260B**	**10/2/13 12:45**	**VHL**	**P3J0060**
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	10/2/13 12:45	VHL	P3J0060
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	10/2/13 12:45	VHL	P3J0060
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	10/2/13 12:45	VHL	P3J0060
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	10/2/13 12:45	VHL	P3J0060

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*105 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

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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

Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 3090541-08
Prism Work Order: 3090541
Time Collected: 09/27/13 00:00
Time Submitted: 09/27/13 15:20

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	0.50	0.15	1	8260B	10/2/13 13:36	VHL	P3J0060
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	10/2/13 13:36	VHL	P3J0060
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	10/2/13 13:36	VHL	P3J0060
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	10/2/13 13:36	VHL	P3J0060
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	10/2/13 13:36	VHL	P3J0060
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	10/2/13 13:36	VHL	P3J0060
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	10/2/13 13:36	VHL	P3J0060
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 13:36	VHL	P3J0060
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	8260B	10/2/13 13:36	VHL	P3J0060
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	8260B	10/2/13 13:36	VHL	P3J0060
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	10/2/13 13:36	VHL	P3J0060
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	10/2/13 13:36	VHL	P3J0060
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	10/2/13 13:36	VHL	P3J0060
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	10/2/13 13:36	VHL	P3J0060
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	8260B	10/2/13 13:36	VHL	P3J0060
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	8260B	10/2/13 13:36	VHL	P3J0060
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	8260B	10/2/13 13:36	VHL	P3J0060
Acetone	BRL	ug/L	5.0	0.62	1	8260B	10/2/13 13:36	VHL	P3J0060
Acrolein	BRL	ug/L	20	1.1	1	8260B	10/2/13 13:36	VHL	P3J0060
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	10/2/13 13:36	VHL	P3J0060
Benzene	BRL	ug/L	0.50	0.072	1	8260B	10/2/13 13:36	VHL	P3J0060
Bromobenzene	BRL	ug/L	0.50	0.064	1	8260B	10/2/13 13:36	VHL	P3J0060
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 13:36	VHL	P3J0060
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	10/2/13 13:36	VHL	P3J0060
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	10/2/13 13:36	VHL	P3J0060
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	10/2/13 13:36	VHL	P3J0060
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	10/2/13 13:36	VHL	P3J0060
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	10/2/13 13:36	VHL	P3J0060
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	10/2/13 13:36	VHL	P3J0060
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 13:36	VHL	P3J0060
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	10/2/13 13:36	VHL	P3J0060
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	10/2/13 13:36	VHL	P3J0060
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	10/2/13 13:36	VHL	P3J0060
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	10/2/13 13:36	VHL	P3J0060

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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: Trip Blank
Prism Sample ID: 3090541-08
Prism Work Order: 3090541
Time Collected: 09/27/13 00:00
Time Submitted: 09/27/13 15:20

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	10/2/13 13:36	VHL	P3J0060
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	10/2/13 13:36	VHL	P3J0060
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	10/2/13 13:36	VHL	P3J0060
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	10/2/13 13:36	VHL	P3J0060
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	10/2/13 13:36	VHL	P3J0060
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	8260B	10/2/13 13:36	VHL	P3J0060
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	8260B	10/2/13 13:36	VHL	P3J0060
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	10/2/13 13:36	VHL	P3J0060
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	10/2/13 13:36	VHL	P3J0060
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	10/2/13 13:36	VHL	P3J0060
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	10/2/13 13:36	VHL	P3J0060
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	10/2/13 13:36	VHL	P3J0060
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	8260B	10/2/13 13:36	VHL	P3J0060
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	10/2/13 13:36	VHL	P3J0060
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	10/2/13 13:36	VHL	P3J0060
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	8260B	10/2/13 13:36	VHL	P3J0060
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	10/2/13 13:36	VHL	P3J0060
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	8260B	10/2/13 13:36	VHL	P3J0060
Styrene	BRL	ug/L	0.50	0.047	1	8260B	10/2/13 13:36	VHL	P3J0060
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	8260B	10/2/13 13:36	VHL	P3J0060
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	10/2/13 13:36	VHL	P3J0060
Toluene	BRL	ug/L	0.50	0.042	1	8260B	10/2/13 13:36	VHL	P3J0060
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	10/2/13 13:36	VHL	P3J0060
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	10/2/13 13:36	VHL	P3J0060
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	10/2/13 13:36	VHL	P3J0060
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	10/2/13 13:36	VHL	P3J0060
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	10/2/13 13:36	VHL	P3J0060
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	10/2/13 13:36	VHL	P3J0060
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	10/2/13 13:36	VHL	P3J0060

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*106 %*	*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: 3090541
Time Submitted: 9/27/2013 3:20:00PM

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 P3J0060 - 5030B										
Blank (P3J0060-BLK1)				Prepared & Analyzed: 10/02/13						
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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1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3090541
Time Submitted: 9/27/2013 3:20:00PM

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 P3J0060 - 5030B										
Blank (P3J0060-BLK1)				Prepared & Analyzed: 10/02/13						
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							
Xylenes, total	BRL	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*50.2*		*ug/L*	*50.00*		*100*	*80-124*			
Surrogate: Dibromofluoromethane	*52.6*		*ug/L*	*50.00*		*105*	*75-129*			
Surrogate: Toluene-d8	*50.6*		*ug/L*	*50.00*		*101*	*77-123*			

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1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3090541
Time Submitted: 9/27/2013 3:20:00PM

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 P3J0060 - 5030B										
LCS (P3J0060-BS1)				Prepared & Analyzed: 10/02/13						
1,1-Dichloroethylene	20.9	0.50	ug/L	20.00		104	70-154			
Benzene	20.4	0.50	ug/L	20.00		102	77-128			
Chlorobenzene	19.9	0.50	ug/L	20.00		100	78-119			
Toluene	20.4	0.50	ug/L	20.00		102	76-131			
Trichloroethylene	20.2	0.50	ug/L	20.00		101	77-133			
Xylenes, total	62.3	3.0	ug/L	60.00		104	77-133			
Surrogate: 4-Bromofluorobenzene	*48.5*		*ug/L*	*50.00*		*97*	*80-124*			
Surrogate: Dibromofluoromethane	*52.0*		*ug/L*	*50.00*		*104*	*75-129*			
Surrogate: Toluene-d8	*50.4*		*ug/L*	*50.00*		*101*	*77-123*			
LCS Dup (P3J0060-BSD1)				Prepared & Analyzed: 10/02/13						
1,1-Dichloroethylene	20.3	0.50	ug/L	20.00		102	70-154	3	20	
Benzene	20.1	0.50	ug/L	20.00		101	77-128	1	20	
Chlorobenzene	19.7	0.50	ug/L	20.00		99	78-119	1	20	
Toluene	19.7	0.50	ug/L	20.00		98	76-131	3	20	
Trichloroethylene	20.2	0.50	ug/L	20.00		101	77-133	0.5	20	
Xylenes, total	61.6	3.0	ug/L	60.00		103	77-133	1	20	
Surrogate: 4-Bromofluorobenzene	*48.1*		*ug/L*	*50.00*		*96*	*80-124*			
Surrogate: Dibromofluoromethane	*51.3*		*ug/L*	*50.00*		*103*	*75-129*			
Surrogate: Toluene-d8	*50.3*		*ug/L*	*50.00*		*101*	*77-123*			
Batch P3J0104 - 5035										
Blank (P3J0104-BLK1)				Prepared: 10/04/13 Analyzed: 10/05/13						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
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	0.010	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.010	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.010	mg/kg wet							
1,2-Dibromo-3-chloropropane	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.010	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	0.010	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.010	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.010	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chloroethyl Vinyl Ether	BRL	0.010	mg/kg wet							
2-Chlorotoluene	BRL	0.010	mg/kg wet							

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3090541
Time Submitted: 9/27/2013 3:20:00PM

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 P3J0104 - 5035										
Blank (P3J0104-BLK1)				Prepared: 10/04/13 Analyzed: 10/05/13						
4-Chlorotoluene	BRL	0.010	mg/kg wet							
4-Isopropyltoluene	BRL	0.015	mg/kg wet							
Acetone	BRL	0.020	mg/kg wet							
Acrolein	BRL	0.10	mg/kg wet							
Acrylonitrile	BRL	0.10	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 disulfide	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	0.010	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							
Dibromomethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.010	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Hexachlorobutadiene	BRL	0.015	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.010	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	0.020	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.010	mg/kg wet							
Methylene Chloride	BRL	0.010	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.0050	mg/kg wet							
Naphthalene	BRL	0.0050	mg/kg wet							
n-Butylbenzene	BRL	0.015	mg/kg wet							
n-Propylbenzene	BRL	0.010	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.015	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.020	mg/kg wet							
Tetrachloroethylene	BRL	0.010	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	0.010	mg/kg wet							

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3090541
Time Submitted: 9/27/2013 3:20:00PM

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 P3J0104 - 5035										
Blank (P3J0104-BLK1)				Prepared: 10/04/13 Analyzed: 10/05/13						
Vinyl chloride	BRL	0.010	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0538*		*mg/kg wet*	*0.05000*		*108*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0490*		*mg/kg wet*	*0.05000*		*98*	*84-123*			
Surrogate: Toluene-d8	*0.0517*		*mg/kg wet*	*0.05000*		*103*	*76-129*			
LCS (P3J0104-BS1)				Prepared & Analyzed: 10/04/13						
1,1-Dichloroethylene	0.0404	0.0050	mg/kg wet	0.05000		81	67-149			
Benzene	0.0392	0.0030	mg/kg wet	0.05000		78	74-127			
Chlorobenzene	0.0444	0.0050	mg/kg wet	0.05000		89	74-118			
Toluene	0.0412	0.0050	mg/kg wet	0.05000		82	71-129			
Trichloroethylene	0.0412	0.0050	mg/kg wet	0.05000		82	75-133			
Surrogate: 4-Bromofluorobenzene	*0.0522*		*mg/kg wet*	*0.05000*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0487*		*mg/kg wet*	*0.05000*		*97*	*84-123*			
Surrogate: Toluene-d8	*0.0483*		*mg/kg wet*	*0.05000*		*97*	*76-129*			
LCS Dup (P3J0104-BSD1)				Prepared: 10/04/13 Analyzed: 10/05/13						
1,1-Dichloroethylene	0.0517	0.0050	mg/kg wet	0.05000		103	67-149	25	20	D
Benzene	0.0442	0.0030	mg/kg wet	0.05000		88	74-127	12	20	
Chlorobenzene	0.0495	0.0050	mg/kg wet	0.05000		99	74-118	11	20	
Toluene	0.0470	0.0050	mg/kg wet	0.05000		94	71-129	13	20	
Trichloroethylene	0.0482	0.0050	mg/kg wet	0.05000		96	75-133	16	20	
Surrogate: 4-Bromofluorobenzene	*0.0504*		*mg/kg wet*	*0.05000*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0465*		*mg/kg wet*	*0.05000*		*93*	*84-123*			
Surrogate: Toluene-d8	*0.0489*		*mg/kg wet*	*0.05000*		*98*	*76-129*			
Batch P3J0169 - 5030B Soil										
Blank (P3J0169-BLK1)				Prepared & Analyzed: 10/08/13						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
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	0.010	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.010	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.010	mg/kg wet							
1,2-Dibromo-3-chloropropane	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.010	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	0.010	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.010	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3090541
Time Submitted: 9/27/2013 3:20:00PM

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 P3J0169 - 5030B Soil										
Blank (P3J0169-BLK1)				Prepared & Analyzed: 10/08/13						
1,4-Dichlorobenzene	BRL	0.010	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chloroethyl Vinyl Ether	BRL	0.010	mg/kg wet							
2-Chlorotoluene	BRL	0.010	mg/kg wet							
4-Chlorotoluene	BRL	0.010	mg/kg wet							
4-Isopropyltoluene	BRL	0.015	mg/kg wet							
Acetone	0.00518	0.020	mg/kg wet							J
Acrolein	BRL	0.10	mg/kg wet							
Acrylonitrile	BRL	0.10	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 disulfide	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	0.010	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							
Dibromomethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.010	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Hexachlorobutadiene	BRL	0.015	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.010	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	0.020	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.010	mg/kg wet							
Methylene Chloride	BRL	0.010	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.0050	mg/kg wet							
Naphthalene	BRL	0.0050	mg/kg wet							
n-Butylbenzene	BRL	0.015	mg/kg wet							
n-Propylbenzene	BRL	0.010	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.015	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.020	mg/kg wet							
Tetrachloroethylene	BRL	0.010	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3090541
Time Submitted: 9/27/2013 3:20:00PM

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 P3J0169 - 5030B Soil										
Blank (P3J0169-BLK1)				Prepared & Analyzed: 10/08/13						
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	0.010	mg/kg wet							
Vinyl chloride	BRL	0.010	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0527*		*mg/kg wet*	*0.05000*		*105*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0526*		*mg/kg wet*	*0.05000*		*105*	*84-123*			
Surrogate: Toluene-d8	*0.0508*		*mg/kg wet*	*0.05000*		*102*	*76-129*			
LCS (P3J0169-BS1)				Prepared & Analyzed: 10/08/13						
1,1-Dichloroethylene	0.0620	0.0050	mg/kg wet	0.05000		124	67-149			
Benzene	0.0462	0.0030	mg/kg wet	0.05000		92	74-127			
Chlorobenzene	0.0508	0.0050	mg/kg wet	0.05000		102	74-118			
Toluene	0.0487	0.0050	mg/kg wet	0.05000		97	71-129			
Trichloroethylene	0.0505	0.0050	mg/kg wet	0.05000		101	75-133			
Surrogate: 4-Bromofluorobenzene	*0.0509*		*mg/kg wet*	*0.05000*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0466*		*mg/kg wet*	*0.05000*		*93*	*84-123*			
Surrogate: Toluene-d8	*0.0490*		*mg/kg wet*	*0.05000*		*98*	*76-129*			
LCS Dup (P3J0169-BSD1)				Prepared & Analyzed: 10/08/13						
1,1-Dichloroethylene	0.0616	0.0050	mg/kg wet	0.05000		123	67-149	0.7	20	
Benzene	0.0461	0.0030	mg/kg wet	0.05000		92	74-127	0.2	20	
Chlorobenzene	0.0517	0.0050	mg/kg wet	0.05000		103	74-118	2	20	
Toluene	0.0483	0.0050	mg/kg wet	0.05000		97	71-129	0.8	20	
Trichloroethylene	0.0500	0.0050	mg/kg wet	0.05000		100	75-133	1	20	
Surrogate: 4-Bromofluorobenzene	*0.0522*		*mg/kg wet*	*0.05000*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0460*		*mg/kg wet*	*0.05000*		*92*	*84-123*			
Surrogate: Toluene-d8	*0.0511*		*mg/kg wet*	*0.05000*		*102*	*76-129*			

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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

Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3090541
Time Submitted: 9/27/2013 3:20:00PM

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 P3J0142 - 5035										
Blank (P3J0142-BLK1)				Prepared & Analyzed: 10/07/13						
Tetrachloroethylene	BRL	0.25	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*3.35*		*mg/kg wet*	*3.500*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*3.26*		*mg/kg wet*	*3.500*		*93*	*70-130*			
Surrogate: Toluene-d8	*3.25*		*mg/kg wet*	*3.500*		*93*	*70-130*			
LCS (P3J0142-BS1)				Prepared & Analyzed: 10/07/13						
Tetrachloroethylene	1.02	0.25	mg/kg wet	1.000		102	71-124			
Surrogate: 4-Bromofluorobenzene	*3.47*		*mg/kg wet*	*3.500*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*3.18*		*mg/kg wet*	*3.500*		*91*	*70-130*			
Surrogate: Toluene-d8	*3.38*		*mg/kg wet*	*3.500*		*96*	*70-130*			
LCS Dup (P3J0142-BSD1)				Prepared & Analyzed: 10/07/13						
Tetrachloroethylene	0.842	0.25	mg/kg wet	1.000		84	71-124	19	20	
Surrogate: 4-Bromofluorobenzene	*3.47*		*mg/kg wet*	*3.500*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*3.10*		*mg/kg wet*	*3.500*		*89*	*70-130*			
Surrogate: Toluene-d8	*3.18*		*mg/kg wet*	*3.500*		*91*	*70-130*			

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Solutions-IES, Inc.
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: Eaton Selma

Prism Work Order: 3090541
Time Submitted: 9/27/2013 3:20:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3J0055 - NO PREP										
Blank (P3J0055-BLK1)				Prepared & Analyzed: 10/02/13						
% Solids	99.9	0.100	% by Weight							
Duplicate (P3J0055-DUP1)		**Source: 3090541-01**		Prepared & Analyzed: 10/02/13						
% Solids	79.2	0.100	% by Weight		79.9			0.9	20	

Sample Extraction Data

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
3090541-04	P3J0060	10 mL	10 mL	10/02/13 8:19
3090541-05	P3J0060	10 mL	10 mL	10/02/13 8:19
3090541-07	P3J0060	10 mL	10 mL	10/02/13 8:19
3090541-08	P3J0060	10 mL	10 mL	10/02/13 8:19

Prep Method: 5030B Soil

Lab Number	Batch	Initial	Final	Date/Time
3090541-02	P3J0169	5.84 g	5 mL	10/08/13 17:05

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
3090541-01	P3J0104	7.76 g	5 mL	10/04/13 16:05
3090541-02	P3J0104	6.42 g	5 mL	10/04/13 16:05
3090541-03	P3J0104	5.83 g	5 mL	10/04/13 16:05
3090541-06	P3J0104	5.47 g	5 mL	10/04/13 16:05

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
3090541-01	P3J0142	6.25 g	5 mL	10/07/13 11:26
3090541-01	P3J0142	6.25 g	5 mL	10/07/13 11:26
3090541-03	P3J0142	7.27 g	5 mL	10/07/13 11:26

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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

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions
449 Springbrook Road • Charlotte, NC 28217
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: 919 873 1000 Fax (Yes) (No): _____
Email Address: jovermyer@solutions-ies.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 2013.0014. EATN
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 14:00 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?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR-9 Observed: 4.4 °C / Corr: 4.6 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ 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 8260	TLP VAS SVOC					REMARKS	PRISM LAB ID NO.
1DW-soil-904	9/27/2013	930	soil					X	X						Ø1
1DW-soil-910		945							X						Ø2
1DW-soil-907		900							X						Ø3
1DW-Decon-1		1000	water												Ø4
1DW-Develop-1		1015													Ø5
1DW-Drum-1		1020	soil						X						Ø6
1DW-purge		1030	water												Ø7
Trip Blank	—	—	DI												Ø8

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]	9/27/13	1150
[signature]	[signature]	9-27-13	1250
[signature] 9.27.13 1520	[signature]	9.27.13	1520

Received For Prism Laboratories By: [signature]

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. 3490541

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
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

APPENDIX B

IDW WASTE MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NCD981255806
2. Page 1 of: 1
3. Emergency Response Phone: 919-233-7060
4. Manifest Tracking Number: 002795617 FLE

5. Generator's Name and Mailing Address: Eaton Corporation
1100 East Preston Street
Selma, NC 27576
Generator's Phone: 919-876-1060

Generator's Site Address (if different than mailing address): Same

6. Transporter 1 Company Name: STAT, Inc.
U.S. EPA ID Number: NCD980799142

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Clean Harbors of Baltimore, Inc.
1910 Russell Street
Baltimore, MD 21230 (410) 244-8200
Facility's Phone:
U.S. EPA ID Number: MDD980551189

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA 3082, Hazardous waste, Liquid, NOS, (Tetrachloroethylene) 9, PG III	1	TT	2,000	GAL	D039		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
CH734672 ERG#171
DC9020145 — 24HRS UAG
EPA H 071327

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Jonathan Kennedy for Eaton
Signature:
Month: 1 Day: 20 Year: 14

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mike Angel
Signature:
Month: 01 Day: 20 Year: 14
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H070 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name:
Signature:
Month: 01 Day: 21 Year: 14

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

APPENDIX C

DRAINAGE DITCH WASTE MANIFEST AND CERTIFICATE OF DISPOSAL

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 79300

GENERATOR INFORMATION

Generator: Eaton Corporation

Phone: 919-873-1060

Site Address: 1100 East Preston Street

City/State: Selma, NC 27576

Contact: Jody Overmyer

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs):

Material: Water

Empty Weight (lbs):

Contaminant: Vegetable Oil

Net Weight (lbs):

Quantity 1,100 Tons Drums Pails Sacs Yards Other: Gallons

TRANSPORTER INFORMATION

Transporter: Evo Corporation

Phone: 336-725-5844

Truck #:

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Daniel Patrick

Date: 01-28-2014

FACILITY INFORMATION

Evo Project #: 091327

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Tony Disher

Date: 01-28-2014

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 1,100 gallons of non-hazardous contaminated sludge received on 01-28-2014 from:

Generator: Eaton Corporation

Originating at: 1100 East Preston Street
Selma, NC

EC Waste ID #: 091327

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

Signature

Tony Disher
President
Evo Corporation

APPENDIX D

INJECTION EVENT RECORD

INJECTION EVENT RECORD

North Carolina Department of Environment and Natural Resources – Division of Water Quality
Permit Number WI0500657

1. **Permit Information**

Eaton Corporation
Permittee

Former Selma Facility
Facility Name

1100 East Preston Street, Selma, NC 27576
Facility Address

2. **Injection Contractor Information**

Solutions-IES, Inc.
Injection Contractor / Company Name

Street Address 1101 Nowell Road

Raleigh	NC	27607
City	State	Zip Code

(919) 873-1060
Area code – Phone number

3. **Well Information**

Number of wells used for injection 60

Well names IW-17A/B, IW-19A/B - IW-24A/B
IW-34A/B - IW-40A/B, IW-45A/B - IW-60A/B

Were any new wells installed during this injection event?
☐ Yes ☒ No

If yes, please provide the following information:

Number of Monitoring Wells _____

Number of Injection Wells _____

Type of Well Installed (Check applicable type):
☐ Bored ☐ Drilled ☐ Direct-Push
☐ Hand-Augured ☐ Other (specify) _____

Please include two copies of form GW-1b for each well installed.

Were any wells abandoned during this injection event?
☐ Yes ☒ No

If yes, please provide the following information:

Number of Monitoring Wells _____

Number of Injection Wells _____

Please include two copies of the GW-30 for each well abandoned.

4. **Injectant Information**

CoBupH-Mg/EOS XR
Injectant Type

Concentration 5:1 (Potable Water:Product)

If the injectant is diluted please indicate the source dilution fluid. Hydrant along East Preston Street

Total Volume Injected 188,855 gallons

Volume Injected per well 3,628gal A 3,177gal B

5. **Injection History**

Injection date(s) 11/20/14 - 2/14/14

Injection number (e.g. 3 of 5) 2 of 2 (for substrate)

Is this the last injection at this site?
☐ Yes ☒ No

I DO HEREBY CERTIFY THAT ALL THE INFORMATION ON THIS FORM IS CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT THE INJECTION WAS PERFORMED WITHIN THE STANDARDS LAID OUT IN THE PERMIT.

SIGNATURE OF INJECTION CONTRACTOR 2/27/14 DATE

Stewart Farling
PRINT NAME OF PERSON PERFORMING THE INJECTION

Submit the original of this form to the Division of Water Quality within 30 days of injection.
Attn: UIC Program, 1636 Mail Service Center, Raleigh, NC 27699-1636, Phone No. 919-733-3221

Form UIC-IER
Rev. 07/09

APPENDIX E

INJECTION MONITORING FORMS

Solutions
Industrial & Environmental Services

CB 6233
CB chase 6293
EOS 7141 chase 9388

Injection Monitoring Form

Injection Well ID#: 17A

Date: 1/27/14

Project Name: Eaton Selma GW RAP Implementation

Weather: ___

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 6215

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1322	—	—	6215	start CB +18
	1325	—	—	6233	End CB
	1327	—	—	6233	Start CB chase
	1333	5	4.6	6267	
	1340	—		6233	end CB chase
1/30	1207	—	—	6293	Start eos
	1226	4	1	6313.5	
	1250	4	2	6366.5	
	1338	4.5	1.6	6450.5	
	1447	5	1.6	6557	
	1633	—	—	6720.7	end eos for day
1/31	1015	—	—	6720.7	restarted eos
	1045	5	2	6784	
	1131	5	2	6895	
	1251	6	2	7090.9	
	1311	—	—	7141	eos complete
	1332	—	—	~~7151~~ 7141	start eos / adding 10 gallons
	1336	—	—	7151	eos complete
	1421	—	—	7151	Start Chase
	1443	4	1	7173	
	1530	—	—	7300	pause chase
2/3	941	—	—	7300	Start chase 2/3

150

Solutions
Industrial & Environmental Services

Injection Monitoring Form

end chase: 9388

Injection Well ID#: 17A

Date: 2/3/14

Project Name: Eaton Selma GW RAP Implementation

Weather: rainy 50°

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: ___

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1017	6	3.8	7400	
1151	5	3	7663	9.5 hrs
1230	5	3	7810	
1344	5	3	8025	
1500	5	2.2	8383	reduced flow b/c break thru in nearby wells
1540	—	—	8420	end chase
				1269 gal chase

Solutions
Industrial & Environmental Services

Page___ of ___

CB 5896.4 chase 5956.4
EOS 6380.4 chase 9063.4

Injection Monitoring Form

Injection Well ID#: 17B

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time:

End Time:

Date: 1/27/14

Weather:

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 5891

End Totalizer Reading:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1324	—	—	5891	start CB
	1325	—	—	5896.4	end CB
	1327	—	—	5896.4	start CB chase
	1333	3	4.6	5928	
	1339	—		5956.4	end CB chase
1/30	1208	—	—	5956.4	start eos
	1228	1	0.6	5970.5	
	1252	1	0.8	5994	
	1343	1	1.6	6058.5	
	~~1449~~ 1449	2	2.8	6266.5	
	1525	—	—	6380.4	end eos
	1422	—	—	6380.4	Start chase
	1444	1	2	6426	
	1530	—	—	6657	pause chase
2/3	943	—	—	6657	start chase 2/3
X	1018	3	4	6830.1	
	1148	3	4	7147	8 hrs
	1230	3	4	7347	
	1341	3	4	7640	
	1502	1	2.8	8095	reduced flow b/c break thru nearby wells
	1533	—	—	8130	end chase
					1750 gal chase

277

Solutions
Industrial & Environmental Services

~~CB 629~~
CB: 6309.5 chase 6369.5
EOS: 7217.5 chase: 9464.5

Injection Monitoring Form

Injection Well ID#: 19A
Date: 1/27/14
Project Name: Eaton Selma GW RAP Implementation
Weather:
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: 6291.5
Start Time:
End Totalizer Reading:
End Time:
Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1305	—	—	6291.5	start CB
	1310	—	—	6309.5	end CB +18
	1315	—	—	6309.5	start chase
	1336	—	—	6369.5	end CB chase +60
1/30	1211	—	—	6369.5	Start EOS
	1221	3	1.2	6412.5	
	1246	3	1.5	6455.5	
	1328	3	2.4	6560	
	1441	3	2.4	6727.5	
	1631	—	—	6992.4	end eos for day
1/31	0953	—	—	6992.4	restart eos
	1033	—	—	7037.3	eos coming in well vault/stopped eos
	1050	—	—	7037.3	restarted eos
	1127	3	1.2	7083	
	1246	1	1	7179	
	1256	—	—	7187.7	end eos 129.8 gal. Short eos coming out of vault
	1417	—	—	7187.7	Start chase 0.5 gal/min
	1439	2	0.5	7200.5	
	1530	—	—	7239	pause chase 52
2/3	937	—	—	7239	start chase 2/3
	1005	5	1.2	7265	
	1134	5	2.5	7428	13.5 hrs

Solutions
Industrial & Environmental Services

Injection Monitoring Form

end chase: 94645

Injection Well ID#: 19A

Date: 2/3/14

Project Name: Eaton Selma GW RAP Implementation

Weather: rainy 50°

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1226	5	2.5	7575	
1305	3	1.4	7640	reduced flow due to breakthru in area
1339	3	1.4	7673	
1405	—	—	7703	stop chase b/c break thru nearby
				516 gal chase

Solutions
Industrial & Environmental Services

Page___ of ___

CB: 17637.4 chase: 17697.4
EOS: 18121.4 chase 20804.4

Injection Monitoring Form

Injection Well ID#: 19B

Date: 1/27/13

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 17632

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1312	—	—	17632	start CB
	1313	—	—	17637.4	end CB +5.4
	1315	—	—	17637.4	start chase
	1330	—	—	17697.4	end CB chase +60
1/30	1211	—	—	17697.4	Start EOS
	1221	8	1.8	17767	
	1248	6	2.5	17842	
	1330	6	2.8	17960	
	1404	9	4.9	18083	
	1411	—	—	18121.4	end EOS
1/31	1418	—	—	18121.4	start chase
	1440	3.5	0.6	18137.3	
	1530	—	—	18171	pause chase 50
2/3	937	—	—	18171	start chase 2/3
	1006	6	3.6	18271	
	1136	11	6	18698	5.8 kg
	1227	11	6	19044	
	1304	6	3	19189	reduced flow due to break-thru in area
	1340	6	2.8	19244	
	1405	—	—	19311	Stop chase due to break thru
					1190 gal chase

Solutions
Industrial & Environmental Services

1320
1/22 - eos leaking through cracks in well pad

Page 1 of ___

-Check fittings, good
-emptied eos/water, still coming in cracks

Injection Monitoring Form

Injection Well ID#: 20 A

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time:

End Time:

Date: 1/21/14

Weather:

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 5365.0

End Totalizer Reading:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1030	—	—	5365.0	start CB
1035	—	—	5383.6	end CB +18.6
~~10~~ 1055	—	—	5383.6	start Chase +60
1111	—	—	5443.6	end chase
~~1127~~	—	—	5444	start eos
1514	5	1.5	5482	
1610	6	0.8	5549	reduced rate due to psi
1631	—	—	~~5556~~ 5578	end of eos for 1/21
~~1640~~	—	—	5578	start eos
1227	7	1.3	5624	
1326	7	1.0	5725	
1417	4	1	5787 ~~5816~~	slowed rate due to eos in well
1455	6	1.8	5845	eos in vault
1542	7	2	5945	
1612	—	—	6052	eos done for 1/22
1032	—	—	6052	start eos
1128	—	—	6176 end ~~for~~ due to	→ eos coming in vault
1145	—	—	6176	add 16 more g
1202	—	—	6192	end eos, 100
1420	—	—	6192	start chas
1450	—	—	6215	end chase du

- removed approx 15 gal b/w 1/22 - 1/23 of eos

eos ~~6142~~ ~~5816~~ 6292
Chase ~~6176~~ ~~6211~~ 6538

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 20 B

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: ___

End Time: ___

Date: 1/21/14

Weather: ___

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 5371.8

End Totalizer Reading: ___

Total Gallons Injected: ___

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/21	1035	—	—	5371.8	start CB
	1037	0	—	5377.2	end CB +5.4
	1055	—	—	5377.2	start chase +60
	1120	—	—	5437.2	end chase
	1445	—	—	5438	start eos
	1512	3.5	1.4	5483	
	1630	—	—	~~5578~~ 5558	end of eos for 1/21
1/22	1141	—	—	5558	start eos
	1227	6	2	5724	
	1329	5	1.8	5820	
	1352	—	—	5862	end eos
1/23	1422	—	—	5862	start chase
	1455	—	—	5891	end chase to prevent eos in vault

eos 5862
chase 5545

Solutions
Industrial & Environmental Services

CB: 64834.2
Chase: 64894.2
eos: 65742.2
Chase: 67957.2

Injection Monitoring Form

Injection Well ID#: 21A

Date: 1/27/14

Project Name: Eaton Selma GW RAP Implementation

Weather: 50° Sunny

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 64785

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1300	—	—	64785	start CB
1309	—	—	6483.2	end CB +49
1317	—	—	6483.2	start CB chase
1320	2	2.4	64846.5	
~~1325~~	~~—~~	~~—~~	~~73515~~	~~—~~
1330	2	2.4	64873	end CB chase
1/30 1200	—	—	64873	Start eos
1218	2	1.2	64991.5	
1243	2	2	65098	
1323	2.5	1.6	65100	
1439	3	~~2.37~~ 2	65252	
1631	—	—	65461	end eos for day
1/31 1008	—	—	65462	re Start eos
1038	1	1	65520.5	
1123	1	1	65554	
1248	1	0.6	65611.5	
1407	—	—	65742.2	eos Complete
1415	—	—	65742.2	Start chase Eos
1434	2	0.6	65755	
1530	—	—	65830	pause chase ~~75~~ 88
2/3 935	—	—	65830	Start chase 2/3
1002	5	1.4	65868	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

end chase: 67957.2

Injection Well ID#: 21 A

Date: 2/3/14

Project Name: Eaton Selma GW RAP Implementation

Weather: cloudy / rain 50°

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: ___

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1126	5	1.8	66031	17.8 hrs
1226	5	1.8	66176	vault full of H2O - rain?
1300	3	1.0	66266	reduced flow due to break-thru
1334	4	1.2	66292	
1406	—	—	66310	stop chase due to break thru
				568 gal chase

Solutions
Industrial & Environmental Services

CB: 8488
Chase: 8493.4
eos: 8977.4
Chase: 11660.4

Injection Monitoring Form

Injection Well ID#: 21 B
Date: 1/27/14
Project Name: Eaton Selma GW RAP Implementation
Weather: 50° Sunny
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: 8488
Start Time:
End Totalizer Reading:
End Time:
Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
~~1308~~ 1310	—	—	8488	start CB
1313	—	—	8493.4	end CB +5.4
1317	—	—	8493.4	start CB chase
1321	5	3.2	8512.5	
1331	5	3.2	8544	
1334	—	—	8555.5	end CB chase
1/30 1200	—	—	8555.5	Start eos
1219	4	2	~~8619~~ 8620	
1244	4	1.4	8657	
1326	5	1.6	8736	
1428	—	—	8977.4	end eos
1/31 1416	—	—	8977.4	Start Chase (105)
1435	3	1.2	9001	
1530	—	—	9121	pause chase ~~120~~ 143.6
2/3 935	—	—	9121	start chase 2/3
1003	7	3.2	9203	
1130	8	5.5	9604	6.2 hrs
1225	8	5.5	9918	VAULT full of H_2O
1300	4	3.0	10103	reduced flow b/c to breakthru incom
1336	5	3	10181	
1406	—	—	10240	stop due to breakthru nearby
				1263 gal chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 22A

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: ___

End Time: ___

Date: 1/21/14

Weather: ___

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 5691

End Totalizer Reading: ___

Total Gallons Injected: ___

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/21	1035	—	—	5691	start CB
	1045	—	—	5742	end CB +51
	1055	—	—	5742	start chase +60
	1110	—	—	5803	end chase
	1452	—	—	5802	start eos
	1523	0	1.8	4 ~~5~~842	
1/22	1628	—	—	5954	end of eos for 1/21
	1143	—	—	5954	start eos
	1235	2	2	6066	
	1334	2	2	6196	
	1415	0	2.2	6275	
	1500	6	5.5	6470	
	1534	—	—	6651	end eos
1/23	1210	—	—	6651	add 33gal from 2014 start
	1220	—	—	6684	end eos
	1415	—	—	6684	start chase
	1542	0	1.2	6760	set chase flow
1/24	950	—	—	7495	stop chase b/c breakthrough

eos ~~6651~~ 6684
Chase ~~6665~~ 6798

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 22 B

Date: 1/21/14

Project Name: Eaton Selma GW RAP Implementation

Weather: ___

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 22320.6

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/21	1040	—	—	22320.8	Start CB
	1043	—	—	22326.4	end CB
	1055	—	—	22326.4	start chase +60
	1112	—	—	22386.5	end chase
	1452	—	—	22387	start eos
	1530	5	0.8	22433	increased to 1.8 gpm + 7psi
1/22	1627	—	—	~~[illegible]~~ 22564	end of eos for 1/21
	1143	—	—	22564	start eos
	1235	8	2.4	22749	slowed to 2 gpm
	1339	7	2.2	22893	
	1355	—	—	22902	end eos
1/23	1416	—	—	22902	start chase
	1542	4	1.5	23022	set chase flow
1/24	950	—	—	24661	stop chase b/c breakthru

eos 22811
Chase 25414

Solutions
Industrial & Environmental Services

Page 1 of ___

CB: ~~6989~~ 6983.2
Chase: ~~6983.2~~ 7043.2
EOS: ~~7043.2~~ 7891.2
Chase: 10106.2

Injection Monitoring Form

Injection Well ID#: 23A
Date: 1/27/14
Project Name: Eaton Selma GW RAP Implementation
Weather: 50° Sunny
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: 6934
Start Time:
End Totalizer Reading:
End Time:
Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1350	—	—	6934	start CB
1355	2	6	6952	+49
1403	—	—	6983.2	end CB
1415	—	—	6983.2	Start to Chase
1418	1	3.6	6991.5	
1423	3	6	7012.5	
1429	—	—	7044	end CB Chase
1/30 1245	—	2	7014	start EOS
1307	4	2	7081	
1337	4	2	7138	
1410	3	2.4	7215	
1445	4	3.75	7312	
1554	4	4.6	7630	
630	—	—	7726	pause EOS
1/31 0949	—	—	7726	restart EOS
1040	2	4.8	7853	
1055	—	—	7891.2	complete EOS
~~1105~~ 1338	—	—	7891.2	start chase
~~1338~~ start 1351	5	4.0	7959	
1457	5	3.8	8269	
1530			8432	pause chase
2/3 947	—	—	8432	start chase

+49

541

Solutions
Industrial & Environmental Services

Injection Monitoring Form

end chase: 10106.2

Injection Well ID#: 234

Date: 2/3/14

Project Name: Eaton Selma GW RAP Implementation

Weather: cloudy 55°

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: ___

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
954	2	3	8458	
1118	5	3.6	8747	6.5 hrs
1222	5	3.6	8976	EOS in vault - not rising
1316	5	3.6	9201	
1457	6	3.2	9585	
1543	—	—	9640	end chase
				1749 gal chase

13 PSI

Solutions
Industrial & Environmental Services

Start 8709
CB 8709.4
Chase 8769.4
EOS 9193.4
Chase 11876.4

Page 1 of ___

Injection Monitoring Form

Injection Well ID#: 23B

Date: 1/27/14

Project Name: Eaton Selma GW RAP Implementation

Weather: 50° Sunny

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1402 ~~1300 1401~~ PM 1/27	—	—		Start CB
1404 ~~1300~~	—	—	8709.8	End CB +5.4
1416	—	—	8709.8	Start CB Chase
1419	6	5.2	8723	
1424	6	5.6	8750	
1428	—	—	8769.4	End CB Chase
1300 1243	—	2	8769.4	Start EOS
1307	5	2	8810	
1338	5	2	8871	
1411	5	2.4	8950	
1445	7	3.75	9040	
1530	—	—	9193.4	EOS Complete
~~1430~~	—	— SBF	1/30/14	
1/31 ~~1401~~ SBF 1338	—	—	9193.4	Start chase
1351	7	4.2	9257	
1455	6	3.8	9496	
1530	—	—	9627	pause chase 434
2/3 946	—	—	9627	start chase 2/3
955	6	3.6	9665	
1120	8	4	9993	7.8 hrs
1223	8	4	10250	EOS in vault, not rising
1320	8	~~4.8~~ 4	10512	
1459	7	3.6	10940	
1545	—	—	11000	end chase (1807 psi close)

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 24 A

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1135

End Time: _____

Date: 1/21/14

Weather: _____

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 23648.5

End Totalizer Reading: _____

Total Gallons Injected: _____

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/21	1135			23648.5	start CB
	1144			23699.5	end CB
	1155			23699.5	start chase
	1203			23759.5	end chase
	1500	—	—	23760	start eos
	1532	0	1.9	23795	
1/22	1624	—	—	23915	end eos for 1/21
	1205	—	—	23915	start eos
	1238	0	1.6	23964	
	1347	0	1.8	24094	
	1423	0	2.4	24182	
	1503	2	6	24327	
	1537	0	3	24488	
	1610	—	—	24582	end of eos for 1/22
1/23	1052	—	—	24582	start eos + 20
	1055	0	2.6	24594	
	1104	—	—	24608	end eos
	1212	—	—	24608	add 33 gal from 2014 start
	1225	—	—	24641	end eos
	1420	—	—	24641	start chase
	1545	0	1.2	24732	set chase flow.
1/24	1500	—	—	25426	stop chase b/c break flow

eos ~~24608~~ 24641
Chase ~~26432~~ 26855

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 24B

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1634

End Time:

Date: 1/20/14

Weather:

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 5967.3

End Totalizer Reading:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/21	1634	5		5967.3	start CB pressure read after start
	1636			5972.7	end CB
	1650			5981.5	end chase
	1500	—	—	5982	Start eos
	1534	9	1.3	~~6044~~ 6019	
	1629	—	—	6134	end of eos for 1/21
1/22	1220	—	—	45 *	start eos frozen @ 1155
	1240	8	2	85	++
	1349	7	1.2	242	
	1426	—	—	356	end eos
1/23	1419	—	—	356	start chase
	1547	6	1.5	497	set chase flow
1/24	1000	—	—	2050	stop chase b/c break flow

eos 356
Chase 3039

Solutions
Industrial & Environmental Services

Page___ of ___

CB: 24699 chase 24759
EOS: 25607 chase 27854

Injection Monitoring Form

Injection Well ID#: 34A

Date: 1/27/14

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 24681

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1306	—	—	24681	start CB
1311	—	—	24699	end CB +18
1315	—	—	24699	start chase
1351	—	—	24759	end CB chase +60
1/30 1204	—	—	24759	Start eos
1224	6	1.2		
1254	4	1.2	~~0 360~~ 24838.5	
—	~~2~~	—	~~70~~	—
1333	7	2.8	24950	
1442	7	1.6	25062.5	
1508	—	—	—	eos coming out of well full cut flow
1523	—	—	—	restart eos
1632	—	—	25142	end eos for day
1/31 0952	—	—	25142	restart eos
1043	4	1.6	25219.5	
1129	5	1.6	25302.5	
1249	5	2	25451	
1412	—	—	25617	eos complete/add 10 extra gallons on eos
1420	—	—	25617	Start chase
1441	5.5	2.2	25665	
1530	—	—	25762	pause chase
939	—	—	25762	start chase 2/3

145

Solutions
Industrial & Environmental Services

Injection Monitoring Form

end chase: 27854

Injection Well ID#: 34A

Date: 2/3/14

Project Name: Eaton Selma GW RAP Implementation

Weather: 55° cloudy - rainy

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: ___

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1013	6	1.2	25797	
1139	7	0.8	25928	40 hrs
1226	7	0.8	26014	
1302	6	0.6	26074	reduced flow due to nearby breakthru
1410	—	—	26120	Stop chase b/c breakthru
				503 gal chase

Solutions
Industrial & Environmental Services

Page___ of ___

CB: 7498.1 chase 7558.1
EOS: 7982.1 chase 10,665.1

Injection Monitoring Form

Injection Well ID#: 343

Date: 1/27/14

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 7492.7

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1313	—	—	7492.7	Start CB
1315	—	—	7498.1	end CB +5.4
1315	—	—	7498.1	start chase
1343	—	—	7558.1	end CB chase +60
1/30 1206	—	—	7558.1	Start eos
1225	2	2.4	7603.5	
1255	2	2.1	7667.5	
1336	6	1.6	7730	
1445	10	3.2	7886.5	
1507	—	—	—	eos coming out around well Pad ~~but~~ stopped eos
1523	-	-	—	re start eos
1535	—	—	7982.1	end eos
1/31 1420	—	—	7982.1	Start chase
1442	2	1	8005.7	
1530	—	—	8174	pressure chase
1015	7	2.4	8259	
1144	10	3	8512	12 hrs
1229	10	3	8680	
1304	8	2.2	8806	reduced flow due to nearby break-thru
1410	—	—	8900	stop chase b/c break thru
				918 gal chase

192

Solutions
Industrial & Environmental Services

1/22 1400 eos filling in from vault pad

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Injection Monitoring Form

Injection Well ID#: 35 A

Date: 1/21/14

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 5635

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/21	1030	—	—	5635	start CB
	1045	4 psi	5 gpm	5686	end CB +51
	1056	0	—	5686	start CB chase
	1120	—	—	5746	end CB chase
	1445	—	—	5746	start eos
	1515	5	1.3	5782	
	1613	7	0.8	5840	reduced rate due to psi
1/22	1632	—	—	5848	end of eos for 1/21
	1139	—	—	5848	start eos
	1224	7	1 gpm	5884	
	1222	6	1	5942	H_2O eos in vault
	1410	6	1.5	6000	
	1449	9	3	6057	
	1540	7	2.5	6177	
	1611	—	—	6249	eos done for 1/22
1/23	1030	—	—	6249	start eos
	1118	6	1.8	6306	
	1206	6	2.2	6386	
	1253	5	1.8	6468	Slowed rate due to eos in vault
	1346	7	1.8	6565	
	1405	—	—	6594	end eos
	1418	—	—	6594	start chase

eos 6594
chase 6608

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 35A

Date: 1/23/14

Project Name: Eaton Selma GW RAP Implementation

Weather: ___

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: ___

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1535	4	.75 gpm	6631	Set chase slow to prevent pressure build
1/24 945	—	—	7284	Stopped chase due to break through

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 35B

Date: 1/21/14

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 4938.0

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/21	1040	—	—	4932.5	start CB
	1045	0	2	4938.0	end CB +5.4
	1056	0	—	4938	Start CB chase
	1424	—	—	4998	End CB chase
	1445	—	—	5029	Start eos
	1516	7	0.8	5054	increased to 1.4 gpm
	1614	9	& ~~0.8~~ 1.6	5150	& ~~reduced flow rate due to psi~~
1/22	1635	—	—	5160	end of eos for 1/21
	1137	—	—	5160	Start eos
	1225	6	1.2	5246	
	1323	6	1	5302	
	1411	6	1.2	5376	
	1508	—	—	5453	end eos
1/23	1418	—	—	5453	start chase
	1535	6	1.2	5506	Set chase for evening
1/24	1445	—	—	6415	stopped chase b/c brought flow

eos 5453
chase 5136

Solutions
Industrial & Environmental Services

CB: 7302
Chase: 7362
EOS: 8210
Chase: 10457

Page 1 of ___

Injection Monitoring Form

Injection Well ID#: 36A

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time:

End Time:

Date: 1/27/14

Weather:

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 7284

End Totalizer Reading:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	—	—	7284	Start CB
1305	2.5	2	7288.5	~~+49~~
1309	—	—	7302	End Co-BF
1315	—	—	7302	Start chase (CB)
1317	5	4.8	7318	
1325	5	3.6	7351.5	
1328	—	—	7362	end Chase (CB)
1154	—		7362	Start eos
1157	2	2.4	7370.5	
1215	5	2.4	7458	
1240	3	2	7504.5	
1317	3	2	7579	
1435	4	1.6	7710	
1547	6	3.6	7963.5	
1630	—	—	8021.5	end eos for day
1010	—	—	8021.5	restart eos
1037	3	2	8100	
1122	—	—	8210	end eos-complete
1326	—	—	8210	Plan to add 10 sal of eos/start eos
1331	—	—	8220	end eos
1413	—	—	8220	Start Chase test
1431	4	3.8	8270	
1530	—	—	8449	pause Chase 2.24

Solutions
Industrial & Environmental Services

Injection Monitoring Form

end chase: 10457

Injection Well ID#: 36A

Date: 2/3/14

Project Name: Eaton Selma GW RAP Implementation

Weather: cloudy 55°

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: ___

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
2/3	935	—	—	8449	start chase
	958	6	1	8475	water flowing in vault
	1123	6	1	8570	31 hrs -
	1225	6	1	8654	vault full of H_2S - SO_4 in H_2O?
	1326	6	1	8760	
	1408	—	—	8810	Stop chase due to breakthrough nearby
					590 gal chase

Solutions
Industrial & Environmental Services

CB: 6420.3
Chase: 6480.3
EOS: 6904.3
Chase: 9587.3

Injection Monitoring Form

Injection Well ID#: 36 B
Date: 1/27/14
Project Name: Eaton Selma GW RAP Implementation
Weather: 50°
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: 6414.9
Start Time:
End Totalizer Reading:
End Time:
Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
		—	—	6414.9	start CB
	1311	—	—	6420.3	end CB +5.4
	1315	—	—	6420.3	start chase (CB)
	1319	13	2.8	6433	
	1327	12	2.8	6461	
	1333	—	—	6480.3	end chase EOS
1/30	1235	—	—	6480.3	Start EOS
	1259	7	2	6488	
	1216		2.4	6559.5	
	1241	10	1.2	6604	
	1319	5	1.4	6658	
	1437	11	2	6838	
	1507	—	—	6904.3	end EOS
1/31	1414	—	—	6904.3	Start chase EOS
	1432	10	2.8	6945.5	
	1530	—	—	7100	pause chase ~~1545~~ 1960
2/3	935	—	—	7100	Start chase for 2/3
	1000	10	2.4	7160	
	1125	12	2.2	7347	17 hrs
	1226	12	2.3	7493	least full - rain H2O?
	1327	12	2.2	7661	
	1409	—	—	7760	stop chase b/c break thru

856 gal chase

Solutions
Industrial & Environmental Services

1/22 1355 eos/water coming through vault
- Check fittings, everything is good

Injection Monitoring Form

Injection Well ID#: 37 A
Date: 1/21/14
Project Name: Eaton Selma GW RAP Implementation
Weather:
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: 21894
Start Time:
End Totalizer Reading:
End Time:
Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/21	1033	—	—	21894	start CB
	1050	—	—	21945	end CB +51
	1055	—	—	21945	Start Chase +60
	1120	—	—	22021	end chase
	1450	—	—	22021	start eos
	1520	4	1	22052	increased to 1.4 gpm
	1624	—	—	22116	end of eos for 1/21
1/22	1130	totalizer frozen		22116	start eos working cycle @ 1135
	~~1225~~ 1232	~~6~~ 6	~~1.2~~ 2	22283	H_2O in vault
	1330	6	2	22422	H_2O/eos filling in vault
	1420	6	2.2	22524	
	1457	5	2	22596	
	1545	6	2	22685	
	1605	—	—	22736	end eos for 1/22
1/23	1035	—	—	22736	start eos +139
	1112	5	2.2	22812	
	1139	—	—	22869	end eos
	1208	—	—	22869	add 33 gal from 204 start
	1218	—	—	22902	end eos
	1414	—	—	22902	start chase
	1538	4	1.2	23004	set chase flow
1/24	945	—	—	24210	Stop chase b/c break thru

eos ~~22415~~ ~~22604~~ 22902
Chase ~~25120~~ ~~25083~~ 25116

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 37B

Date: 1/21/14

Project Name: Eaton Selma GW RAP Implementation

Weather: ___

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 35166.5

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/21	1050	—	—	35166.5	start CB
	1053	—	—	35171.9	End CB +5.4
	1055	—	—	35171.9	Start chase +60
	1127	—	—	35231.9	end chase
	1450	—	—	35233	Start eos
	1518	5	1.5	35246	
1/22	1626	—	—	35329	end of eos for 1/21
	1130	—	—	35329	Start eos
	1231	7	2.2	35441	slowed to 1.8
	1332	7	1.4	35533	
	1421	—	—	35657	end eos
1/23	1412	—	—	35657	start chase
	1540	4	1.5	35728	set chase flow
1/24	950	—	—	37078	Stop chase b/c breakthru

eos 35657
chase 38340

Solutions
Industrial & Environmental Services

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CB: 24268.5
Chase: ~~24326~~ 24328.5
EOS: ~~25174~~ ~~24377~~ 25176.5
Chase: ~~27389~~ 27391.5

Injection Monitoring Form

Injection Well ID#: 38A
Date: 1/27/14
Project Name: Eaton Selma GW RAP Implementation
Weather: 50° sunny
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: 24217
Start Time:
End Totalizer Reading:
End Time:
Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1350	—	—	24217	start CB
	1357	5	2.8	24237	+ 49
	1403	—	—	~~6~~ 24268.5	end CB
	1417	—	—	24268.5	start chase +60
	1439	—	—	24328.5	end CB chase
1/30	1245	—	2	24328.5	Start EOS
	1304	5	~~1.6~~ 1.7	24362	
	1338	5	1.7	24412	
	1404	5	1.5	24449	
	1443	5	1.2	~~24449~~ SRF 24449	
	1551	5	1.7	24594	
	1630	—	—	24628	pause EOS for day
1/31	0948	—	—	24628	restart eos
	1038	5	2.0	24724	
	1140	7	3.8	24840	
	1230	7	4.0	25085	
	1300	—		25176.5	complete EOS
	1335	—	—	25176.5	start chase
	1349	5	1.2	25190	
	1458	6	4	25340	
	1530	—	—	25478	pause chase
2/3	944	—	—	25478	start chase 2/3

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Solutions
Industrial & Environmental Services

Injection Monitoring Form

End chase: 27391.5

Injection Well ID#: 3BA

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: ___

End Time: ___

Date: 2/3/14

Weather: Cloudy 55°

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: ___

End Totalizer Reading: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
951	6	2.4	25499	
1113	6	2.6	25796	10 hrs left
1220	6	2.6	25966	
1316	6	2.6	26130	
1453	5	2.2	26369	
1542	—	—	26410	end chase
				1,234 gal chase

Solutions
Industrial & Environmental Services

CB: 5935.4
Chase: 5995.4
EOS: 6419.4
Chase: 9102.4

Injection Monitoring Form

Injection Well ID#: 38B
Date: 1/27/14
Project Name: Eaton Selma GW RAP Implementation
Weather: 50° Sunny
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: 5930.0
Start Time:
End Totalizer Reading:
End Time:
Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1405	—	—	5930.0	Start CB
	1411	—	—	5935.4	end CB +5.4
	1411	—	—	5935.4	Start Chase
	1440	—	—	5995.4	end CB chase +60
1/30	1245	—	2	5995.4	start EOS
	1304	-13	1.6	6022	
	1338	-13	1.6	6075	
	1404	-13	1.5	6112	
	1443	-18	1.2	6161	
	1352	-9	2.0	6275	
	1630	—	—	6308	pause EOS for day
1/31	950	—	—	6308	resume EOS
	1038	-8	1.6	6352	
	1115	—	2.0	6419.5	complete EOS
	1335	—	—	6419.5	start chase
	1350	-8	2.0	6461.5	
	1530	—	—	6753	Pause chase 334
2/3	944	—	—	6753	start chase 2/3
	950	3	2.8	6770	
	1115	5	3.2	7030	10 hrs
	1220	5	3.2	7236	
	1314	5	3	7430	
	1455	4	3.4	7733	
	1540	—	—	7810	end chase 1,391 gal chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 39A

Date: 1/20/14

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 5380

Start Time: 1620

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1620	3.5	7.5 DB	5380	Start CB pressure & flow rate after start
1628	–	–	5431	end CB
1700	–	–	5491	end chase
1504	–	–	5491	start EOS
1525	4	2	5526	
1548	7	7	5647	
1615	7	3.2	5750	
1625	–	–	5756	end of day
1200	–	–	5756	start EOS day 2
1215	5	1.9	5783	
1305	3	1.8	5867	
1320	3	1.75	5895	
1409	3.5	1.8	5981	
1455	4.5	3.2	6065	
1603	–	–	6339	End EOS
1417	–	–	6339	Start chase
1545	5	1.75	6442	End of day
840	7.5	3.2	8137	
1000	–	–	8488	turned off

End EOS @ 6339 End Chase @ 8553

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 39 B

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1624

End Time:

Date: 1/20/14

Weather:

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 5523.5

End Totalizer Reading:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1624	—	—	5523.5	start CB
1626	—	—	5528.9	end CB
1700	—	—	5588.9	end chase
1505	—	—	5589	Start EOS
1525	4	1.5	5624	
1548	8	4	5732	
1625	—	—	5849	end of day
1200	—	—	5849	Start EOS day 2
1217	7	6	5917	
1235	—	—	6013	end EOS
1417	—	—	6013	Start chase
1546	6	1.75	6162	End of day
840	12	12	8153	
928	—	—	8704	End chase, 8 gal. over

End EOS @ 6013 End chase @ 8696

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 40 A

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 1125

End Time:

Date: 1/21/14

Weather:

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: ~~5271~~ 5273.5

End Totalizer Reading:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1125	—	—	~~5271~~ 5273.5	start CB
1153	-	-	5324.5	end CB
1154	-	-	5324.5	start chase
1220	-	-	5384.5	end chase
1500	-	-	5385	start EOS
1510	4	1.1	5395	
1528	4	1.1	5416	
1625	-	—	5423	end of day
1235	—	—	5423	Start EOS day 2
DB ~~1400~~ 1301	4	1	5453	
DB ~~1620~~ 1320	4	1	5471	
1406	4	0.9	5516	
1458	5	1.6	5577	
1610	—	—	5618	End of day
1037	—	—	5618	Start EOS day 3
1105	4	1.6	5677	EOS slowly coming thru well vault.
1135	3	1.6	5726	
1203	2.5	1.1	5761	
1227	3	1.2	5787	
1410	—	-	5886	turned off for chase

End EOS @ 6233 End Chase @ 8447

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 40 B

Date: 1/20/14

Project Name: Eaton Selma GW RAP Implementation

Weather: ___

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 16300

Start Time: 1630

End Totalizer Reading: 1

End Time: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1630	9	-	16300	start CB pressure need after start
1632	-	-	16305.4	end CB
1705	-	-	16367.5	end chase
1500	-	-	16368	start EOS
1510	5	0.6	16378	
1530	5	0.5	16388	
1625	—	—	16467	end of day
DB			~~16467~~	~~start EOS day 2~~
1230	—	—	11219	start EOS day 2 w/ additional meter
-	-	-	-	
1300	10.5	1.5	11274	
1322	10.8	1.4	11310	
1404	11	1.6	11373	
1500	13	1.6	11475	
1603	—	—	11544	End EOS
1417	—	—	11544	Start Chase
1547	7	0.8	11577	End of day
843	13.5	1.6	12356	
1000	—	—	12465	turned off

input 99

325 diff.

End EOS @ ~~16792~~ DB 11544 End Chase @ ~~19475~~ DB 14227

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 45A

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 930

End Time: ___

Date: 1/21/14

Weather: ___

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 22261

End Totalizer Reading: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
930	—	—	22261	start CB
935	3	3	22281	+51
950	-	-	22312	end CB
955	-	-	22312	start chase
1008	-	-	22372	end chase
1400	-	-	22372	start EOS
1520	4	1.2	22491	
1545	5	1.5	22522	
1625	—	—	22572	end of day
1115	—	-	22572	start EOS day 2
1205	4	1	22640	
1220	5	0.8	22655	
1300	5	1.1	22688	
1324	5	1.1	22726	
1403	6	1.2	22774	
1452	3	0.5	22814	
1610	—	—	22856	End of day
1052	—	—	22856	Start EOS day 3
1105	5	2.2	22900	
1137	5	2	22958	
1207	6	1.9	23022	
1305	6	2.2	23169	

End EOS @ 23220

end chase @ 25434

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 45 A

Date: 1/23/14

Project Name: Eaton Selma GW RAP Implementation

Weather: ___

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: ___

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1327	—	—	23220	End EOS
1417	—	—	23220	start chase
1533	4	1.75	23297	End of day
831	7	6	25137	
930	—	—	25434	End chase

End EOS @ 23220 End chase @ 25434

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 45B

Date: 1/21/14

Project Name: Eaton Selma GW RAP Implementation

Weather: ___

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 5270.5

Start Time: 945

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
~~950~~ 945	0	0	5270.5	Start CB
950		3	5276	end CB +5.4
955	-	-	5276	start chase
1003	-	-	5336	end chase
1400	-	-	5342	start EOS
1523	4	1.5	5466	
1545	5	1.2	5493	
1625	—	—	5523	end of day
1205	6	2.2	5675	
1220	6	2	5712	
1250	—	—	5766	End EOS
1417	—	—	5766	start chase
1535	5	1.75	5826	End of day
838	17	9	7795	
1000	—	—	8415	turned off

Started EOS @ 5523 day 2

End EOS @ 5766

End Chase @ 8449

Start 25434.1
CB ~~25483.3~~ 25475
Chase ~~25543.3 25475~~ 25485
EOS ~~26391.3 26341~~ 26333
Chase ~~28606.3 2810~~ ~~2802.3 2856~~
18991

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 46 A

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
2/6	1019	—	—	25434.1	Start CB
	1038	—	—	25475	End CB
	1043	—	—	25475	Start CB Chase
	1048	—	—	25485	End CB Chase
	1242	—	—	25485	Start EOS
	1302	3	1	25544	
	1404	4	1.6	25651	
	1540	5	1.2	25760	
	1615	—	—	25813	End EOS for day
2/7	0903	—	—	25813	restart EOS
	0914	5	2.3	25838	
	~~0954~~ 1003	~~13~~ 5	1.6	~~37413~~ 25904	
	1050	6	2.0	25967.5	
	1234	7	1.8	26144	
	1339	—	—	26250	83 gal left
	1409	—	—	26333	Complete EOS
	1409	6	1.8	26333	Start chase/extra EOS
	1500	5	1.6	26385	
	1521	—	—	26409	pause chase
2/10	0930	—	—	16852	Start Chase
	1025	2	0.8	16894	
	1142	1	3.1	17136	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 46A

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1248	1	3.5	17370	
1345	–	–	17571	Cut chase due to breakthrough
~~1400~~ 1407	–	–	17571	restarted chase
1429	0	1.7	17608	
1529	0	1.7	17710	Stopped chase for day
2/19 0920	–	–	17717	restart chase
1029	-2	0.8	17771	
1132	-2	0.7	~~2/19~~ 17816	
1202	–	–	17838	end chase

Start 37084
CB ~~37089.4~~ ~~37082.6~~ 37088
Chase 37149.4 - 50 = ~~37099~~ 37092.6
EOS 37573.4 - 50 = ~~37523.6~~ 37516.6
Chase ~~40256.4 - 50 = 40206~~ 2327.6

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 46B

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
2/6	1046	–	–	37084	Start CB
	1043	–	–	37088	end CB
	1043	–	–	37088	Start CB chase
	1048	–	–	37092.6	end CB Chase
	1243	–	–	37092.6	start eos
	1303	11	1	37111.5	
	1405	14	2	37240	
	1541	10	0.9	37331.5	
	1615	–	–	37366	end eos for day
2/7	0903	–	–	37344	restart eos
	0915	12	1.1	37379.5	
	0959	13	1.2	37413	
	1048	13	1.6	37453.5	
	1155	–	–	37516.6	complete eos
	1210	–	–	37516.6	start chase / extra eos
	1236	12	2.0	37554	
	1501	8	2.0	37610	
	1522	–	–	37621	pause chase
2/10	0930	–	–	20643	restart chase
	1026	5	0.5	20673	
	1143	10	2	20827	
	1259	10	1.9	20973	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 46B

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1345	–	–	21095	Stopped chase due to breakthrough
~~1407~~ 1426	–	–	21095	restarted Chase
1429	5	1	21098	
1529	6	0.9	21156	Stopped chase for day
2/14 0929	–	–	21100	restart Chase
1031	6 ~~6~~ AW 2/14	1	21243	
1132	6	1.15	21311	
1202	–	–	21344	end chase

8900.3 Start ~~6134.5~~
8941.8 CB ~~6183.7~~ ~~6176~~
8951.8 Chase ~~6243.7~~ ~~6193~~ ~~6186~~
9799.8 EOS ~~7091.7~~ ~~7047~~ ~~7033.3~~
~~12014.4~~ Chase ~~9306.7~~ ~~9256~~ ~~9248.6~~
#17503

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 47A

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
2/6	1020	–	–	6134.5	Start CB/Stopped Broken totalizer switched
	1028	–	–	8900.3	Start CB
	1046	–	–	8941.8	end CB
	1045	–	–	8941.8	Start CB Chase
	1048	–	–	8951.8	end CB Chase
	1244	–	–	8951.8	start eos
	1304	0 ~~0~~	1.2	8996.5	
	1407	0	1	9059	
	1543 ~~1413~~	0	1.7	9225.5	
	1615	–	–	9278	end eos for day
2/7	0903	–	–	9278	restart eos
	0914	0	2.5	9310.5	
	1004	0	2.4	9391.5	
	1047	0	2.4	9460	
	1241	0	2.6	9673	
	1342	–	–	9780	20 gal left
	1351	–	–	9800	complete eos
	1352	0	1.2	9800	start chase / extra eos
	1504	0	2.0	9854	
	1520	–	–	9863	pause chase
2/10	0938	–	–	15351	restart Chase
	1028	1	0.5	15362	
	1144	-1	3.7	15644	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 47A

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1259	-1	3.7	15926	
1345	—	—	16160	Stopped chase / breakthrough
1440	—	—	16160	restarted chase
1529	-3	1.2	16221	Stopped chase for day
2/14 0920	—	—	16226	restart chase
1031	-8	0.5	16255	
1132	-9	1.5	16345	
1202	—	—	16390	end chase

Start 9540.8
CB ~~9546.2~~ 9544.8
Chase ~~9606.2~~ ~~9550~~ 9554.8
eos ~~10030.2~~ ~~9978.6~~ 9978.8
Chase ~~12713.2~~ ~~12663~~ ~~12662~~
21403.8

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 47B

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
2/6	1038	—	—	9540.8	Start CB
	1042	—	—	9544.8	end CB
	1045	—	—	9544.8	Start CB chase
	1048	—	—	9554.8	end CB Chase
	1244	—	—	9554.8	Start eos
	1305	0	1.6	9606	
	1408	0	1.2	9691	
	1544	0	1.1	9800	
	1615	—	—	9832	end eos for day
2/7	0903	—	—	~~432~~ 9832	restart eos
	0916	3	2.2	9860.5	
	1005	3	2.4	9924	
	1027	—	—	9978.8	eos complete
	1215	—	—	9978.8	start chase / extra eos
	1242	6	2.8	10048	
	1506	6	2.6	10219	
	1520	—	—	10234	pause chase
2/10	0930	—	—	18976	restart chase
	1028	1	1.6	19028	
	1144	5	2.5	19220	
	1250	4.5	2.6	19393	
	1345	—	—	19535	Stopped chase / breakthrough

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 47B

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1406	–	–	19535	restarted chase
1431	1	1.1	19563	
1530	1	1.1	19630	Stopped chase for day
2/14 0920	–	–	19634	restart Chase
1033	1	1.2	19730	
1133	1	1.2	19801	
1202	–	–	19830	End Chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 48A

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 930

End Time: ___

Date: 1/21/14

Weather: ___

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 5485

End Totalizer Reading: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
930	—	—	5485	start CB
938	0	3.2	5516	+51
950	—	—	5536	end CB
955	-	-	5536	start chase
1009	-	-	5596	end chase
1400	-	-	5596	start EOS
1514	3	1	5691	
1533	3	1.5	5721	
1625	—	-	5766	end of day
1115	—	—	5764	start EOS day 2
1207	3	1.5	5857	
1258	4	1.5	5935	
1326	4	1.4	5980	
1400	4	1.8	6040	
1445	3	0.8	6100	
1610	-	-	6168	End of day
1053	—	—	6168	Start EOS day 3
1106	6	0.5	6219	
1138	6	2.4	6271	
1205	6	3	6354	
1232	—	-	6444	End EOS
1417	—	—	6444	Start Chase

End EOS @ 6444

End Chase @ 8658

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 48A

Date: 1/23/14

Project Name: Eaton Selma GW RAP Implementation

Weather: ___

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: ___

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1535	6	1.6	6523	
1535	6	1.75	6527	End of charge
832	7	4	8592	
852	—	—	8680	Over 22 gal. End chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 4B3

Date: 1/21/14

Project Name: Eaton Selma GW RAP Implementation

Weather: ___

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 65583.9

Start Time: 940

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
940	~~0~~	~~+~~	65583.9	start CB
950	—	—	65589.3	end CB +5.4
955	-	-	65589.3	start chase
1008	-	-	65649.3	end chase meter* replaced
1400	-	-	6653	start EOS
1515	0	0.4	6691	
1535	0	0.4	6699	
1625	—	—	6720	end of day
1115	—	—	6720	start EOS day 2
1207	5	1.4	6810	
1256	6	1.2	6866	
1327	7	1.3	6904	
1400	8	2	6951	
1447	0	0.4	6988	
1610	—	—	7013	End of day
1053	—	—	7013	Start EOS day 3
1117	—	—	7077	End EOS
1417	—	—	7077	start chase
1540	7	1.75	7173	End of day
835	15	4.8	9113	
1000	—	—	9540	turned off

End EOS @ 7077

End chase @ 9760

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 49 A

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time: 930

End Time:

Date: 1/21/14

Weather:

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading: 4236

End Totalizer Reading:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
930	—	—	4236	start CB
938	0	4.8	4276	+60
940	-	-	4287	end CB
955	-	-	4287	start chase
1006	-	-	4347	end chase
1407	-	-	4347	start EOS
1517	0	2	4465	
1540	0	1.5	4497	
1625	—	—	4550	end of day
1115	—	—	4550	start EOS day 2
1210	CB ~~0~~ 3	3.5	4770	
1255	3	5	4980	
1330	3	5	5142	
1342	—	—	5195	End EOS
1417	—	—	5195	Start chase
1543	0	1.7	5316	End of day
830	5	7	7034	
935	—	—	7409	End chase

End EOS @ 5195

End Chase @ 7409

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 493

Date: 1/21/14

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 14769.4

Start Time: 9:43

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
943	-	-	14769.4	Start CB
946	-	-	14774.8	end CB +5.4
955	-	-	14774.8	start chase
1010	-	-	14838.5	end chase - over 4 gal.
1407	-	-	14839	start EOS
1517	5	0.5	14895	
1540	5.5	0.8	14912	
1625	-	-	14941	end of day
1115	-	-	14941	start EOS day 2
1211	6.5	1.5	15050	
1253	7	1.5	15104	
1331	7	1.4	15155	
1358	8	2	15205	
1445	-	-	15263	End EOS
1417	-	-	15263	Start chase
1544	6.5	1.75	15345	End of day
830	13	3.6	17200	
1010	-	-	17616	turned off

End EOS @ 15263 End chase @ 17946

Solutions
Industrial & Environmental Services

Start ~~65~~ 64515.9
CB ~~64565.1~~ ~~64548.6~~ 64557.4
Chase ~~64625.1~~ ~~64575~~ ~~64558.6~~ 64567.4
EOS ~~65473.1~~ ~~65423~~ ~~65415.3~~ 65415.4
Chase ~~67688.1~~ 67638 ~~67630~~
25572

Injection Monitoring Form

Injection Well ID#: 50A

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
2/6	1020	—	—	64515.9	start CB
	1032	—	—	64557.4	stop CB
	1043	—	—	64557.4	start chase
	1046	—	—	64567.4	end chase
	1245	—	—	64567.4	Start EOS
	1308	3	1.2	64632	
	1410	5	1.4	64718.5	
	1545	6	2.3	64941.5	
	1615	—	—	65005.5	end eos for day
2/7	0907	—	—	65005.5	restart eos
	0917	6	2.3	65036	
	1046	6	2.5	65156	
	1249	7	2.2	65338	
	1344	—	—	65400	15.4 gal left
	1354	—	—	65415	complete eos
	1355	7	2.0	65415	start chase / extra eos
	1508	7	1.6	65467	
	1522	—	—	65477	pause chase
2/10	0930	—	—	23419	restart chase
	1031	0	1.6	23491	
	1145	1	2	23644	
	1250	1	2.2	23785.5	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 50A

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1431	0	2.2	24011	
1531	0	1.3	24148	stopped chase for day
2/14 0920	—	—	24153	restart chase
1034	-1	1.2	24252.5	
1133	-1	AM 2/14 ~~1.4~~ 1.3	24332	
1202	—	—	24370	end chase

Solutions
Industrial & Environmental Services

Start 9518.8
CB ~~9524.2~~ 9522.8
Chase ~~9584.2~~ 9534 9532.8
eos ~~10082~~ ~~9556~~ Page 1 of 2 9956.8
Chase ~~12691.2~~ 12691 ~~12637.6~~
19311

Injection Monitoring Form

Injection Well ID#: 50B

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
2/6	1033	—	—	9518.8	start CB
	1035	—	—	9522.8	end CB
	1043	—	—	9522.8	start chase
	1046	—	—	9532.8	end chase
	1245	—	—	9532.8	start eos
	1310	10	1.2	9575	
	1411	8	~~1.5~~ 1.2	9639.5	
	1546	8	1	9733.5	
	1615	—	—	9758.3	end eos for day
2/7	0909	—	—	9758.3	restart eos
	0917	13	2.2	9786.5	
	1045	10	1.2	9864	
X	1204	—	—	9957	end eos
	1210	—	—	9957	start chase / extra eos
	1248	8	2.4	10013	
	1355	4	1.2	10081	
	1508	8	1.8	10122	
	1522	—	—	10134	pause chase
2/10	0930	—	—	16805	restart chase
	1032	8	3.2	16958	
	1145	8	2.8	17165	
	1251	8	2.6	17343	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 50B

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1432	9	2.8	17631	
1531	9	3	17805	Stopped chase for day
2/14 0920	–	–	17810	restart chase
1035	4	1.2 4 am 2/14	17936	
1134	4	1.6	18034	
1202	–	–	18081	end Chase

Solutions
Industrial & Environmental Services

5710 EOS
7924 chase

Injection Monitoring Form

Injection Well ID#: 51A
Date: 1/21/14
Project Name: Eaton Selma GW RAP Implementation
Weather:
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: 4748
Start Time: 930
End Totalizer Reading:
End Time:
Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	930	—	—	4748	Start CB
	937	3	2	4765	+60
	941	3.5	6	4780	
	945			4799	end CB
	955			4799	start chase
	1009			4862	end chase - over 3 gal.
1/21	1404	—	—	4862	start EOS
	1525	2	1.2	4979	
	1623	3	1.3	5052	
	1628	—	—	5055	pause EOS
1/22	1120	—	—	5055	resume EOS Frozen
	1144	2	2.0	5088	
	1232	3		5186	
	1327	4		5291	
	1418	4		5395	
	1509	3		5472	
	1600	4		5536	
	1613	—		5548.5	Pause EOS for clog
1/23	1103	—	—	5548.5	resume EOS
	1123	4		5590	
	1150	4		5650	
	1215	—	—	5710	End EOS
1/23	1413	—	—	5710	Start chase
	1524	5	1.5	5820	set for O/N chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 51 A

Date: 1/24/14

Project Name: Eaton Selma GW RAP Implementation

Weather: ___

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: ___

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/24 919	5	-	7135	
1010	7	3.2	7300	
1043	—	—	7390	cut chase

Solutions
Industrial & Environmental Services

4744 EOS
4427 chase

Injection Monitoring Form

Injection Well ID#: 51 B
Date: 1/21/14
Project Name: Eaton Selma GW RAP Implementation
Weather:
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: 4252.5
Start Time: 946
End Totalizer Reading:
End Time:
Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	9:46			4252.5	Start CB
	950			4257.9	end CB +5.4
	955			4257.9	start chase
	1005			4317.9	end chase
1/21	1404	—	—	4320	Start EOS
	1525	3	1.2	4419	
	1623	3	1.2	4490	
	1628	—	—	4490	pause EOS
1/22	1120	—	—	4490	resume EOS
	1144	3	1.2	4514	
	1232	3		4577	
	1327	3		4641	
	1418	3		4723	
	1445	—		4744	End EOS
1/23	1415	—	—	4744	start chase
	1524	3	1.6	4810	set for O/N chase
1/24	919	4	—	6353	
	1010	9	6.7	6698	
	1043	—	7	6934	cut chase

Solutions
Industrial & Environmental Services

Start 7390.2
CB ~~7439.4~~ 7431.3
Chase ~~7499.4~~ ~~7445~~ 7441.3
EOS ~~8347.4~~ 8289.3
Chase ~~10562.4~~ ~~10512~~ 27703

Injection Monitoring Form

Injection Well ID#: 52A

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
2/6	1020	–	–	7390.2	start CB
	1034	–	–	7431.3	end CB
	1043	–	–	7431.3	start chase
	1046	–	–	7441.3	end chase, + 3gal CB extra
	1246	–	–	7441.3	Start eos
	1311	2	1.5	7517	
	1413	3	1	7580	
	1547	3	2	7767	
	1615	–	–	7820.4	end eos for day
2/7	0900	–	–	7820.4	restart eos
	0918	4	2.1	7846	
	1044	4	2.4	7943	
	1253	5	2.5	8190	
	1321	–	–	8290	complete eos
	1330	–	–	8290	start chase / extra EOS
	1511	6	2.2	8402	
	1522	–	–	8412	pause chase
2/10	0930	–	–	25610	restart chase
	1033	7	1.6	25693	
	1146	9	3.3	25935	
	1251	9	3.5	26168	
	1433	9	3.5	26535	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 52A

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1532	8	1.5	26623	Stopped chase for day
2/14 0920	—	—	26624	restart Chase
1036	6	1.3	26716	
1134	6	1.2	26787	
1202	—	—	26821	end chase

Solutions
Industrial & Environmental Services

Start 8680
CB ~~8685.4~~ 8684
Chase ~~8745.1~~ ~~8695~~ 8694
eos ~~9164.4~~ ~~9119~~ 9118
Chase ~~11852.4~~ ~~11802~~ 12928

Injection Monitoring Form

Injection Well ID#: 52B

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
2/6	1034	-	-	8680	start CB
	1036	—	-	8684	end CB
	1013	-		8684	start chase
	1016	-	-	8694	end chase
	1246	-	-	8694	Start eos
	1314	19	1.6	8713.5	
	1414	18	0.8	8759	
	1548	18	0.6	8820.5	
	1615	-	-	8838	end eos for day
2/7	0900	-	-	8838	restart eos
	0918	19	1.5	8856	
	1043	22	1	8930	
	1254	gauge bad reading 24	2.0	9074	
	1315	—	—	9118	end eos
	1330	—	—	9118	start chase/extra eos
	1512	gauge bad	2.4	9200	
	1522	—	—	9206	pause chase
2/10	0930	—	-	10333	restart chase
	1034	8	1.6	10442	
	1146	12	2.4	10617	
	1252	13	2.4	10779	
	1433	13	2.5	11034	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 52B

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1532	13	2.6	11191	Stopped chase friday
2/14 0920	–	–	11191	restart chase
1037	7	1.4	11296	
1134	7	1.4	11375	
1202	–	–	11413	End chase

Solutions
Industrial & Environmental Services

6450 EOS
8664 chase

Injection Monitoring Form

Injection Well ID#: 53A
Date: 1/20/14
Project Name: Eaton Selma GW RAP Implementation
Weather: 45° Sunny
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: 5487
Start Time: 1535
End Totalizer Reading:
End Time:
Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/20	1535	—	—	5487	start cobupH
	1548	—	—	5536	end cobupH +51
	1700	—	—	5602	chase +60
1/21	1407	—	—	5602	start EOS
	1521	0	0.8	5658	
	1622	0	0.75	5704	
	1628	—	—	5704.5 *	pause EOS
1/22	1119	—	—	5705.5 *	resume EOS
	1141	0	1.2	5729	
	1231	0		5784.5	
	1320	0		5850	
	1417	0		5913	
	1508	0		5944	
	1559	0		5977	
	1613	—		5985	Pause EOS for day
	1103	—	—	5985	
	1122			6021	
	1144	0		6072	
	1249	5		6286	
	1322	5		SRF ~~6450~~ 6451	End EOS, add extra gal.
	1413	—	—	6451	start chase
	1524	0	1.5	6534	set for N chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 53 A

Date: 1/24/14

Project Name: Eaton Selma GW RAP Implementation

Weather: ___

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: ___

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
918	0	–	7931	
1009	5	3.6	3118	
1043	—	—	8270	cut chase

Solutions
Industrial & Environmental Services

4681 EOS

Injection Monitoring Form 7364 ~~4964~~ chase

Injection Well ID#: 53B

Date: 1/20/14

Project Name: Eaton Selma GW RAP Implementation

Weather: 45° Sunny

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 17734.0

Start Time: 1555

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/20	1555	—	—	17734.0	start CoBupH
	1635	—	—	17739.4	end CoBupH +5.4
	1700	—	—	17800	chase +60
1/21	changed totalizer				
	~~1405~~ 1/21/14 SRF	—	—	4253.3	new tot. reading.
	1407	—	—	4257	Start EOS
	1521	4	1.2	4328	
	1622	4	1.4	4412	
	1628	—	—	4413 *	purge EOS
1/22	1119	—	—	4414. *	resume EOS
	1141	4	1.2	4440	
	1231	4		4500	
	1326	4		4564	
	1417	4		4639	
	1508			4682	End EOS w/extra gal.
1/23	1415	—	—	4682	start chase
	1524	5	1.5	4730	set for 0/N chase
1/24	918	4	—	6203	
	1009	4	3	6355	
	1043	—	—	6460	cut chase

Solutions
Industrial & Environmental Services

Start 7409.1
CB ~~7458.3~~ 9450.6
Chase ~~7518.3~~ ~~7468~~ 9460.6
EOS ~~7442.3~~ ~~7892~~ ~~7554.6~~ ~~8308.6~~ Page of
Chase ~~10581.3~~ 10531
8308.6 EOS

Injection Monitoring Form

chase 38013

Injection Well ID#: 54A

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time:

End Time:

Date:

Weather:

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading:

End Totalizer Reading:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1113	–	–	7409.1	Start CB
1126	–	–	7450.6	end CB + 49 gallons extra CB
1130	–	–	7450.6	Start chase
1132	–	–	7460.6	end chase
1243	–	–	7460.6	start EOS
1302	6	0.9	7480	
1415	3	1.6	7595.5	
1550	3	1.6	7751.5	
1615	–	–	7801	pause EOS 83.6
2/17 0900	–	–	7801	resume EOS
0915	5	2.8	7813	
0955	4	2.8	7866	
1053	4	2.5	7952	
1255	5	2.2	8133	
1346	–	–	8200	108.6 gal left
1411	–	–	8309	complete eos
1412	5	2.2	8309	start chase/extra eos
1515	6	2.4	8335	
1522	–	–	8341	pause chase
2/10 0930	–	–	35798	restart chase
1028	2	1.0	35877	
1144	2	1.3	35980	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 54A

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1250	4	2.4	36137	
1430	4		36371	
1530	4		36517	cut chase for clay
2/14 920	—	—	36526	resume chase
1030	2	2	36670	
1130	2	2	36794	
1200	—	—	36854	end chase

Start 5448.5
CB 5453.9 5452.5
Chase ~~5513.9~~ ~~5463~~ 5462.5
12/4/911 EOS ~~6361.9~~ ~~6310.5~~ 5886.5
Chase ~~8620.9~~ ~~8570~~

Solutions
Industrial & Environmental Services

Page___ of ___

Injection Monitoring Form chase 28410

Injection Well ID#: 54B

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1125	—	—	5448.5	Start CB
1127	—	—	5452.5	end CB
1135	—	—	5452.5	Start chase
1137 ~~1132~~	—	—	5462.5	end chase
1245	—	—	5462.5	start EOS
1302	0	1.4	5503	
1417	0	1.2	5588.5	
1550	0	0.7	5659	
1615	—	—	5682	pause EOS
0900	—	—	5682	resume EOS
0915	0	3.2	5697	
955	0	3.2	5734	
1056	0	2.5	5791	100 gal left
1201	—	—	5892	complete EOS (6 gal over)
1212	—	—	5892	start chase / extra EOS
1256	0	2.4	5993	
1516	0	2.4	6144	
1522	—	—	6144	pause chase
2/10 0930	—	—	25722	restart Chase
1028	2	2.4	25889	
1144	2	2.5	26080	
1250	4	3.9	26337	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 54B

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1430	5		26716	
1530	5		26950	cut chase for day
2/14 920	—	—	26962	resume chase
1030	0	1.3	27050	
1130	0	1	27123	
1200	—	—	27158	end chase

Solutions
Industrial & Environmental Services

4616 EOS
0830 chase

Injection Monitoring Form

Injection Well ID#: 55A
Date: 1/20/14
Project Name: Eaton Selma GW RAP Implementation
Weather: 45° Sunny
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: 84
Start Time: 1535
End Totalizer Reading:
End Time:
Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/20	1535	—	—	84	start CoBupH
	1550	—	—	135	end CoBupH +51
	1700	—	—	195	chase +60
1/21	changed totalizer				
	—	—	—	3768	new tot. reading
	1415	—	—	3768	start EOS
	1514	5	1.2	3856	
	1622	5	1.3	3940	
	1028	—	—	3943	pause EOS
1/22	1118	—	—	3943	resume EOS
	1139	5	2.0	3974	
	1230	5		4080	
	1325	5		4193	
	1416	5		4305	
	1509	5		4386	
	1558	5		4495	
	1613	—	—	4520	pause EOS for day
	1103	—	—	4520	resume EOS
	1121	5		4561	
	1149	5		4623	End EOS, over 7 gal
1/23	1413	—	—	4623	start chase
	1524	8	0.5	4684	set for 0% chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 55A

Date: 1/24/14

Project Name: Eaton Selma GW RAP Implementation

Weather: ___

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: ___

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
917	6	–	5158	
1008	7	0.7	5196	
1043	–	–	5203	cut chase

Solutions
Industrial & Environmental Services

62516 EOS
05199 chase

Injection Monitoring Form

Injection Well ID#: 55B
Date: 1/20/14
Project Name: Eaton Selma GW RAP Implementation
Weather: 45° sunny
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: 61978.0
Start Time: 1555
End Totalizer Reading:
End Time:
Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/20	1555	—	—	61978.0	start CoBupH
	1600	—	—	61983.5	end CoBupH +5.4
	1700	—	—	62042	chase +60
1/21	1413	—	—	62042	start EOS
	1519	5	1.0	62098	
	1622	4	0.9	62154	
	1628	—	—	62155	pause EOS
1/22	1118	—	—	62155	resume EOS
	1139	5	1.0	62170	
	1230	5		62225	
	1325	7		62290	
	1416	6		62390	
	1507	6		62443	
	1558	4		62484	
	1613	—		62493	pause EOS for day
1/23	1103	—	—	62493	resume EOS
	1115	5	1.2	62510	
	1119	—		62516	End EOS
1/23	1413	—	-	62516	start change
	1524	10	1.6	62575	set for °N chase
	917	7	-	64443	
	1008	15	4.7	64685	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 55 B

Date: 1/24/14

Project Name: Eaton Selma GW RAP Implementation

Weather: _____

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: _____

Start Time: _____

End Totalizer Reading: _____

End Time: _____

Total Gallons Injected: _____

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/21	1043	—	—	04785	cut chase

Solutions
Industrial & Environmental Services

Start 6460.3
CB ~~6509.5~~ 6501.8
Chase ~~6562.5~~ 6518.8
EOS ~~6943.5~~ ~~6943~~ 6935.8
Chase ~~9632.5~~ ~~9582~~ SRF

Page___ of___

Injection Monitoring Form chase 4926 *

Injection Well ID#: 56A

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
	1113	–	–	6460.3	Start CB
	1123	\	\	6501.8	end CB
	1131	–	–	6501.8	Start chase
		–	–	6511.8	end chase
	1246	–	–	6511.8	start EOS
	1306	4	1.2	6585	
	1419	4	1.8	6690	
	1551	4	2	6880	
	1615	–	–	6935.3	End eos - Complete 0.5gal
2/7	0900	–	–	6935.3	add 0.5gal EOS - complete
	~~0916~~				
	1212	–	–	6935.3	start chase/extra eos
	1301	5	2.0	7028	
	1517	5	2.2	7186	
	1522	–	–	7190	pause chase
2/10	0930	–	–	2287	restart chase
	1024	5	2.8	2476	
	1145	5	2.3	2648	
	1250	6	2.2	2793	
	1431	6		3007	
	1531	7		3140	out chase for clay
2/11	920	–	–	3146	resume chase

1

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 56A

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1031	0	1.8	3277	
1131	2	1.9	3393	
1200	—	—	3447	end chase

Solutions
Industrial & Environmental Services

Start 17615.6
CB ~~17621~~ 17619.6
Chase ~~17681~~ ~~17637~~ 17629.6
EOS ~~18105~~ 18053.6 Page___ of ___
~~Chase 20788 20738~~

Injection Monitoring Form chase 28401

Injection Well ID#: 56B

Project Name: Eaton Selma GW RAP Implementation

Project Number: 2013.0014.EATN

Project Location: Selma, NC

Start Time:

End Time:

Date:

Weather:

Injected Material: CoBupH-Mg, EOS XR

Initial Totalizer Reading:

End Totalizer Reading:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1126	–	–	17615.6	Start CB
1127	–	–	17619.6	end CB
1132	–	–	17619.6	Start chase
1135	–	–	17629.6	end chase
1246	–	–	17629.6	start EOS
1306	4	1.2	17696	
1420	4	1	17781	
1551	4		17865	
1615	–	–	17921	pause EOS
2/4 0901	~~4~~	–	17921	resume EOS
0917	4.5	3.8	17934	
956	4	3.8	18009	
1022	4	3.8	18053.6	end EOS – complete
1212	–	–	18053.6	start chase/extra eos
1301	7	2.6	18175	
1519	6	2.6	18348	
1523	–	–	18348	pause chase
2/10 0930	–	–	25718	restart chase
1029	5	2.4	25868	
1145	5	2.4	26054	
1251	6	3.2	26263	
1431	7		26572	

132.6

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 56B

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1531	7		26763	cut chase for day
2/14 924	—	—	26770	resume chase
1031	3	1.6	26904	
1131	3	1.6	27020	
1230	—		27075	end chase

Start 17800.4
CB ~~17849.6~~ 17841.9
Chase 17909.6 ~~17851~~ 17851.9
EOS ~~18757.6 18700~~ Page___ of ___ new tot 11903.5 EOS
~~Chase 20972.6 20922~~ SRF

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Chase 65838

Injection Well ID#: 57A

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1113	—	—	~~17800.4~~	start CB 11000 new tot
1126	—	11044.5	~~11041.5~~	end CB, added 3 gal CB extra
1132	—	—	11044.5	start chase
1135	—	—	11055.5	end chase
1247	—	—	11055.5	start EOS
1310	6	1.2	11113	
1421	5	1.2	11211	
1552	5	1.1	11313	
1615	—	—	11335	pause EOS 56815
2/7 0900	—	—	11335	resume EOS
0918	6	3.2	11350	
957	6	3.2	11404	
1044	5	3.4	11478	
1306	5	2.8	11742	
1349	—	—	11800	103.5 gal left
1414	—	—	11904	complete eos
1415	5	2.6	11904	start chase / extra eos
1520	5	2.8	11936	End ~~eos~~ chase for day
2/10 0930	—	—	63623	restart chase
1030	3	0.5	63665	
1146	4	2.4	63851	
1252	4	2.4	64010	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 57 A

Date: _____

Project Name: Eaton Selma GW RAP Implementation

Weather: _____

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: _____

Start Time: _____

End Totalizer Reading: _____

End Time: _____

Total Gallons Injected: _____

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1432	4		64247	
1532	4		64395	cut chase for day
7/14 920	—	—	64400	resume chase
1032	3	1.75	64526	
1132	3	1.8	64638	
1230	—	—	64699	end chase

Solutions
Industrial & Environmental Services

Start 16851.5
CB 16856.9 16855.5
Chase ~~16916.9~~ ~~16866~~ 16865.5
EOS ~~17340.9~~ ~~17290~~ 17289.5
~~Chase 20023.9~~ ~~19973~~ SRF

Page___ of___

Injection Monitoring Form

chase 6259

Injection Well ID#: 57B

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1126	—	—	16851.5	start CB
1127	—	—	16855.5	end CB
1132	—	—	16855.5	start chase
1135	—		16865.5	end chase
1245	—	—	16865.5	start EOS
1310	5	1.2	16912	
1423	2	1.8	17041.5	
1553	5	1.6	17184	
1615	—	—	17217	pause EOS 172.5
2/7 0900			17217	resume EOS
0918	5	2.6	17232	
0957	5	2.6	17273	
1004	—	—	17289.5	complete EOS
1215	—	—	17289.5	start chase / extra eos
1307	5	2.5	17394	
1523	—	—	17517	cut chase off for day
2/10 0930	—	—	3576	restart chase
1030	6	2.4	3729	
1146	7	2.2	3894	
1252	10	3.3	4112	
1432	11		4432	
1532	12		4631	cut chase for day

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 57 B

Date: _____

Project Name: Eaton Selma GW RAP Implementation

Weather: _____

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: _____

Start Time: _____

End Totalizer Reading: _____

End Time: _____

Total Gallons Injected: _____

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
2/M 924	—	—	4636	resume chase
1032	5	1.9	4775	
1132	5	2	4898	
1230	—	—	4954	end chase

Solutions
Industrial & Environmental Services

7444 EOS
9658 chase

Injection Monitoring Form

Injection Well ID#: 53 A
Date: 1/20/14
Project Name: Eaton Selma GW RAP Implementation
Weather: 45° Sunny
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: 6484
Start Time: 1535
End Totalizer Reading:
End Time:
Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments	
1/20	1535	—	—	6484	start CobupH	
	1550	—	—	6535	end CobupH +51	
	1700	—	—	6596	Chase +60	
1/21	1412	—	—	6595	start EOS	
	1518	0	1.6	6682		
	1621	0	1.5	6774		
	1628	—	—	6780 *	pause EOS	
1/22	1117	—	—	6782 *	resume EOS	
	1139	0	1.6	6808		
	1229	0		6892		
	1324	0		6985		
	1415	0		7074		
	1506	0		7182		
	1557	0		7263		
	1613	—		7284	pause EOS for day	160
1/23	1103	—		7284	resume EOS	
	1120	0		7320		
	1148	0		7377		
	1212	—		~~7445~~ 7446	End EOS extra 2 gal.	
	1415	—	—	7446	start chase	
	1524	0	1.6	7472	set for % chase	
	916	0	—	9086		

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 58A

Date: 1/24/14

Project Name: Eaton Selma GW RAP Implementation

Weather: ___

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: ___

Start Time: ___

End Totalizer Reading: ___

End Time: ___

Total Gallons Injected: ___

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1007	5	4	9333	
1043	—	5	9519	cut chase

Solutions
Industrial & Environmental Services

4149 EOS
6832 chase

Injection Monitoring Form

Injection Well ID#: 5BB
Date: 1/20/14
Project Name: Eaton Selma GW RAP Implementation
Weather: 45° sunny
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: 3662.5
Start Time: 1555
End Totalizer Reading:
End Time:
Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/20	1555	—	—	3662.5	start cobupH
	1635	—	—	3667.9	end cobupH +5.4
	1700	—	—	3725.0	chase +60
1/21	1412	—	—	3725	start EOS
	1518	3	0.8	3781	
	1621	2	— 0.9 (calc)	3838	no flow @ reading
	1628	—	—	3841*	pause EOS
1/22	1117	—	—	3842*	resume EOS
	1137	4	2.0	3871.5	
	1224	4		3962	
	1324	5		4054	
	1413	4		4150	End EOS (extra gal due to)
	~~1613~~	~~—~~	~~—~~	~~4520~~	1/22/14 SRR
1/23	1413	—	—	4150	start chase
	1524	8	1.6	4200	set for O/N chase
1/24	916	4	-	5788	
	1007	13	5	6075	
	1043	—	—	6292	cut chase

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 59A

Date: 1/20/14

Project Name: Eaton Selma GW RAP Implementation

Weather: 45° Sunny

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: 13774

Start Time: 1535

End Totalizer Reading:

End Time:

Total Gallons Injected:

16948 chase

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/20	1535	—	—	13774	start CoBuph
	1546	—	—	13826.5	end CoBupH +51
	1700	—	—	13886	chase +60
1/21	1411	—	—	13886	start ~~ch~~ EOS 14934 goal
	1516	0	1.6	13993	
	1620	0	1.5	14090	
	1628	—	—	14097.5	pause EOS
1/22	1116	—	—	14097.5	resume EOS
	1134	0	2.0	14130	
	1228	0	1.9	14235	
	1323	0	2.0	14347	
	1414	0	2.4	14467	
	1505	0	2.7	14607	
	1557	—	2.4	14734	End EOS
1/23	1413	—	—	14734	start chase
	1529	0	1.6	14817	set for 2% chase
	915	0	1.6	16615	
	1006	4	2.6	16750	
	1043	—	2.8	16852	end chase

Solutions
Industrial & Environmental Services

62277 EOS
64960 chase

Injection Monitoring Form

Injection Well ID#: 59 B
Date: 1/20/14
Project Name: Eaton Selma GW RAP Implementation
Weather: 45° Sunny
Project Number: 2013.0014.EATN
Injected Material: CoBupH-Mg, EOS XR
Project Location: Selma, NC
Initial Totalizer Reading: 61789.5
Start Time: 1555
End Totalizer Reading:
End Time:
Total Gallons Injected:

	Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1/20	1555	—	—	61789.5	start Cobupit
	1635	—	—	61794.9	end Cobupit +54
	1700	—	—	61853	chase +60
1/21	1411	—	—	61853	start EOS
	1516	4	2.0	61964	
	1620	2	1.9	62083	
	1628	—	—	62090	pause EOS
1/22	1116	—	—	62090	resume EOS
	1134	3	2.0	62116	
	1228	3	1.6	62201	
	1315	—	—	62277	End EOS
	~~1415~~ SOF				
1/23	1415	—	—	62277	~~resume~~ start chase
	1529	7	1.6	62324	set for O/N chase
	915	4	1.4	63931	
	1006	9	6.5	64265	
	1043	—	6.8	64516	cut chase

Solutions
Industrial & Environmental Services

Start 5203
CB ~~5252.2~~ 5244.5
Chase ~~5312.2~~ ~~5262~~ 5254.5
EOS ~~6160.2~~ ~~6110~~ 6102.3
~~Chase 8375.2 8325~~

Page___ of ___

Injection Monitoring Form

chase 44259

Injection Well ID#: 60A

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1113	—	—	5203	Start CB
1122	—	—	5244.5	End CB initial 2 gal extra
1122	—	—	5244.5	start chase
1135	—	—	5254.5	End chase
1248	—	—	5254.5	start EOS
1312	5	1.0	5335	
1428	4	~~1.0~~ 1.2	5426	
1553	5	1.4	5538	
1615	—	—	5575	pause EOS 52.5
2/7 0900	—	—	5575	resume EOS
0914	5	3.0	5595	
0958	5	3.0	5651	
1050	5	2.8	5738	
1310	6	2.6	5980	
1350	—	—	6050	52.3 gal left
1404	—	—	6102.3	complete eos
1405	4	1	6102.3	start chase / extra eos
1520	—	—	6156	pause chase
2/11 0930	—	—	42044	restart Chase
1031	4	4.1	42511	
1149	2	3.4	42770	
1253	3	4.6	43073	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 60 A

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1432	4		43520	
1533	4		43748	cut chase for day
3/14 920	—	—	43840	resume chase
1033	0	1.9	43941	
1133	0	1.7	44067	
1230	—	—	44126	end chase

Solutions
Industrial & Environmental Services

Start 8415.4
CB ~~8420.8~~ 8419.4
chase ~~8480.8~~ ~~8430~~ 8429.4
EOS ~~8904.8~~ ~~8854~~ 885 3.4 Page ___ of ___
~~Chase 11587.8 11537~~ 5BJF

Injection Monitoring Form

Chase 17617

Injection Well ID#: 60B

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1123	—	—	8415.4	start CB
1125	—	—	8419.4	end CB
1132	—	—	8419.4	start chase
1135	—	—	8429.4	end chase
1248	—	—	8429.4	start EOS
1312	0	1.0	8486	
1430	5	0.8	8550	
1553	5	1	8613	
1615	—	—	8635	pause EOS 218.4
2/7 0900	—	—	8635	resume EOS
0914	7	2.4	8650	
0958	7	2.4	8692	
1047	8	2.2	8757	100 gal tote
X 1152	—	—	8854	Completed eos
1210	—	—	8854	Start chase / extra eos
1312	8	2.6	8942	
1520	—	—	9127	pause chase for day
2/10 0930	—	—	14934	restart chase
1031	6.5	1.1	15028	
1147	8.5	2.8	15241	
1253	9	2.8	15426	
1433	9.5		15701	

Solutions
Industrial & Environmental Services

Injection Monitoring Form

Injection Well ID#: 60 B

Date:

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading:

Start Time:

End Totalizer Reading:

End Time:

Total Gallons Injected:

Time	Pressure (psi)	Flow Rate (gal)	Totalizer Reading (gal)	Comments
1533	10		15870	cut chase for day
2/14 920	—	—	15871	resume chase
1033	6.5	2	16031	
1133	6.5	2.3	16172	
1230	—	—	16235	end chase

APPENDIX F

MONITORING WELL OBSERVATION FORMS DURING INJECTION

Solutions
Industrial & Environmental Services

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Monitoring Well Observation Form During Injection

Monitoring Well ID#: mw-3

Date: 1/20/13

Project Name: Eaton Selma GW RAP Implementation

Weather: _____

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: _____

Start Time: _____

End Totalizer Reading: _____

End Time: _____

	Time	Totalizer Reading	Water Level (ft btoc)	Visual Description	Turbidity	pH	Specific Conductanc	ORP (mV)	
	1325	—		Clear	12.8	3.3	3900	368	Baseline
	1442	—	—	water @ TOC	—			—	
1/27/14	1215	—	1.53	Clear	2.45	3.6	2.87 mS	387	end of Chase of Flow 1

Solutions
Industrial & Environmental Services

Monitoring Well Observation Form During Injection

Monitoring Well ID#: MW-4

Date: 1/20

Project Name: Eaton Selma GW RAP Implementation

Weather: _____

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: _____

Start Time: _____

End Totalizer Reading: _____

End Time: _____

	Time	Totalizer Reading	Water Level (ft btoc)	Visual Description	Turbidity	pH	Specific Conductanc	ORP (mV)	
	1310	—	7.54	Clear	12.2	3.6	3800	380	Baseline 1/20
	1515	—	0.00	SL cloudy	191	3.8	3800	350	
1/27/14	1243	—	1.79	Clear	13.58	4.4	1550	382	End of day of Phase I

Solutions
Industrial & Environmental Services

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Monitoring Well Observation Form During Injection

Monitoring Well ID#: mw-8

Date: 1/20

Project Name: Eaton Selma GW RAP Implementation

Weather:

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: —

Start Time:

End Totalizer Reading: —

End Time:

	Time	Totalizer Reading	Water Level (ft btoc)	Visual Description	Turbidity	pH	Specific Conductanc	ORP (mV)	
1/21	1305	—	1.17	clear	36.4	4.4	1100	383	Baseline 1/20
	1339		above TOC	clear					- instructed to cap well by JF
1/22	1035		Still -	H_2O above TOC					
	1520			H_2O above TOC					
1/23	1130			H_2O to TOC, kept cap on					
1/22	1250	—	1.38	clear	3.13	4.9	800	359	end of Phase 1

Solutions
Industrial & Environmental Services

Page___ of ___

Monitoring Well Observation Form During Injection

Monitoring Well ID#: mw-18

Date: _____

Project Name: Eaton Selma GW RAP Implementation

Weather: _____

Project Number: 2013.0014.EATN

Injected Material: CoBupH-Mg, EOS XR

Project Location: Selma, NC

Initial Totalizer Reading: _____

Start Time: _____

End Totalizer Reading: _____

End Time: _____

	Time	Totalizer Reading	Water Level (ft btoc)	Visual Description	Turbidity	pH	Specific Conductanc	ORP (mV)	
	1320	—	1.56	clear	11.6	3.4	3600	372	Baseline 1/20
	1522	—	0.00	sl- cloudy	44	3.7	3500	353	
1/27/14	1253		1.64	Clear	3.83	4.0	1670	386	End of Check of Phase I

APPENDIX G

PHOTO LOG

Appendix G –Photo Documentation

Photo 1 – Location of baker tank staging area during Phase 2 injection (looking east)

Photo 2 – Delivery of EOS XR to the site.

Photo 3 – Staged CoBupH-Mg on site (looking west).

Photo 4 – Pre-injection groundwater monitoring.

Photo 5 – Mobile injection of CoBupH-Mg into a well grouping (looking north).

Photo 6 – Extensive water on site during most of the injection (looking east)

Photo 7 – Breakthrough experienced at IW-20A/B during an overnight chase of nearby wells.

Photo 8 – Runoff water with diluted EOS XR in drainage ditch due to runoff into the storm water drain (looking east)

Photo 9 – Removal of drainage water via vac-truck (looking south)

Photo 10 – Drainage ditch after removal of dilute EOS XR runoff and containment berms (looking east)

Photo 11 – Storm drain after cleanup of EOS XR/chase water breakthrough near IW-20A/B.

APPENDIX H

FIELD NOTES

1/24/14 Phase II D. Bowden G. Fuller J. Arnold

830 Depart office

940 on-site. Hold H&S meeting + Begin setting Stinger tubes, taking monitoring well readings + plumbing for injection. Hydrant = 182892

1430 Plumbed + passed pressure test begin batch at Co-Bright
50 gal 250 gal
~~80~~ gal copper - ~~400~~ gal H_2O
Tot - 300 gal copper/H_2O

1530 Start Co-Bright injection into 53 AB 55 AB, 58 AB, 59 AB
Q ~ 2-3.5 gpm

1635 Copright + chase into A/B wells listed above

1715 39A, 39B, 40B, 24B Copright + Chase Complete. Begin draining Lines

1745 Steve, Sean, + Clay off site to Raleigh
Dave Bowden off to hotel

1/21/14 Delmar Phase II injection D. Bowden G. Fuller J. Arnold 32°-clear

7:15 Arrive on-site. Meet D. Bowden. Begin re-plumbing Lines that were drained + disconnected

745 Clay + Steve on-site. H&S H&S meeting + plume set-up

80 gal Copper - 400 gal H_2O mix
= 480 gal mix

14 gal 80 H_2O = Batch 2 (94 Tot)

925 Begin Co Bright into 45, 48, 49, 51 A+B

950 Begin chase for Above wells

1010 Begin filling tot for 37, 22, 35, 20 A+B

1130 CB chase complete. Plumb up CB to 24A, 40A,

1215 chase complete

1/21/14

1245 Begin mixing 1st batch of EOS
H_2O' max = 50 gpm
starting H_2O' = 405 gall

Add 400 gal H_2O + 80 gal EOS

EOS meter - start 13555
MAX EOS Flow ≈ 8 gpm

1300 Complete 480 gal EOS mix

1400 Start injecting EOS across street (wells in front of Bldg) ≈ 1.5 gpm per wells will wait to check MW 4, 8, 18 when injecting on other side

1435 mix additional batches of 50 gal H_2O - 10 gal EOS to keep tank full

1440 Start EOS on other side of ROAD

600 mix ratio 50 gpm / 10 gpm
ratio mixing Tester

1/21/14

1505 Water coming out of injection well 39
MW-4, MW-18

1550 EOS meter 585 gal
H_2O meter 2945 gal
} 5.03 Dilution

1620 END EOS meter = 14311
END H_2O meter = 4200

1630 Ran 150 gal H_2O through lines to flush out EOS.

1715 hooked up 30 gpm pump to re-circulate EOS in Baker tank. will refuel @ 9 pm.

1730 off-site for day

/14 Selma - Injection D. [illegible] S. Parish D. Bowden C. Fuller 26°

7:15 Refuel vehicle,

730 Arrive on site w/ S. Jarrah & D. Bowden
Review HASP, replace meters.
EOS is still pumping. Generator was off when D. Bowden arrived.
Refueled + re-started generator. No ice visible on EOS. Some foam/bubbles on top (≈ 1/2" thick)

1000 Tried to use blow-torch to thaw out hydrant meter. Disconnected meter & put in truck to thaw.
All wells plumed for injection. All 4 monitoring well WL is above TOC + we will not monitor further during injection. Continue to re-circulate EOS while waiting for hydrant meter to thaw.

10:45 H_2O - 4350
EOS - ~~14312~~ 55 (18023) - see next page
hydrant 189617
(not flowing shown)

1/22/14 Selma Injection

1150 Add 400 gal H_2O (4750)
80 gal EW (~~14392~~) 18103

* New totalizer for EW meter b/c old one is frozen (18023)

1110 Begin EW injection after bleeding hoses.

1230 Added new meters in line at 4 well points b/c original meters were not registering flow due to ice

1235 * Filled up generator w/ fuel

1300 EW meter = 18855
H_2O meter = 8425
1/4.9

gal
832
407

1310 Swam off site for lunch

1400 Picked up 135K BTU heater + Diesel + Sat JJ on-site

1/22 Fri

1405 IN, 20, 37, 40 = EOS coming up around well dat - jacket over. Will reduce flow + empty vault as necessary

1530 Started heat (set to 110°F) under BAKER TANK. Original temp = 48°

1600 EOS = 19922 (1,899 pumped)
H_2O = 14000 (9650 pumped)

$= \frac{1899}{9650} = 5.08$

@ Run additional 100' through line to flush out EOS.

1610 Begin breaking down equipment for night

1700 Generator 1/2 FULL (4.5 hrs)

1/22 Fri

left 5 gal bucket of EOS to see if it will freeze. Let generator + heater run until Grid / Deck 1 and out

Also still 45° Exterior temp is 30°F.

Changed up generator + heater to BAKER TANK.

1715 TOT AMT of H_2O used today ~~9800~~
9800 gal + 6725 (yesterday) =
16525 TOT H_2O used

1730 off site for day

- un-hooked All Fittings, meters + hoses over night. Brought Heat tank home to thaw.

1/23/14 EBMun Solar injection S. Jones C. Fossell D. Bowden S. Fahey

20° clear

7:30 S.J Arrive on-site. Bucket of EOS left outside does not have any Ice on it + has not separated. Generator + heater are off. Begin setting up for day

7:45 D. Bowden on-site EOS = 40° (Bucket = 28°)

8:30 C. Fossell + S Fahey on-site. Work on chipping Ice from Fittings

H_2O - 14160
EOS - 19922

9:50 Add 400 gal H_2O (14500) + 80 gal EOS (20002)

10:45 Start EOS injection after thawing out 2 pumps + removing Ice from 2" Lines (≈ 20 gpm out of Tank)

1/23/14 "

11:28 IW-20A showing daylighting around well pad, cut feed with 116 gallons left.

11:30 EOS meter = 20172 = 250 gal
H_2O meter = 15400 = 1250 " } 4.96

EOS 45° F

1:15 EOS coming to cover well pad of IW-20 cut off for a while. Same problem with IW-40A. Will set flow at a low rate, + will put what ever amount of EOS that still need to be injected in 40A into other A wells.

1:30 EOS = 20775 = 453 gallons
H_2O = 16430 = 2270 gal
= 5.01

330 gal mix left in tank

1:40 Begin Adding B-12 to wells

1/23/14

1410 All wells complete w/ ECS Except 40 A. will start chase on All wells Then resume injection on 40A. May gravity drain remainder over weekend.

Will run ≈ 1000 gal of chase H_2O through Tot + pump to flush lines
– Starting H_2O meter = 16430

1415 Begin chase from tote ≈ 1.5 gpm per well
End H_2O meter 17430

* will NOT chase IW-20 overnight b/c water coming into vault

H_2O Totalizer 1 (Bldg side / West side)
= 490

H_2O Totalizer 2 (Tree side / EAST side)
410

1/23/14

1510 All wells running off hydrant & chasing at 1.75 gpm except 40A not hooked up + 40B is running at .75 gpm.

~~1600~~

1600 20 A+B NOT running due to break thru
35A running at .75 to prevent possible break thru. 55A ≈ .5 gpm

left pumps + space heater inside trailer to prevent freezing + have torpedo heater running under Baker tank Currently 46°

1630 off-site for day

3270 H_2O used before chase
16525 used prior
19795 H_2O used to FAT

(will add 2 totalizer #'s to new sheet today)

1/24/11

S. Mann
C. Fuller
J. Fahlne
D. Sardo

15°

730 SJ Arrives on-site + check water

Break Thru of EOS all around IW-20. IW-20 was not flowing over night. 3' Area between Storm grate + IW-20 pooling with ≈ 2" EOS. Stopped flow at nearby check wells 35 A/B, EOS made it down storm drain to catch near MW-18. Did not cross street or flow to outside of main entrance. All shut off flow to 37 + 22 because Back pressure was still causing EOS to come out of 35 A/B manifolds. Put sand bags around IW-20

EOS - 42° - Not frozen

800 D Sardo on-site

1050 Water is at top of casing at all IW's and MW's on north side of driveway. Water is coming out around the majority of well pads on this side. The North side was cut off completely and lines drained to prevent freezing. On south side, IW 45A/B and IW 48A/B cut due to Breakthrough near IW46 well pad. other southside wells remain on.

941 H_2O Totalizer 2 = 15165
(stopped) Tot 1 = 33085

1043 cut all IW chase off due to breakthrough around wellpads / vaults of IW 56, IW 57.

H_2O^1 TOT 32595 pumped
H_2O^2 TOT 14755 pumped
47350 + 19795 = 67145

Used AWO

1/24/14 Eaton Elmira

1230 Disconnected All Flow meters
Drained them + hoses + stored
flow meters in Truck.

1300 EOS contain w/ to 3'x3'x2'
sump area infront of storm drain
in ditch.

1325 off-site for day

1415 Arrive At office

1/27/14 Eaton Elmira

J. Stout
C. Ewell
S. Foster
A. Mostert

7:30 Depart office

8:30 Arrive on-site. Hold H+S meeting
Andy begin PH + TD coating
OF begin switching stringer +
S.J + SF begin plumbing

CoBopH totes = 17, 19, 21, 23, 34, 36, 38
= 257.4 gal CoBopH + H_2O
= 51.5 CoBopH / 206 gal H_2O

H_2O - main meter = 15,165 gal
H_2O Fill TOF meter = 17430

1:00 258 gal CoBopH mixing in tote

* measured solids in bottom of Drum
of CoBopH is ≈ 6" then slightly frozen
drum. ≈ 3" in drum left over from last week

1250 H_2O visible in storm drain gate is clear,
still milky in ditch

1/27/14

1500 Co-Bop H complete tchart

Fill TOT meter = 17660
H_2O MAIN = 16355 } 1190 used

EOS - 42°

TD 22A = 19.32 22B - 29.81
TD IW4PA = 17.96 IW4PB = 29.85
TD IW55A = 19.92 IW55B - 29.81

1530 off-set & dec

68,335 gal. H_2O used

1/28/14 Eaton

710 Depart office

745 pick up 6 bags bentonite + plywood to build berm

1000 on-site w/ EVU Tanker. Mostly clear acroll cond. Pumped out directly from smaller storm drain

1045 Pumped out large pool + most of small pool directly infront of storm drain. Pumped 1,100 gal.

1100 Built 2 berms infront of two small storm drains to prevent oil from crossing street. Built large berm acroll creek to prevent flow down stream

1130 Took photographs, EVU off-site + Built small berm to contain 3'x3' pool.

1300 Arrive at office

S. Stark

1/29/14 Eaton Schra 20° Snow

7:00 Depart WF ≈ 2-3" Snow

8:30 Arrive on-site. Set up generator + pump + heater. EOS not frozen

9:15 Pick up fuel for generator + heater.

9:35 Pump frozen, begin to thaw w/ heater

10:00 Connect smaller pump while larger pump is re-circulating EOS.

10:30 Pick up additional Diesel for heater 16.10 X 2 TOTAL

11:00 Hooked up larger pump to circulate EOS + cleared snow off of all lines + meters

13:00 Disconected pump + drained + stored. Topped off generator + heater

13:15 Off-site for de

14:30 Arrive in WF

1/30/14

S. Stark
A. McMillan
S. Fahr

9:00 Depart office

9:15 Arrive on-site Review HASP. Sent A.M off site for Diesel + gas + begin warming up pumps

10:30 Vac Truck on site for EW to drain large poly tank

11:45 Filled batch of EOS 400 gal H_2O 88 gal EOS + will recirculate. (H_2O start = 16355)

12:15 Added 200 gal H_2O 40 gal EOS
H_2O main = 17100
EOS = 20585

12:30 Start cont. mix 50 gpm H_2O 10 gpm EOS mix

(*) only injecting into 10 well due to 2 person staff

1/30/14

1245 Started 23 A+B + 38 A+D
(@ ≈ 2gpm)

1300 S. Farley on-site. Ditch is clear + Storm drain is clear. TOOK photos

1320 EOS 38°

1340 H_2O 18680 − 17100 = 1580 (start)
EOS 20901 − 20585 = 316 = 5 !!

1355 WL is TOC in 4 monitoring wells

1430 EOS = 44° ⇒ 40°
H_2O = 20000 EOS = 21166
= 1320 265
= 4.98%

1500 Some signs of breakthru - on side of Boiler Tank, away from road, closest to entrance. Small Puddle ≈ 2'x4' No IW'' in area South of IW-24

1/31/14

1600 H_2O = 21800 − 17100 = 4700 (current, start)
EOS = 21525 − 20585 = 940 } 5%

Amount of EOS to inject tomorrow range from 275 → 580 gal on "A" wells.

1615 Shut down for day, drain lines

1700 off-site for day

4700 gal of H_2O used today
73,035 used total

S. JAVAR
A. McFARLAND
S. FARING

Eaton Selma

7:00 Pick up fuel for generator

7:20 Arrive on-site. Review HASP +
Begin plumbing for day
EOS = 33° - Start recirculation

800 S.F + A.M^c on-site. Review HASP

840 Begin mixing 1st Batch 400/40
H_2O Start 21800
EOS Start 21525

1000 Started injection on A wells

		Start	Start		
1050	EOS	21725	21525	200	= 5%
	H_2O	22800	21800	= 1000	
	EOS	39°			

1100 Add B-12 to 23A+B 50 ~~Begin chase 23 A/B~~

1100 Some break-thru near storm grate.
Bailed w/ Bucket, none in drain.
≈500 gal more EOS needed.

1/31/14 Selma injection

1240 400 gal left to inject (start)
Final H_2O for mix = 23730 − 21800 = 1930
Final EOS for mix = 21911 − 21525 = 386
5% 386 × 5 = 1930 :)

1315 EOS 43°

1400 Start chase on A wells with
ADD B-12 on mixing

26950 − End main H_2O
23730 − START CHASE
3,220 TOTAL CHASE
+ 1930
5150 used Today (gal H_2O)
+ 73035
78185 TOT H_2O used

1530 Stop chase + brake down for wkd

1630 off site for day

2/3/14 Eaton Selma chase S. Jones, G. Fuller, Randy

800 Depart office

850 Arrive on-site. Review HASP + begin set up for chase + Bold B-12 to well

930 Start chase, S.J off site for fuel

955 Begin recirculating EOS in Bake Tank
EOS 58°F
H_2O START - 26,950

1015 EOS in vault 1 IW-23, 21, 34
(Fixed Leak in 34)

1020 H_2O in vaults of IW-36, 19

1050 Bailed out vaults + tightened Fittings
Slow flow rates for above vaults

1250 Reduced flow in 19, 21, + 34 due to EOS break-Thru near Storm drain
No EOS in drain at this time

1330 Rain Stopped

2/3/14 Eaton Selma Phase II chase

1350 Further reduced flow in 19, 21, 34 AND due to break-thru near storm drain

1410 Cut off 19, 21, 34, 36 due to continued break thru at cook between IW-20 + storm gate. Shut off IW-36 as well due to proximity to storm-drain

1500 Cloudy, Surface H_2O break thru near MW-4, on side of Bake tank. Noticed last week during injection. ≈ 3" deep 10' x 10' area. Reduced flow in IW-38 + 23

1510 Water coming out of vaults of IW-16 + IW-32. Reduced flow to IW-17 in area

1520 Shut off - IW-17

End H_2O 39450 (12,500 used today
78185 previous
90,685 TOTAL

1540 Shut down chase for day. Clean up equipment

1600 off site for day

1645 Drive at home

2/6/14 Eaton Lehner S. Jaman S. Farlin A. Mitchell 35°

7:15 Depart office, pick up general

800 Arrive on site. Review HASP. begin Set-up

H_2O meter 39450

- Bkd Air out = 39475

920 Due to CoBupH-Mlg settling in drum, short 12.8 ~~pure~~ gal pure material. mixing 60 gal with 300 gal H_2O, will cut 7.7 gal from A wells and 1 gal from B to distribute diluted material.

1000 Begin Co-Bupt injection

150 Had to change pump to pump EOS due to lower head in Baker Tank. Max new flow: 6 gpm. mix is 6/30 EOS/H_2O

2/6/14 Eaton

1240 mixed 480 tot gal EOS/mix

H_2O = 40435
EOS = 21992

1 20 Pump is down to 4 gpm out of Baker Tank = 24 gpm max pumping rate of EOS mix to wells

1325 (current) { ~~41160~~ 41200 H_2O = ~~1225~~ 765 = 4.9%
{ ~~22137~~ 22148 EOS = ~~156~~ 150

1450 H_2O 42775 = 2340 pumped = 5.02%
EOS 22458 466

≈ 1.5 cf EOS in Baker Tank

1600 Only pumping at 2.2 gpm out of Baker Tank. Cut for day
H_2O = 43900
EOS = 22685
≈ 12" EOS in Tank

(*) Flushed out Pump & Lines
Final 44125

2/6/14 Eaton Selm

1715 Depart Site. All hoses + meters are flushed + drained. Removed All meters + hose from North Side of property to Stage in Shop. Removed tote to Store in Shop

1800 Arrive in Raleigh. Will demobe hotel, tote + central generator in Am.

Final H_2O = 44125 = 3690 used
+ 90685
94,375 used

7:00 Depart office. Return generator + Supplies

8:00 Arrive on-site. Review HASS + det y for injection

8:45 Begin mixing 400/80 gal Batch using 3 pumps for recirc. (Drum, Submersible, 2")

9:05 Batch complete. Start injection

9:20 Mix 2nd Batch 400/80

9:35 Batch complete - resume injection

9:45 Begin Batch 3 400/80

9:55 Begin injection, C. Fussell on-site
Steve Farling off-site

10:10 Batch 4 / resume
pH at Hydrant 7.47

10:20 resume injection

2/7/14

1035 Begin Batch 5 400/80

1045 Resume injection

1100 Batch 6 400/80

1115 Resume injection, And to start over/fit

1130 Batch 7 400/80

1140 Resume injection

150 Batch 8 400/80

1200 Will use extra EOS + continue making batches tues as chase down wells

8.5" of EOS in TANK

1200 Begin 5 gpm EOS to 25 gpm H_2O mix

1230 6" of EOS at end of Baker TANK

1300 Pumping at ≈ 4 gpm EOS / 20 gal H_2O

1330 Stop to mix batch. ≈

2/7/14

1400 Baker TANK empty

H_2O - 50400

1600 Baker TANK Cleaned out. Totalizers Switched out for chase. B-12 + remove Stingers on monday. Cleaned + removed conicle tank. All lines All acidated w/ EOS injection removed.

1725 Arrive at office to demob

2/10/14 Eaton Selma S. Farley A. McMillan

0715 depart office

0800 Arrive on site, conduct H&S, begin removing stringers.

930 Finish manifold scrap, added B-12, begin chase.

Start meter reading: 50455

1150 Begin pH/ORP readings for phase 2 wells. not doing wells south of driveway.

1240 IW39, IW40 influence from south of street, water coming out of well; not sampled.

1345 small amount of Breakthrough near IW47, 48, 50. Cut IW47, 46.

1405 Breakthrough seemingly stopped.

2/10/14 Eaton Selma S. Farley A. McMillan

1420 roll-up and packing of stringers complete. Begin to pack trailer up.

1530 cut chase to allow wells back pressure to reside, begin draining lines.

Totalizer water reading: 65450

1630 All lines drained, 2 manifolds still with water will bring extra manifolds incase of breakage on Friday, Depart site.

1730 Back at office for day.

2/14/14 Eaton Selman S. Farley A. McMillan

0700 Pack truck, head to site.

0900 Arrive at site, conduct H&S meeting. Begin hooking up chase lines.

0915 lines hooked up.
Initial Totalizer reading: 65450

1015 pH, ORP, turbidity, cond, visual, water level measurements taken from MW-4, MW-8, & MW-18. MW-3 water level over flowing. Could not collect MW-3 Sample

1200 cut chase to allow WL in wells to resiche.

Final totalizer: 69525

1315 clean-up complete, wells capped, vaults closed. depart site to office

1445 Arrive @ office

2/14/14
SRF