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SAILORS ENGINEERING ASSOCIATES, INC.
1675 SPECTRUM DRIVE • LAWRENCEVILLE, GEORGIA 30043 • TEL (770) 962-5922 • FAX 962-7964

April 12, 2012

Mr. Greg Gilmore
Response and Remediation Program
2 Martin Luther King, Jr. Drive, S.E.
Suite 1462, East Tower
Atlanta, Georgia 30334-9000

RE: Spalding Corners Shopping Center
7700 Spalding Drive
Norcross, Fulton County, Georgia
HSI #10639

Dear Mr. Gilmore:

In accordance with the October 12, 2010 Voluntary Remediation Plan Approval Letter, Sailors Engineering Associates, Inc. (SEA) appreciates this opportunity to submit this 3rd Semi-Annual Progress Report on behalf of Selig Enterprises, Inc. for the Spalding Corners Shopping Center Site, HSI #10639 located in Norcross, Fulton County, Georgia.

If you have any questions or need additional information, please contact us at (770) 962-5922. We look forward to working with you on this project.

Respectfully submitted,

SAILORS ENGINEERING ASSOCIATES, INC.

Michael J Haller, P.G.
Manager, Environmental Engineering

w/enclosures
cc: Mr. S. Kevin Curry, Selig Enterprises, Inc w/enclosures

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VRP 3rd SEMI-ANNUAL PROGRESS REPORT SPALDING CORNERS SHOPPING CENTER 7700 SPALDING DRIVE NORCROSS, FULTON COUNTY, GEORGIA HSI #10639

SEA JOB #102-063

SUBMITTED:
April 12, 2012

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CERTIFICATION

I certify, under penalty of law, that the electronic copy is complete, identical to the paper copy, and virus free.

4/12/2012

Date

Michael J. Haller, P.G.
Project Manager

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VOLUNTARY INVESTIGATION AND REMEDIATION PLAN CERTIFICATION

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

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

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

Michael J. Haller, P.G #1062 — April 12, 2012

Printed Name and GA PE/PG Number — Date

Signature and Stamp

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1.0 INTRODUCTION

1.1 Purpose

The purpose of this Third Semi-Annual Voluntary Remediation Program Progress Report is to discuss the current site conditions and any actions taken since the initial Voluntary Remediation Program (VRP) application, the VRP 1st Semi-Annual Progress Report and the VRP 2nd Semi-Annual Progress Report.

1.2 Background

The VRP application (the Application") submitted for Spalding Corners Shopping Center located at 7700 Spalding Drive in Norcross, Fulton County, Georgia; HSI #10639, dated May 10, 2010 was approved on October 12, 2010. As discussed in the Application, Monitored Natural Attenuation (MNA) with additional In-Situ Chemical Oxidation, as necessary, were identified as the most likely remedial approach for this site. To determine whether MNA is appropriate, Sailors evaluated historical data, including prior remediation efforts, conducted additional testing, and commenced efforts to evaluate appropriate models to demonstrate compliance with applicable risk reduction standards ("RRS"). The first semi-annual sampling event occurred in March 2011. The VRP 1st Semi-Annual Progress Report was submitted on April 12, 2011 and the VRP 2nd Semi-Annual Progress Report was submitted on October 12, 2011. The EPD review letter with comments dated March 6, 2012 was received after the commencement of the third semi-annual sampling event. A letter in response to the EPD comment letter has been prepared and submitted concurrently under separate cover.

1.3 Summary of Results

The sampling conducted during the first six months suggested that the horizontal extent of the plume is confined to the VRP Property. Further, that sampling coupled with analysis of existing data and initial fate and transport modeling efforts show that soil and groundwater conditions at the site are in compliance with applicable risk reduction standards taking into account a hypothetical point of exposure to groundwater 1000 feet from the VRP Property. The second six month monitoring period reaffirmed the previous monitoring period's results. However, the current sampling event, the third six month monitoring period, indicated that downgradient wells MW-6S and MW-21S are impacted. During the next reporting period, SEA will evaluate whether the hydrological barrier presented by crooked Creek is sufficient to obviate the need for any further horizontal delineation, or if additional sample points are appropriate.

2.0 SEMI-ANNUAL GROUNDWATER MONITORING EVENT

A total of 16 monitoring wells, two seep water locations and one wetland area well point were sampled as part of the third semi-annual sampling event. These locations represent centerline wells, down-gradient wells and sample locations, and select upgradient and side-gradient wells. The wells along the centerline of the plume were used to determine the strength of evidence for biotransformation by collecting MNA indicator parameters in addition to the volatile organic compound analysis samples from all chosen sampling points. Due to the seasonal drought, two

of the sampling locations contained too little water for low-flow purge sampling or were dry.

The groundwater monitoring wells were purged using a precleaned submersible bladder pump or peristaltic pump. Parameter stabilization was used to determine when the well had been adequately purged prior to sampling.

2.1 General Approach and Procedures for Sampling

Samples were collected in general accordance with published protocols including USEPA Region 4 Science and Ecosystem Support Division Field Branches Quality System and Technical Procedures, and Standard Operating Procedures, Soil Sampling (USEPA, 2007). Following well development or purging, a groundwater sample was obtained from each well using either the straw method or a clean disposable bailer. Seep water samples are usually collected using a peristaltic pump. Seep water sampling location SW-1 and wetland well point location SW-4 were dry and could not be sampled. VOC samples were collected in laboratory supplied 40-ml sample vials preserved with HCL. A Teflon®-lined cap was placed on the vial, and the vial was inverted to ensure zero headspace. The MNA parameter samples were collected in laboratory supplied containers. The samples were immediately packed in ice and transported to the analytical laboratory under chain-of-custody procedures. Copies of the well purging logs are included in Appendix 3. Copies of the laboratory data sheets are included in Appendix 5.

2.2 Results

The results of the March 2012 monitoring event indicate that little change has occurred since the September 2011 sampling with a few notable exceptions. Slight increase in PCE concentrations were detected in MW-6S, MW-16S, MW-17S, and MW-21S. The presence of VOCs in MW-21S, a previously unaffected monitoring well located at a downgradient location, was not detected until this period. PCE concentrations of 0.041 mg/l and 0.035 mg/l were detected in MW-6S and MW-21S, respectively, the downgradient wells near River Exchange Drive. PCE concentrations decreased slightly in MW-5S, MW-10S, MW-14S, MW-15S, MW-18S and MW-20S this period. VC was not detected in the groundwater samples collected from any of the selected sampling locations this period. Also, chloroform, cDCE and TCE were detected at three sampling locations at very low concentrations. Chloroform was detected in MW-17S at 0.0080 mg/l, cDCE were detected in MW-16S and MW-20S at 0.0050 mg/l and 0.0062 mg/l, respectively, and TCE was detected in MW-16S at 0.0072 mg/l. The PCE concentration detected during the September 2011 sampling in MW-14S was no longer present and might be attributed to a blockage in an adjacent sanitary sewer line and a temporary change to the groundwater flow in that area. Current and Historic laboratory summaries are included in Table 1 and Table 2, respectively, of Appendix 2. Historic Groundwater and Seep Water PCE Trend Graphs are included in Appendix 6

2.3 Monitored Natural Attenuation Evaluation

The natural attenuation mechanisms active at the site include both biological transformation and non-biological attenuation. Both mechanisms are responsible for the attenuation of the plume at this site. In order to determine the contribution from biotransformation, the Natural Attenuation

Screening Protocol portion of the BIOCHLOR model was used to evaluate individual wells. Based on the scoring method used in the worksheets, limited evidence of anaerobic biodegradation was seen in downgradient well MW-20S. The vertical delineation well and unaffected well, MW-1D, also showed limited evidence of reductive dechlorination according to the worksheet for this well. The worksheets indicated inadequate evidence of reductive dechlorination was shown in the "source well", MW-15S, and in downgradient wells MW-16S, MW-18S and MW-19S. The historically upgradient well, MW-14S, also showed inadequate evidence of reductive dechlorination. SEA interprets the results in MW-20S, where nutrients were injected into the soil and groundwater through the BioNet system in 2006, to indicate that conditions are favorable for reductive dechlorination. SEA interprets the results in MW-16S, MW-17S and MW-18S, where a chemical oxidation product (sodium persulfate) with an alkaline (NaOH) activator was injected into the groundwater in the vicinity of MW-16S in 2008, to indicate that conditions are not favorable for reductive dechlorination. The Natural Attenuation Screening Protocol worksheets are included in Appendix 4. Copies of the well purging logs and laboratory data sheets are included in Appendix 3 and Appendix 5, respectively. Table 4 and Table 5 are current and historic tabular summaries, respectively, of the parameters tested with the results and a scoring summary for each of the site monitoring wells. Historic laboratory summaries are included in Table 2 of Appendix 2. A Site Plan depicting the sample locations and Isoconcentration Maps for PCE, TCE, cDCE and Chloroform have been included in Appendix 1.

Based on the results of the biotransformation evaluation, dispersion and dilution are the primary mechanisms responsible for the natural attenuation at the site, and biotransformation is occurring along the edge of the plume.

3.0 Planned Activities

Semi-annual monitoring will continue for this site.

4.0 Conclusions and Recommendations

As discussed in the MNA summaries of the first and second semi-annual progress reports, the groundwater plume at the site generally exhibits Type 3 behavior because there are limited PCE breakdown products, low concentrations of carbon and aerobic conditions exist. The lower portion of the plume exhibits limited Type 2 behavior, but a significant carbon source is not present. With the exception of an area in the lower portion of the plume, an aerobic environment exists in the groundwater that is unlikely to support reductive dechlorination. However, when coupled with the modest advancement of the down gradient edge of the plume predicted by initial modeling presented in the first semi-annual progress report, the rate of biodegradation is adequate to avoid impact to a hypothetical groundwater receptor 1000 feet from the site. Further, the presence of Crooked Creek as the groundwater discharge point for this site will prevent impact of the hypothetical groundwater receptor 1000 feet from the site

Additional monitoring will be performed to calibrate the fate and transport model and to verify model predictions.

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6 – cDCE Isoconcentration Map
7 – Chloroform Isoconcentration Map

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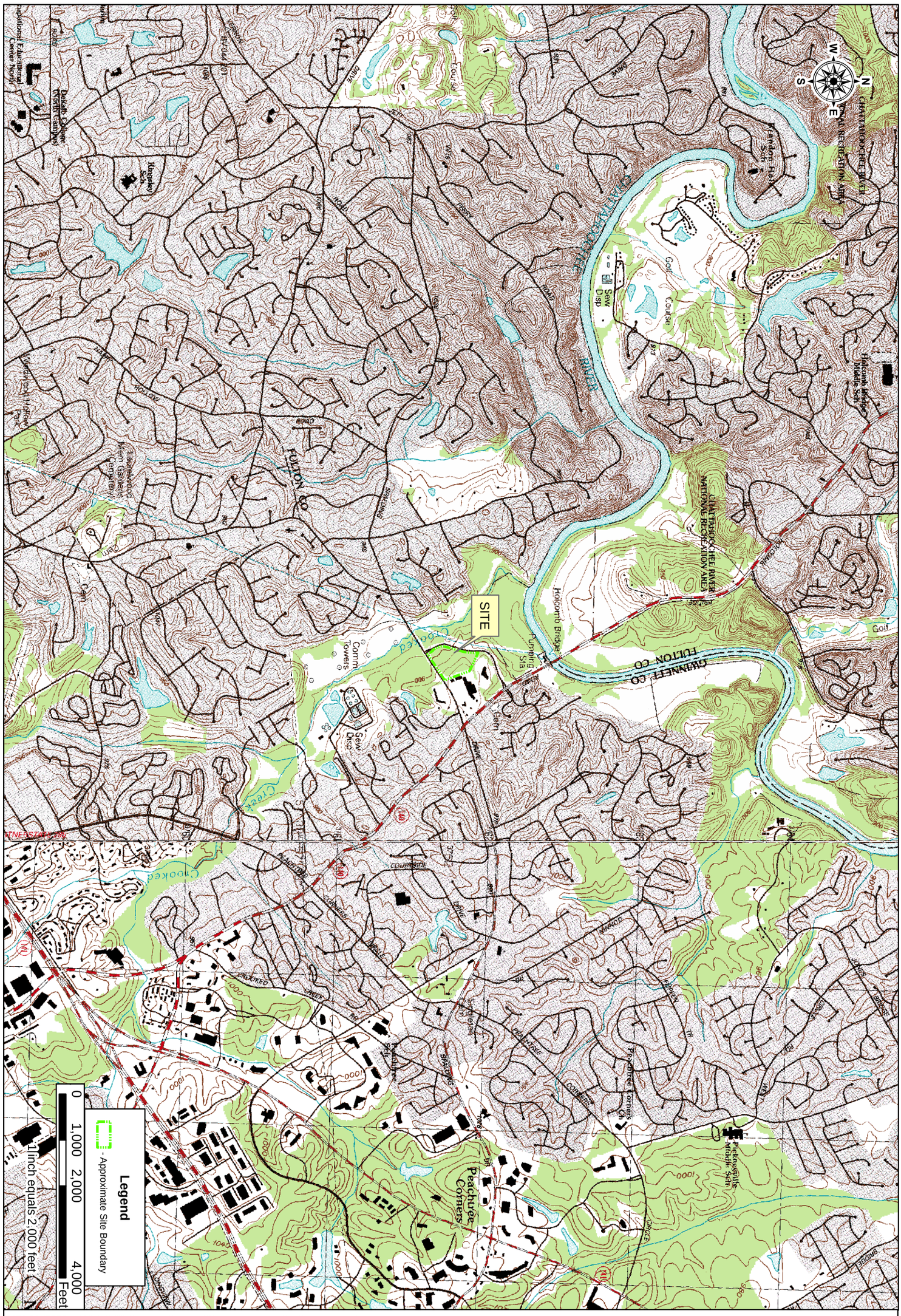
Appendix 7 Summary of Services and Professional Hours

APPENDIX 1

FIGURES



DATA SOURCES: - 1993; 1:24,000 Chamblee, Georgia USGS 7.5' Topographic Map Quadrangle courtesy of ***TopoZone***

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AREA PLAN

Figure 1

SPALDING CORNERS SHOPPING CENTER

7700 Spalding Drive
Norcross, Fulton County, Georgia

Job No. 102-063

SEA-2203

DATA SOURCES: - 2009 aerial photography courtesy of ***Gwinnett County GIS Department***

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SITE PLAN

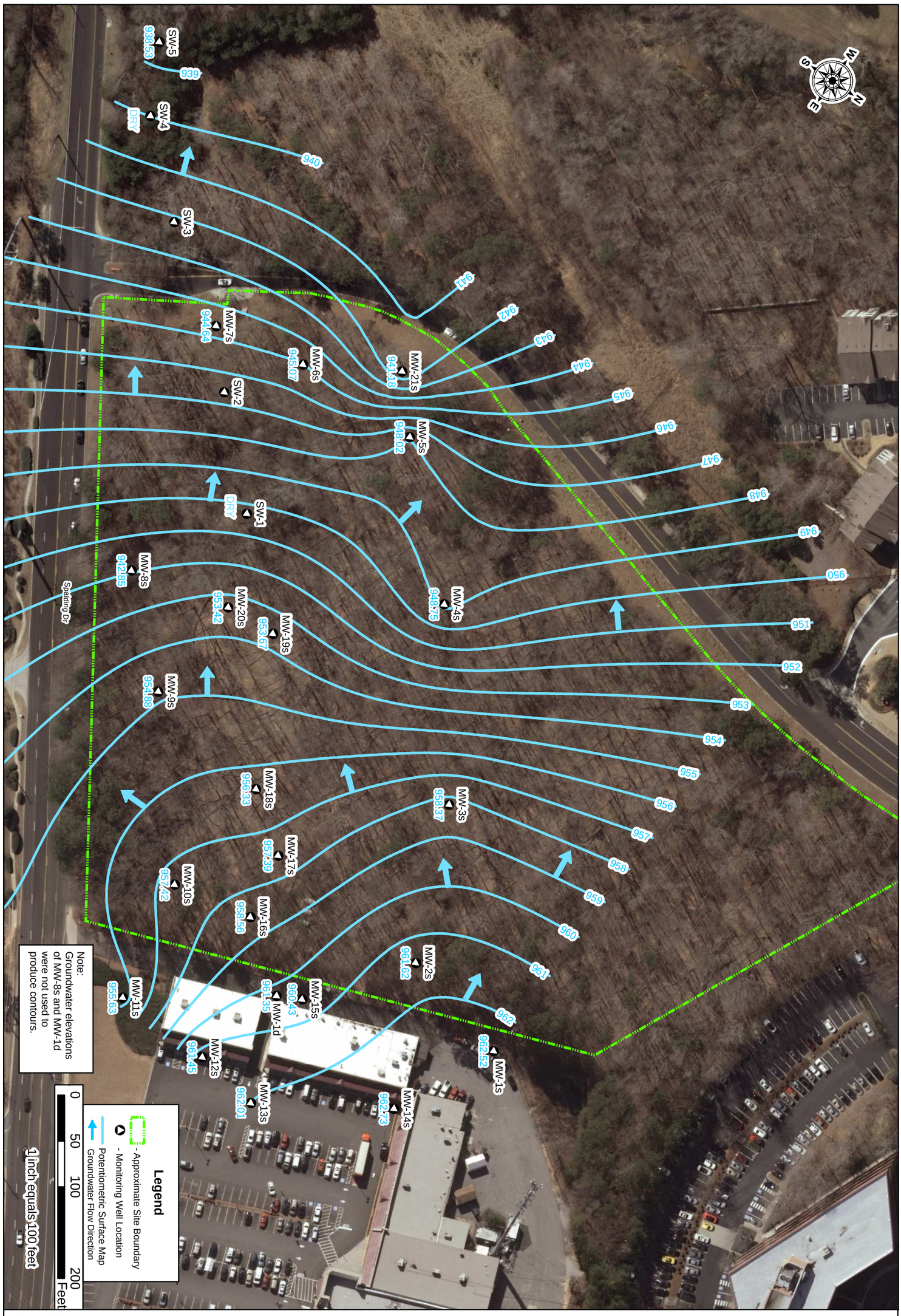
Figure 2

SPALDING CORNERS SHOPPING CENTER

7700 Spalding Drive
Norcross, Fulton County, Georgia

Job No. 102-063

SEA-2203



DATA SOURCES: - 2009 aerial photography courtesy of ***Gwinnett County GIS Department***

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POTENTIOMETRIC SURFACE MAP

March 12, 2012

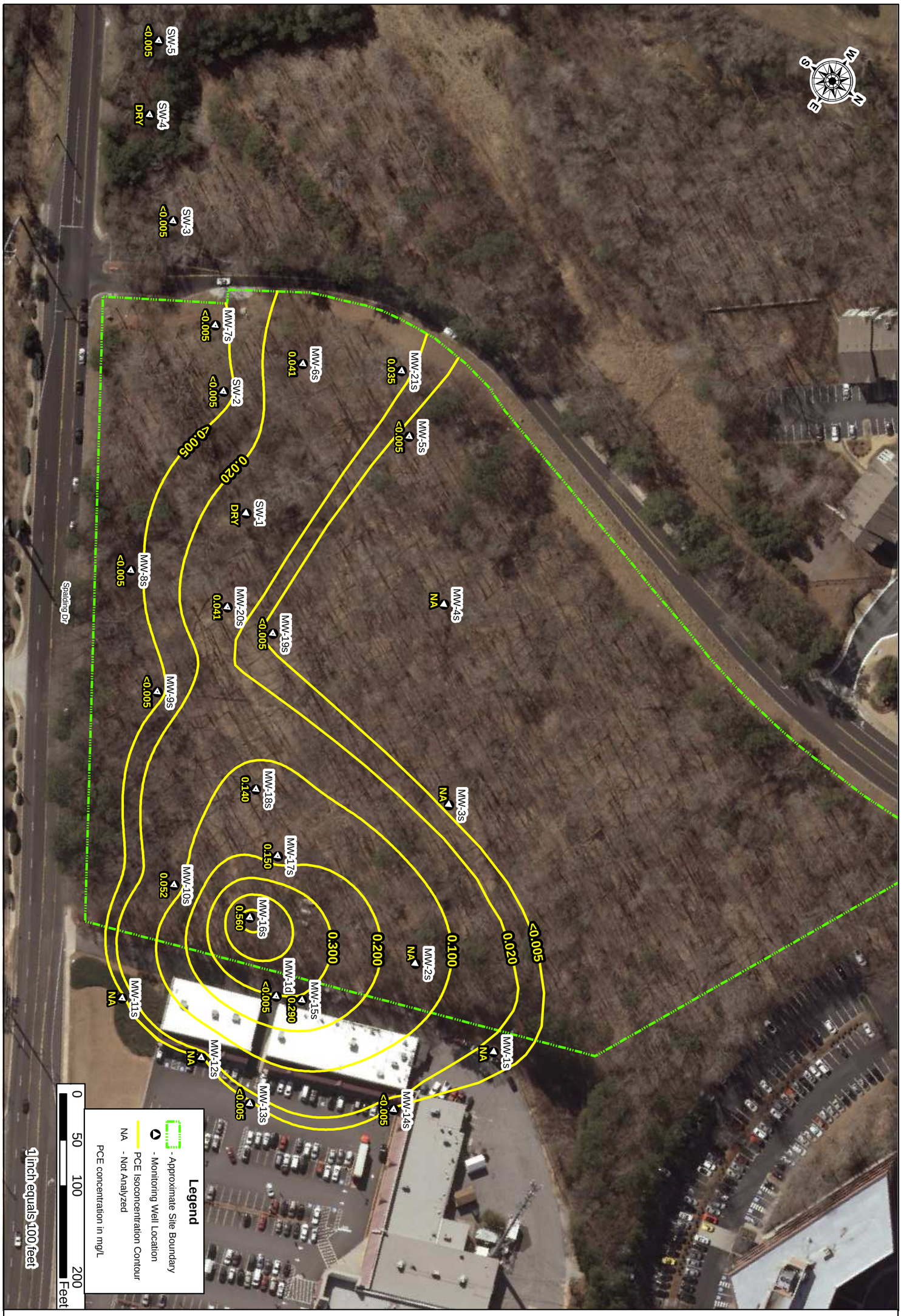
Figure 3

SPALDING CORNERS SHOPPING CENTER

7700 Spalding Drive
Norcross, Fulton County, Georgia
HSI# 10639

Job No. 102-063

SEA-2203



DATA SOURCES: - 2009 aerial photography courtesy of ***Gwinnett County GIS Department***

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PCE
ISOCONCENTRATION
MAP

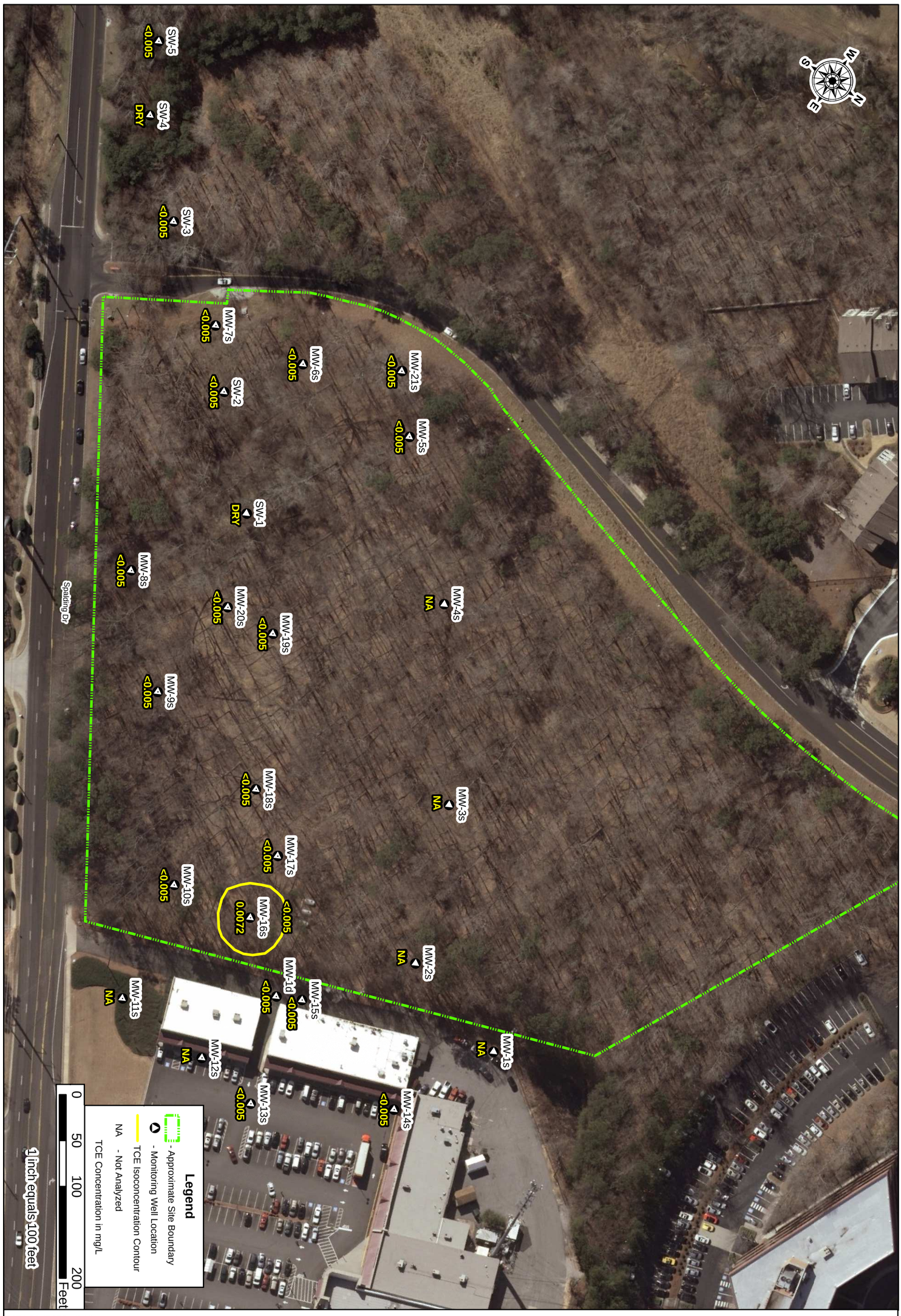
March 2012
Figure 4

SPALDING CORNERS SHOPPING CENTER

7700 Spalding Drive
Norcross, Fulton County, Georgia
HSI# 10639

Job No. 102-063

SEA-2203



DATA SOURCES: - 2009 aerial photography courtesy of ***Gwinnett County GIS Department***

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TCE
ISOCONCENTRATION
MAP

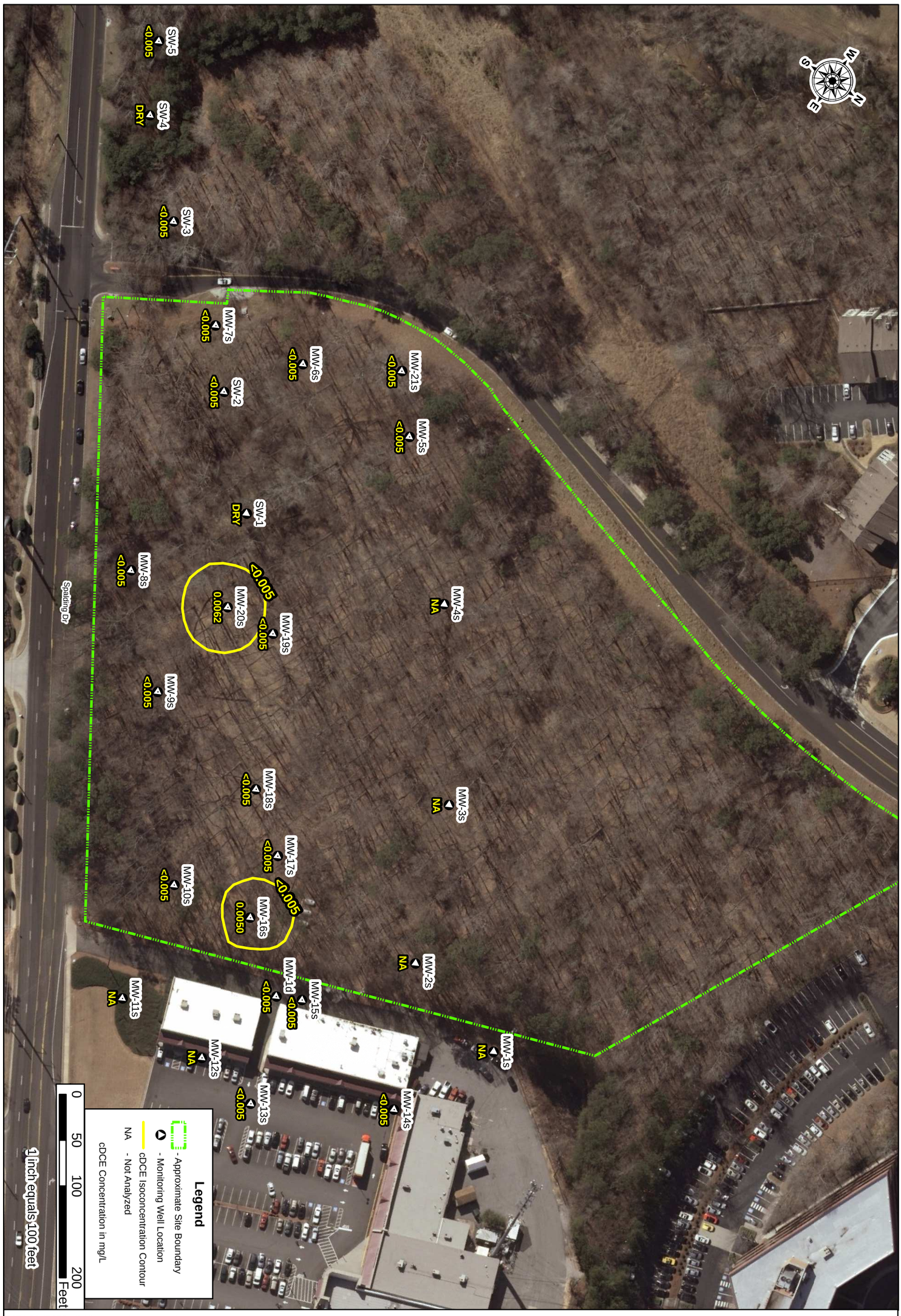
March 2012
Figure 5

SPALDING CORNERS SHOPPING CENTER

7700 Spalding Drive
Norcross, Fulton County, Georgia
HSI# 10639

Job No. 102-063

SEA-2203



DATA SOURCES: - 2009 aerial photography courtesy of ***Gwinnett County GIS Department***

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cDCE
ISOCONCENTRATION
MAP

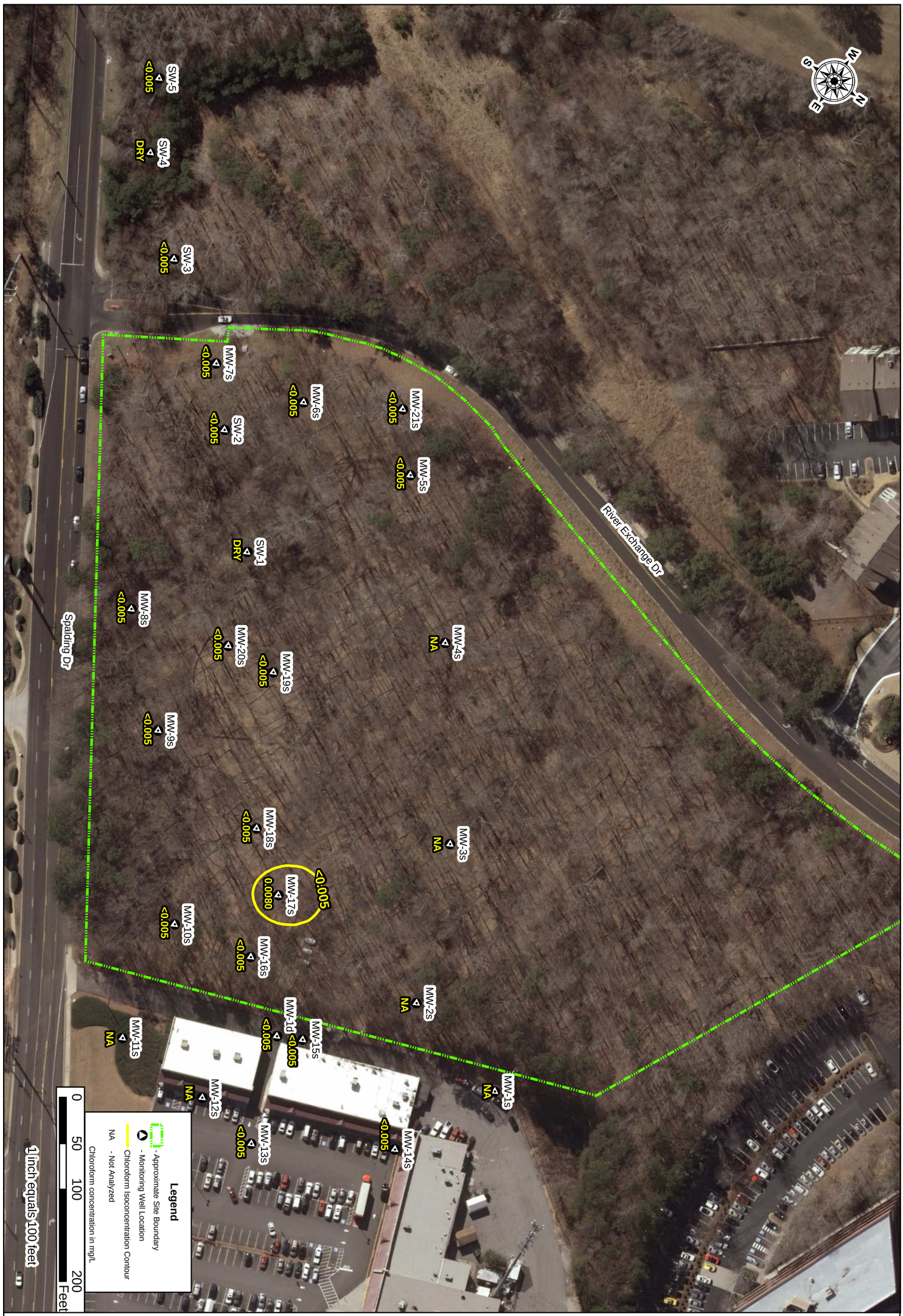
March 2012
Figure 6

SPALDING CORNERS SHOPPING CENTER

7700 Spalding Drive
Norcross, Fulton County, Georgia
HSI# 10639

Job No. 102-063

SEA-2203



DATA SOURCES: - 2009 aerial photography courtesy of ***Gwinnett County GIS Department***

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CHLOROFORM ISOCONCENTRATION MAP
March 2012
Figure 7

SPALDING CORNERS SHOPPING CENTER
7700 Spalding Drive
Norcross, Fulton County, Georgia
HSI# 10639

Job No. 102-063

SEA-2203

APPENDIX 2

TABLES

TABLE 1

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
Current Groundwater Analytical Results Summary

Location	Date Sampled	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Total Xylenes
MW-5S	3/16/2012	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.010
MW-6S	3/15/2012	<0.050	<0.050	<0.005	<0.005	<0.005	**0.041**	<0.005	<0.005	<0.002	<0.010
MW-7S	3/15/2012	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.010
MW-8S	3/14/2012	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.010
MW-9S	3/14/2012	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.010
MW-10S	3/14/2012	<0.050	<0.050	<0.005	<0.005	<0.005	**0.052**	<0.005	<0.005	<0.002	<0.010
MW-13S	3/12/2012	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.010
MW-14S	3/12/2012	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.010
MW-15S	3/13/2012	<0.050	<0.050	<0.005	<0.005	<0.005	**0.290**	<0.005	<0.005	<0.002	<0.010
MW-16S	3/12/2012	<0.050	<0.050	<0.005	<0.005	**0.0050**	**0.560**	<0.005	**0.0072**	<0.002	<0.010
MW-17S	3/15/2012	<0.050	<0.050	<0.005	**0.0080**	<0.005	**0.150**	<0.005	<0.005	<0.002	<0.010
MW-18S	3/15/2012	<0.050	<0.050	<0.005	<0.005	<0.005	**0.140**	<0.005	<0.005	<0.002	<0.010
MW-19S	3/14/2012	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.010
MW-20S	3/12/2012	<0.050	<0.050	<0.005	<0.005	**0.0062**	**0.041**	<0.005	<0.005	<0.002	<0.010
MW-21S	3/16/2012	<0.050	<0.050	<0.005	<0.005	<0.005	**0.035**	<0.005	<0.005	<0.002	<0.010
MW-1D	3/14/2012	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.010
SW-1	3/12/2012	DRY									
SW-2	3/16/2012	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.010
SW-3	3/16/2012	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.010
SW-4 (SEA)	3/12/2012	DRY									
SW-5 (SEA)	3/19/2012	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.010
Type I & 3 Risk Reduction Standard		**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**0.005**	**1.000**	**0.005**	**0.002**	**10.000**

Note: All concentrations listed in mg/L
2012 sampling performed by Sailors Engineering Associates, Inc.

TABLE 2

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
Historic Groundwater Analytical Results Summary

Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
MW-1S	10/22/2003	NA	NA	NA	NA	NA	<0.005	<0.005	NA	<0.005	<0.005
(SMW-13 N2)	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	5/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/30/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/23/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-2S	2/4/2003	<0.005	NA	NA	<0.005	NA	NA	NA	<0.005	NA	<0.005
(SMW-24)	2/12/2003	<0.005	NA	NA	<0.005	**0.0320**	<0.005	**0.0090**	<0.005	<0.005	<0.005
	12/12/2003	<0.005	<0.010	<0.020	<0.005	**0.014**	<0.005	<0.005	<0.005	<0.005	<0.010
	3/7/2005	<0.005	<0.010	<0.020	<0.005	**0.0063**	<0.005	<0.005	<0.005	<0.005	<0.010
	5/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/31/2007	<0.005	<0.050	<0.050	<0.005	**0.012**	<0.005	<0.005	<0.005	<0.005	<0.010
	3/22/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-3S	1/15/2003	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
(SMW-20)	3/9/2004	NA	NA	NA	NA	<0.005	<0.005	<0.005	NA	<0.005	<0.005
	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/31/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/22/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-4S	5/12/2003	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
(SMW-26 N)	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/22/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-5S	12/31/2002	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
(SMW-17)	3/9/2004	NA	NA	NA	NA	<0.005	<0.005	<0.005	NA	<0.005	<0.005
	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.0080**	<0.005	<0.005	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.010**	<0.005	<0.005	<0.010
	8/21/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.012**	<0.005	<0.005	<0.010
	10/26/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.019**	<0.005	<0.005	<0.010
	3/22/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.014**	<0.005	<0.005	<0.010
	2/28/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.023**	<0.005	<0.005	<0.010
	9/14/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.024**	<0.005	<0.005	<0.010
	3/16/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-6S	8/20/2002	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
(SMW-10)	3/9/2004	NA	NA	NA	NA	<0.005	<0.005	**0.020**	NA	<0.005	<0.005
	3/19/2004	NA	NA	NA	NA	NA	NA	**0.016**	NA	NA	NA
	8/19/2004	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	**0.012**	<0.005	<0.005	<0.005
	3/9/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	**0.011**	<0.005	<0.005	<0.010
	1/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.0062**	<0.005	<0.005	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	**0.0055**	<0.005	<0.005	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.0094**	<0.005	<0.005	<0.010
	3/22/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.073**	<0.005	<0.005	<0.010
	2/28/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.044**	<0.005	<0.005	<0.010
	9/16/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.014**	<0.005	<0.005	<0.010
	3/15/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.041**	<0.005	<0.005	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**0.005**	**1.000**	**0.005**	**10.000**

2000 sampling by Rindt-McDuff
2002-2003 sampling by Pyramid
2004-2010 sampling by Peachtree Environmental
2011-current sampling by SEA

Sailors Engineering Associates, Inc.
Lawrenceville, GA

TABLE 2

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
Historic Groundwater Analytical Results Summary

Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
MW-7S	3/2/2004	NA	NA	NA	NA	<0.005	<0.005	**0.0081**	NA	<0.005	NA
(SC-2)	3/8/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.059**	**0.012**	<0.005	**0.017**	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0083**	**0.0051**	<0.005	<0.005	<0.010
	3/22/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/12/2011		DRY								
	3/15/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-8S	3/2/2004	NA	NA	NA	NA	NA	<0.005	<0.005	NA	NA	NA
(SC-1)	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/30/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/29/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/12/2011		DRY								
	3/14/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-9S	8/7/2002	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
(SMW-7)	3/9/2004	NA	NA	NA	NA	<0.005	<0.005	<0.005	NA	<0.005	<0.010
	3/8/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	5/30/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/29/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/1/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/15/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/14/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-10S	7/29/2002	<0.005	NA	NA	<0.005	<0.005	<0.005	**0.236**	<0.005	<0.005	<0.005
(SMW-3 SE)	3/9/2004	NA	NA	NA	NA	<0.005	<0.005	**0.0075**	NA	<0.005	<0.005
	3/19/2004	NA	NA	NA	NA	NA	NA	**0.0062**	NA	NA	NA
	8/19/2004	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	**0.015**	<0.005	<0.005	<0.010
	3/8/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	**0.022**	<0.005	<0.005	<0.010
	5/30/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.018**	<0.005	<0.005	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	**0.026**	<0.005	<0.005	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.021**	<0.005	<0.005	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.024**	<0.005	<0.005	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.034**	<0.005	<0.005	<0.010
	9/14/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.065**	<0.005	<0.005	<0.010
	3/14/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.052**	<0.005	<0.005	<0.010
MW-11S	5/28/2003	<0.005	NA	NA	<0.005	**0.0050**	<0.005	<0.005	<0.005	<0.005	<0.005
(MW-3 SE)	10/22/2003	NA	NA	NA	NA	NA	NA	<0.005	NA	NA	NA
	8/13/2004	<0.005	<0.010	<0.020	<0.005	**0.0084**	<0.005	<0.005	<0.005	<0.005	<0.005
	3/8/2005	<0.005	<0.010	**0.180**	<0.005	**0.0062**	<0.005	<0.005	<0.005	<0.005	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	**0.0070**	<0.005	<0.005	<0.005	<0.005	<0.010
	5/30/2007	<0.005	<0.050	<0.050	<0.005	**0.018**	<0.005	<0.005	<0.005	<0.005	<0.010
	3/23/2010	<0.005	<0.050	<0.050	<0.005	**0.018**	<0.005	<0.005	<0.005	<0.005	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**0.005**	**1.000**	**0.005**	**10.000**

2000 sampling by Rindt-McDuff
2002-2003 sampling by Pyramid
2004-2010 sampling by Peachtree Environmental
2011-current sampling by SEA

TABLE 2

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
Historic Groundwater Analytical Results Summary

Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
MW-12S	5/28/2003	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
(MW-1 S)	3/8/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/30/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/23/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-13S	12/30/2002	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
(SMW-11)	3/9/2004	NA	NA	NA	NA	<0.005	<0.005	<0.005	NA	<0.005	<0.005
	3/8/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/30/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/23/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	2/28/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/13/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/12/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-14S	5/28/2003	NA	NA	NA	NA	NA	NA	<0.005	NA	NA	NA
(MW-1 N2)	10/22/2003	NA	NA	NA	NA	<0.005	<0.005	NA	NA	<0.005	<0.005
	3/8/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/30/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/23/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	2/28/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/13/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.011**	<0.005	<0.005	<0.010
resample	9/23/2011	NA	NA	NA	NA	NA	<0.005	**0.011**	NA	<0.005	NA
	3/12/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-15S	2/21/2000	<0.005	NA	NA	<0.005	NA	BRL	**0.110**	<0.005	BRL	BRL
(MW-2)	7/20/2000	<0.005	NA	NA	<0.005	<0.005	**0.045**	**0.135**	<0.005	<0.005	<0.005
	2/12/2003	<0.005	NA	NA	<0.005	NA	NA	NA	<0.005	NA	<0.005
	2/21/2003	<0.005	NA	NA	<0.005	<0.005	<0.005	**0.1350**	<0.005	<0.005	<0.005
	3/9/2004	<0.005	<0.010	<0.020	<0.005	**0.0065**	**0.045**	**4.300**	<0.005	**0.058**	<0.005
	8/13/2004	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	**1.000**	<0.005	**0.017**	<0.010
	3/9/2005	<0.005	<0.010	**0.033**	<0.005	<0.005	<0.005	**0.500**	<0.005	**0.0083**	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.800**	<0.005	**0.012**	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0057**	**0.950**	<0.005	**0.013**	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	**0.130**	<0.005	<0.005	<0.010
	5/31/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.260**	<0.005	<0.005	<0.010
	3/23/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.430**	<0.005	<0.005	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.490**	<0.005	<0.005	<0.010
	9/13/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.450**	<0.005	<0.005	<0.010
	3/13/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.290**	<0.005	<0.005	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**0.005**	**1.000**	**0.005**	**10.000**

2000 sampling by Rindt-McDuff
2002-2003 sampling by Pyramid
2004-2010 sampling by Peachtree Environmental
2011-current sampling by SEA

TABLE 2

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
Historic Groundwater Analytical Results Summary

Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
MW-16S	2/4/2003	<0.005	NA	NA	<0.005	NA	NA	NA	<0.005	NA	<0.005
(SMW-23)	2/12/2003	<0.005	NA	NA	<0.005	<0.005	<0.005	**0.1860**	<0.005	<0.005	<0.005
	3/10/2004	NA	NA	NA	NA	<0.005	<0.005	**0.440**	NA	**0.0051**	<0.005
	8/13/2004	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	**0.350**	<0.005	<0.005	<0.010
	3/9/2005	<0.005	<0.010	**1.600**	<0.005	<0.005	<0.005	**0.230**	<0.005	**0.0055**	<0.010
	8/31/2005	<0.005	<0.050	<0.050	<0.005	**0.0052**	**0.0092**	**0.520**	<0.005	**0.0077**	<0.010
	9/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.019**	**0.960**	<0.005	**0.019**	<0.010
	10/31/2005	<0.005	<0.050	<0.050	<0.005	**0.0051**	**0.0089**	**0.700**	<0.005	**0.0088**	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.012**	**0.670**	<0.005	**0.012**	<0.010
	1/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.013**	**0.610**	<0.005	**0.011**	<0.010
	6/2/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.014**	**0.810**	<0.005	**0.014**	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	<0.005	**0.0072**	**0.500**	<0.005	**0.0081**	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.240**	<0.005	<0.005	<0.010
	8/21/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.190**	<0.005	<0.005	<0.010
	10/26/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.160**	<0.005	<0.005	<0.010
	8/18/2008	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.120**	<0.005	<0.005	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.240**	<0.005	<0.005	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.390**	<0.005	<0.005	<0.010
	9/14/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.390**	<0.005	<0.005	<0.010
	3/12/2012	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0050**	**0.560**	<0.005	**0.0072**	<0.010
MW-17S	12/31/2002	<0.005	NA	NA	<0.005	<0.005	<0.005	**0.1510**	<0.005	<0.005	<0.005
(SMW-14)	3/10/2004	<0.005	<0.010	<0.020	<0.005	**0.0064**	<0.005	**0.190**	<0.005	<0.005	<0.005
	8/13/2004	<0.005	<0.010	**0.028**	<0.005	**0.013**	<0.005	**0.110**	<0.005	<0.005	<0.010
	3/9/2005	<0.005	<0.010	**0.028**	<0.005	**0.020**	<0.005	**0.071**	<0.005	<0.005	<0.010
	8/31/2005	<0.005	<0.050	<0.050	<0.005	**0.017**	<0.005	**0.041**	<0.005	<0.005	<0.010
	9/29/2005	<0.005	<0.050	<0.050	<0.005	**0.018**	<0.005	**0.082**	<0.005	<0.005	<0.010
	10/31/2005	<0.005	<0.050	<0.050	<0.005	**0.026**	<0.005	**0.073**	<0.005	<0.005	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	**0.015**	<0.005	**0.072**	<0.005	<0.005	<0.010
	1/31/2006	<0.005	<0.050	<0.050	<0.005	**0.017**	<0.005	**0.084**	<0.005	<0.005	<0.010
	6/2/2006	<0.005	<0.050	<0.050	<0.005	**0.015**	<0.005	**0.087**	<0.005	<0.005	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	**0.011**	<0.005	**0.034**	<0.005	<0.005	<0.010
	5/31/2007	<0.005	<0.050	<0.050	<0.005	**0.011**	<0.005	**0.032**	<0.005	<0.005	<0.010
	8/21/2007	<0.005	<0.050	<0.050	<0.005	**0.010**	<0.005	**0.035**	<0.005	<0.005	<0.010
	10/26/2007	<0.005	<0.050	<0.050	<0.005	**0.0089**	<0.005	**0.072**	<0.005	<0.005	<0.010
	8/18/2008	<0.005	<0.050	<0.050	<0.005	**0.0089**	<0.005	**0.047**	<0.005	<0.005	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	**0.0084**	<0.005	**0.035**	<0.005	<0.005	<0.010
	2/28/2011	<0.005	<0.050	<0.050	<0.005	**0.0083**	<0.005	**0.086**	<0.005	<0.005	<0.010
	9/15/2011	<0.005	<0.050	<0.050	<0.005	**0.0063**	<0.005	**0.140**	<0.005	<0.005	<0.010
	3/15/2012	<0.005	<0.050	<0.050	<0.005	**0.0080**	<0.005	**0.150**	<0.005	<0.005	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**0.005**	**1.000**	**0.005**	**10.000**

2000 sampling by Rindt-McDuff
2002-2003 sampling by Pyramid
2004-2010 sampling by Peachtree Environmental
2011-current sampling by SEA

TABLE 2

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
Historic Groundwater Analytical Results Summary

Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
MW-18S (SMW-2b)	7/29/2002	<0.005	NA	NA	<0.005	<0.005	<0.005	**0.3730**	<0.005	<0.005	<0.005
	3/9/2004	<0.005	<0.010	<0.020	<0.005	<0.005	**0.011**	**0.870**	<0.005	**0.014**	<0.005
	8/13/2004	<0.005	<0.010	<0.020	<0.005	<0.005	**0.015**	**1.200**	<0.005	**0.019**	<0.010
	3/9/2005	<0.005	<0.010	<0.020	<0.005	<0.005	**0.012**	**1.000**	<0.005	**0.017**	<0.010
	8/31/2005	<0.005	<0.050	<0.050	<0.005	**0.0067**	**0.011**	**0.740**	<0.005	**0.013**	<0.010
	9/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0091**	**0.790**	<0.005	**0.012**	<0.010
	10/31/2005	<0.005	<0.050	<0.050	<0.005	**0.0085**	**0.014**	**0.730**	<0.005	**0.014**	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	**0.0057**	**0.013**	**0.900**	<0.005	**0.014**	<0.010
	6/2/2006	<0.005	<0.050	<0.050	<0.005	**0.0061**	**0.0071**	**0.700**	<0.005	**0.010**	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	**0.014**	**0.017**	**0.870**	<0.005	**0.019**	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	**0.0092**	**0.040**	**1.300**	<0.005	**0.024**	<0.010
	8/21/2007	<0.005	<0.050	<0.050	<0.005	**0.011**	**0.018**	**0.830**	<0.005	**0.018**	<0.010
	10/26/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.680**	<0.005	<0.005	<0.010
	8/18/2008	<0.005	<0.050	<0.050	<0.005	**0.0092**	**0.0054**	**0.290**	<0.005	**0.0074**	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.043**	<0.005	<0.005	<0.010
	3/3/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.310**	<0.005	<0.005	<0.010
	9/14/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.280**	<0.005	<0.005	<0.010
	3/15/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.140**	<0.005	<0.005	<0.010
MW-19S (SMW-6)	8/7/2002	<0.005	NA	NA	<0.005	<0.005	**0.0050**	**0.1450**	<0.005	<0.005	<0.005
	3/9/2004	<0.005	<0.010	<0.020	<0.005	**0.0054**	**0.0082**	**0.560**	<0.005	**0.0059**	<0.005
	8/13/2004	<0.005	<0.010	<0.020	<0.005	<0.005	**0.0054**	**0.380**	<0.005	<0.005	<0.010
	3/9/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	**0.540**	<0.005	**0.0081**	<0.010
	6/21/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.350**	<0.005	**0.0064**	<0.010
	7/28/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.310**	<0.005	**0.0074**	<0.010
	8/31/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.440**	<0.005	**0.0071**	<0.010
	9/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.570**	<0.005	**0.0094**	<0.010
	10/31/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0071**	**0.560**	<0.005	**0.012**	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0060**	**0.660**	<0.005	**0.011**	<0.010
	6/2/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0069**	**0.730**	<0.005	**0.014**	<0.010
	7/13/2006	<0.005	**0.046**	**0.062**	**0.0020**	<0.005	**0.038**	**0.230**	**1.500**	**0.0089**	<0.010
	9/22/2006	<0.005	<0.050	<0.050	<0.005	**0.0056**	**0.034**	**0.570**	<0.005	**0.130**	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	**0.0063**	**0.130**	**0.350**	<0.005	**0.050**	<0.010
	1/23/2007	<0.005	<0.050	<0.050	<0.005	**0.0072**	**0.095**	**0.460**	<0.005	**0.063**	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	**0.0070**	**0.024**	**0.530**	<0.005	**0.020**	<0.010
	8/21/2007	**0.014**	<0.050	<0.050	<0.005	**0.0066**	**0.0065**	**0.400**	<0.005	**0.015**	<0.010
	10/26/2007	<0.005	<0.050	<0.050	<0.005	**0.011**	**0.016**	**0.740**	<0.005	**0.016**	<0.010
	8/18/2008	<0.005	<0.050	<0.050	<0.005	**0.0074**	**0.016**	**0.210**	<0.005	**0.0063**	<0.010
	11/11/2008	<0.005	<0.050	<0.050	<0.005	**0.012**	**0.0066**	**0.510**	<0.005	**0.010**	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0077**	**0.018**	<0.005	**0.013**	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	**0.013**	**0.052**	<0.005	**0.0051**	<0.010
	9/15/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0051**	<0.010
	3/14/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**0.005**	**1.000**	**0.005**	**10.000**

2000 sampling by Rindt-McDuff
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Norcross, Fulton County, Georgia
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SEA Job#102-063
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Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
MW-20S	10/22/2003	NA	NA	NA	NA	<0.025	NA	NA	NA	NA	<0.025
(SMW-6 SW2)	8/13/2004	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	**0.410**	<0.005	**0.0091**	<0.010
	3/9/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	**0.330**	<0.005	**0.0092**	<0.010
	6/21/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.370**	<0.005	**0.0076**	<0.010
	7/28/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.350**	<0.005	**0.010**	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.370**	<0.005	**0.0083**	<0.010
	3/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.039**	**0.330**	**0.430**	**0.0096**	<0.010
	6/2/2006	<0.005	**0.055**	**0.076**	<0.005	<0.005	**0.036**	**0.320**	**0.850**	**0.0083**	<0.010
	7/13/2006	<0.005	<0.050	<0.050	<0.005	**0.0059**	**0.0067**	**0.600**	**0.014**	**0.013**	<0.010
	9/22/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.031**	**0.450**	**0.200**	**0.012**	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	<0.005	**0.022**	**0.390**	**0.019**	**0.0084**	<0.010
	1/23/2007	<0.005	<0.050	<0.050	<0.005	<0.005	**0.029**	**0.300**	<0.005	**0.0095**	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	<0.005	**0.028**	**0.720**	<0.005	**0.014**	<0.010
	8/21/2007	**0.026**	<0.050	<0.050	<0.005	<0.005	**0.033**	**0.650**	<0.005	**0.016**	<0.010
	10/26/2007	<0.005	<0.050	<0.050	<0.005	<0.005	**0.029**	**1.600**	<0.005	**0.023**	<0.010
	8/18/2008	<0.005	<0.050	<0.050	<0.005	**0.0074**	**0.022**	**0.700**	<0.005	**0.023**	<0.010
	11/11/2008	<0.005	<0.050	<0.050	<0.005	<0.005	**0.020**	**1.700**	<0.005	**0.025**	<0.010
	2/13/2009	<0.005	<0.050	<0.050	<0.005	<0.005	**0.020**	**0.190**	<0.005	<0.005	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	**0.018**	<0.005	<0.005	**0.0059**	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	**0.012**	<0.005	<0.005	<0.005	<0.010
	9/15/2011	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0081**	**0.048**	<0.005	<0.005	<0.010
	3/12/2012	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0062**	**0.041**	<0.005	<0.005	<0.010
MW-21S	2/28/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/15/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/16/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.035**	<0.005	<0.005	<0.010
MW-1D	3/15/2004	NA	NA	NA	NA	<0.005	<0.005	<0.005	NA	<0.005	NA
	3/24/2004	NA	NA	NA	NA	<0.005	<0.005	<0.005	NA	<0.005	NA
	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/7/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.0064**	<0.005	<0.005	<0.010
	5/31/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/23/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/14/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/14/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**0.005**	**1.000**	**0.005**	**10.000**

2000 sampling by Rindt-McDuff
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TABLE 2

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HSI No. 10639
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Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
SW-1	3/2/2004	NA	NA	NA	NA	<0.005	**0.022**	**0.050**	NA	**0.012**	NA
	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	**0.011**	**0.031**	<0.005	**0.0059**	<0.005
	6/21/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.056**	**0.030**	<0.005	**0.014**	<0.010
	7/28/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.059**	**0.020**	<0.005	**0.012**	<0.010
	8/31/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.090**	**0.019**	<0.005	**0.011**	<0.010
	9/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.077**	<0.005	<0.005	<0.005	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.075**	**0.018**	<0.005	**0.0095**	<0.010
	2/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.028**	**0.031**	<0.005	**0.0089**	<0.010
	3/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.029**	**0.032**	<0.005	**0.010**	<0.010
	1/23/2007	<0.005	<0.050	<0.050	<0.005	<0.005	**0.014**	**0.041**	<0.005	**0.0083**	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	**0.017**	**0.092**	<0.005	**0.0086**	<0.010
	2/25/2011		DRY								
	9/12/2011		DRY								
	3/12/2012		DRY								
SW-2	3/5/2004	NA	NA	NA	NA	<0.005	**0.0071**	**0.013**	NA	<0.005	NA
	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	**0.010**	<0.005	<0.005	<0.005
	6/21/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.020**	**0.0092**	<0.005	<0.005	<0.010
	7/28/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.023**	**0.0063**	<0.005	<0.005	<0.010
	8/31/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.042**	**0.0072**	<0.005	<0.005	<0.010
	9/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.027**	<0.005	<0.005	<0.005	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.044**	**0.0077**	<0.005	<0.005	<0.010
	2/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.019**	**0.018**	<0.005	**0.0050**	<0.010
	3/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.020**	**0.016**	<0.005	<0.005	<0.010
	1/23/2007	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0088**	**0.022**	<0.005	**0.0051**	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	**0.011**	**0.045**	<0.005	**0.0054**	<0.010
	2/25/2011	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0068**	**0.014**	<0.005	<0.005	<0.010
	9/12/2011		DRY								
	3/16/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
SW-3	3/5/2004	NA	NA	NA	NA	<0.005	<0.005	<0.005	NA	<0.005	NA
	6/21/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	7/28/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	8/31/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	2/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	1/23/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	**0.0072**	<0.005	<0.005	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0052**	**0.019**	<0.005	<0.005	<0.010
	2/25/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/12/2011		DRY								
	3/16/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
SW-4	3/3/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/12/2011		DRY								
	3/12/2012		DRY								
SW-5	2/25/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/16/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/19/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**0.005**	**1.000**	**0.005**	**10.000**

2000 sampling by Rindt-McDuff
2002-2003 sampling by Pyramid
2004-2010 sampling by Peachtree Environmental
2011-current sampling by SEA

TABLE 3
Spalding Corners Shopping Center
Norcross Park, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
HISTORIC GROUNDWATER ELEVATION SUMMARY

WELL NO.	DATE SAMPLED	GROUND ELEVATION	TOP OF CASING ELEVATION	SCREENED INTERVAL	STATIC WATER LEVEL	GROUND WATER ELEVATION
MW-1S	6/24/2003	not measured	996.93	30-40	not measured	
	3/9/2004				31.16	965.77
	5/30/2006				30.52	966.41
	11/29/2006				34.57	962.36
	5/30/2007				33.29	963.64
	3/22/2010				30.55	966.38
	2/24/2011				33.19	963.74
	9/12/2011				34.03	962.90
	3/12/2012				34.41	962.52
MW-2S	6/24/2003	not measured	998.49	35-40	32.60	965.89
	3/9/2004				33.48	965.01
	5/30/2006				32.91	965.58
	11/29/2006				35.92	962.57
	5/31/2007				35.63	962.86
	3/22/2010				32.67	965.82
	2/24/2011				35.53	962.96
	9/12/2011				36.18	962.31
	3/12/2012				36.87	961.62
MW-3S	6/24/2003	not measured	990.89	15-25	23.30	967.59
	3/9/2004				25.11	965.78
	5/30/2006				24.33	966.56
	11/29/2006				30.17	960.72
	5/31/2007				28.48	962.41
	3/22/2010				22.44	968.45
	2/24/2011				29.83	961.06
	9/12/2011				30.73	960.16
	3/12/2012				32.52	958.37
MW-4S	6/24/2003	not measured	975.94	20-35	19.35	956.59
	3/9/2004				20.97	954.97
	5/30/2006				20.91	955.03
	11/29/2006				25.91	950.03
	6/1/2007				24.54	951.40
	3/22/2010				18.79	957.15
	2/24/2011				24.55	951.39
	9/12/2011				27.42	948.52
	3/12/2012				27.19	948.75
MW-5S	6/24/2003	not measured	965.95	25-35	12.80	953.15
	3/9/2004				12.78	953.17
	5/30/2006				13.49	952.46
	11/29/2006				16.94	949.01
	6/21/2007				16.94	949.01
	8/21/2007				18.81	947.14
	10/26/2007				20.21	945.74
	3/22/2010				11.25	954.70
	2/24/2011				15.54	950.41
	9/12/2011	963.34			20.33	945.62
	3/12/2012				17.93	948.02

Static water level taken from top of casing (TOC).
Elevations based on March 2004 survey
by Grant Shepherd Associates, Inc.

Sailors Engineering Associates, Inc.
Lawrenceville, GA

TABLE 3
Spalding Corners Shopping Center
Norcross Park, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
HISTORIC GROUNDWATER ELEVATION SUMMARY

WELL NO.	DATE SAMPLED	GROUND ELEVATION	TOP OF CASING ELEVATION	SCREENED INTERVAL	STATIC WATER LEVEL	GROUND WATER ELEVATION
MW-6S	6/24/2003	not measured	959.38	5.0-15.0	10.83	948.55
	3/9/2004				11.53	947.85
	5/30/2006				12.52	946.86
	11/29/2006				14.40	944.98
	6/1/2007				14.10	945.28
	3/22/2010				10.71	948.67
	2/24/2011				12.27	947.11
	9/12/2011				18.56	940.82
	3/12/2012				14.31	945.07
MW-7S	3/22/2010	not measured	949.56	3.0-8.0	4.55	945.01
	2/24/2011				4.93	944.63
	9/12/2011				DRY	
	3/12/2012				4.92	944.64
MW-8S	2/18/2004	not measured	969.45	20-30	24.60	944.85
	3/25/2004				24.30	945.15
	5/30/2006				24.70	944.75
	11/29/2006				26.67	942.78
	5/29/2007				26.10	943.35
	3/22/2010				22.72	946.73
	2/24/2011				25.85	943.60
	9/12/2011				DRY	
	3/12/2012				26.60	942.85
MW-9S	6/24/2003	not measured	976.17	31.5-41.5	16.60	959.57
	3/9/2004				16.68	959.49
	5/30/2006				17.39	958.78
	11/29/2006				20.64	955.53
	5/29/2007				20.08	956.09
	3/22/2010				15.53	960.64
	2/24/2011				19.45	956.72
	9/12/2011				22.55	953.62
	3/12/2012				21.29	954.88
MW-10S	6/24/2003	not measured	987.32	30-40	not measured	
	3/9/2004				25.77	961.55
	5/30/2006				27.73	959.59
	11/29/2006				28.91	958.41
	6/1/2007				28.45	958.87
	3/22/2010				25.01	962.31
	2/24/2011				28.13	959.19
	9/12/2011				29.83	957.49
	3/12/2012				29.90	957.42
MW-11S	6/24/2003	not measured	991.13	40-50	27.20	963.93
	3/9/2004				27.06	964.07
	5/30/2006				26.83	964.30
	11/29/2006				29.41	961.72
	5/30/2007				29.38	961.75
	3/22/2010				28.01	963.12
	2/24/2011				29.14	961.99
	9/12/2011				29.76	961.37
	3/12/2012				35.50	955.63

Static water level taken from top of casing (TOC).
Elevations based on March 2004 survey
by Grant Shepherd Associates, Inc.

Sailors Engineering Associates, Inc.
Lawrenceville, GA

TABLE 3
Spalding Corners Shopping Center
Norcross Park, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
HISTORIC GROUNDWATER ELEVATION SUMMARY

WELL NO.	DATE SAMPLED	GROUND ELEVATION	TOP OF CASING ELEVATION	SCREENED INTERVAL	STATIC WATER LEVEL	GROUND WATER ELEVATION
MW-12S	6/24/2003	not measured	999.27	41.5-51.5	34.00	965.27
	3/9/2004				34.53	964.74
	5/30/2006				34.15	965.12
	11/29/2006				36.60	962.67
	5/30/2007				36.56	962.71
	3/22/2010				35.00	964.27
	2/24/2011				36.37	962.90
	9/12/2011				36.70	962.57
	3/12/2012				37.82	961.45
MW-13S	6/24/2003	not measured	997.91	40-50	32.10	965.81
	3/9/2004				32.48	965.43
	5/30/2006				32.56	965.35
	11/29/2006				34.35	963.56
	5/30/2007				34.48	963.43
	3/22/2010				33.13	964.78
	2/24/2011	998.54			34.22	963.69
	9/12/2011				34.40	963.51
	3/12/2012				35.90	962.01
MW-14S	6/24/2003	not measured	999.73	35-45	34.00	965.73
	3/9/2004				34.10	965.63
	5/30/2006				33.58	966.15
	11/29/2006				35.94	963.79
	5/30/2007				35.89	963.84
	3/22/2010				34.38	965.35
	2/24/2011	1000.22			35.78	963.95
	9/12/2011				36.03	963.70
	3/12/2012				37.00	962.73
MW-15S	6/24/2003	not measured	999.00	35-55	34.50	964.50
	3/9/2004				34.50	964.50
	11/29/2005				35.33	963.67
	5/30/2006				34.58	964.42
	11/29/2006				37.27	961.73
	5/31/2007				37.10	961.90
	3/22/2010				35.28	963.72
	2/24/2011	999.42			37.05	961.95
	9/12/2011				37.44	961.56
	3/12/2012				38.57	960.43
MW-16S	6/24/2003	not measured	991.90	38-43	30.10	961.80
	3/10/2004				29.29	962.61
	6/21/2005				28.31	963.59
	7/28/2005				28.71	963.19
	8/11/2005				28.55	963.35
	8/31/2005				28.95	962.95
	9/29/2005				29.39	962.51
	11/29/2005				30.46	961.44
	5/30/2006				29.16	962.74
	11/29/2006				32.20	959.70
	6/1/2007				31.84	960.06
	8/21/2007				32.93	958.97
	10/26/2007				33.63	958.27
	3/22/2010				29.23	962.67
	2/24/2011				31.61	960.29
	9/12/2011				32.74	959.16
	3/12/2012				33.34	958.56

Static water level taken from top of casing (TOC).
Elevations based on March 2004 survey
by Grant Shepherd Associates, Inc.

TABLE 3
Spalding Corners Shopping Center
Norcross Park, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
HISTORIC GROUNDWATER ELEVATION SUMMARY

WELL NO.	DATE SAMPLED	GROUND ELEVATION	TOP OF CASING ELEVATION	SCREENED INTERVAL	STATIC WATER LEVEL	GROUND WATER ELEVATION
MW-17S	6/24/2003	not measured	988.61	36-46	26.34	962.27
	3/10/2004				29.96	958.65
	6/21/2005				30.18	958.43
	7/28/2005				26.22	962.39
	8/11/2005				26.18	962.43
	8/31/2005				26.52	962.09
	9/29/2005				27.06	961.55
	11/29/2005				27.86	960.75
	5/30/2006				26.72	961.89
	11/29/2006				31.01	957.60
	5/31/2007				29.49	959.12
	8/21/2007				30.88	957.73
	10/26/2007				31.76	956.85
	3/22/2010				26.51	962.10
	2/24/2011				29.34	959.27
	9/12/2011				30.91	957.70
	3/12/2012				31.22	957.39
MW-18S	6/24/2003	not measured	983.52	23.5-33.5	19.65	963.87
	3/9/2004				20.66	962.86
	3/25/2003				23.27	960.25
	6/21/2005				22.69	960.83
	7/28/2005				23.14	960.38
	8/11/2005				23.23	960.29
	8/31/2005				23.44	960.08
	9/29/2005				24.17	959.35
	11/29/2005				24.82	958.70
	5/30/2006				23.50	960.02
	11/29/2006				27.03	956.49
	6/1/2007				26.26	957.26
	8/21/2007				28.03	955.49
	10/26/2007				29.11	954.41
	3/22/2010				21.81	961.71
	2/24/2011				25.52	958.00
	9/12/2011				28.18	955.34
	3/12/2012				27.19	956.33
MW-19S	6/24/2003	not measured	970.84	23-33	12.60	958.24
	3/9/2004				13.23	957.61
	6/21/2005				13.20	957.64
	7/28/2005				13.47	957.37
	8/11/2005				13.25	957.59
	8/31/2005				13.78	957.06
	9/29/2005				14.65	956.19
	10/31/2005				14.92	955.92
	11/29/2005				15.06	955.78
	5/30/2006				14.04	956.80
	11/29/2006				17.07	953.77
	6/1/2007				16.62	954.22
	8/21/2007				18.78	952.06
	10/26/2007				19.92	950.92
	3/22/2010				11.98	958.86
	2/24/2011				15.68	955.16
	9/12/2011				19.44	951.40
	3/12/2012				17.17	953.67

Static water level taken from top of casing (TOC).
Elevations based on March 2004 survey
by Grant Shepherd Associates, Inc.

TABLE 3
Spalding Corners Shopping Center
Norcross Park, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
HISTORIC GROUNDWATER ELEVATION SUMMARY

WELL NO.	DATE SAMPLED	GROUND ELEVATION	TOP OF CASING ELEVATION	SCREENED INTERVAL	STATIC WATER LEVEL	GROUND WATER ELEVATION
MW-20S	3/24/2003	not measured	968.82	15-25	not measured	
	3/9/2004				11.68	957.14
	6/21/2005				11.82	957.00
	7/28/2005				12.00	956.82
	8/11/2005				11.96	956.86
	8/31/2005				12.33	956.49
	9/29/2005				13.22	955.60
	10/31/2005				13.37	955.45
	11/29/2005				13.43	955.39
	5/30/2006				12.60	956.22
	11/29/2006				15.31	953.51
	6/1/2007				15.03	953.79
	8/21/2007				17.12	951.70
	10/26/2007				18.24	950.58
	3/22/2010				10.60	958.22
	2/24/2011				14.04	954.78
	9/12/2011				17.83	950.99
	3/12/2012				15.40	953.42
MW-21S	2/7/2011	963.86	964.00	14-29	15.52	948.48
	2/24/2011				18.33	945.67
*	9/12/2011	963.86	967.41		26.81	940.60
	3/12/2012				26.23	941.18
MW-1D	5/15/2002	not measured	not measured	98-108	not measured	
	10/22/2003				not measured	
	10/31/2005				not measured	
	3/22/2010				33.56	964.68
	2/24/2011	998.78	998.24		34.67	963.57
	9/12/2011				35.40	962.84
	3/12/2012				36.89	961.35

* Elevations of MW-21S measured 9-15-11 based on MW-5S TOC elevation
Revised MW-21S February 2011 ground elevation (970.58) and TOC elevation (970.72) to 9-15-11 ground elevation (963.86).

Static water level taken from top of casing (TOC).
Elevations based on March 2004 survey
by Grant Shepherd Associates, Inc.

Table 4
Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI #10639
SEA Job #102-063
Current MNA Screening Laboratory Results Summary

Location		MW-6S	MW-7S	MW-10S	MW-14S	MW-15S	MW-16S	MW-17S	MW-18S	MW-19S	MW-20S	MW-21S	MW-1D
Sampling Date		3/15/2012	3/15/2012	3/14/2012	3/12/2012	3/13/2012	3/12/2012	3/15/2012	3/15/2012	3/14/2012	3/12/2012	3/16/2012	3/13/2012
pH	mgL	5.76	5.22	5.14	5.75	5.36	11.98	5.81	8.19	6.61	7.34	5.43	8.46
Dissolved Oxygen	mg/L	0.42	0.10	5.61	6.39	5.58	10.03	4.72	3.72	0.16	0.29	4.26	0.19
Temperature	deg C	18.72	16.49	18.16	17.74	19.60	17.10	18.54	17.17	17.43	15.68	23.05	20.38
ORP	mV	93.7	178.6	-1.8	27.8	-13.7	-100.9	0.08	-49	346	41.8	-5.3	-236.4
DCE	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.0050	<0.005	<0.005	<0.005	0.0062	<0.005	<0.005
PCE	mg/L	0.041	<0.005	0.052	0.011	0.290	0.560	0.150	0.140	<0.005	0.041	0.035	<0.005
TCE	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.0072	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
VC	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
TOC	mg/L	<5.00	1.38	<1.00	<1.00	<1.0	<1.00		<10.0	<5.00	<1.00		4.49
Sulfide	mgL	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00		<2.00	<2.00	<2.00		<2.00
Chloride	mgL	5.6	12	4.2	5.3	6.2	<10		7.1	3.0	4.9		6.6
Nitrate	mgL	0.32	0.87	3.8	2.9	2.6	2.7		1.3	<0.25	0.36		<0.25
Nitrite	mgL	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25		<0.25	<0.25	<0.25		<0.25
Sulfate	mgL	2.6	38	<1.0	<1.0	<1.0	110		8.8	32	20		10
Ethane	mgL	<0.009	<0.009	<0.007	<0.007	<0.007	<0.007		<0.007	<0.007	<0.007		<0.007
Ethene	mgL	<0.007	<0.007	<0.009	<0.009	<0.009	<0.009		<0.009	<0.009	<0.009		<0.009
Methane	mgL	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		<0.004	0.020	0.018		0.004
Iron II	mgL	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100		<0.100	<0.100	<0.100		<0.100
Iron III	mg/L	0.908	0.150	1.05	1.06	1.05	0.240		0.382	<0.100	0.173		0.326
Total Iron	mg/L	0.908	0.150	1.05	1.06	1.05	0.240		0.382	<0.100	0.173		0.326
CO_2	mg/L												
Alkalinity	mgL												
COD	mg/L												
Sulfite	mg/L												
Natural Attenuation Screening Worksheet Score**		**7**	**7**	**0**	**0**	**0**	**2**		**3**	**3**	**8**		**11**

** Natural Attenuation Screening Worksheet Scoring for evidence for anaerobic biodegradation of chlorinated organics: 0 to 5 = Inadequate evidence; 6 to 14 = Limited evidence; 15 to 20 Adequate evidence; >20 = Strong evidence

Table 5
Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI #10639
SEA Job #102-063
Historic MNA Screening Laboratory Results Summary

Location		MW-15S					MW-16S					MW-17S				
Sampling Date		**3/9/2004**	**3/9/2005**	**3/2/2011****	**9/13/2011**	**3/13/2012**	**3/9/2004**	**3/9/2005**	**3/2/2011**	**9/14/2011**	**3/12/2012**	**3/9/2004**	**3/7/2005**	**2/28/2011**	**9/15/2011**	**3/15/2012**
pH	mgL	6.49	Not Recorded	6.97	5.88	5.36	7.04	6.13	11.52	11.52	11.98	7.07	6.35	6.78	5.63	5.81
Dissolved Oxygen	mg/L	0.39	Not Recorded	5.71	9.81	5.58		6.34	15.80	15.80	10.03	0.25	8.8	6.50	3.68	4.72
Temperature	deg C	19.05	Not Recorded	17.70	21.26	19.60	16.82	15.14	16.81	16.81	17.10	15.31	15.55	16.10	17.67	18.54
ORP	mV	175	Not Recorded	15.5	88.0	-13.7		236	-23.0	-23.0	-100.9	229	242	52.0	71.6	0.8
DCE	mg/L	0.045	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0050	<0.005	<0.005	<0.005	<0.005	<0.005
PCE	mg/L	4.300	0.500	0.490	0.450	0.290	0.440	0.230	0.390	0.390	0.560	0.190	0.071	0.086	0.140	0.150
TCE	mg/L	0.058	0.0083	<0.005	<0.005	<0.005	0.0051	0.0055	<0.005	<0.005	0.0072	<0.005	<0.005	<0.005	<0.005	<0.005
VC	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
TOC	mg/L	1.5	<1.0	<1.0	<1.0	<1.0		<1.0	<5.0	1.36	<1.00	<1.0	<1.0		1.89	
Sulfide	mgL		<1.0		<2.00	<2.00		<1.0		<2.00	<2.00		<1.0		<2.00	
Chloride	mgL				7.1	6.2				6.4	<10				8.3	
Nitrate	mgL	1.59	3.3	3.02	3.0	2.6		3.6	<12.5	3.2	2.7	2.41	1.4		1.7	
Nitrite	mgL	<0.250	<0.25		<0.25	<0.25		<0.25		<0.25	<0.25	<0.250	<0.25		<0.25	
Sulfate	mgL	<1.0	<1.0	<1.00	<1.0	<1.0		2.3	552	230	110	<1.00	<1.00		1.5	
Ethane	mgL		<0.007	<0.007	<0.007	<0.007		<0.007	<0.007	<0.007	<0.007		<0.007		<0.007	
Ethene	mgL		<0.009	<0.009	<0.009	<0.009		<0.009	<0.009	<0.009	<0.009		<0.009		<0.009	
Methane	mgL	<0.004	<0.004	<0.004	<0.004	<0.004		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		<0.004	
Iron II	mgL		Dissolved Fe = <0.100	<1.00	<0.100	<0.100		Dissolved Fe = <0.100	<0.100	<0.100	<0.100		Dissolved Fe = <0.100		<0.100	
Iron III	mg/L				0.955	1.05				0.60	0.240				1.11	
Total Iron	mg/L	10.80			0.955	1.05				0.60	0.240	9.20			1.11	
CO_2	mg/L		79.8					69.6					69.5			
Alkalinity	mgL		22.3					28.2					45.5			
COD	mg/L			40.0					15.4							
Sulfite	mg/L	<2.00										<2.00				
Natural Attenuation Screening Worksheet Score ***		**12 (9*)**	**6**	**0**	**0**	**0**		**3**	**0**	**-4**	**2**	**8 (5*)**	**1**		**2**	

* If no Fe II present. Since only Total Fe was analyzed, it was assumed that >1 mg/L Fe II was present.
** Low-flow purging was conducted on 3-1-2011 and was resampled on 3-2-2011.
***Natural Attenuation Screening Worksheet Scoring for evidence for anaerobic biodegradation of chlorinated organics:
0 to 5 = Inadequate evidence; 6 to 14 = Limited evidence; 15 to 20 Adequate evidence; >20 = Strong evidence

Table 5
Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI #10639
SEA Job #102-063
Historic MNA Screening Laboratory Results Summary

Location		MW-18S					MW-19S					MW-20S				
Sampling Date		**3/9/2004**	**3/7/2005**	**3/3/2011**	**9/14/2011**	**3/15/2012**	**3/9/2004**	**3/9/2005**	**3/2/2011**	**9/15/2011**	**3/14/2012**	**3/9/2004**	**3/9/2005**	**3/2/2011**	**9/15/2011**	**3/12/2012**
pH	mgL	6.63	5.79	9.41	9.41	8.19	6.88	5.90	5.24	6.08	6.61		5.56	6.40	8.65	7.34
Dissolved Oxygen	mg/L	0.44	6.93	3.31	3.31	3.72	0.50	8.25	0.00	0.46	0.16		7.54	0.00	0.50	0.29
Temperature	deg C	15.74	15.81	14.70	14.70	17.17	15.34	15.29	16.11	17.10	17.43		14.70	15.32	16.60	15.68
ORP	mV	217	273	-17.1	-17.1	-49.0	196	262	100.4	243.2	346		197	-120.7	56.8	41.8
DCE	mg/L	0.011	0.012	<0.005	<0.005	<0.005	0.0082	<0.005	0.013	<0.005	<0.005		<0.005	0.012	0.0081	0.0062
PCE	mg/L	0.870	1.000	0.310	0.280	0.140	0.560	0.540	0.052	<0.005	<0.005		0.330	<0.005	0.048	0.041
TCE	mg/L	0.014	0.017	<0.005	<0.005	<0.005	0.0059	0.0081	0.0051	<0.005	<0.005		0.0092	<0.005	<0.005	<0.005
VC	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002
TOC	mg/L	1.9	<1.0	<5	<1.00	<10.0	1.8	<1.0	<1.0	<1.00	<5.00		<1.0	<1.0	<1.00	<1.00
Sulfide	mgL		<1.0		<2.00	<2.00		<1.0		<2.00	<2.00		<1.0		<2.00	<2.00
Chloride	mgL				5.3	7.1				6.2	3.0				3.8	4.9
Nitrate	mgL	2.24	1.8	<0.250	1.2	1.3	1.52	2.21	0.259	<0.25	<0.25		2.0	<0.250	0.42	0.36
Nitrite	mgL	<0.250	<0.25		<0.25	<0.25	<0.250	<0.25		<0.25	<0.25		<0.25		<0.25	<0.25
Sulfate	mgL	<1.00	<1.0	3.63	1.4	8.8	<1.00	<1.0	61.0	50	32		1.1	9.90	43	20
Ethane	mgL		<0.007	<0.007	<0.007	<0.007		<0.007	<0.007	<0.007	<0.007		<0.007	<0.007	<0.007	<0.007
Ethene	mgL		<0.009	<0.009	<0.009	<0.009		<0.009	<0.009	<0.009	<0.009		<0.009	<0.009	<0.009	<0.009
Methane	mgL	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.080	0.065	0.020		<0.004	0.350	0.140	0.018
Iron II	mgL		Dissolved Fe = <0.100	<0.100	<0.100	<0.100		Dissolved Fe = <0.100	<0.100	<0.100	<0.100		Dissolved Fe = <0.100	<0.100	<0.100	<0.100
Iron III	mg/L				0.832	0.382				<0.100	<0.100				0.137	0.173
Total Iron	mg/L	2.86			0.832	0.382	9.95			<0.100	<0.100				0.137	0.173
CO_2	mg/L		96.8					93.2					100.0			
Alkalinity	mgL		31.0					36.1					12.8			
COD	mg/L			15.4					15.4					<10.0		
Sulfite	mg/L	<2.00					<2.00									
Natural Attenuation Screening Worksheet Score ***		**12 (9*)**	**5**	**3**	**2**	**3**	**12 (9*)**	**3**	**9**	**5**	**3**		**3**	**12**	**7**	**8**

* If no Fe II present. Since only Total Fe was analyzed, it was assumed that >1 mg/L Fe II was present.
** Low-flow purging was conducted on 3-1-2011 and was resampled on 3-2-2011.
***Natural Attenuation Screening Worksheet Scoring for evidence for anaerobic biodegradation of chlorinated organics:
0 to 5 = Inadequate evidence; 6 to 14 = Limited evidence; 15 to 20 Adequate evidence; >20 = Strong evidence

APPENDIX 3

WELL DEVELOPMENT AND PURGING LOGS

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: [illegible] Project Name: Spal [illegible] SK

Project Manager: Rudolph Well No: MW-55 Date: 3/16/12

Well Depth: 35 Screen Length: _____ Well Diameter: 2" Casing Type: PVC

Sampling Device: [illegible] Tubing Type: [illegible] Water Level: 17.77

Measuring Point: [illegible] Pump/Pumping Rate: [illegible]

Other Information: [illegible]

Sampling Personnel: [illegible]

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	Water Level	Amount Purged
8:00	4.85	95	0.28	[illegible]	[illegible]	49.7	19.34	> ½ gal
[illegible]	5.38	93	[illegible]	6.31	[illegible]	[illegible]	19.96	> ½ gal
[illegible]	[illegible]	92	0.41	[illegible]	[illegible]	[illegible]	21.42	< 1 gal
[illegible]	6.[illegible]	92	[illegible]	[illegible]	15.93	[illegible]	20.31	[illegible]
[illegible]	[illegible]	73	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	6.21	92	0.21	6.90	[illegible]	[illegible]	20.[illegible]	1 [illegible]
[illegible]	6.16	93	0.[illegible]	5.52	16.75	[illegible]	21.63	1.75
10:45	6.15	94	0.25	5.[illegible]9	16.[illegible]	[illegible]	[illegible]	[illegible] gal
[illegible]	6.16	95	0.21	4.98	16.86	[illegible]	[illegible]	> 2 [illegible]
11:15	6.12	95	0.25	4.57	16.73	[illegible]	22.90	> 2.5
[illegible]	[illegible]	95	[illegible]	4.55	16.[illegible]	[illegible]	[illegible]	2.75

+/- 0.1 3% 10% 10% 10%

11:38

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Corners S/C

Project Manager: RICK RUDOLPH Well No: MW-6S Date: 3-15-2012

Well Depth: 15 Screen Length: 10 Well Diameter: 2 Casing Type: PVC

Sampling Device: YSI HANNA Tubing Type: LDPE 0.17" ID Water Level: 14.34 14.31-3.21 = 11.10 bags

Measuring Point: TOC Pump/Pumping Rate: 750 ml/min

Other Information: geopump peristaltic

Stick up 3 1/2" = 3.21

START 1007

Sampling Personnel: R Rudolph

	+/_ 01	3%	10%	10%		10%		
Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	WL (TOC)	Notes
1015	5.76	92	24.5	1.20	16.39	210.2	14.70	
1030	5.75	93	21.7	0.72	16.78	190.7	15.04	1 3/4" 0.67 gal
1045	5.75	96	21.8	0.41	17.76	141.5	15.07	3" 1.15 gal
1100	5.76	97	20.3	0.43	18.63	111.2	15.05	3 5/8" 1.39 gal
1105	5.76	97	20.5	0.43	18.72	109.4	15.05	4 1/8" 1.59 gal
1110	5.76	97	20.3	0.42	18.72	93.7	15.05	5" 1.92 gal
1112								

sampled for NA Parameters & VOCs @ 1112

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: 102-0603 Project Name: Sparkling Corners S/C
Project Manager: Rick Russell Well No: MW-7S Date: 3-15-2012
Well Depth: 8 Screen Length: 5 Well Diameter: 2" Casing Type: PVC
Sampling Device: Manual HD98703 Tubing Type: LDPE Water Level: 4.95
Measuring Point: TOC Pump/Pumping Rate: 150 ml/min
Other Information: gear pump peristaltic

Sampling Personnel: R Russell

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	[illegible]	Notes
1415	5.25	211	6.54	0.20	17.89	196.4	5.09	—
1430	5.27	184	4.60	0.14	17.40	169.6	5.09	2 3/8" = 0.9 gal
1445	5.25	176	4.24	0.14	17.17	170.4	5.09	4 3/8" = 1.87 gal
1500	5.19	172	4.40	0.10	15.91	172.8	5.11	5 3/8" = 2.07 gal
1505	5.21	173	4.68	0.10	16.16	173.2	5.11	5 7/8" = 2.16 gal
1515	5.22	175	5.01	0.10	16.49	178.6	5.11	6 7/8" = 2.64 gal
1520								8 1/8" = 3.12 gal

Sampled NR Parameters + VOCs @ 1520

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: 102-0063 Project Name: Spalding Corners S/C
Project Manager: Rick Rudolph Well No: MW-05 Date: 3-14-2008
Well Depth: 30 Screen Length: 10 Well Diameter: 2" Casing Type: PVC
Sampling Device: Hydrolift HL98703 Tubing Type: 1/4" OD 0.17 ID Water Level: 26.56
Measuring Point: 28.8' TOC Pump/Pumping Rate: 250 ml/min
Other Information: geopump penstaltic
Sampling Personnel: R Rudolph

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)		Notes
+/_ 01	3%		10%	10%		10%		29.25 in Hg
1436	—	—	—	—	—	—	26.95	
1450	5.72	115	7.11	1.10	20.06	111.3	26.88	1" 0.38 gal
1500	5.73	116	6.54	0.90	20.87	91.9	26.92	1½" 0.58 gal
1515	5.71	115	7.56	0.83	20.52	82.6	27.00	1¾" 0.67 gal
1530	5.69	112	6.37	0.76	21.03	80.4	26.90	2" 0.87 gal
1545	5.69	115	6.83	0.64	22.86	82.4	26.85	2¾" 1.06 gal
1600	5.68	116	7.50	0.66	22.41	82.7	26.83	3" 1.15 gal
1605	5.68	113	7.63	0.64	22.48	82.9	26.83	3¼" 1.25 gal
1610	5.68	113	8.73	0.65	22.18	82.9	26.84	3⅜ 1.30 gal
1615	5.68	111	9.75	0.62	21.99	87.4	26.85	3½

Sampled VOCs @ 1617

23" TOC mark clock side to pad

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Corners S/C
Project Manager: RICK RUDOLPH Well No: MW-9S Date: 3-14-2012
Well Depth: 41.5 Screen Length: 10 Well Diameter: 2" Casing Type: PVC
Sampling Device: HANNA HI 98703 YSI 556 MPS Tubing Type: 0.17" I.D. LDPE Water Level: 21.26
Measuring Point: 23 TOC Pump/Pumping Rate: 100 ml/min 225
Other Information: geopump peristaltic
Sampling Personnel: R Rudolph

41.5
21.26 TOC
20

21.29
10.31 gal

1700 start

white bucket
0.3846 gal/in

Bucket #1 1" = 4.23 gal
Bucket #2

+/_ 01 3% 10% 10% 10%

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	WL	Notes
1705	—	—	—	—	—	—	21.56	[illegible]
1720	6.03	132	0.24	6.05	18.47	202.6	21.50	1 1/8" = 0.43 gal
1730	6.00	133	0.25	5.57	18.95	185.6	21.46	2" = 0.77 gal
1745	5.97	131	0.29	5.93	18.23	185.3	21.53	3" = 1.15 gal
1800	5.90	129	0.19	5.89	17.46	182.7	21.64	5" = 1.92 gal
1815	5.92	129	0.21	6.01	17.33	180.0	21.64	7" = 2.69 gal
1830	5.92	132	0.35	5.89	17.22	179.2	21.65	8 5/8" = 3.32 gal
1845	5.92	134	0.40	5.88	16.97	178.6	21.68	10 5/8" = 4.09 gal
1900	5.92	134	0.40	5.77	16.83	179.3	21.68	+ 2" = + 0.77 gal
1905	5.92	135	0.31	5.67	16.79	179.0	21.68	2 1/2" = + 0.96 gal
1910	5.92	135	0.40	5.78	16.73	179.4	21.68	4 1/4" = + 1.53 gal
								TOTAL 5.76 gal

Sampled for VOCs @ 1913

31 1/4" TOC
to pad
on roadside

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: 102 063 Project Name: Spaulding Corners S/C
Project Manager: Rudolph Well No: MW-10S Date: 3/14/12
Well Depth: 40 Screen Length: 10 Well Diameter: 2" Casing Type: PV
Sampling Device: YSI-556 Tubing Type: ½ poly Water Level: 29.80
Measuring Point: 35' Pump/Pumping Rate: 235 ml/min
Other Information: bladder pump

Sampling Personnel: [illegible] 29.27 in Hg

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	Water Level	Amount Purged
16:25	4.21	77	150	5.48	18.38	11.1	30.05	1 gal
16:40	4.92	81	100	5.57	18.30	-2.1	30.05	2 gal
16:55	5.12	83	40	5.60	18.21	-7.0	30.05	3 gal
17:00	5.15	84	39	5.58	18.30	-7.2	30.05	3.3
17:05	5.18	84	29	5.61	18.32	-5.7	30.05	[illegible]
17:10	5.12	84	23	5.60	18.09	-8.7	30.05	4.0 gal
17:15	5.11	85	19	5.60	18.13	-6.3	30.05	4.3
17:20	5.13	85	23	5.56	18.38	-6.7	30.05	4.6
17:25	5.15	85	19.4	5.61	18.17	-6.0	30.05	5 gal
17:30	5.14	86	17.7	5.61	18.16	-1.2	30.05	5.3 gal

+/- 0.1 3% 10% 10% 10%

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: [illegible] Project Name: [illegible]

Project Manager: [illegible] Well No: MW-135 Date: 3/12/12

Well Depth: 50' Screen Length: [illegible] Well Diameter: 2" Casing Type: [illegible]

Sampling Device: [illegible] Tubing Type: [illegible] Water Level: 35 [illegible]

Measuring Point: 47' Pump/Pumping Rate: 190 [illegible]

Other Information: [illegible]

Sampling Personnel: [illegible]

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	Water Level	Amount Purged
	5.79	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11:[illegible]	[illegible]	105	410.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	5.82	156	29.7	5.35	20.3[illegible]	25.[illegible]	36.[illegible]	[illegible]
[illegible]	[illegible]	106	26.9	[illegible]	20.4[illegible]	26.[illegible]	[illegible]	[illegible]
2[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]39	26.[illegible]	[illegible]	5 [illegible]
12:30	5.85	105	17.0	5.62	[illegible]	[illegible]	[illegible]	[illegible]
12:3[illegible]	[illegible]	105	17.1	[illegible]	20.75	26.1	36.45	
[illegible]	5.8[illegible]	105	17.2	5.68	20.66	26.4	36.[illegible]	
[illegible]	5.96	105	16.[illegible]	5.68	2[illegible].57	23.[illegible]	36.[illegible]	
[illegible]	[illegible]	106	15.3	5.73	[illegible]	[illegible]	[illegible]	[illegible]
+/- 0.1	3%	10%	10%		10%			

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Cross

Project Manager: Rudolph Well No: MW-145 Date: 3/12/12

Well Depth: 45 Screen Length: 10 Well Diameter: 2" Casing Type: PVC

Sampling Device: [illegible] Tubing Type: [illegible] Water Level: 37.00

Measuring Point: [illegible] Pump/Pumping Rate: 165 ml/[illegible]

Other Information: [illegible]

Sampling Personnel: [illegible]

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	Water Level	Amount Purged
8:15	5.90	98	66.7	5.56	17.98	19.7	37.25	1 gal
8:40	5.83	94	31.4	5.50	17.90	26.5	37.25	3 gal
9:00	5.7[illegible]	90	27.3	6.01	17.77	29.2	37.25	
9:05	5.77	90	23.4	[illegible]	[illegible]	[illegible]	[illegible]	3 gal
[illegible]	5.72	90	19.5	6.00	17.69	28.7	37.25	
[illegible]	5.80	90	19.6	6.07	17.77	27.2	[illegible]	
[illegible]	5.8[illegible]	90	16.4	6.12	17.66	26.6	37.25	
1:00	5.75	[illegible]	17.6	6.15	[illegible]	27.4	37.2[illegible]	
1:30	5.75	[illegible]	17.1	[illegible]	17.[illegible]	27.[illegible]	37.25	4 gal
+/- 0.1	3%	10%	10%		10%			

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: [illegible] Project Name: [illegible]

Project Manager: Rudolph Well No: MW-155 Date: 3/13

Well Depth: 55 Screen Length: 20' Well Diameter: 2 Casing Type: PVC

Sampling Device: YSI-556 Tubing Type: 1/4 poly Water Level: 31.38

Measuring Point: 45 (mid point) Pump/Pumping Rate: 250 ml/min

Other Information: bladder pump (internal)

Sampling Personnel: Shaw 29.23 in Hg

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	Water Level	Amount Purged
16:20	4.55	93	190	5.54	19.63	25.1	39.65	1.5 gal
16:30	5.19	95	23	5.41	19.51	-4.6	39.65	2.25 gal
16:40	5.29	92	21	5.52	19.33	-2.6	39.65	[illegible]
16:50	5.34	93	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17:00	5.36	[illegible]	11	[illegible]	19.42	-14.3	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

+/- 0.1 3% 10% 10% 10%

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: 102-063 Project Name: [illegible]

Project Manager: [illegible] Well No: [illegible] Date: 3/12/[illegible]

Well Depth: 43 Screen Length: 5' Well Diameter: 2" Casing Type: PVC

Sampling Device: YSI 556 Tubing Type: 1/4 poly Water Level: 33.34

Measuring Point: 4 1' Pump/Pumping Rate: 195 ml/min

Other Information: Bladder Pump

Sampling Personnel: Sha. [illegible]

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	Water Level	Amount Purged
15:05	10.93	952	[illegible]	9.95	17.06	-82.1	36.63	2 gal
15:25	11.41	[illegible]	8.5	9.81	17.06	-91.1	36.62	3 gal
15:40	11.65	916	7.6	[illegible]	17.12	93.0	[illegible]	
[illegible]:45	11.74	920	7.5	9.96	17.13	-94.0	36.62	1 gal
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	11.21	922	7.1	9.93	17.07	[illegible]	[illegible]	
[illegible]	11.91	926	7.2	9.92	[illegible]	-98.6	36.62	
[illegible]	11.96	925	7.1	10.01	[illegible]	-99.6	36.60	5 gal
16:10	11.98	926	6.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
+/- 0.1		3%	10%	10%		10%		

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Corners S/C

Project Manager: Rudolph Well No: MW-17S Date: 3/15/12

Well Depth: 46 Screen Length: 10 Well Diameter: 2" Casing Type: PVC

Sampling Device: YSI-556 Tubing Type: ½ poly Water Level: 31.10

Measuring Point: 36' BGS Pump/Pumping Rate: 115 ml/min

Other Information: Bladder pump

It takes 4.9 min for the water @ the intake of the pump to reach the discharge of the flow cell

Sampling Personnel: [illegible] [illegible]

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	Water Level	Amount Purged
15:15	5.75	110	49.2	4.69	18.66	2.1	33.0	3 gal
15:30	5.60	109	45.7	4.67	18.69	-4.3	33.0	3.5 gal
15:45	5.80	110	38.1	4.72	18.93	-0.8	33.0	<4.25
16:00	5.81	109	32.1	4.75	18.39	-2.2	33.0	4.5 gal
16:15	5.81	108	34.3	4.72	18.54	0.8	33.0	<5 gal

	+/- 0.1	3%	10%	10%		10%		

Stick up
37.63'
7.53'

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Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: [illegible] Project Name: Spalding Gas S/C

Project Manager: [illegible] Well No: MW-18S Date: 3/15/18

Well Depth: 33.5 Screen Length: [illegible] Well Diameter: 2" Casing Type: PVC

Sampling Device: [illegible] Tubing Type: [illegible] Water Level: 27.16

Measuring Point: [illegible] Pump/Pumping Rate: [illegible]

Other Information: [illegible]

Sampling Personnel: [illegible]

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	Water Level	Amount Purged
10:15	[illegible]	2213	12.3	[illegible]	[illegible]	[illegible]	[illegible]	.75 [illegible]
10:21	[illegible]	[illegible]	30.3	[illegible]	[illegible]	[illegible]	27.30	1.75 [illegible]
10:25	[illegible]	[illegible]	17.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	6.71	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	19.7	3.64	16.[illegible]	-416.3	[illegible]	
[illegible]	[illegible]	2168	[illegible]	3.71	16.95	-416.7	[illegible]	[illegible]
[illegible]	8.12	2173	10.2	[illegible]	16.96	[illegible]	[illegible]	< 3.[illegible]
[illegible]	[illegible]	[illegible]	9.8	[illegible]	17.17	-419.[illegible]	[illegible]	< 3.[illegible]

+/- 0.1 3% 10% 10% 10%

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Furnace S/C
Project Manager: RICK RUDOLPH Well No: MW-19S Date: 3-14-2012
Well Depth: 33 Screen Length: 10 Well Diameter: 2" Casing Type: PVC
Sampling Device: YSI 556 MPS HANNA HI 98703 Tubing Type: LDPE 0.17" Water Level: 17.19
Measuring Point: 19 TOC Pump/Pumping Rate: 225 ml/min
Other Information: geopump peristaltic

Start 940-1100 tube @ 20' cte of screen bucket #1

Sampling Personnel: R Rudolph

while bucket = 0.3846 gal/in
13" = 5.0 gal
bucket #1 11½" = 4.42 g

	+/_ 01	5%	3%	10%	0.2 mg/L 10%	10%			
Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	W2 (TOC) 4	Notes bucket #2
1100	—	—	—	—	—	—		
1105	6.70	367	0.87	4.61	17.23	313.4	17.34	2⅞" = 1.11 gal
1115	6.73	263	0.96	5.42	17.03	364.5	17.38	—
1130	6.62	408	1.72	0.90	17.41	408.1	17.41	—
1140	6.62	451	0.41	0.38	17.24	383.3	17.42	4.5" = 1.73 gal
1145	6.61	453	0.47	0.24	17.23	372.8	17.42	5.5" = 2.12 gal
1150	6.62	459	0.56	0.24	17.16	363.1	17.42	6⅛" = 2.37
1155	6.61	459	0.34	0.10	17.19	354.4	17.42	7½
1200	6.61	463	0.44	0.16	17.43	346.0	17.42	7¾
								8½

Sampled NA Parameters then VOCs 1200

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Corners S/C
Project Manager: RICK RUDORF Well No: MW-20S Date: 3-12-2012
Well Depth: 25' Screen Length: _____ Well Diameter: 2" Casing Type: PVC
Sampling Device: YSI 556 MPS ~~MINI HI 98103~~ Tubing Type: HDPE 0.17" Water Level: 15.38 @ 1442
Measuring Point: 25' top 22.5' Pump/Pumping Rate: 225 ml/min 4.7
Other Information: Geopump peristaltic

Sampling Personnel: R Rudorf

1" = 0.3846
13" = 5.0 gal

+/_ 01 3% 10% 10% 10%

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	WL	Notes
1413	—		—	—	—	—	15.48	~~Elevation~~ 0
1425	7.31	486	28.8	1.96	15.75	126.0	15.49	225 ml/min 2¼" 0.87
1435	7.36	468	17.2	1.18	15.66	112.8	15.49	3½" 1.35
1445	7.39	481	11.3	0.90	15.58	109.7	15.49	4¾ 1.84
1500	7.37	493	7.85	0.60	15.59	94.2	15.49	6¾ 2.60
1515	7.34	501	7.41	0.44	15.62	67.7	15.49	8⅞ 3.41
1520	7.37	505	7.06	0.39	15.63	61.3	15.49	9⅝ 3.70
1525	7.37	507	6.80	0.37	15.69	58.2	15.49	10¼ 3.94
1530	7.35	511	7.60	0.33	15.66	51.1	15.49	11 4.23
1535	7.34	511	7.46	0.34	15.67	46.9	15.49	11½ 4.42
1540	7.33	511	10.1	0.30	15.71	42.7	15.49	12 4.62
1545	7.34	513	8.21	0.29	15.68	41.8	15.49	12⅞ 4.95
1550								14½ 5.58

Sampled for VOCs + NA Parameters @ 1558

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: 102-063 Project Name: Spaldings Cross S/C

Project Manager: Ronalan Well No: MW-21S Date: 3/6/[illegible]

Well Depth: 29 Screen Length: _____ Well Diameter: 2" Casing Type: PVC

Sampling Device: YSI-556 Tubing Type: 0.17" Water Level: 26.10

Measuring Point: 24 Pump/Pumping Rate: 115 ml/min pump set as slow as it would go

Other Information: Peristaltic

Sampling Personnel: Short 29.33 in Hg

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	Water Level	Amount Purged
13:15	4.73	92	1.39	4.71	23.19	24.5	26.34	1363 ml
13:20	5.19	92	1.37	5.07	21.77	2.4	26.36	1798 ml
13:25								
13:30	5.24	93	1.29	4.65	22.0	-1.6	26.39	2158 ml
13:35	5.17	93	1.09	4.63	21.61	0.9	26.40	2517 ml
13:40								
13:45	5.29	94	0.95	4.38	21.02	-2.6	26.40	3237 ml
13:50	5.35	93	0.99	4.56	21.87	-1.8	26.43	3597 ml
13:55	5.35	94	0.91	4.73	21.19	-3.1	26.44	3960 ml
14:00	5.34	94	0.95	4.61	20.63	-0.8	26.44	4325 ml
14:05	5.37	93	0.94	4.54	21.75	0.5	26.44	4757 ml
14:10	5.40	94	0.95	4.32	22.23	-1.1	26.44	5107 ml
14:15	5.43	95	0.95	4.27	22.43	-3.9	26.44	5467 ml
14:20	5.43	94	0.95	4.26	23.05	-5.3	26.44	5827 ml 1.5 gal
	+/- 0.1	3%	10%	10%		10%		

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: [illegible] Project Name: [illegible]

Project Manager: [illegible] Well No: MW-1 [illegible] Date: 3/13/[illegible]

Well Depth: [illegible] Screen Length: [illegible] Well Diameter: [illegible] Casing Type: [illegible]

Sampling Device: [illegible] Tubing Type: [illegible] Water Level: 36.8[illegible]

Measuring Point: [illegible] Pump/Pumping Rate: [illegible]

Other Information: bladder pump

Sampling Personnel: [illegible]

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	Water Level	Amount Purged
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	8.41	291	1.7	0.20	19.35	-156.6	56.46	5.25 gal
12:30	8.40	293	1.2	0.16	20.00	-188.5	51.18	[illegible]
13:15	8.43	296	1.3	0.13	20.79	-215.3	51.80	7.25
14:00	8.43	297	1.0	0.11	21.07	-220.6	52.04	8.35
14:45	8.46	292	1.1	0.19	20.32	-239.9	52.93	9.25 gal
15:00	8.46	293	0.9	0.19	20.38	-236.4	53.29	9.6 gal

+/- 0.1 3% 10% 10% 10%

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: 102-067 Project Name: Spalding Canners S/C

Project Manager: Rudolph Well No: SW-2 Date: 3/16/12

Well Depth: N/A Screen Length: N/A Well Diameter: N/A Casing Type: N/A

Sampling Device: YSI 556 Tubing Type: .17 Water Level: N/A

Measuring Point: just under surface Pump/Pumping Rate: 140 ml/min

Other Information: Peristaltic

Surface water

Sampling Personnel: Short 29.29 in Hg

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	Water Level	Amount Purged
15:10	3.52	396	3.09	2.67	17.86	-59.7	N/A	1400 ml
15:15	4.31	396	2.99	2.54	19.13	-80.0	N/A	2100 ml
15:20	4.55	397	2.95	2.55	18.19	-86.[illegible]	N/A	2800 ml
15:25	4.58	396	2.97	2.49	18.55	-90.3	N/A	3500 ml

+/- 0.1 3% 10% 10% 10%

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Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: [illegible] Project Name: [illegible]

Project Manager: [illegible] Well No: SW-3 Date: 3/16/[illegible]

Well Depth: N/A Screen Length: N/A Well Diameter: N/A Casing Type: N/A

Sampling Device: YSI 55[illegible] Tubing Type: [illegible] Water Level: N/A

Measuring Point: [illegible] Pump/Pumping Rate: 265 ml/min

Other Information: [illegible]

Sampling Personnel: [illegible]

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	Water Level	Amount Purged
16:00	4.92	278	2.09	3.38	17.98	-44.6	N/A	2[illegible] ml
16:05	4.59	276	2.05	3.65	17.79	-36.0	N/A	3445 ml
16:10	4.82	275	2.06	3.94	17.66	-37.0	N/A	47[illegible] ml
16:15	4.95	274		4.22	17.75	-33.1	N/A	6095 ml
	+/- 0.1	3%	10%	10%		10%		

Sailors Engineering Associates, Inc
Groundwater Sampling Log

Project No: [illegible] Project Name: Spalding [illegible] S/C

Project Manager: [illegible] Well No: SW-5 Date: 3/19/12

Well Depth: 6[illegible] Screen Length: 5 Well Diameter: 2" Casing Type: PVC

Sampling Device: [illegible] Tubing Type: [illegible] Water Level: 3.35

Measuring Point: [illegible] Pump/Pumping Rate: 85 ml/min → 145 ml/min

Other Information: Slow as pump would go - [illegible]

Sampling Personnel: [illegible]

Time	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C/°F)	ORP (mV)	Water Level	Amount Purged
11:50	4.69	122	10	1.27	17.78	3.8	3.45	595 ml
11:55	3.26	122	10	1.05	17.77	29.5	3.45	1020 ml
12:00	3.99	121	11	0.83	17.34	15.6	3.45	1605 ml
12:05	4.20	119	10	0.66	17.37	-73.7	3.45	2180 ml
12:10	4.49	118	10	0.57	17.68	-103.7	3.45	2765 ml
12:15	4.85	118	10	0.47	17.96	-119.7	3.45	3340 ml
	Hard to change batteries on pump because							7190
	[illegible] New battery				= 145 ml/min @ slowest			rate
12:35	2.69	118	10	0.22	16.28	-64.0	3.51	5640 ml
12:50	4.43	118	11	0.15	16.54	-115.7	3.58	7090 ml
12:55	4.72	119	11	0.14	16.78	-121.9	3.58	7815 ml
13:00	4.85	118	10	0.14	16.81	-125.4	3.58	8530 ml
13:05	4.93	119	10	0.13	16.89	-127.4	3.58	9255 ml ?
								> 3 well vol.
+/- 0.1	3%	10%	10%		10%			

APPENDIX 4

MONITORED NATURAL ATTENUATION SCREENING PROTOCOL WORKSHEETS

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* reductive dechlorination

Score: 7

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	◉	○	3
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	○	◉	0
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	○	
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.
a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE

Reset

Spalding Corners Shopping Center
HSI #10639
SEA Job #102-063

MW-7S

NA Parameters
3rd Semi-Annual, April 2012
Low-Flow Purged and Sampled 3-15-12

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* reductive dechlorination

Score: 7

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	◉	○	3
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	○	◉	0
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	○	◉	0
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	◉	○	2
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	○	
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.
a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

End of Form

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* reductive dechlorination

Score: 0

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	◉	○	-3
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	○	◉	0
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	○	
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.
a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

End of Form

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* reductive dechlorination

Score: 0

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	◉	○	-3
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	○	◉	0
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	○	
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE

Reset

End of Form

Spalding Corners Shopping Center
HSI #10639
SEA Job #102-063

MW-15S

NA Parameters
3rd Semi-Annual, April 2012
Low-Flow Purged and Sampled 3-13-12

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* reductive dechlorination

Score: 0

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	◉	○	-3
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	○	◉	0
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	○	
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.
a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

End of Form

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* reductive dechlorination

Score: 2

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	◉	○	-3
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	○	◉	0
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	○	◉	0
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	◉	○	2
pH*	5 < pH < 9	Optimal range for reductive pathway	○	◉	-2
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	○	
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	◉	○	2
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.
a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

End of Form

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* reductive dechlorination

Score: 3

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	○	◉	0
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	○	
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

End of Form

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* reductive dechlorination

Score: 3

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	◉	○	3
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	○	◉	0
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	○	◉	0
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	○	◉	0
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	○	
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.
a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

End of Form

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of the scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* reductive dechlorination

Score: 8

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	◉	○	3
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	○	◉	0
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	○	
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.
a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

End of Form

Spalding Corners Shopping Center
HSI #10639
SEA Job #102-063

MW-1D

NA Parameters
3rd Semi-Annual, April 2012
Low-Flow Purged and Sampled 3-13-12

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of the scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

* reductive dechlorination

Score: 11

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	◉	○	3
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	◉	○	2
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	◉	○	1
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds, carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	○	
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.
a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

End of Form

APPENDIX 5

LABORATORY DATA SHEETS - GROUNDWATER AND SEEP WATER

AND LABORATORY CERTIFICATION

FLORIDA DEPARTMENT OF HEALTH

State of Florida
Department of Health, Bureau of Laboratories
This is to certify that
E87582

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3785 PRESIDENTIAL PARKWAY
ATLANTA, GA 30340

has complied with Florida Administrative Code 64E-1,
for the examination of Environmental samples in the following categories

DRINKING WATER - MICROBIOLOGY, NON-POTABLE WATER - EXTRACTABLE ORGANICS, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS, NON-POTABLE WATER - MICROBIOLOGY, NON-POTABLE WATER - PESTICIDES-HERBICIDES-PCB'S, NON-POTABLE WATER - VOLATILE ORGANICS, SOLID AND CHEMICAL MATERIALS - EXTRACTABLE ORGANICS, SOLID AND CHEMICAL MATERIALS - GENERAL CHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS, SOLID AND CHEMICAL MATERIALS - PESTICIDES-HERBICIDES-PCB'S, SOLID AND CHEMICAL MATERIALS - VOLATILE ORGANICS

Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: July 01, 2011 Expiration Date: June 30, 2012

Max Salfinger, M.D.
Chief, Bureau of Laboratories
Florida Department of Health
DH Form 1697, 7/04
NON-TRANSFERABLE E87582-17-07/01/2011
Supersedes all previously issued certificates

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 19, 2012

Rick Rudolph
Sailors Engineering Associates
1675 Spectrum Drive
Lawrenceville GA 30043

TEL: (770) 962-5922
FAX: (770) 962-7964

RE: Spalding Corners S/C

Dear Rick Rudolph: Order No: 1203979

Analytical Environmental Services, Inc. received 5 samples on March 12, 2012 5:30 pm for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Sharissa Hall
Project Manager

Revision 3/19/2012

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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

CHAIN OF CUSTODY

Work Order: 1203979

Date: 3/12/12 Page 1 of 1

COMPANY: Sailors Eng. Assoc.

ADDRESS: 1675 Spectrum Dr Lawrenceville, GA 30043

PHONE: 770-962-5922

FAX:

SAMPLED BY: Michael Short

SIGNATURE: [signature]

ANALYSIS REQUESTED

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8260B	TOC	Sulfate, Nitrate, Nitrite	Ferrous/Ferric Iron	Total Iron	Mn, Fe, Ca	Sulfide							REMARKS	No # of Containers
							PRESERVATION (See codes)														
1	Trip Blank	3/12		/		W	/														2
2	MW-14S	3/12	9:42	/		GW	/	/	/	/	/	/	/								9
3	MW-13S	3/12	12:53	/		GW	/														2
4	MW-20S	3/12	15:50	/		GW	/	/	/	/	/	/	/								9
5	MW-16S	3/12	16:21	/		GW	/	/	/	/	/	/	/								9
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: [signature]	3/12/12 17:30	1: N Dunn 3/12/12 17:30	
2:		2:	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: Spalding Corners S/C

PROJECT #: 102-063

SITE ADDRESS: 7700 Spalding Dr Norcross

SEND REPORT TO: Rick Rudolph

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 31

Turnaround Time Request
- (✓) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

STATE PROGRAM (if any):

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS: Short Hold Time

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 19-Mar-12

Client: Sailors Engineering Associates
Project: Spalding Corners S/C
Lab ID: 1203979

Case Narrative

Per Rick Rudolph 3/16/2012 11:41am, chloride is required in addition to sulfate, nitrate, and nitrite.

Ion Chromatography Analysis by Method 9056:

Due to sample matrix, sample 1203979-005G required a dilution during preparation and/or analysis resulting in elevated reporting limits for Chloride and Nitrite.

Analytical Environmental Services, Inc **Date:** 19-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Corners S/C	**Collection Date:**	3/12/2012
Lab ID:	1203979-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
1,1-Dichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
1,1-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
1,2-Dibromoethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
1,2-Dichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
1,2-Dichloropropane	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
2-Butanone	BRL	50		ug/L	158944	1	03/14/2012 18:22	SB
2-Hexanone	BRL	10		ug/L	158944	1	03/14/2012 18:22	SB
4-Methyl-2-pentanone	BRL	10		ug/L	158944	1	03/14/2012 18:22	SB
Acetone	BRL	50		ug/L	158944	1	03/14/2012 18:22	SB
Benzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Bromodichloromethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Bromoform	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Bromomethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Carbon disulfide	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Carbon tetrachloride	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Chlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Chloroethane	BRL	10		ug/L	158944	1	03/14/2012 18:22	SB
Chloroform	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Chloromethane	BRL	10		ug/L	158944	1	03/14/2012 18:22	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Cyclohexane	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Dibromochloromethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Dichlorodifluoromethane	BRL	10		ug/L	158944	1	03/14/2012 18:22	SB
Ethylbenzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Freon-113	BRL	10		ug/L	158944	1	03/14/2012 18:22	SB
Isopropylbenzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
m,p-Xylene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Methyl acetate	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Methylcyclohexane	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Methylene chloride	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
o-Xylene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 19-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Corners S/C	**Collection Date:**	3/12/2012
Lab ID:	1203979-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Tetrachloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Toluene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Trichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Trichlorofluoromethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:22	SB
Vinyl chloride	BRL	2.0		ug/L	158944	1	03/14/2012 18:22	SB
Surr: 4-Bromofluorobenzene	96.4	67.4-123		%REC	158944	1	03/14/2012 18:22	SB
Surr: Dibromofluoromethane	101	75.5-128		%REC	158944	1	03/14/2012 18:22	SB
Surr: Toluene-d8	98.4	70-120		%REC	158944	1	03/14/2012 18:22	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 19-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-14S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/12/2012 9:42:00 AM
Lab ID:	1203979-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R216957	1	03/13/2012 08:53	GR
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
1,1-Dichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
1,1-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
1,2-Dibromoethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
1,2-Dichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
1,2-Dichloropropane	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
2-Butanone	BRL	50		ug/L	158944	1	03/14/2012 20:44	SB
2-Hexanone	BRL	10		ug/L	158944	1	03/14/2012 20:44	SB
4-Methyl-2-pentanone	BRL	10		ug/L	158944	1	03/14/2012 20:44	SB
Acetone	BRL	50		ug/L	158944	1	03/14/2012 20:44	SB
Benzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Bromodichloromethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Bromoform	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Bromomethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Carbon disulfide	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Carbon tetrachloride	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Chlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Chloroethane	BRL	10		ug/L	158944	1	03/14/2012 20:44	SB
Chloroform	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Chloromethane	BRL	10		ug/L	158944	1	03/14/2012 20:44	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Cyclohexane	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Dibromochloromethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Dichlorodifluoromethane	BRL	10		ug/L	158944	1	03/14/2012 20:44	SB
Ethylbenzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Freon-113	BRL	10		ug/L	158944	1	03/14/2012 20:44	SB
Isopropylbenzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
m,p-Xylene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Methyl acetate	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 19-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-14S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/12/2012 9:42:00 AM
Lab ID:	1203979-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Methylene chloride	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
o-Xylene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Styrene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Tetrachloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Toluene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Trichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Trichlorofluoromethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:44	SB
Vinyl chloride	BRL	2.0		ug/L	158944	1	03/14/2012 20:44	SB
Surr: 4-Bromofluorobenzene	97.6	67.4-123		%REC	158944	1	03/14/2012 20:44	SB
Surr: Dibromofluoromethane	102	75.5-128		%REC	158944	1	03/14/2012 20:44	SB
Surr: Toluene-d8	96	70-120		%REC	158944	1	03/14/2012 20:44	SB
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	159066	1	03/16/2012 16:30	AS
ION SCAN SW9056A								
Chloride	5.3	1.0		mg/L	R217018	1	03/13/2012 09:12	GR
Nitrate	2.9	0.25		mg/L	R217018	1	03/13/2012 09:12	GR
Nitrite	BRL	0.25		mg/L	R217018	1	03/13/2012 09:12	GR
Sulfate	BRL	1.0		mg/L	R217018	1	03/13/2012 09:12	GR
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	158866	1	03/13/2012 12:16	SN
Ethylene	BRL	7		ug/L	158866	1	03/13/2012 12:16	SN
Methane	BRL	4		ug/L	158866	1	03/13/2012 12:16	SN
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	1.06	0.100		mg/L	R217195	1	03/13/2012 09:15	CG
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R217195	1	03/13/2012 09:15	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	1.06	0.100		mg/L	158905	1	03/14/2012 18:01	TA

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 19-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-13S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/12/2012 12:53:00 PM
Lab ID:	1203979-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
1,1-Dichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
1,1-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
1,2-Dibromoethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
1,2-Dichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
1,2-Dichloropropane	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
2-Butanone	BRL	50		ug/L	158944	1	03/14/2012 21:41	SB
2-Hexanone	BRL	10		ug/L	158944	1	03/14/2012 21:41	SB
4-Methyl-2-pentanone	BRL	10		ug/L	158944	1	03/14/2012 21:41	SB
Acetone	BRL	50		ug/L	158944	1	03/14/2012 21:41	SB
Benzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Bromodichloromethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Bromoform	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Bromomethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Carbon disulfide	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Carbon tetrachloride	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Chlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Chloroethane	BRL	10		ug/L	158944	1	03/14/2012 21:41	SB
Chloroform	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Chloromethane	BRL	10		ug/L	158944	1	03/14/2012 21:41	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Cyclohexane	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Dibromochloromethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Dichlorodifluoromethane	BRL	10		ug/L	158944	1	03/14/2012 21:41	SB
Ethylbenzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Freon-113	BRL	10		ug/L	158944	1	03/14/2012 21:41	SB
Isopropylbenzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
m,p-Xylene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Methyl acetate	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Methylcyclohexane	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Methylene chloride	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
o-Xylene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 19-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-13S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/12/2012 12:53:00 PM
Lab ID:	1203979-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Tetrachloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Toluene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Trichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Trichlorofluoromethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:41	SB
Vinyl chloride	BRL	2.0		ug/L	158944	1	03/14/2012 21:41	SB
Surr: 4-Bromofluorobenzene	96.7	67.4-123		%REC	158944	1	03/14/2012 21:41	SB
Surr: Dibromofluoromethane	103	75.5-128		%REC	158944	1	03/14/2012 21:41	SB
Surr: Toluene-d8	96.4	70-120		%REC	158944	1	03/14/2012 21:41	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 19-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-20S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/12/2012 3:50:00 PM
Lab ID:	1203979-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R216957	1	03/13/2012 09:16	GR
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
1,1-Dichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
1,1-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
1,2-Dibromoethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
1,2-Dichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
1,2-Dichloropropane	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
2-Butanone	BRL	50		ug/L	158944	1	03/14/2012 21:13	SB
2-Hexanone	BRL	10		ug/L	158944	1	03/14/2012 21:13	SB
4-Methyl-2-pentanone	BRL	10		ug/L	158944	1	03/14/2012 21:13	SB
Acetone	BRL	50		ug/L	158944	1	03/14/2012 21:13	SB
Benzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Bromodichloromethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Bromoform	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Bromomethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Carbon disulfide	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Carbon tetrachloride	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Chlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Chloroethane	BRL	10		ug/L	158944	1	03/14/2012 21:13	SB
Chloroform	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Chloromethane	BRL	10		ug/L	158944	1	03/14/2012 21:13	SB
cis-1,2-Dichloroethene	6.2	5.0		ug/L	158944	1	03/14/2012 21:13	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Cyclohexane	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Dibromochloromethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Dichlorodifluoromethane	BRL	10		ug/L	158944	1	03/14/2012 21:13	SB
Ethylbenzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Freon-113	BRL	10		ug/L	158944	1	03/14/2012 21:13	SB
Isopropylbenzene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
m,p-Xylene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Methyl acetate	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 19-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-20S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/12/2012 3:50:00 PM
Lab ID:	1203979-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Methylene chloride	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
o-Xylene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Styrene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Tetrachloroethene	41	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Toluene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Trichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Trichlorofluoromethane	BRL	5.0		ug/L	158944	1	03/14/2012 21:13	SB
Vinyl chloride	BRL	2.0		ug/L	158944	1	03/14/2012 21:13	SB
Surr: 4-Bromofluorobenzene	91.9	67.4-123		%REC	158944	1	03/14/2012 21:13	SB
Surr: Dibromofluoromethane	102	75.5-128		%REC	158944	1	03/14/2012 21:13	SB
Surr: Toluene-d8	99	70-120		%REC	158944	1	03/14/2012 21:13	SB
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	159066	1	03/16/2012 16:30	AS
ION SCAN SW9056A								
Chloride	4.9	1.0		mg/L	R217018	1	03/13/2012 09:26	GR
Nitrate	0.36	0.25		mg/L	R217018	1	03/13/2012 09:26	GR
Nitrite	BRL	0.25		mg/L	R217018	1	03/13/2012 09:26	GR
Sulfate	20	1.0		mg/L	R217018	1	03/13/2012 09:26	GR
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	158866	1	03/13/2012 12:21	SN
Ethylene	BRL	7		ug/L	158866	1	03/13/2012 12:21	SN
Methane	18	4		ug/L	158866	1	03/13/2012 12:21	SN
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	0.173	0.100		mg/L	R217195	1	03/13/2012 09:15	CG
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R217195	1	03/13/2012 09:15	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	0.173	0.100		mg/L	158905	1	03/14/2012 18:06	TA

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 19-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-16S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/12/2012 4:21:00 PM
Lab ID:	1203979-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R216957	1	03/13/2012 09:39	GR
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
1,1-Dichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
1,1-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
1,2-Dibromoethane	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
1,2-Dichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
1,2-Dichloropropane	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
2-Butanone	BRL	50		ug/L	158944	1	03/14/2012 16:29	SB
2-Hexanone	BRL	10		ug/L	158944	1	03/14/2012 16:29	SB
4-Methyl-2-pentanone	BRL	10		ug/L	158944	1	03/14/2012 16:29	SB
Acetone	BRL	50		ug/L	158944	1	03/14/2012 16:29	SB
Benzene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Bromodichloromethane	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Bromoform	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Bromomethane	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Carbon disulfide	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Carbon tetrachloride	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Chlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Chloroethane	BRL	10		ug/L	158944	1	03/14/2012 16:29	SB
Chloroform	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Chloromethane	BRL	10		ug/L	158944	1	03/14/2012 16:29	SB
cis-1,2-Dichloroethene	5.0	5.0		ug/L	158944	1	03/14/2012 16:29	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Cyclohexane	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Dibromochloromethane	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Dichlorodifluoromethane	BRL	10		ug/L	158944	1	03/14/2012 16:29	SB
Ethylbenzene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Freon-113	BRL	10		ug/L	158944	1	03/14/2012 16:29	SB
Isopropylbenzene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
m,p-Xylene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Methyl acetate	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 19-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-16S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/12/2012 4:21:00 PM
Lab ID:	1203979-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Methylene chloride	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
o-Xylene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Styrene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Tetrachloroethene	560	50		ug/L	158944	10	03/14/2012 17:54	SB
Toluene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Trichloroethene	7.2	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Trichlorofluoromethane	BRL	5.0		ug/L	158944	1	03/14/2012 16:29	SB
Vinyl chloride	BRL	2.0		ug/L	158944	1	03/14/2012 16:29	SB
Surr: 4-Bromofluorobenzene	94	67.4-123		%REC	158944	1	03/14/2012 16:29	SB
Surr: 4-Bromofluorobenzene	92.8	67.4-123		%REC	158944	10	03/14/2012 17:54	SB
Surr: Dibromofluoromethane	99.3	75.5-128		%REC	158944	10	03/14/2012 17:54	SB
Surr: Dibromofluoromethane	101	75.5-128		%REC	158944	1	03/14/2012 16:29	SB
Surr: Toluene-d8	93.4	70-120		%REC	158944	10	03/14/2012 17:54	SB
Surr: Toluene-d8	96.5	70-120		%REC	158944	1	03/14/2012 16:29	SB
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	159066	1	03/16/2012 16:30	AS
ION SCAN SW9056A								
Chloride	BRL	10		mg/L	R217018	10	03/13/2012 09:41	GR
Nitrate	2.7	2.5		mg/L	R217018	10	03/13/2012 09:41	GR
Nitrite	BRL	2.5		mg/L	R217018	10	03/13/2012 09:41	GR
Sulfate	110	10		mg/L	R217018	10	03/13/2012 09:41	GR
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	158866	1	03/13/2012 12:26	SN
Ethylene	BRL	7		ug/L	158866	1	03/13/2012 12:26	SN
Methane	BRL	4		ug/L	158866	1	03/13/2012 12:26	SN
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	0.240	0.100		mg/L	R217195	1	03/13/2012 09:15	CG
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R217195	1	03/13/2012 09:15	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	0.240	0.100		mg/L	158905	1	03/14/2012 18:10	TA

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Sailors Work Order Number 1203878

Checklist completed by [signature] 3/12/12
Signature Date

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

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes ✓	No __	

Cooler #1 3.6 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by MJ

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc

Date: 19-Mar-12

Client: Sailors Engineering Associates
Project: Spalding Corners S/C
Lab Order: 1203979

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1203979-001A	TRIP BLANK	3/12/2012 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		03/14/2012	03/14/2012
1203979-002A	MW-14S	3/12/2012 9:42:00AM	Groundwater	TCL VOLATILE ORGANICS		03/14/2012	03/14/2012
1203979-002B	MW-14S	3/12/2012 9:42:00AM	Groundwater	GC Analysis of Gaseous Samples		03/13/2012	03/13/2012
1203979-002C	MW-14S	3/12/2012 9:42:00AM	Groundwater	TOTAL METALS BY ICP		03/14/2012	03/14/2012
1203979-002D	MW-14S	3/12/2012 9:42:00AM	Groundwater	Total Organic Carbon (TOC)			03/13/2012
1203979-002E	MW-14S	3/12/2012 9:42:00AM	Groundwater	Sulfide by SW9030/9034		03/16/2012	03/16/2012
1203979-002F	MW-14S	3/12/2012 9:42:00AM	Groundwater	Ferrous Iron			03/13/2012
1203979-002G	MW-14S	3/12/2012 9:42:00AM	Groundwater	ION SCAN			03/13/2012
1203979-003A	MW-13S	3/12/2012 12:53:00PM	Groundwater	TCL VOLATILE ORGANICS		03/14/2012	03/14/2012
1203979-004A	MW-20S	3/12/2012 3:50:00PM	Groundwater	TCL VOLATILE ORGANICS		03/14/2012	03/14/2012
1203979-004B	MW-20S	3/12/2012 3:50:00PM	Groundwater	GC Analysis of Gaseous Samples		03/13/2012	03/13/2012
1203979-004C	MW-20S	3/12/2012 3:50:00PM	Groundwater	TOTAL METALS BY ICP		03/14/2012	03/14/2012
1203979-004D	MW-20S	3/12/2012 3:50:00PM	Groundwater	Total Organic Carbon (TOC)			03/13/2012
1203979-004E	MW-20S	3/12/2012 3:50:00PM	Groundwater	Sulfide by SW9030/9034		03/16/2012	03/16/2012
1203979-004F	MW-20S	3/12/2012 3:50:00PM	Groundwater	Ferrous Iron			03/13/2012
1203979-004G	MW-20S	3/12/2012 3:50:00PM	Groundwater	ION SCAN			03/13/2012
1203979-005A	MW-16S	3/12/2012 4:21:00PM	Groundwater	TCL VOLATILE ORGANICS		03/14/2012	03/14/2012
1203979-005B	MW-16S	3/12/2012 4:21:00PM	Groundwater	GC Analysis of Gaseous Samples		03/13/2012	03/13/2012
1203979-005C	MW-16S	3/12/2012 4:21:00PM	Groundwater	TOTAL METALS BY ICP		03/14/2012	03/14/2012
1203979-005D	MW-16S	3/12/2012 4:21:00PM	Groundwater	Total Organic Carbon (TOC)			03/13/2012
1203979-005E	MW-16S	3/12/2012 4:21:00PM	Groundwater	Sulfide by SW9030/9034		03/16/2012	03/16/2012
1203979-005F	MW-16S	3/12/2012 4:21:00PM	Groundwater	Ferrous Iron			03/13/2012
1203979-005G	MW-16S	3/12/2012 4:21:00PM	Groundwater	ION SCAN			03/13/2012

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203979

ANALYTICAL QC SUMMARY REPORT

BatchID: **158866**

Sample ID: **MB-158866** Client ID: Units: **ug/L** Prep Date: **03/13/2012** Run No: **216900**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **158866** Analysis Date: **03/13/2012** Seq No: **4534620**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	BRL	9	0	0	0	0	0	0	0	0	
Ethylene	BRL	7	0	0	0	0	0	0	0	0	
Methane	BRL	4	0	0	0	0	0	0	0	0	

Sample ID: **LCS-158866** Client ID: Units: **ug/L** Prep Date: **03/13/2012** Run No: **216900**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **158866** Analysis Date: **03/13/2012** Seq No: **4534631**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	103.8	9	200	0	51.9	37.9	115	0	0	0	
Ethylene	69.18	7	200	0	34.6	26.6	115	0	0	0	
Methane	113.9	4	200	0	56.9	38.4	115	0	0	0	

Sample ID: **LCSD-158866** Client ID: Units: **ug/L** Prep Date: **03/13/2012** Run No: **216900**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **158866** Analysis Date: **03/13/2012** Seq No: **4534640**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	105.1	9	200	0	52.6	37.9	115	103.8	1.26	20	
Ethylene	70.16	7	200	0	35.1	26.6	115	69.18	1.41	20	
Methane	115.2	4	200	0	57.6	38.4	115	113.9	1.21	20	

Sample ID: **1203449-001AMS** Client ID: Units: **ug/L** Prep Date: **03/13/2012** Run No: **216900**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **158866** Analysis Date: **03/13/2012** Seq No: **4534833**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	118.5	9	200	0	59.3	38.9	115	0	0	0	
Ethylene	77.44	7	200	0	38.7	23.1	115	0	0	0	
Methane	128.8	4	200	0	64.4	38.4	115	0	0	0	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 19-Mar-12

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203979

ANALYTICAL QC SUMMARY REPORT

BatchID: 158866

Sample ID: **1203449-001AMSD** Client ID: Units: **ug/L** Prep Date: **03/13/2012** Run No: **216900**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **158866** Analysis Date: **03/13/2012** Seq No: **4534863**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	118.2	9	200	0	59.1	38.9	115	118.5	0.214	20	
Ethylene	77.41	7	200	0	38.7	23.1	115	77.44	0.036	20	
Methane	129.0	4	200	0	64.5	38.4	115	128.8	0.17	20	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203979

ANALYTICAL QC SUMMARY REPORT

BatchID: 158905

Sample ID: **MB-158905** Client ID: Units: **mg/L** Prep Date: **03/14/2012** Run No: **217048**
SampleType: **MBLK** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **158905** Analysis Date: **03/14/2012** Seq No: **4538260**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	BRL	0.100	0	0	0	0	0	0	0	0	

Sample ID: **LCS-158905** Client ID: Units: **mg/L** Prep Date: **03/14/2012** Run No: **217048**
SampleType: **LCS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **158905** Analysis Date: **03/14/2012** Seq No: **4538258**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.505	0.100	10	0	95	80	120	0	0	0	

Sample ID: **1203940-018AMS** Client ID: Units: **mg/L** Prep Date: **03/14/2012** Run No: **217048**
SampleType: **MS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **158905** Analysis Date: **03/14/2012** Seq No: **4538266**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.542	0.100	10	0.02580	95.2	75	125	0	0	0	

Sample ID: **1203940-018AMSD** Client ID: Units: **mg/L** Prep Date: **03/14/2012** Run No: **217048**
SampleType: **MSD** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **158905** Analysis Date: **03/14/2012** Seq No: **4538267**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.660	0.100	10	0.02580	96.3	75	125	9.542	1.24	20	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 19-Mar-12

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203979

ANALYTICAL QC SUMMARY REPORT

BatchID: 158944

Sample ID: **MB-158944** Client ID: Units: **ug/L** Prep Date: **03/14/2012** Run No: **217025**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **158944** Analysis Date: **03/14/2012** Seq No: **4537886**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203979

ANALYTICAL QC SUMMARY REPORT

BatchID: 158944

Sample ID: **MB-158944** Client ID: Units: **ug/L** Prep Date: **03/14/2012** Run No: **217025**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **158944** Analysis Date: **03/14/2012** Seq No: **4537886**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	47.98	0	50	0	96	67.4	123	0	0	0	
Surr: Dibromofluoromethane	50.68	0	50	0	101	75.5	128	0	0	0	
Surr: Toluene-d8	49.25	0	50	0	98.5	70	120	0	0	0	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203979

ANALYTICAL QC SUMMARY REPORT

BatchID: 158944

Sample ID: **LCS-158944** Client ID: Units: **ug/L** Prep Date: **03/14/2012** Run No: **217025**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **158944** Analysis Date: **03/14/2012** Seq No: **4537884**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	48.64	5.0	50	0	97.3	60	140	0	0	0	
Benzene	52.53	5.0	50	0	105	70	130	0	0	0	
Chlorobenzene	50.76	5.0	50	0	102	70	130	0	0	0	
Toluene	52.74	5.0	50	0	105	70	130	0	0	0	
Trichloroethene	50.71	5.0	50	0	101	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	51.19	0	50	0	102	67.4	123	0	0	0	
Surr: Dibromofluoromethane	50.96	0	50	0	102	75.5	128	0	0	0	
Surr: Toluene-d8	51.45	0	50	0	103	70	120	0	0	0	

Sample ID: **1203979-005AMS** Client ID: **MW-16S** Units: **ug/L** Prep Date: **03/14/2012** Run No: **217025**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **158944** Analysis Date: **03/14/2012** Seq No: **4538636**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	466.7	50	500	0	93.3	50.1	179	0	0	0	
Benzene	477.4	50	500	0	95.5	61.2	150	0	0	0	
Chlorobenzene	457.4	50	500	0	91.5	72.1	140	0	0	0	
Toluene	470.8	50	500	0	94.2	58.7	154	0	0	0	
Trichloroethene	499.2	50	500	0	99.8	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	524.1	0	500	0	105	67.4	123	0	0	0	
Surr: Dibromofluoromethane	512.7	0	500	0	103	75.5	128	0	0	0	
Surr: Toluene-d8	514.4	0	500	0	103	70	120	0	0	0	

Sample ID: **1203979-005AMSD** Client ID: **MW-16S** Units: **ug/L** Prep Date: **03/14/2012** Run No: **217025**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **158944** Analysis Date: **03/14/2012** Seq No: **4538639**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	484.0	50	500	0	96.8	50.1	179	466.7	3.64	23.3	
Benzene	485.4	50	500	0	97.1	61.2	150	477.4	1.66	19	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 19-Mar-12

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203979

ANALYTICAL QC SUMMARY REPORT

BatchID: 158944

Sample ID: **1203979-005AMSD** Client ID: **MW-16S** Units: **ug/L** Prep Date: **03/14/2012** Run No: **217025**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **158944** Analysis Date: **03/14/2012** Seq No: **4538639**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	475.9	50	500	0	95.2	72.1	140	457.4	3.96	21.5	
Toluene	473.6	50	500	0	94.7	58.7	154	470.8	0.593	20	
Trichloroethene	507.7	50	500	0	102	68.3	149	499.2	1.69	17.7	
Surr: 4-Bromofluorobenzene	526.4	0	500	0	105	67.4	123	524.1	0	0	
Surr: Dibromofluoromethane	509.7	0	500	0	102	75.5	128	512.7	0	0	
Surr: Toluene-d8	509.9	0	500	0	102	70	120	514.4	0	0	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203979

ANALYTICAL QC SUMMARY REPORT

BatchID: **159066**

Sample ID: **MB-159066** Client ID: Units: **mg/L** Prep Date: **03/16/2012** Run No: **217236**
SampleType: **MBLK** TestCode: **Sulfide by SW9030B/9034** BatchID: **159066** Analysis Date: **03/16/2012** Seq No: **4541890**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00	0	0	0	0	0	0	0	0	

Sample ID: **LCS-159066** Client ID: Units: **mg/L** Prep Date: **03/16/2012** Run No: **217236**
SampleType: **LCS** TestCode: **Sulfide by SW9030B/9034** BatchID: **159066** Analysis Date: **03/16/2012** Seq No: **4541891**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	312.0	2.00	312	0	100	40	120	0	0	0	

Sample ID: **1203979-002EMS** Client ID: **MW-14S** Units: **mg/L** Prep Date: **03/16/2012** Run No: **217236**
SampleType: **MS** TestCode: **Sulfide by SW9030B/9034** BatchID: **159066** Analysis Date: **03/16/2012** Seq No: **4541893**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	30.80	2.00	31.2	0	98.7	66.8	121	0	0	0	

Sample ID: **1203979-002EMSD** Client ID: **MW-14S** Units: **mg/L** Prep Date: **03/16/2012** Run No: **217236**
SampleType: **MSD** TestCode: **Sulfide by SW9030B/9034** BatchID: **159066** Analysis Date: **03/16/2012** Seq No: **4541894**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	30.80	2.00	31.2	0	98.7	66.8	121	30.80	0	30	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203979

ANALYTICAL QC SUMMARY REPORT

BatchID: **R216957**

Sample ID: **MB-R216957** Client ID: Units: **mg/L** Prep Date: Run No: **216957**
SampleType: **MBLK** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R216957** Analysis Date: **03/13/2012** Seq No: **4535852**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.00	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R216957** Client ID: Units: **mg/L** Prep Date: Run No: **216957**
SampleType: **LCS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R216957** Analysis Date: **03/13/2012** Seq No: **4535850**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.86	1.00	25	0	99.4	90	110	0	0	0	

Sample ID: **1203979-002DMS** Client ID: **MW-14S** Units: **mg/L** Prep Date: Run No: **216957**
SampleType: **MS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R216957** Analysis Date: **03/13/2012** Seq No: **4535869**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.62	1.00	25	0	106	80	120	0	0	0	

Sample ID: **1203979-002DMSD** Client ID: **MW-14S** Units: **mg/L** Prep Date: Run No: **216957**
SampleType: **MSD** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R216957** Analysis Date: **03/13/2012** Seq No: **4535874**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.63	1.00	25	0	107	80	120	26.62	0.038	20	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203979

ANALYTICAL QC SUMMARY REPORT

BatchID: R217018

Sample ID: **MB-R217018** Client ID: Units: **mg/L** Prep Date: Run No: **217018**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R217018** Analysis Date: **03/13/2012** Seq No: **4537107**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0	0	0	0	0	0	0	0	0	
Nitrate	BRL	0.25	0	0	0	0	0	0	0	0	
Nitrite	BRL	0.25	0	0	0	0	0	0	0	0	
Sulfate	BRL	1.0	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R217018** Client ID: Units: **mg/L** Prep Date: Run No: **217018**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R217018** Analysis Date: **03/13/2012** Seq No: **4537105**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.776	1.0	10	0	97.8	90	110	0	0	0	
Nitrate	4.742	0.25	5	0	94.8	90	110	0	0	0	
Nitrite	4.677	0.25	5	0	93.5	90	110	0	0	0	
Sulfate	24.39	1.0	25	0	97.6	90	110	0	0	0	

Sample ID: **1203979-004GMS** Client ID: **MW-20S** Units: **mg/L** Prep Date: Run No: **217018**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R217018** Analysis Date: **03/13/2012** Seq No: **4537114**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	14.51	1.0	10	4.856	96.6	90	110	0	0	0	
Nitrate	5.130	0.25	5	0.3579	95.4	90	110	0	0	0	
Nitrite	5.052	0.25	5	0.07694	99.5	90	110	0	0	0	
Sulfate	43.64	1.0	25	19.80	95.3	90	110	0	0	0	

Sample ID: **1203979-004GMSD** Client ID: **MW-20S** Units: **mg/L** Prep Date: Run No: **217018**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R217018** Analysis Date: **03/13/2012** Seq No: **4537116**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	14.49	1.0	10	4.856	96.4	90	110	14.51	0.146	20	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203979

ANALYTICAL QC SUMMARY REPORT

BatchID: **R217018**

Sample ID: **1203979-004GMSD** Client ID: **MW-20S** Units: **mg/L** Prep Date: Run No: **217018**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R217018** Analysis Date: **03/13/2012** Seq No: **4537116**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.147	0.25	5	0.3579	95.8	90	110	5.130	0.331	20	
Nitrite	5.080	0.25	5	0.07694	100	90	110	5.052	0.551	20	
Sulfate	43.72	1.0	25	19.80	95.7	90	110	43.64	0.191	20	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 19-Mar-12

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203979

ANALYTICAL QC SUMMARY REPORT

BatchID: R217195

Sample ID: **MB-R217195** Client ID: Units: **mg/L** Prep Date: Run No: **217195**
SampleType: **MBLK** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217195** Analysis Date: **03/13/2012** Seq No: **4541044**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R217195** Client ID: Units: **mg/L** Prep Date: Run No: **217195**
SampleType: **LCS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217195** Analysis Date: **03/13/2012** Seq No: **4541045**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5104	0.100	0.5	0	102	85	115	0	0	0	

Sample ID: **1203979-002FMS** Client ID: **MW-14S** Units: **mg/L** Prep Date: Run No: **217195**
SampleType: **MS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217195** Analysis Date: **03/13/2012** Seq No: **4541052**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4845	0.100	0.5	0	96.9	80	120	0	0	0	

Sample ID: **1203979-002FMSD** Client ID: **MW-14S** Units: **mg/L** Prep Date: Run No: **217195**
SampleType: **MSD** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217195** Analysis Date: **03/13/2012** Seq No: **4541053**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4729	0.100	0.5	0	94.6	80	120	0.4845	2.42	30	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 19, 2012

Rick Rudolph
Sailors Engineering Associates
1675 Spectrum Drive
Lawrenceville GA 30043

TEL: (770) 962-5922
FAX: (770) 962-7964

RE: Spalding Corners S/C

Dear Rick Rudolph: Order No: 1203B01

Analytical Environmental Services, Inc. received 2 samples on 3/13/2012 6:35:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Sharissa Hall
Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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

CHAIN OF CUSTODY

Work Order: 1203B01

Date: 3/13/12 Page 1 of 1

COMPANY: Sailors Eng Assoc

ADDRESS: 1675 Spectrum Dr Lawrenceville, Ga 30043

PHONE: 770-962-5922

FAX:

SAMPLED BY: Michael Short

SIGNATURE: Michael Short

ANALYSIS REQUESTED

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8260B	TOC	Sulfate/Nitrate/Nitrite	Ferrous/Ferric Iron	Total Iron	Mn, Fe, Zn	Sulfide	REMARKS	No # of Containers
1	Trip Blank	3/13				W	✓								2
2	MW-15s	3/13	17:22	✓		GW	✓	✓	✓	✓	✓	✓	✓		9
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Michael Short	3/13/12 18:35	1: Mb t	3.13.12 1835
2:		2:	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: Spalding Corners S/C

PROJECT #: 102-063

SITE ADDRESS: 7700 Spalding Dr Norcross

SEND REPORT TO: Rick Rudolph

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 11

Turnaround Time Request
- ✓ Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other

STATE PROGRAM (if any):

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS: Short Hold Time

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER

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

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

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

White Copy - Original; Yellow Copy - Client

Client: Sailors Engineering Associates
Project: Spalding Corners S/C
Lab ID: 1203B01

Case Narrative

Per Rick Rudolph 3/16/2012 11:41am, chloride is required in addition to sulfate, nitrate, and nitrite.

Analytical Environmental Services, Inc **Date:** 19-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Corners S/C	**Collection Date:**	3/13/2012
Lab ID:	1203B01-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
1,1-Dichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
1,1-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
1,2-Dibromoethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
1,2-Dichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
1,2-Dichloropropane	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
2-Butanone	BRL	50		ug/L	158944	1	03/14/2012 18:50	SB
2-Hexanone	BRL	10		ug/L	158944	1	03/14/2012 18:50	SB
4-Methyl-2-pentanone	BRL	10		ug/L	158944	1	03/14/2012 18:50	SB
Acetone	BRL	50		ug/L	158944	1	03/14/2012 18:50	SB
Benzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Bromodichloromethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Bromoform	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Bromomethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Carbon disulfide	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Carbon tetrachloride	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Chlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Chloroethane	BRL	10		ug/L	158944	1	03/14/2012 18:50	SB
Chloroform	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Chloromethane	BRL	10		ug/L	158944	1	03/14/2012 18:50	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Cyclohexane	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Dibromochloromethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Dichlorodifluoromethane	BRL	10		ug/L	158944	1	03/14/2012 18:50	SB
Ethylbenzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Freon-113	BRL	10		ug/L	158944	1	03/14/2012 18:50	SB
Isopropylbenzene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
m,p-Xylene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Methyl acetate	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Methylcyclohexane	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Methylene chloride	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
o-Xylene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 19-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Corners S/C	**Collection Date:**	3/13/2012
Lab ID:	1203B01-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Tetrachloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Toluene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Trichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Trichlorofluoromethane	BRL	5.0		ug/L	158944	1	03/14/2012 18:50	SB
Vinyl chloride	BRL	2.0		ug/L	158944	1	03/14/2012 18:50	SB
Surr: 4-Bromofluorobenzene	95.3	67.4-123		%REC	158944	1	03/14/2012 18:50	SB
Surr: Dibromofluoromethane	103	75.5-128		%REC	158944	1	03/14/2012 18:50	SB
Surr: Toluene-d8	96.6	70-120		%REC	158944	1	03/14/2012 18:50	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 19-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-15 S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/13/2012 5:25:00 PM
Lab ID:	1203B01-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R217145	1	03/15/2012 10:25	GR
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
1,1-Dichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
1,1-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
1,2-Dibromoethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
1,2-Dichloroethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
1,2-Dichloropropane	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
2-Butanone	BRL	50		ug/L	158944	1	03/14/2012 20:15	SB
2-Hexanone	BRL	10		ug/L	158944	1	03/14/2012 20:15	SB
4-Methyl-2-pentanone	BRL	10		ug/L	158944	1	03/14/2012 20:15	SB
Acetone	BRL	50		ug/L	158944	1	03/14/2012 20:15	SB
Benzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Bromodichloromethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Bromoform	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Bromomethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Carbon disulfide	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Carbon tetrachloride	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Chlorobenzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Chloroethane	BRL	10		ug/L	158944	1	03/14/2012 20:15	SB
Chloroform	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Chloromethane	BRL	10		ug/L	158944	1	03/14/2012 20:15	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Cyclohexane	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Dibromochloromethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Dichlorodifluoromethane	BRL	10		ug/L	158944	1	03/14/2012 20:15	SB
Ethylbenzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Freon-113	BRL	10		ug/L	158944	1	03/14/2012 20:15	SB
Isopropylbenzene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
m,p-Xylene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Methyl acetate	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 19-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-15 S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/13/2012 5:25:00 PM
Lab ID:	1203B01-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Methylene chloride	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
o-Xylene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Styrene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Tetrachloroethene	290	50		ug/L	158944	10	03/15/2012 10:40	SB
Toluene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Trichloroethene	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Trichlorofluoromethane	BRL	5.0		ug/L	158944	1	03/14/2012 20:15	SB
Vinyl chloride	BRL	2.0		ug/L	158944	1	03/14/2012 20:15	SB
Surr: 4-Bromofluorobenzene	89.5	67.4-123		%REC	158944	1	03/14/2012 20:15	SB
Surr: 4-Bromofluorobenzene	93.9	67.4-123		%REC	158944	10	03/15/2012 10:40	SB
Surr: Dibromofluoromethane	101	75.5-128		%REC	158944	1	03/14/2012 20:15	SB
Surr: Dibromofluoromethane	102	75.5-128		%REC	158944	10	03/15/2012 10:40	SB
Surr: Toluene-d8	94.5	70-120		%REC	158944	1	03/14/2012 20:15	SB
Surr: Toluene-d8	90.8	70-120		%REC	158944	10	03/15/2012 10:40	SB
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	159066	1	03/16/2012 16:30	AS
ION SCAN SW9056A								
Chloride	6.2	1.0		mg/L	R217059	1	03/14/2012 09:04	GR
Nitrate	2.6	0.25		mg/L	R217059	1	03/14/2012 09:04	GR
Nitrite	BRL	0.25		mg/L	R217059	1	03/14/2012 09:04	GR
Sulfate	BRL	1.0		mg/L	R217059	1	03/14/2012 09:04	GR
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	158866	1	03/14/2012 12:34	SN
Ethylene	BRL	7		ug/L	158866	1	03/14/2012 12:34	SN
Methane	BRL	4		ug/L	158866	1	03/14/2012 12:34	SN
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	1.05	0.100		mg/L	R217195	1	03/14/2012 08:45	CG
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R217195	1	03/14/2012 08:45	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	1.05	0.100		mg/L	158905	1	03/14/2012 17:39	TA

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Sailors Work Order Number 1203801

Checklist completed by [signature] 3/13/12
Signature Date

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

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

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

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

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

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

Chain of custody present? Yes ✓ No __

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

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by MJ

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc

Date: 20-Mar-12

Client: Sailors Engineering Associates
Project: Spalding Corners S/C
Lab Order: 1203B01

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1203B01-001A	TRIP BLANK	3/13/2012 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		03/14/2012	03/14/2012
1203B01-002A	MW-15 S	3/13/2012 5:25:00PM	Groundwater	TCL VOLATILE ORGANICS		03/14/2012	03/14/2012
1203B01-002A	MW-15 S	3/13/2012 5:25:00PM	Groundwater	TCL VOLATILE ORGANICS		03/14/2012	03/15/2012
1203B01-002B	MW-15 S	3/13/2012 5:25:00PM	Groundwater	GC Analysis of Gaseous Samples		03/14/2012	03/14/2012
1203B01-002C	MW-15 S	3/13/2012 5:25:00PM	Groundwater	TOTAL METALS BY ICP		03/14/2012	03/14/2012
1203B01-002D	MW-15 S	3/13/2012 5:25:00PM	Groundwater	Total Organic Carbon (TOC)			03/15/2012
1203B01-002E	MW-15 S	3/13/2012 5:25:00PM	Groundwater	Sulfide by SW9030/9034		03/16/2012	03/16/2012
1203B01-002F	MW-15 S	3/13/2012 5:25:00PM	Groundwater	ION SCAN			03/14/2012
1203B01-002G	MW-15 S	3/13/2012 5:25:00PM	Groundwater	Ferrous Iron			03/14/2012

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203B01

ANALYTICAL QC SUMMARY REPORT

BatchID: 158866

Sample ID: **MB-158866** Client ID: Units: **ug/L** Prep Date: **03/13/2012** Run No: **216900**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **158866** Analysis Date: **03/13/2012** Seq No: **4534620**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	BRL	9	0	0	0	0	0	0	0	0	
Ethylene	BRL	7	0	0	0	0	0	0	0	0	
Methane	BRL	4	0	0	0	0	0	0	0	0	

Sample ID: **LCS-158866** Client ID: Units: **ug/L** Prep Date: **03/13/2012** Run No: **216900**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **158866** Analysis Date: **03/13/2012** Seq No: **4534631**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	103.8	9	200	0	51.9	37.9	115	0	0	0	
Ethylene	69.18	7	200	0	34.6	26.6	115	0	0	0	
Methane	113.9	4	200	0	56.9	38.4	115	0	0	0	

Sample ID: **LCSD-158866** Client ID: Units: **ug/L** Prep Date: **03/13/2012** Run No: **216900**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **158866** Analysis Date: **03/13/2012** Seq No: **4534640**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	105.1	9	200	0	52.6	37.9	115	103.8	1.26	20	
Ethylene	70.16	7	200	0	35.1	26.6	115	69.18	1.41	20	
Methane	115.2	4	200	0	57.6	38.4	115	113.9	1.21	20	

Sample ID: **1203449-001AMS** Client ID: Units: **ug/L** Prep Date: **03/13/2012** Run No: **216900**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **158866** Analysis Date: **03/13/2012** Seq No: **4534833**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	118.5	9	200	0	59.3	38.9	115	0	0	0	
Ethylene	77.44	7	200	0	38.7	23.1	115	0	0	0	
Methane	128.8	4	200	0	64.4	38.4	115	0	0	0	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 19-Mar-12

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203B01

ANALYTICAL QC SUMMARY REPORT

BatchID: 158866

Sample ID: **1203449-001AMSD** Client ID: Units: **ug/L** Prep Date: **03/13/2012** Run No: **216900**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **158866** Analysis Date: **03/13/2012** Seq No: **4534863**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	118.2	9	200	0	59.1	38.9	115	118.5	0.214	20	
Ethylene	77.41	7	200	0	38.7	23.1	115	77.44	0.036	20	
Methane	129.0	4	200	0	64.5	38.4	115	128.8	0.17	20	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203B01

ANALYTICAL QC SUMMARY REPORT

BatchID: 158905

Sample ID: **MB-158905** Client ID: Units: **mg/L** Prep Date: **03/14/2012** Run No: **217048**
SampleType: **MBLK** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **158905** Analysis Date: **03/14/2012** Seq No: **4538260**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	BRL	0.100	0	0	0	0	0	0	0	0	

Sample ID: **LCS-158905** Client ID: Units: **mg/L** Prep Date: **03/14/2012** Run No: **217048**
SampleType: **LCS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **158905** Analysis Date: **03/14/2012** Seq No: **4538258**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.505	0.100	10	0	95	80	120	0	0	0	

Sample ID: **1203940-018AMS** Client ID: Units: **mg/L** Prep Date: **03/14/2012** Run No: **217048**
SampleType: **MS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **158905** Analysis Date: **03/14/2012** Seq No: **4538266**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.542	0.100	10	0.02580	95.2	75	125	0	0	0	

Sample ID: **1203940-018AMSD** Client ID: Units: **mg/L** Prep Date: **03/14/2012** Run No: **217048**
SampleType: **MSD** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **158905** Analysis Date: **03/14/2012** Seq No: **4538267**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.660	0.100	10	0.02580	96.3	75	125	9.542	1.24	20	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203B01

ANALYTICAL QC SUMMARY REPORT

BatchID: 158944

Sample ID: **MB-158944** Client ID: Units: **ug/L** Prep Date: **03/14/2012** Run No: **217025**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **158944** Analysis Date: **03/14/2012** Seq No: **4537886**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203B01

ANALYTICAL QC SUMMARY REPORT

BatchID: 158944

Sample ID: **MB-158944** Client ID: Units: **ug/L** Prep Date: **03/14/2012** Run No: **217025**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **158944** Analysis Date: **03/14/2012** Seq No: **4537886**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	47.98	0	50	0	96	67.4	123	0	0	0	
Surr: Dibromofluoromethane	50.68	0	50	0	101	75.5	128	0	0	0	
Surr: Toluene-d8	49.25	0	50	0	98.5	70	120	0	0	0	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203B01

ANALYTICAL QC SUMMARY REPORT

BatchID: 158944

Sample ID: **LCS-158944** Client ID: Units: **ug/L** Prep Date: **03/14/2012** Run No: **217025**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **158944** Analysis Date: **03/14/2012** Seq No: **4537884**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	48.64	5.0	50	0	97.3	60	140	0	0	0	
Benzene	52.53	5.0	50	0	105	70	130	0	0	0	
Chlorobenzene	50.76	5.0	50	0	102	70	130	0	0	0	
Toluene	52.74	5.0	50	0	105	70	130	0	0	0	
Trichloroethene	50.71	5.0	50	0	101	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	51.19	0	50	0	102	67.4	123	0	0	0	
Surr: Dibromofluoromethane	50.96	0	50	0	102	75.5	128	0	0	0	
Surr: Toluene-d8	51.45	0	50	0	103	70	120	0	0	0	

Sample ID: **1203979-005AMS** Client ID: Units: **ug/L** Prep Date: **03/14/2012** Run No: **217025**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **158944** Analysis Date: **03/14/2012** Seq No: **4538636**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	466.7	50	500	0	93.3	50.1	179	0	0	0	
Benzene	477.4	50	500	0	95.5	61.2	150	0	0	0	
Chlorobenzene	457.4	50	500	0	91.5	72.1	140	0	0	0	
Toluene	470.8	50	500	0	94.2	58.7	154	0	0	0	
Trichloroethene	499.2	50	500	0	99.8	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	524.1	0	500	0	105	67.4	123	0	0	0	
Surr: Dibromofluoromethane	512.7	0	500	0	103	75.5	128	0	0	0	
Surr: Toluene-d8	514.4	0	500	0	103	70	120	0	0	0	

Sample ID: **1203979-005AMSD** Client ID: Units: **ug/L** Prep Date: **03/14/2012** Run No: **217025**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **158944** Analysis Date: **03/14/2012** Seq No: **4538639**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	484.0	50	500	0	96.8	50.1	179	466.7	3.64	23.3	
Benzene	485.4	50	500	0	97.1	61.2	150	477.4	1.66	19	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203B01

ANALYTICAL QC SUMMARY REPORT

BatchID: **158944**

Sample ID: **1203979-005AMSD** Client ID: Units: **ug/L** Prep Date: **03/14/2012** Run No: **217025**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **158944** Analysis Date: **03/14/2012** Seq No: **4538639**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	475.9	50	500	0	95.2	72.1	140	457.4	3.96	21.5	
Toluene	473.6	50	500	0	94.7	58.7	154	470.8	0.593	20	
Trichloroethene	507.7	50	500	0	102	68.3	149	499.2	1.69	17.7	
Surr: 4-Bromofluorobenzene	526.4	0	500	0	105	67.4	123	524.1	0	0	
Surr: Dibromofluoromethane	509.7	0	500	0	102	75.5	128	512.7	0	0	
Surr: Toluene-d8	509.9	0	500	0	102	70	120	514.4	0	0	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203B01

ANALYTICAL QC SUMMARY REPORT

BatchID: 159066

Sample ID: **MB-159066** Client ID: Units: **mg/L** Prep Date: **03/16/2012** Run No: **217236**
SampleType: **MBLK** TestCode: **Sulfide by SW9030B/9034** BatchID: **159066** Analysis Date: **03/16/2012** Seq No: **4541890**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00	0	0	0	0	0	0	0	0	

Sample ID: **LCS-159066** Client ID: Units: **mg/L** Prep Date: **03/16/2012** Run No: **217236**
SampleType: **LCS** TestCode: **Sulfide by SW9030B/9034** BatchID: **159066** Analysis Date: **03/16/2012** Seq No: **4541891**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	312.0	2.00	312	0	100	40	120	0	0	0	

Sample ID: **1203979-002EMS** Client ID: Units: **mg/L** Prep Date: **03/16/2012** Run No: **217236**
SampleType: **MS** TestCode: **Sulfide by SW9030B/9034** BatchID: **159066** Analysis Date: **03/16/2012** Seq No: **4541893**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	30.80	2.00	31.2	0	98.7	66.8	121	0	0	0	

Sample ID: **1203979-002EMSD** Client ID: Units: **mg/L** Prep Date: **03/16/2012** Run No: **217236**
SampleType: **MSD** TestCode: **Sulfide by SW9030B/9034** BatchID: **159066** Analysis Date: **03/16/2012** Seq No: **4541894**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	30.80	2.00	31.2	0	98.7	66.8	121	30.80	0	30	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203B01

ANALYTICAL QC SUMMARY REPORT

BatchID: R217059

Sample ID: **MB-R217059** Client ID: Units: **mg/L** Prep Date: Run No: **217059**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R217059** Analysis Date: **03/14/2012** Seq No: **4537840**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0	0	0	0	0	0	0	0	0	
Nitrate	BRL	0.25	0	0	0	0	0	0	0	0	
Nitrite	BRL	0.25	0	0	0	0	0	0	0	0	
Sulfate	BRL	1.0	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R217059** Client ID: Units: **mg/L** Prep Date: Run No: **217059**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R217059** Analysis Date: **03/14/2012** Seq No: **4537837**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.713	1.0	10	0	97.1	90	110	0	0	0	
Nitrate	4.767	0.25	5	0	95.3	90	110	0	0	0	
Nitrite	4.692	0.25	5	0	93.8	90	110	0	0	0	
Sulfate	24.57	1.0	25	0	98.3	90	110	0	0	0	

Sample ID: **1203B01-002FMS** Client ID: **MW-15 S** Units: **mg/L** Prep Date: Run No: **217059**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R217059** Analysis Date: **03/14/2012** Seq No: **4537851**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	15.73	1.0	10	6.162	95.7	90	110	0	0	0	
Nitrate	7.662	0.25	5	2.587	101	90	110	0	0	0	
Nitrite	5.021	0.25	5	0	100	90	110	0	0	0	
Sulfate	24.95	1.0	25	0.6141	97.3	90	110	0	0	0	

Sample ID: **1203B01-002FMSD** Client ID: **MW-15 S** Units: **mg/L** Prep Date: Run No: **217059**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R217059** Analysis Date: **03/14/2012** Seq No: **4537856**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	15.70	1.0	10	6.162	95.4	90	110	15.73	0.181	20	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 19-Mar-12

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203B01

ANALYTICAL QC SUMMARY REPORT

BatchID: **R217059**

Sample ID: **1203B01-002FMSD** Client ID: **MW-15 S** Units: **mg/L** Prep Date: Run No: **217059**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R217059** Analysis Date: **03/14/2012** Seq No: **4537856**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	7.668	0.25	5	2.587	102	90	110	7.662	0.08	20	
Nitrite	5.029	0.25	5	0	101	90	110	5.021	0.159	20	
Sulfate	25.11	1.0	25	0.6141	98	90	110	24.95	0.635	20	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203B01

ANALYTICAL QC SUMMARY REPORT

BatchID: **R217145**

Sample ID: **MB-R217145** Client ID: Units: **mg/L** Prep Date: Run No: **217145**
SampleType: **MBLK** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217145** Analysis Date: **03/15/2012** Seq No: **4539874**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.00	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R217145** Client ID: Units: **mg/L** Prep Date: Run No: **217145**
SampleType: **LCS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217145** Analysis Date: **03/15/2012** Seq No: **4539872**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.44	1.00	25	0	97.8	90	110	0	0	0	

Sample ID: **1203C19-002GMS** Client ID: Units: **mg/L** Prep Date: Run No: **217145**
SampleType: **MS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217145** Analysis Date: **03/15/2012** Seq No: **4539899**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	30.70	1.00	25	4.493	105	80	120	0	0	0	

Sample ID: **1203C19-002GMSD** Client ID: Units: **mg/L** Prep Date: Run No: **217145**
SampleType: **MSD** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217145** Analysis Date: **03/15/2012** Seq No: **4539903**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	29.92	1.00	25	4.493	102	80	120	30.70	2.57	20	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 19-Mar-12

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203B01

ANALYTICAL QC SUMMARY REPORT

BatchID: R217195

Sample ID: **MB-R217195** Client ID: Units: **mg/L** Prep Date: Run No: **217195**
SampleType: **MBLK** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217195** Analysis Date: **03/13/2012** Seq No: **4541044**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R217195** Client ID: Units: **mg/L** Prep Date: Run No: **217195**
SampleType: **LCS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217195** Analysis Date: **03/13/2012** Seq No: **4541045**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5104	0.100	0.5	0	102	85	115	0	0	0	

Sample ID: **1203979-002FMS** Client ID: Units: **mg/L** Prep Date: Run No: **217195**
SampleType: **MS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217195** Analysis Date: **03/13/2012** Seq No: **4541052**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4845	0.100	0.5	0	96.9	80	120	0	0	0	

Sample ID: **1203979-002FMSD** Client ID: Units: **mg/L** Prep Date: Run No: **217195**
SampleType: **MSD** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217195** Analysis Date: **03/13/2012** Seq No: **4541053**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4729	0.100	0.5	0	94.6	80	120	0.4845	2.42	30	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 21, 2012

Rick Rudolph
Sailors Engineering Associates
1675 Spectrum Drive
Lawrenceville GA 30043

TEL: (770) 962-5922
FAX: (770) 962-7964

RE: Spalding Corners S/C

Dear Rick Rudolph: Order No: 1203C19

Analytical Environmental Services, Inc. received 5 samples on 3/14/2012 6:50:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Sharissa Hall
Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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

CHAIN OF CUSTODY

Work Order: 1103C19

Date: 3/14/12 Page 1 of 1

COMPANY: Sailors Eng. Assoc

ADDRESS: 1675 Spectrum Dr Lawrenceville, Ga 30043

PHONE: 770-962-5922

FAX:

SAMPLED BY: Michael Short

SIGNATURE: Michael Short

ANALYSIS REQUESTED

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8260B	TOC	Sulfate, Nitrate, Nitrite	Ferrous/Ferric Iron	Total Iron	M.E.E.	Sulfide									REMARKS	No # of Containers
							PRESERVATION (See codes)																
1	Trip Blank	3/14				W	/																2
2	MW-1D	3/14	15:17	/		GW	/	/	/	/	/	/	/										9
3	MW-19S	3/14	12:00	/		GW	/	/	/	/	/	/	/										9
4	MW-8S	3/14	16:17	/		GW	/																2
5	MW-10S	3/14	17:41	/		GW	/	/	/	/	/	/	/										9
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Michael Short	3/14/12 18:50	1: [illegible]	3/14/12 6:50
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS: Short Hold Time

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

PROJECT INFORMATION
PROJECT NAME: Spalding Corners S/C
PROJECT #: 102-063
SITE ADDRESS: 7700 Spalding Dr Norcross
SEND REPORT TO: Rick Rudolph
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 31

Turnaround Time Request
- Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req.)
- Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

White Copy - Original; Yellow Copy - Client

Client: Sailors Engineering Associates
Project: Spalding Corners S/C
Lab ID: 1203C19

Case Narrative

Per Rick Rudolph 3/16/2012 11:41am, chloride is required in addition to sulfate, nitrate, and nitrite.

Total Organic Carbon Analysis by Method 9060:

Due to sample matrix, sample 1203C19-003G required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Corners S/C	**Collection Date:**	3/14/2012
Lab ID:	1203C19-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
2-Butanone	BRL	50		ug/L	159044	1	03/16/2012 20:21	SB
2-Hexanone	BRL	10		ug/L	159044	1	03/16/2012 20:21	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159044	1	03/16/2012 20:21	SB
Acetone	BRL	50		ug/L	159044	1	03/16/2012 20:21	SB
Benzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Bromodichloromethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Bromoform	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Bromomethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Carbon disulfide	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Carbon tetrachloride	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Chlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Chloroethane	BRL	10		ug/L	159044	1	03/16/2012 20:21	SB
Chloroform	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Chloromethane	BRL	10		ug/L	159044	1	03/16/2012 20:21	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Cyclohexane	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Dibromochloromethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Dichlorodifluoromethane	BRL	10		ug/L	159044	1	03/16/2012 20:21	SB
Ethylbenzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Freon-113	BRL	10		ug/L	159044	1	03/16/2012 20:21	SB
Isopropylbenzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
m,p-Xylene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Methyl acetate	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Methylcyclohexane	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Methylene chloride	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
o-Xylene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Corners S/C	**Collection Date:**	3/14/2012
Lab ID:	1203C19-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Tetrachloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Toluene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Trichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:21	SB
Vinyl chloride	BRL	2.0		ug/L	159044	1	03/16/2012 20:21	SB
Surr: 4-Bromofluorobenzene	96.1	67.4-123		%REC	159044	1	03/16/2012 20:21	SB
Surr: Dibromofluoromethane	105	75.5-128		%REC	159044	1	03/16/2012 20:21	SB
Surr: Toluene-d8	98.6	70-120		%REC	159044	1	03/16/2012 20:21	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-1D
Project Name:	Spalding Corners S/C	**Collection Date:**	3/14/2012 3:17:00 PM
Lab ID:	1203C19-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	4.49	1.00		mg/L	R217145	1	03/15/2012 10:48	GR
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
2-Butanone	BRL	50		ug/L	159044	1	03/17/2012 01:04	SB
2-Hexanone	BRL	10		ug/L	159044	1	03/17/2012 01:04	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159044	1	03/17/2012 01:04	SB
Acetone	BRL	50		ug/L	159044	1	03/17/2012 01:04	SB
Benzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Bromodichloromethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Bromoform	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Bromomethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Carbon disulfide	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Carbon tetrachloride	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Chlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Chloroethane	BRL	10		ug/L	159044	1	03/17/2012 01:04	SB
Chloroform	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Chloromethane	BRL	10		ug/L	159044	1	03/17/2012 01:04	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Cyclohexane	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Dibromochloromethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Dichlorodifluoromethane	BRL	10		ug/L	159044	1	03/17/2012 01:04	SB
Ethylbenzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Freon-113	BRL	10		ug/L	159044	1	03/17/2012 01:04	SB
Isopropylbenzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
m,p-Xylene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Methyl acetate	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-1D
Project Name:	Spalding Corners S/C	**Collection Date:**	3/14/2012 3:17:00 PM
Lab ID:	1203C19-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Methylene chloride	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
o-Xylene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Styrene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Tetrachloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Toluene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Trichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:04	SB
Vinyl chloride	BRL	2.0		ug/L	159044	1	03/17/2012 01:04	SB
Surr: 4-Bromofluorobenzene	97.5	67.4-123		%REC	159044	1	03/17/2012 01:04	SB
Surr: Dibromofluoromethane	99.2	75.5-128		%REC	159044	1	03/17/2012 01:04	SB
Surr: Toluene-d8	93	70-120		%REC	159044	1	03/17/2012 01:04	SB
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	159228	1	03/20/2012 15:45	AS
ION SCAN SW9056A								
Chloride	6.6	1.0		mg/L	R217185	1	03/15/2012 12:53	GR
Nitrate	BRL	0.25		mg/L	R217185	1	03/15/2012 12:53	GR
Nitrite	BRL	0.25		mg/L	R217185	1	03/15/2012 12:53	GR
Sulfate	10	1.0		mg/L	R217185	1	03/15/2012 12:53	GR
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	159139	1	03/20/2012 14:50	SN
Ethylene	BRL	7		ug/L	159139	1	03/20/2012 14:50	SN
Methane	4	4		ug/L	159139	1	03/20/2012 14:50	SN
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	0.326	0.100		mg/L	R217491	1	03/15/2012 10:30	CG
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R217491	1	03/15/2012 10:30	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	0.326	0.100		mg/L	159097	1	03/19/2012 18:47	TA

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-19S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/14/2012 12:00:00 PM
Lab ID:	1203C19-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	5.00		mg/L	R217145	5	03/15/2012 12:41	GR
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
2-Butanone	BRL	50		ug/L	159044	1	03/17/2012 01:33	SB
2-Hexanone	BRL	10		ug/L	159044	1	03/17/2012 01:33	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159044	1	03/17/2012 01:33	SB
Acetone	BRL	50		ug/L	159044	1	03/17/2012 01:33	SB
Benzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Bromodichloromethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Bromoform	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Bromomethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Carbon disulfide	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Carbon tetrachloride	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Chlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Chloroethane	BRL	10		ug/L	159044	1	03/17/2012 01:33	SB
Chloroform	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Chloromethane	BRL	10		ug/L	159044	1	03/17/2012 01:33	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Cyclohexane	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Dibromochloromethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Dichlorodifluoromethane	BRL	10		ug/L	159044	1	03/17/2012 01:33	SB
Ethylbenzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Freon-113	BRL	10		ug/L	159044	1	03/17/2012 01:33	SB
Isopropylbenzene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
m,p-Xylene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Methyl acetate	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
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B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-19S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/14/2012 12:00:00 PM
Lab ID:	1203C19-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Methylene chloride	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
o-Xylene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Styrene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Tetrachloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Toluene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Trichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159044	1	03/17/2012 01:33	SB
Vinyl chloride	BRL	2.0		ug/L	159044	1	03/17/2012 01:33	SB
Surr: 4-Bromofluorobenzene	100	67.4-123		%REC	159044	1	03/17/2012 01:33	SB
Surr: Dibromofluoromethane	106	75.5-128		%REC	159044	1	03/17/2012 01:33	SB
Surr: Toluene-d8	97.4	70-120		%REC	159044	1	03/17/2012 01:33	SB
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	159228	1	03/20/2012 15:45	AS
ION SCAN SW9056A								
Chloride	3.0	1.0		mg/L	R217185	1	03/15/2012 13:08	GR
Nitrate	BRL	0.25		mg/L	R217185	1	03/15/2012 13:08	GR
Nitrite	BRL	0.25		mg/L	R217185	1	03/15/2012 13:08	GR
Sulfate	32	1.0		mg/L	R217185	1	03/15/2012 13:08	GR
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	159139	1	03/20/2012 14:54	SN
Ethylene	BRL	7		ug/L	159139	1	03/20/2012 14:54	SN
Methane	20	4		ug/L	159139	1	03/20/2012 14:54	SN
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	BRL	0.100		mg/L	R217491	1	03/15/2012 10:30	CG
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R217491	1	03/15/2012 10:30	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	BRL	0.100		mg/L	159097	1	03/19/2012 19:13	TA

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-8S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/14/2012 4:17:00 PM
Lab ID:	1203C19-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
2-Butanone	BRL	50		ug/L	159044	1	03/17/2012 02:01	SB
2-Hexanone	BRL	10		ug/L	159044	1	03/17/2012 02:01	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159044	1	03/17/2012 02:01	SB
Acetone	BRL	50		ug/L	159044	1	03/17/2012 02:01	SB
Benzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Bromodichloromethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Bromoform	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Bromomethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Carbon disulfide	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Carbon tetrachloride	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Chlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Chloroethane	BRL	10		ug/L	159044	1	03/17/2012 02:01	SB
Chloroform	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Chloromethane	BRL	10		ug/L	159044	1	03/17/2012 02:01	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Cyclohexane	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Dibromochloromethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Dichlorodifluoromethane	BRL	10		ug/L	159044	1	03/17/2012 02:01	SB
Ethylbenzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Freon-113	BRL	10		ug/L	159044	1	03/17/2012 02:01	SB
Isopropylbenzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
m,p-Xylene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Methyl acetate	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Methylcyclohexane	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Methylene chloride	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
o-Xylene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-8S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/14/2012 4:17:00 PM
Lab ID:	1203C19-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Tetrachloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Toluene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Trichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:01	SB
Vinyl chloride	BRL	2.0		ug/L	159044	1	03/17/2012 02:01	SB
Surr: 4-Bromofluorobenzene	104	67.4-123		%REC	159044	1	03/17/2012 02:01	SB
Surr: Dibromofluoromethane	105	75.5-128		%REC	159044	1	03/17/2012 02:01	SB
Surr: Toluene-d8	93.7	70-120		%REC	159044	1	03/17/2012 02:01	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-10S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/14/2012 5:41:00 PM
Lab ID:	1203C19-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R217145	1	03/15/2012 11:38	GR
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
2-Butanone	BRL	50		ug/L	159044	1	03/17/2012 02:30	SB
2-Hexanone	BRL	10		ug/L	159044	1	03/17/2012 02:30	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159044	1	03/17/2012 02:30	SB
Acetone	BRL	50		ug/L	159044	1	03/17/2012 02:30	SB
Benzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Bromodichloromethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Bromoform	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Bromomethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Carbon disulfide	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Carbon tetrachloride	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Chlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Chloroethane	BRL	10		ug/L	159044	1	03/17/2012 02:30	SB
Chloroform	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Chloromethane	BRL	10		ug/L	159044	1	03/17/2012 02:30	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Cyclohexane	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Dibromochloromethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Dichlorodifluoromethane	BRL	10		ug/L	159044	1	03/17/2012 02:30	SB
Ethylbenzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Freon-113	BRL	10		ug/L	159044	1	03/17/2012 02:30	SB
Isopropylbenzene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
m,p-Xylene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Methyl acetate	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-10S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/14/2012 5:41:00 PM
Lab ID:	1203C19-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Methylene chloride	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
o-Xylene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Styrene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Tetrachloroethene	52	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Toluene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Trichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159044	1	03/17/2012 02:30	SB
Vinyl chloride	BRL	2.0		ug/L	159044	1	03/17/2012 02:30	SB
Surr: 4-Bromofluorobenzene	102	67.4-123		%REC	159044	1	03/17/2012 02:30	SB
Surr: Dibromofluoromethane	98	75.5-128		%REC	159044	1	03/17/2012 02:30	SB
Surr: Toluene-d8	92.9	70-120		%REC	159044	1	03/17/2012 02:30	SB
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	159228	1	03/20/2012 15:45	AS
ION SCAN SW9056A								
Chloride	4.2	1.0		mg/L	R217185	1	03/15/2012 13:23	GR
Nitrate	3.8	0.25		mg/L	R217185	1	03/15/2012 13:23	GR
Nitrite	BRL	0.25		mg/L	R217185	1	03/15/2012 13:23	GR
Sulfate	BRL	1.0		mg/L	R217185	1	03/15/2012 13:23	GR
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	159139	1	03/20/2012 15:02	SN
Ethylene	BRL	7		ug/L	159139	1	03/20/2012 15:02	SN
Methane	BRL	4		ug/L	159139	1	03/20/2012 15:02	SN
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	1.05	0.100		mg/L	R217491	1	03/15/2012 10:30	CG
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R217491	1	03/15/2012 10:30	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	1.05	0.100		mg/L	159097	1	03/19/2012 19:16	TA

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Sailors Work Order Number 1203C19

Checklist completed by [signature] 3/14/12
Signature Date

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

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

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

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

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

Cooler #1 3.5° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

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

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by MJ

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc

Date: 21-Mar-12

Client: Sailors Engineering Associates
Project: Spalding Corners S/C
Lab Order: 1203C19

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1203C19-001A	TRIP BLANK	3/14/2012 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		03/16/2012	03/16/2012
1203C19-002A	MW-1D	3/14/2012 3:17:00PM	Groundwater	TCL VOLATILE ORGANICS		03/16/2012	03/17/2012
1203C19-002B	MW-1D	3/14/2012 3:17:00PM	Groundwater	GC Analysis of Gaseous Samples		03/19/2012	03/20/2012
1203C19-002C	MW-1D	3/14/2012 3:17:00PM	Groundwater	TOTAL METALS BY ICP		03/19/2012	03/19/2012
1203C19-002D	MW-1D	3/14/2012 3:17:00PM	Groundwater	Sulfide by SW9030/9034		03/19/2012	03/20/2012
1203C19-002E	MW-1D	3/14/2012 3:17:00PM	Groundwater	ION SCAN			03/15/2012
1203C19-002F	MW-1D	3/14/2012 3:17:00PM	Groundwater	Ferrous Iron			03/15/2012
1203C19-002G	MW-1D	3/14/2012 3:17:00PM	Groundwater	Total Organic Carbon (TOC)			03/15/2012
1203C19-003A	MW-19S	3/14/2012 12:00:00PM	Groundwater	TCL VOLATILE ORGANICS		03/16/2012	03/17/2012
1203C19-003B	MW-19S	3/14/2012 12:00:00PM	Groundwater	GC Analysis of Gaseous Samples		03/19/2012	03/20/2012
1203C19-003C	MW-19S	3/14/2012 12:00:00PM	Groundwater	TOTAL METALS BY ICP		03/19/2012	03/19/2012
1203C19-003D	MW-19S	3/14/2012 12:00:00PM	Groundwater	Sulfide by SW9030/9034		03/19/2012	03/20/2012
1203C19-003E	MW-19S	3/14/2012 12:00:00PM	Groundwater	ION SCAN			03/15/2012
1203C19-003F	MW-19S	3/14/2012 12:00:00PM	Groundwater	Ferrous Iron			03/15/2012
1203C19-003G	MW-19S	3/14/2012 12:00:00PM	Groundwater	Total Organic Carbon (TOC)			03/15/2012
1203C19-004A	MW-8S	3/14/2012 4:17:00PM	Groundwater	TCL VOLATILE ORGANICS		03/16/2012	03/17/2012
1203C19-005A	MW-10S	3/14/2012 5:41:00PM	Groundwater	TCL VOLATILE ORGANICS		03/16/2012	03/17/2012
1203C19-005B	MW-10S	3/14/2012 5:41:00PM	Groundwater	GC Analysis of Gaseous Samples		03/19/2012	03/20/2012
1203C19-005C	MW-10S	3/14/2012 5:41:00PM	Groundwater	TOTAL METALS BY ICP		03/19/2012	03/19/2012
1203C19-005D	MW-10S	3/14/2012 5:41:00PM	Groundwater	Sulfide by SW9030/9034		03/19/2012	03/20/2012
1203C19-005E	MW-10S	3/14/2012 5:41:00PM	Groundwater	Inorganic Anions by IC			03/15/2012
1203C19-005E	MW-10S	3/14/2012 5:41:00PM	Groundwater	ION SCAN			03/15/2012
1203C19-005F	MW-10S	3/14/2012 5:41:00PM	Groundwater	Ferrous Iron			03/15/2012
1203C19-005G	MW-10S	3/14/2012 5:41:00PM	Groundwater	Total Organic Carbon (TOC)			03/15/2012

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203C19

ANALYTICAL QC SUMMARY REPORT

BatchID: 159044

Sample ID: **MB-159044** Client ID: Units: **ug/L** Prep Date: **03/16/2012** Run No: **217186**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159044** Analysis Date: **03/16/2012** Seq No: **4540995**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203C19

ANALYTICAL QC SUMMARY REPORT

BatchID: **159044**

Sample ID: **MB-159044** Client ID: Units: **ug/L** Prep Date: **03/16/2012** Run No: **217186**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159044** Analysis Date: **03/16/2012** Seq No: **4540995**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	49.24	0	50	0	98.5	67.4	123	0	0	0	
Surr: Dibromofluoromethane	51.66	0	50	0	103	75.5	128	0	0	0	
Surr: Toluene-d8	49.04	0	50	0	98.1	70	120	0	0	0	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203C19

ANALYTICAL QC SUMMARY REPORT

BatchID: 159044

Sample ID: **LCS-159044** Client ID: Units: **ug/L** Prep Date: **03/16/2012** Run No: **217186**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159044** Analysis Date: **03/16/2012** Seq No: **4540990**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	48.99	5.0	50	0	98	60	140	0	0	0	
Benzene	48.14	5.0	50	0	96.3	70	130	0	0	0	
Chlorobenzene	46.80	5.0	50	0	93.6	70	130	0	0	0	
Toluene	47.32	5.0	50	0	94.6	70	130	0	0	0	
Trichloroethene	50.45	5.0	50	0	101	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	51.32	0	50	0	103	67.4	123	0	0	0	
Surr: Dibromofluoromethane	52.46	0	50	0	105	75.5	128	0	0	0	
Surr: Toluene-d8	50.94	0	50	0	102	70	120	0	0	0	

Sample ID: **1203D28-001AMS** Client ID: Units: **ug/L** Prep Date: **03/16/2012** Run No: **217186**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159044** Analysis Date: **03/16/2012** Seq No: **4542364**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2522	250	2500	0	101	50.1	179	0	0	0	
Benzene	2638	250	2500	0	106	61.2	150	0	0	0	
Chlorobenzene	2591	250	2500	0	104	72.1	140	0	0	0	
Toluene	2672	250	2500	0	107	58.7	154	0	0	0	
Trichloroethene	2694	250	2500	0	108	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	2619	0	2500	0	105	67.4	123	0	0	0	
Surr: Dibromofluoromethane	2726	0	2500	0	109	75.5	128	0	0	0	
Surr: Toluene-d8	2598	0	2500	0	104	70	120	0	0	0	

Sample ID: **1203D28-001AMSD** Client ID: Units: **ug/L** Prep Date: **03/16/2012** Run No: **217186**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159044** Analysis Date: **03/16/2012** Seq No: **4542368**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2373	250	2500	0	94.9	50.1	179	2522	6.09	23.3	
Benzene	2476	250	2500	0	99	61.2	150	2638	6.37	19	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203C19

ANALYTICAL QC SUMMARY REPORT

BatchID: **159044**

Sample ID: **1203D28-001AMSD** Client ID: Units: **ug/L** Prep Date: **03/16/2012** Run No: **217186**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159044** Analysis Date: **03/16/2012** Seq No: **4542368**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	2396	250	2500	0	95.8	72.1	140	2591	7.82	21.5	
Toluene	2472	250	2500	0	98.9	58.7	154	2672	7.74	20	
Trichloroethene	2512	250	2500	0	100	68.3	149	2694	6.97	17.7	
Surr: 4-Bromofluorobenzene	2490	0	2500	0	99.6	67.4	123	2619	0	0	
Surr: Dibromofluoromethane	2614	0	2500	0	105	75.5	128	2726	0	0	
Surr: Toluene-d8	2546	0	2500	0	102	70	120	2598	0	0	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203C19

ANALYTICAL QC SUMMARY REPORT

BatchID: 159097

Sample ID: **MB-159097** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217373**
SampleType: **MBLK** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **159097** Analysis Date: **03/19/2012** Seq No: **4544935**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	BRL	0.100	0	0	0	0	0	0	0	0	

Sample ID: **LCS-159097** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217373**
SampleType: **LCS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **159097** Analysis Date: **03/19/2012** Seq No: **4544934**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.672	0.100	10	0.04186	96.3	80	120	0	0	0	

Sample ID: **1203C19-002CMS** Client ID: **MW-1D** Units: **mg/L** Prep Date: **03/19/2012** Run No: **217373**
SampleType: **MS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **159097** Analysis Date: **03/19/2012** Seq No: **4544938**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.653	0.100	10	0.3264	93.3	75	125	0	0	0	

Sample ID: **1203C19-002CMSD** Client ID: **MW-1D** Units: **mg/L** Prep Date: **03/19/2012** Run No: **217373**
SampleType: **MSD** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **159097** Analysis Date: **03/19/2012** Seq No: **4544942**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.460	0.100	10	0.3264	91.3	75	125	9.653	2.02	20	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203C19

ANALYTICAL QC SUMMARY REPORT

BatchID: 159139

Sample ID: **MB-159139** Client ID: Units: **ug/L** Prep Date: **03/19/2012** Run No: **217469**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **159139** Analysis Date: **03/19/2012** Seq No: **4546261**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	BRL	9	0	0	0	0	0	0	0	0	
Ethylene	BRL	7	0	0	0	0	0	0	0	0	
Methane	BRL	4	0	0	0	0	0	0	0	0	

Sample ID: **LCS-159139** Client ID: Units: **ug/L** Prep Date: **03/19/2012** Run No: **217469**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **159139** Analysis Date: **03/19/2012** Seq No: **4546265**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	134.5	9	200	0	67.3	37.9	115	0	0	0	
Ethylene	90.00	7	200	0	45	26.6	115	0	0	0	
Methane	145.2	4	200	0	72.6	38.4	115	0	0	0	

Sample ID: **LCSD-159139** Client ID: Units: **ug/L** Prep Date: **03/19/2012** Run No: **217469**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **159139** Analysis Date: **03/19/2012** Seq No: **4546267**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	132.2	9	200	0	66.1	37.9	115	134.5	1.79	20	
Ethylene	88.46	7	200	0	44.2	26.6	115	90.00	1.73	20	
Methane	142.7	4	200	0	71.3	38.4	115	145.2	1.79	20	

Sample ID: **1203D40-004BMS** Client ID: Units: **ug/L** Prep Date: **03/19/2012** Run No: **217475**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **159139** Analysis Date: **03/20/2012** Seq No: **4546471**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	99.25	9	200	0	49.6	38.9	115	0	0	0	
Ethylene	65.77	7	200	0	32.9	23.1	115	0	0	0	
Methane	104.3	4	200	0	52.1	38.4	115	0	0	0	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 21-Mar-12

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203C19

ANALYTICAL QC SUMMARY REPORT

BatchID: **159139**

Sample ID: **1203D40-004BMSD** Client ID: Units: **ug/L** Prep Date: **03/19/2012** Run No: **217475**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **159139** Analysis Date: **03/20/2012** Seq No: **4546475**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	98.55	9	200	0	49.3	38.9	115	99.25	0.712	20	
Ethylene	65.79	7	200	0	32.9	23.1	115	65.77	0.024	20	
Methane	104.4	4	200	0	52.2	38.4	115	104.3	0.087	20	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203C19

ANALYTICAL QC SUMMARY REPORT

BatchID: 159228

Sample ID: **MB-159228** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217490**
SampleType: **MBLK** TestCode: **Sulfide by SW9030B/9034** BatchID: **159228** Analysis Date: **03/20/2012** Seq No: **4546581**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00	0	0	0	0	0	0	0	0	

Sample ID: **LCS-159228** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217490**
SampleType: **LCS** TestCode: **Sulfide by SW9030B/9034** BatchID: **159228** Analysis Date: **03/20/2012** Seq No: **4546582**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	376.0	2.00	376	0	100	40	120	0	0	0	

Sample ID: **1203D40-002DMS** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217490**
SampleType: **MS** TestCode: **Sulfide by SW9030B/9034** BatchID: **159228** Analysis Date: **03/20/2012** Seq No: **4546587**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	36.80	2.00	37.6	0	97.9	66.8	121	0	0	0	

Sample ID: **1203D40-002DMSD** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217490**
SampleType: **MSD** TestCode: **Sulfide by SW9030B/9034** BatchID: **159228** Analysis Date: **03/20/2012** Seq No: **4546588**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	36.00	2.00	37.6	0	95.7	66.8	121	36.80	2.2	30	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203C19

ANALYTICAL QC SUMMARY REPORT

BatchID: R217145

Sample ID: **MB-R217145** Client ID: Units: **mg/L** Prep Date: Run No: **217145**
SampleType: **MBLK** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217145** Analysis Date: **03/15/2012** Seq No: **4539874**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.00	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R217145** Client ID: Units: **mg/L** Prep Date: Run No: **217145**
SampleType: **LCS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217145** Analysis Date: **03/15/2012** Seq No: **4539872**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.44	1.00	25	0	97.8	90	110	0	0	0	

Sample ID: **1203C19-002GMS** Client ID: **MW-1D** Units: **mg/L** Prep Date: Run No: **217145**
SampleType: **MS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217145** Analysis Date: **03/15/2012** Seq No: **4539899**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	30.70	1.00	25	4.493	105	80	120	0	0	0	

Sample ID: **1203C19-002GMSD** Client ID: **MW-1D** Units: **mg/L** Prep Date: Run No: **217145**
SampleType: **MSD** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217145** Analysis Date: **03/15/2012** Seq No: **4539903**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	29.92	1.00	25	4.493	102	80	120	30.70	2.57	20	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203C19

ANALYTICAL QC SUMMARY REPORT

BatchID: **R217185**

Sample ID: **MB-R217185** Client ID: Units: **mg/L** Prep Date: Run No: **217185**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R217185** Analysis Date: **03/15/2012** Seq No: **4540899**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0	0	0	0	0	0	0	0	0	
Nitrate	BRL	0.25	0	0	0	0	0	0	0	0	
Nitrite	BRL	0.25	0	0	0	0	0	0	0	0	
Sulfate	BRL	1.0	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R217185** Client ID: Units: **mg/L** Prep Date: Run No: **217185**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R217185** Analysis Date: **03/15/2012** Seq No: **4540897**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	5.055	1.0	5	0	101	90	110	0	0	0	
Nitrate	5.007	0.25	5	0	100	90	110	0	0	0	
Nitrite	4.949	0.25	5	0	99	90	110	0	0	0	
Sulfate	25.81	1.0	25	0	103	90	110	0	0	0	

Sample ID: **1203B91-003BMS** Client ID: Units: **mg/L** Prep Date: Run No: **217185**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R217185** Analysis Date: **03/15/2012** Seq No: **4540917**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	7.964	1.0	5	2.769	104	90	110	0	0	0	
Nitrate	5.084	0.25	5	0	102	90	110	0	0	0	
Nitrite	5.233	0.25	5	0	105	90	110	0	0	0	
Sulfate	26.63	1.0	25	0.9985	103	90	110	0	0	0	

Sample ID: **1203C19-005EMS** Client ID: **MW-10S** Units: **mg/L** Prep Date: Run No: **217185**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R217185** Analysis Date: **03/15/2012** Seq No: **4540932**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.499	1.0	5	4.215	106	90	110	0	0	0	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203C19

ANALYTICAL QC SUMMARY REPORT

BatchID: **R217185**

Sample ID: **1203C19-005EMS** Client ID: **MW-10S** Units: **mg/L** Prep Date: Run No: **217185**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R217185** Analysis Date: **03/15/2012** Seq No: **4540932**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	9.104	0.25	5	3.821	106	90	110	0	0	0	
Nitrite	5.299	0.25	5	0	106	90	110	0	0	0	
Sulfate	26.11	1.0	25	0.2464	103	90	110	0	0	0	

Sample ID: **1203B91-003BMSD** Client ID: Units: **mg/L** Prep Date: Run No: **217185**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R217185** Analysis Date: **03/15/2012** Seq No: **4540919**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	7.928	1.0	5	2.769	103	90	110	7.964	0.456	20	
Nitrate	5.103	0.25	5	0	102	90	110	5.084	0.375	20	
Nitrite	5.213	0.25	5	0	104	90	110	5.233	0.377	20	
Sulfate	26.77	1.0	25	0.9985	103	90	110	26.63	0.533	20	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203C19

ANALYTICAL QC SUMMARY REPORT

BatchID: **R217491**

Sample ID: **MB-R217491** Client ID: Units: **mg/L** Prep Date: Run No: **217491**
SampleType: **MBLK** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217491** Analysis Date: **03/15/2012** Seq No: **4546632**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferric (Fe+3)	BRL	0.100	0	0	0	0	0	0	0	0	
Iron, as Ferrous (Fe+2)	BRL	0.100	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R217491** Client ID: Units: **mg/L** Prep Date: Run No: **217491**
SampleType: **LCS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217491** Analysis Date: **03/15/2012** Seq No: **4546633**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5308	0.100	0.5	0	106	85	115	0	0	0	

Sample ID: **1203C19-002FMS** Client ID: **MW-1D** Units: **mg/L** Prep Date: Run No: **217491**
SampleType: **MS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217491** Analysis Date: **03/15/2012** Seq No: **4546652**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5568	0.100	0.5	0.009800	109	80	120	0	0	0	

Sample ID: **1203C19-002FMSD** Client ID: **MW-1D** Units: **mg/L** Prep Date: Run No: **217491**
SampleType: **MSD** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217491** Analysis Date: **03/15/2012** Seq No: **4546656**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5568	0.100	0.5	0.009800	109	80	120	0.5568	0	30	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 21, 2012

Rick Rudolph
Sailors Engineering Associates
1675 Spectrum Drive
Lawrenceville GA 30043

TEL: (770) 962-5922
FAX: (770) 962-7964

RE: Spalding Corners S/C

Dear Rick Rudolph: Order No: 1203D40

Analytical Environmental Services, Inc. received 6 samples on 3/15/2012 5:55:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Sharissa Hall
Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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

CHAIN OF CUSTODY

Work Order: 1203040

Date: 3/15/12 Page 1 of 1

COMPANY: Sailors Eng Assoc

ADDRESS: 1675 Spectrum Dr Lawrenceville, GA 30043

PHONE: 770-962-5922

FAX:

SAMPLED BY: Michael Short

SIGNATURE: [signature]

ANALYSIS REQUESTED

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8260 B	TOC	Sulfate, Nitrate, Nitrite	Ferrous/Ferric Iron	Total Iron	M, E, E	Sulfide							REMARKS	No # of Containers
							PRESERVATION (See codes)														
1	Trip Blank						✓														2
2	MW-18s	3/15	11:28				✓	✓	✓	✓	✓	✓	✓								9
3	MW-6S	3/15	11:12				✓	✓	✓	✓	✓	✓	✓								9
4	MW-7S	3/15	15:20				✓	✓	✓	✓	✓	✓	✓								9
5	MW-9S	3/14	19:13				✓														2
6	MW-17S	3/15	16:31				✓														
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: [signature]	3/15/12 17:55	1: [signature]	3/15/12 5:55
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS: Short Hold Time

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

PROJECT INFORMATION
PROJECT NAME: Spalding Corners S/C
PROJECT #: 102-063
SITE ADDRESS: 7700 Spalding Dr Norcross
SEND REPORT TO: Rick Rudolph
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers: 31

Turnaround Time Request
- (✓) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 21-Mar-12

Client: Sailors Engineering Associates
Project: Spalding Corners S/C
Lab ID: 1203D40

Case Narrative

Per Rick Rudolph 3/16/2012 11:41am, chloride is required in addition to sulfate, nitrate, and nitrite.

Total Organic Carbon Analysis by Method 9060:

Due to sample matrix, sample 1203D40-002E and -003E required a dilution during preparation and/or analysis resulting in elevated reporting limits.

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Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Corners S/C	**Collection Date:**	3/15/2012
Lab ID:	1203D40-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
2-Butanone	BRL	50		ug/L	159044	1	03/16/2012 20:49	SB
2-Hexanone	BRL	10		ug/L	159044	1	03/16/2012 20:49	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159044	1	03/16/2012 20:49	SB
Acetone	BRL	50		ug/L	159044	1	03/16/2012 20:49	SB
Benzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Bromodichloromethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Bromoform	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Bromomethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Carbon disulfide	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Carbon tetrachloride	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Chlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Chloroethane	BRL	10		ug/L	159044	1	03/16/2012 20:49	SB
Chloroform	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Chloromethane	BRL	10		ug/L	159044	1	03/16/2012 20:49	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Cyclohexane	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Dibromochloromethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Dichlorodifluoromethane	BRL	10		ug/L	159044	1	03/16/2012 20:49	SB
Ethylbenzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Freon-113	BRL	10		ug/L	159044	1	03/16/2012 20:49	SB
Isopropylbenzene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
m,p-Xylene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Methyl acetate	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Methylcyclohexane	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Methylene chloride	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
o-Xylene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Corners S/C	**Collection Date:**	3/15/2012
Lab ID:	1203D40-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Tetrachloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Toluene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Trichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159044	1	03/16/2012 20:49	SB
Vinyl chloride	BRL	2.0		ug/L	159044	1	03/16/2012 20:49	SB
Surr: 4-Bromofluorobenzene	95.4	67.4-123		%REC	159044	1	03/16/2012 20:49	SB
Surr: Dibromofluoromethane	98.4	75.5-128		%REC	159044	1	03/16/2012 20:49	SB
Surr: Toluene-d8	96.3	70-120		%REC	159044	1	03/16/2012 20:49	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-18S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/15/2012 11:28:00 AM
Lab ID:	1203D40-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	10.0		mg/L	R217265	10	03/16/2012 20:01	GR
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
2-Butanone	BRL	50		ug/L	159044	1	03/16/2012 14:13	SB
2-Hexanone	BRL	10		ug/L	159044	1	03/16/2012 14:13	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159044	1	03/16/2012 14:13	SB
Acetone	BRL	50		ug/L	159044	1	03/16/2012 14:13	SB
Benzene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Bromodichloromethane	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Bromoform	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Bromomethane	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Carbon disulfide	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Carbon tetrachloride	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Chlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Chloroethane	BRL	10		ug/L	159044	1	03/16/2012 14:13	SB
Chloroform	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Chloromethane	BRL	10		ug/L	159044	1	03/16/2012 14:13	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Cyclohexane	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Dibromochloromethane	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Dichlorodifluoromethane	BRL	10		ug/L	159044	1	03/16/2012 14:13	SB
Ethylbenzene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Freon-113	BRL	10		ug/L	159044	1	03/16/2012 14:13	SB
Isopropylbenzene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
m,p-Xylene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Methyl acetate	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-18S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/15/2012 11:28:00 AM
Lab ID:	1203D40-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Methylene chloride	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
o-Xylene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Styrene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Tetrachloroethene	140	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Toluene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Trichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159044	1	03/16/2012 14:13	SB
Vinyl chloride	BRL	2.0		ug/L	159044	1	03/16/2012 14:13	SB
Surr: 4-Bromofluorobenzene	95.2	67.4-123		%REC	159044	1	03/16/2012 14:13	SB
Surr: Dibromofluoromethane	105	75.5-128		%REC	159044	1	03/16/2012 14:13	SB
Surr: Toluene-d8	95.8	70-120		%REC	159044	1	03/16/2012 14:13	SB
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	159228	1	03/20/2012 15:45	AS
ION SCAN SW9056A								
Chloride	7.1	5.0		mg/L	R217318	5	03/16/2012 09:51	GR
Nitrate	1.3	0.25		mg/L	R217318	1	03/16/2012 09:06	GR
Nitrite	BRL	0.25		mg/L	R217318	1	03/16/2012 09:06	GR
Sulfate	8.8	1.0		mg/L	R217318	1	03/16/2012 09:06	GR
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	159139	1	03/20/2012 15:10	SN
Ethylene	BRL	7		ug/L	159139	1	03/20/2012 15:10	SN
Methane	BRL	4		ug/L	159139	1	03/20/2012 15:10	SN
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	0.382	0.100		mg/L	R217491	1	03/15/2012 18:40	CG
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R217491	1	03/15/2012 18:40	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	0.382	0.100		mg/L	159097	1	03/19/2012 19:32	TA

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-6S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/15/2012 11:12:00 AM
Lab ID:	1203D40-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	5.00		mg/L	R217265	5	03/19/2012 07:45	GR
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
2-Butanone	BRL	50		ug/L	159044	1	03/16/2012 23:10	SB
2-Hexanone	BRL	10		ug/L	159044	1	03/16/2012 23:10	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159044	1	03/16/2012 23:10	SB
Acetone	BRL	50		ug/L	159044	1	03/16/2012 23:10	SB
Benzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Bromodichloromethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Bromoform	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Bromomethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Carbon disulfide	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Carbon tetrachloride	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Chlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Chloroethane	BRL	10		ug/L	159044	1	03/16/2012 23:10	SB
Chloroform	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Chloromethane	BRL	10		ug/L	159044	1	03/16/2012 23:10	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Cyclohexane	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Dibromochloromethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Dichlorodifluoromethane	BRL	10		ug/L	159044	1	03/16/2012 23:10	SB
Ethylbenzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Freon-113	BRL	10		ug/L	159044	1	03/16/2012 23:10	SB
Isopropylbenzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
m,p-Xylene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Methyl acetate	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-6S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/15/2012 11:12:00 AM
Lab ID:	1203D40-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Methylene chloride	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
o-Xylene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Styrene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Tetrachloroethene	41	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Toluene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Trichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:10	SB
Vinyl chloride	BRL	2.0		ug/L	159044	1	03/16/2012 23:10	SB
Surr: 4-Bromofluorobenzene	100	67.4-123		%REC	159044	1	03/16/2012 23:10	SB
Surr: Dibromofluoromethane	106	75.5-128		%REC	159044	1	03/16/2012 23:10	SB
Surr: Toluene-d8	95.8	70-120		%REC	159044	1	03/16/2012 23:10	SB
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	159228	1	03/20/2012 15:45	AS
ION SCAN SW9056A								
Chloride	5.6	1.0		mg/L	R217318	1	03/16/2012 09:21	GR
Nitrate	0.32	0.25		mg/L	R217318	1	03/16/2012 09:21	GR
Nitrite	BRL	0.25		mg/L	R217318	1	03/16/2012 09:21	GR
Sulfate	2.6	1.0		mg/L	R217318	1	03/16/2012 09:21	GR
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	159139	1	03/20/2012 15:22	SN
Ethylene	BRL	7		ug/L	159139	1	03/20/2012 15:22	SN
Methane	BRL	4		ug/L	159139	1	03/20/2012 15:22	SN
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	0.908	0.100		mg/L	R217491	1	03/15/2012 18:40	CG
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R217491	1	03/15/2012 18:40	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	0.908	0.100		mg/L	159097	1	03/19/2012 19:36	TA

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-7S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/15/2012 3:20:00 PM
Lab ID:	1203D40-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.38	1.00		mg/L	R217265	1	03/16/2012 18:14	GR
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
2-Butanone	BRL	50		ug/L	159044	1	03/16/2012 23:38	SB
2-Hexanone	BRL	10		ug/L	159044	1	03/16/2012 23:38	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159044	1	03/16/2012 23:38	SB
Acetone	BRL	50		ug/L	159044	1	03/16/2012 23:38	SB
Benzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Bromodichloromethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Bromoform	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Bromomethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Carbon disulfide	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Carbon tetrachloride	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Chlorobenzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Chloroethane	BRL	10		ug/L	159044	1	03/16/2012 23:38	SB
Chloroform	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Chloromethane	BRL	10		ug/L	159044	1	03/16/2012 23:38	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Cyclohexane	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Dibromochloromethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Dichlorodifluoromethane	BRL	10		ug/L	159044	1	03/16/2012 23:38	SB
Ethylbenzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Freon-113	BRL	10		ug/L	159044	1	03/16/2012 23:38	SB
Isopropylbenzene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
m,p-Xylene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Methyl acetate	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-7S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/15/2012 3:20:00 PM
Lab ID:	1203D40-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Methylene chloride	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
o-Xylene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Styrene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Tetrachloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Toluene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Trichloroethene	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159044	1	03/16/2012 23:38	SB
Vinyl chloride	BRL	2.0		ug/L	159044	1	03/16/2012 23:38	SB
Surr: 4-Bromofluorobenzene	93.4	67.4-123		%REC	159044	1	03/16/2012 23:38	SB
Surr: Dibromofluoromethane	101	75.5-128		%REC	159044	1	03/16/2012 23:38	SB
Surr: Toluene-d8	95	70-120		%REC	159044	1	03/16/2012 23:38	SB
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	159228	1	03/20/2012 15:45	AS
ION SCAN SW9056A								
Chloride	12	5.0		mg/L	R217318	5	03/16/2012 10:06	GR
Nitrate	0.87	0.25		mg/L	R217318	1	03/16/2012 09:36	GR
Nitrite	BRL	0.25		mg/L	R217318	1	03/16/2012 09:36	GR
Sulfate	38	1.0		mg/L	R217318	1	03/16/2012 09:36	GR
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	159139	1	03/20/2012 15:30	SN
Ethylene	BRL	7		ug/L	159139	1	03/20/2012 15:30	SN
Methane	BRL	4		ug/L	159139	1	03/20/2012 15:30	SN
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	0.150	0.100		mg/L	R217491	1	03/15/2012 10:30	CG
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R217491	1	03/15/2012 10:30	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	0.150	0.100		mg/L	159097	1	03/19/2012 19:47	TA

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-9S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/14/2012 7:13:00 PM
Lab ID:	1203D40-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
2-Butanone	BRL	50		ug/L	159044	1	03/17/2012 00:07	SB
2-Hexanone	BRL	10		ug/L	159044	1	03/17/2012 00:07	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159044	1	03/17/2012 00:07	SB
Acetone	BRL	50		ug/L	159044	1	03/17/2012 00:07	SB
Benzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Bromodichloromethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Bromoform	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Bromomethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Carbon disulfide	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Carbon tetrachloride	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Chlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Chloroethane	BRL	10		ug/L	159044	1	03/17/2012 00:07	SB
Chloroform	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Chloromethane	BRL	10		ug/L	159044	1	03/17/2012 00:07	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Cyclohexane	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Dibromochloromethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Dichlorodifluoromethane	BRL	10		ug/L	159044	1	03/17/2012 00:07	SB
Ethylbenzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Freon-113	BRL	10		ug/L	159044	1	03/17/2012 00:07	SB
Isopropylbenzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
m,p-Xylene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Methyl acetate	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Methylcyclohexane	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Methylene chloride	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
o-Xylene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-9S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/14/2012 7:13:00 PM
Lab ID:	1203D40-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Tetrachloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Toluene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Trichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:07	SB
Vinyl chloride	BRL	2.0		ug/L	159044	1	03/17/2012 00:07	SB
Surr: 4-Bromofluorobenzene	94.5	67.4-123		%REC	159044	1	03/17/2012 00:07	SB
Surr: Dibromofluoromethane	103	75.5-128		%REC	159044	1	03/17/2012 00:07	SB
Surr: Toluene-d8	97	70-120		%REC	159044	1	03/17/2012 00:07	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-17S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/15/2012 4:31:00 PM
Lab ID:	1203D40-006	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
2-Butanone	BRL	50		ug/L	159044	1	03/17/2012 00:36	SB
2-Hexanone	BRL	10		ug/L	159044	1	03/17/2012 00:36	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159044	1	03/17/2012 00:36	SB
Acetone	BRL	50		ug/L	159044	1	03/17/2012 00:36	SB
Benzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Bromodichloromethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Bromoform	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Bromomethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Carbon disulfide	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Carbon tetrachloride	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Chlorobenzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Chloroethane	BRL	10		ug/L	159044	1	03/17/2012 00:36	SB
Chloroform	8.0	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Chloromethane	BRL	10		ug/L	159044	1	03/17/2012 00:36	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Cyclohexane	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Dibromochloromethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Dichlorodifluoromethane	BRL	10		ug/L	159044	1	03/17/2012 00:36	SB
Ethylbenzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Freon-113	BRL	10		ug/L	159044	1	03/17/2012 00:36	SB
Isopropylbenzene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
m,p-Xylene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Methyl acetate	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Methylcyclohexane	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Methylene chloride	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
o-Xylene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 21-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-17S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/15/2012 4:31:00 PM
Lab ID:	1203D40-006	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Tetrachloroethene	150	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Toluene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Trichloroethene	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159044	1	03/17/2012 00:36	SB
Vinyl chloride	BRL	2.0		ug/L	159044	1	03/17/2012 00:36	SB
Surr: 4-Bromofluorobenzene	100	67.4-123		%REC	159044	1	03/17/2012 00:36	SB
Surr: Dibromofluoromethane	103	75.5-128		%REC	159044	1	03/17/2012 00:36	SB
Surr: Toluene-d8	92.2	70-120		%REC	159044	1	03/17/2012 00:36	SB

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Sailors Work Order Number 1203040

Checklist completed by [signature] 3/15/12
Signature Date

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

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

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

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

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

Cooler #1 3.5° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

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

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by MJ

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc

Date: 22-Mar-12

Client: Sailors Engineering Associates
Project: Spalding Corners S/C
Lab Order: 1203D40

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1203D40-001A	TRIP BLANK	3/15/2012 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		03/16/2012	03/16/2012
1203D40-002A	MW-18S	3/15/2012 11:28:00AM	Aqueous	TCL VOLATILE ORGANICS		03/16/2012	03/16/2012
1203D40-002B	MW-18S	3/15/2012 11:28:00AM	Aqueous	GC Analysis of Gaseous Samples		03/19/2012	03/20/2012
1203D40-002C	MW-18S	3/15/2012 11:28:00AM	Aqueous	TOTAL METALS BY ICP		03/19/2012	03/19/2012
1203D40-002D	MW-18S	3/15/2012 11:28:00AM	Aqueous	Sulfide by SW9030/9034		03/19/2012	03/20/2012
1203D40-002E	MW-18S	3/15/2012 11:28:00AM	Aqueous	Total Organic Carbon (TOC)			03/16/2012
1203D40-002F	MW-18S	3/15/2012 11:28:00AM	Aqueous	ION SCAN			03/16/2012
1203D40-002G	MW-18S	3/15/2012 11:28:00AM	Aqueous	Ferrous Iron			03/15/2012
1203D40-003A	MW-6S	3/15/2012 11:12:00AM	Aqueous	TCL VOLATILE ORGANICS		03/16/2012	03/16/2012
1203D40-003B	MW-6S	3/15/2012 11:12:00AM	Aqueous	GC Analysis of Gaseous Samples		03/19/2012	03/20/2012
1203D40-003C	MW-6S	3/15/2012 11:12:00AM	Aqueous	TOTAL METALS BY ICP		03/19/2012	03/19/2012
1203D40-003D	MW-6S	3/15/2012 11:12:00AM	Aqueous	Sulfide by SW9030/9034		03/19/2012	03/20/2012
1203D40-003E	MW-6S	3/15/2012 11:12:00AM	Aqueous	Total Organic Carbon (TOC)			03/19/2012
1203D40-003F	MW-6S	3/15/2012 11:12:00AM	Aqueous	ION SCAN			03/16/2012
1203D40-003G	MW-6S	3/15/2012 11:12:00AM	Aqueous	Ferrous Iron			03/15/2012
1203D40-004A	MW-7S	3/15/2012 3:20:00PM	Aqueous	TCL VOLATILE ORGANICS		03/16/2012	03/16/2012
1203D40-004B	MW-7S	3/15/2012 3:20:00PM	Aqueous	GC Analysis of Gaseous Samples		03/19/2012	03/20/2012
1203D40-004C	MW-7S	3/15/2012 3:20:00PM	Aqueous	TOTAL METALS BY ICP		03/19/2012	03/19/2012
1203D40-004D	MW-7S	3/15/2012 3:20:00PM	Aqueous	Sulfide by SW9030/9034		03/19/2012	03/20/2012
1203D40-004E	MW-7S	3/15/2012 3:20:00PM	Aqueous	Total Organic Carbon (TOC)			03/16/2012
1203D40-004F	MW-7S	3/15/2012 3:20:00PM	Aqueous	ION SCAN			03/16/2012
1203D40-004G	MW-7S	3/15/2012 3:20:00PM	Aqueous	Ferrous Iron			03/15/2012
1203D40-005A	MW-9S	3/14/2012 7:13:00PM	Aqueous	TCL VOLATILE ORGANICS		03/16/2012	03/17/2012
1203D40-006A	MW-17S	3/15/2012 4:31:00PM	Aqueous	TCL VOLATILE ORGANICS		03/16/2012	03/17/2012

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203D40

ANALYTICAL QC SUMMARY REPORT

BatchID: 159044

Sample ID: **MB-159044** Client ID: Units: **ug/L** Prep Date: **03/16/2012** Run No: **217186**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159044** Analysis Date: **03/16/2012** Seq No: **4540995**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203D40

ANALYTICAL QC SUMMARY REPORT

BatchID: **159044**

Sample ID: **MB-159044** Client ID: Units: **ug/L** Prep Date: **03/16/2012** Run No: **217186**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159044** Analysis Date: **03/16/2012** Seq No: **4540995**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	49.24	0	50	0	98.5	67.4	123	0	0	0	
Surr: Dibromofluoromethane	51.66	0	50	0	103	75.5	128	0	0	0	
Surr: Toluene-d8	49.04	0	50	0	98.1	70	120	0	0	0	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203D40

ANALYTICAL QC SUMMARY REPORT

BatchID: 159044

Sample ID: **LCS-159044** Client ID: Units: **ug/L** Prep Date: **03/16/2012** Run No: **217186**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159044** Analysis Date: **03/16/2012** Seq No: **4540990**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	48.99	5.0	50	0	98	60	140	0	0	0	
Benzene	48.14	5.0	50	0	96.3	70	130	0	0	0	
Chlorobenzene	46.80	5.0	50	0	93.6	70	130	0	0	0	
Toluene	47.32	5.0	50	0	94.6	70	130	0	0	0	
Trichloroethene	50.45	5.0	50	0	101	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	51.32	0	50	0	103	67.4	123	0	0	0	
Surr: Dibromofluoromethane	52.46	0	50	0	105	75.5	128	0	0	0	
Surr: Toluene-d8	50.94	0	50	0	102	70	120	0	0	0	

Sample ID: **1203D28-001AMS** Client ID: Units: **ug/L** Prep Date: **03/16/2012** Run No: **217186**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159044** Analysis Date: **03/16/2012** Seq No: **4542364**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2522	250	2500	0	101	50.1	179	0	0	0	
Benzene	2638	250	2500	0	106	61.2	150	0	0	0	
Chlorobenzene	2591	250	2500	0	104	72.1	140	0	0	0	
Toluene	2672	250	2500	0	107	58.7	154	0	0	0	
Trichloroethene	2694	250	2500	0	108	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	2619	0	2500	0	105	67.4	123	0	0	0	
Surr: Dibromofluoromethane	2726	0	2500	0	109	75.5	128	0	0	0	
Surr: Toluene-d8	2598	0	2500	0	104	70	120	0	0	0	

Sample ID: **1203D28-001AMSD** Client ID: Units: **ug/L** Prep Date: **03/16/2012** Run No: **217186**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159044** Analysis Date: **03/16/2012** Seq No: **4542368**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2373	250	2500	0	94.9	50.1	179	2522	6.09	23.3	
Benzene	2476	250	2500	0	99	61.2	150	2638	6.37	19	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203D40

ANALYTICAL QC SUMMARY REPORT

BatchID: **159044**

Sample ID: **1203D28-001AMSD** Client ID: Units: **ug/L** Prep Date: **03/16/2012** Run No: **217186**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159044** Analysis Date: **03/16/2012** Seq No: **4542368**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	2396	250	2500	0	95.8	72.1	140	2591	7.82	21.5	
Toluene	2472	250	2500	0	98.9	58.7	154	2672	7.74	20	
Trichloroethene	2512	250	2500	0	100	68.3	149	2694	6.97	17.7	
Surr: 4-Bromofluorobenzene	2490	0	2500	0	99.6	67.4	123	2619	0	0	
Surr: Dibromofluoromethane	2614	0	2500	0	105	75.5	128	2726	0	0	
Surr: Toluene-d8	2546	0	2500	0	102	70	120	2598	0	0	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203D40

ANALYTICAL QC SUMMARY REPORT

BatchID: 159097

Sample ID: **MB-159097** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217373**
SampleType: **MBLK** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **159097** Analysis Date: **03/19/2012** Seq No: **4544935**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	BRL	0.100	0	0	0	0	0	0	0	0	

Sample ID: **LCS-159097** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217373**
SampleType: **LCS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **159097** Analysis Date: **03/19/2012** Seq No: **4544934**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.672	0.100	10	0.04186	96.3	80	120	0	0	0	

Sample ID: **1203C19-002CMS** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217373**
SampleType: **MS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **159097** Analysis Date: **03/19/2012** Seq No: **4544938**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.653	0.100	10	0.3264	93.3	75	125	0	0	0	

Sample ID: **1203C19-002CMSD** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217373**
SampleType: **MSD** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **159097** Analysis Date: **03/19/2012** Seq No: **4544942**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.460	0.100	10	0.3264	91.3	75	125	9.653	2.02	20	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203D40

ANALYTICAL QC SUMMARY REPORT

BatchID: **159139**

Sample ID: **MB-159139** Client ID: Units: **ug/L** Prep Date: **03/19/2012** Run No: **217469**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **159139** Analysis Date: **03/19/2012** Seq No: **4546261**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	BRL	9	0	0	0	0	0	0	0	0	
Ethylene	BRL	7	0	0	0	0	0	0	0	0	
Methane	BRL	4	0	0	0	0	0	0	0	0	

Sample ID: **LCS-159139** Client ID: Units: **ug/L** Prep Date: **03/19/2012** Run No: **217469**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **159139** Analysis Date: **03/19/2012** Seq No: **4546265**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	134.5	9	200	0	67.3	37.9	115	0	0	0	
Ethylene	90.00	7	200	0	45	26.6	115	0	0	0	
Methane	145.2	4	200	0	72.6	38.4	115	0	0	0	

Sample ID: **LCSD-159139** Client ID: Units: **ug/L** Prep Date: **03/19/2012** Run No: **217469**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **159139** Analysis Date: **03/19/2012** Seq No: **4546267**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	132.2	9	200	0	66.1	37.9	115	134.5	1.79	20	
Ethylene	88.46	7	200	0	44.2	26.6	115	90.00	1.73	20	
Methane	142.7	4	200	0	71.3	38.4	115	145.2	1.79	20	

Sample ID: **1203D40-004BMS** Client ID: **MW-7S** Units: **ug/L** Prep Date: **03/19/2012** Run No: **217475**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **159139** Analysis Date: **03/20/2012** Seq No: **4546471**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	99.25	9	200	0	49.6	38.9	115	0	0	0	
Ethylene	65.77	7	200	0	32.9	23.1	115	0	0	0	
Methane	104.3	4	200	0	52.1	38.4	115	0	0	0	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 21-Mar-12

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203D40

ANALYTICAL QC SUMMARY REPORT

BatchID: **159139**

Sample ID: **1203D40-004BMSD** Client ID: **MW-7S** Units: **ug/L** Prep Date: **03/19/2012** Run No: **217475**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **159139** Analysis Date: **03/20/2012** Seq No: **4546475**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	98.55	9	200	0	49.3	38.9	115	99.25	0.712	20	
Ethylene	65.79	7	200	0	32.9	23.1	115	65.77	0.024	20	
Methane	104.4	4	200	0	52.2	38.4	115	104.3	0.087	20	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203D40

ANALYTICAL QC SUMMARY REPORT

BatchID: 159228

Sample ID: **MB-159228** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217490**
SampleType: **MBLK** TestCode: **Sulfide by SW9030B/9034** BatchID: **159228** Analysis Date: **03/20/2012** Seq No: **4546581**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00	0	0	0	0	0	0	0	0	

Sample ID: **LCS-159228** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217490**
SampleType: **LCS** TestCode: **Sulfide by SW9030B/9034** BatchID: **159228** Analysis Date: **03/20/2012** Seq No: **4546582**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	376.0	2.00	376	0	100	40	120	0	0	0	

Sample ID: **1203D40-002DMS** Client ID: **MW-18S** Units: **mg/L** Prep Date: **03/19/2012** Run No: **217490**
SampleType: **MS** TestCode: **Sulfide by SW9030B/9034** BatchID: **159228** Analysis Date: **03/20/2012** Seq No: **4546587**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	36.80	2.00	37.6	0	97.9	66.8	121	0	0	0	

Sample ID: **1203D40-002DMSD** Client ID: **MW-18S** Units: **mg/L** Prep Date: **03/19/2012** Run No: **217490**
SampleType: **MSD** TestCode: **Sulfide by SW9030B/9034** BatchID: **159228** Analysis Date: **03/20/2012** Seq No: **4546588**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	36.00	2.00	37.6	0	95.7	66.8	121	36.80	2.2	30	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203D40

ANALYTICAL QC SUMMARY REPORT

BatchID: **R217265**

Sample ID: **MB-R217265** Client ID: Units: **mg/L** Prep Date: Run No: **217265**
SampleType: **MBLK** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217265** Analysis Date: **03/16/2012** Seq No: **4542545**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.00	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R217265** Client ID: Units: **mg/L** Prep Date: Run No: **217265**
SampleType: **LCS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217265** Analysis Date: **03/16/2012** Seq No: **4542543**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.76	1.00	25	0	99	90	110	0	0	0	

Sample ID: **1203D15-001EMS** Client ID: Units: **mg/L** Prep Date: Run No: **217265**
SampleType: **MS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217265** Analysis Date: **03/16/2012** Seq No: **4542558**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.79	1.00	25	1.407	102	80	120	0	0	0	

Sample ID: **1203D15-001EMSD** Client ID: Units: **mg/L** Prep Date: Run No: **217265**
SampleType: **MSD** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217265** Analysis Date: **03/16/2012** Seq No: **4542560**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.58	1.00	25	1.407	101	80	120	26.79	0.787	20	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203D40

ANALYTICAL QC SUMMARY REPORT

BatchID: R217318

Sample ID: **MB-R217318** Client ID: Units: **mg/L** Prep Date: Run No: **217318**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R217318** Analysis Date: **03/16/2012** Seq No: **4543495**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0	0	0	0	0	0	0	0	0	
Nitrate	BRL	0.25	0	0	0	0	0	0	0	0	
Nitrite	BRL	0.25	0	0	0	0	0	0	0	0	
Sulfate	BRL	1.0	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R217318** Client ID: Units: **mg/L** Prep Date: Run No: **217318**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R217318** Analysis Date: **03/16/2012** Seq No: **4543493**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	4.989	1.0	5	0	99.8	90	110	0	0	0	
Nitrate	5.090	0.25	5	0	102	90	110	0	0	0	
Nitrite	4.948	0.25	5	0	99	90	110	0	0	0	
Sulfate	25.92	1.0	25	0	104	90	110	0	0	0	

Sample ID: **1203D40-004FMS** Client ID: **MW-7S** Units: **mg/L** Prep Date: Run No: **217318**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R217318** Analysis Date: **03/16/2012** Seq No: **4543506**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	35.40	5.0	25	12.42	91.9	90	110	0	0	0	
Nitrate	26.97	1.2	25	0.8944	104	90	110	0	0	0	
Nitrite	23.95	1.2	25	0	95.8	90	110	0	0	0	
Sulfate	168.8	5.0	125	34.45	107	90	110	0	0	0	

Sample ID: **1203D98-006GMS** Client ID: Units: **mg/L** Prep Date: Run No: **217318**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R217318** Analysis Date: **03/16/2012** Seq No: **4543514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	7.751	1.0	5	2.644	102	90	110	0	0	0	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203D40

ANALYTICAL QC SUMMARY REPORT

BatchID: R217318

Sample ID: **1203D98-006GMS** Client ID: Units: **mg/L** Prep Date: Run No: **217318**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R217318** Analysis Date: **03/16/2012** Seq No: **4543514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	8.938	0.25	5	3.476	109	90	110	0	0	0	
Nitrite	5.343	0.25	5	0	107	90	110	0	0	0	
Sulfate	25.47	1.0	25	0.2532	101	90	110	0	0	0	

Sample ID: **1203D40-004FMSD** Client ID: **MW-7S** Units: **mg/L** Prep Date: Run No: **217318**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R217318** Analysis Date: **03/16/2012** Seq No: **4543507**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	34.94	5.0	25	12.42	90.1	90	110	35.40	1.31	20	
Nitrate	27.10	1.2	25	0.8944	105	90	110	26.97	0.506	20	
Nitrite	24.01	1.2	25	0	96	90	110	23.95	0.271	20	
Sulfate	168.6	5.0	125	34.45	107	90	110	168.8	0.125	20	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 21-Mar-12

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203D40

ANALYTICAL QC SUMMARY REPORT

BatchID: R217491

Sample ID: **MB-R217491** Client ID: Units: **mg/L** Prep Date: Run No: **217491**
SampleType: **MBLK** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217491** Analysis Date: **03/15/2012** Seq No: **4546632**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferric (Fe+3)	BRL	0.100	0	0	0	0	0	0	0	0	
Iron, as Ferrous (Fe+2)	BRL	0.100	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R217491** Client ID: Units: **mg/L** Prep Date: Run No: **217491**
SampleType: **LCS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217491** Analysis Date: **03/15/2012** Seq No: **4546633**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5308	0.100	0.5	0	106	85	115	0	0	0	

Sample ID: **1203C19-002FMS** Client ID: Units: **mg/L** Prep Date: Run No: **217491**
SampleType: **MS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217491** Analysis Date: **03/15/2012** Seq No: **4546652**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5568	0.100	0.5	0.009800	109	80	120	0	0	0	

Sample ID: **1203C19-002FMSD** Client ID: Units: **mg/L** Prep Date: Run No: **217491**
SampleType: **MSD** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R217491** Analysis Date: **03/15/2012** Seq No: **4546656**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5568	0.100	0.5	0.009800	109	80	120	0.5568	0	30	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 23, 2012

Rick Rudolph
Sailors Engineering Associates
1675 Spectrum Drive
Lawrenceville GA 30043

TEL: (770) 962-5922
FAX: (770) 962-7964

RE: Spalding Corners S/C

Dear Rick Rudolph: Order No: 1203F86

Analytical Environmental Services, Inc. received 6 samples on 3/19/2012 3:10:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Sharissa Hall
Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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

CHAIN OF CUSTODY

Work Order: 1203F86

Date: 3/19/12 Page 1 of 1

COMPANY: Spilors Eng. Assoc.
ADDRESS: 1675 Spectrum Dr Lawrenceville, GA 30043
PHONE: 770-962-5922
FAX:
SAMPLED BY: Michael Short
SIGNATURE:

ANALYSIS REQUESTED: 8260B

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8260B	REMARKS	No # of Containers
1	Trip Blank					W	✓		6
2	MW-5S	3/16	11:38	✓		GW	✓		6
3	MW-21S	3/16	14:24	✓		GW	✓		6
4	SW-2	3/16	15:27	✓		GW	✓		6
5	SW-3	3/16	16:19	✓		GW	✓		6
6	SW-5	3/19	13:11	✓		GW	✓		6
7									
8									
9									
10									
11									
12									
13									
14									

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Michael Short	3/19/12 15:10	1: [signature]	3/19/12
2:		2:	3:10
3:		3:	

PROJECT INFORMATION
PROJECT NAME: Spalding Corners S/C
PROJECT #: 102-063
SITE ADDRESS: 7705 Spalding Dr Norcross
SEND REPORT TO: Rick Rudolph
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 12

Turnaround Time Request
- ✓ Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req.)
- Other

STATE PROGRAM (if any):
E-mail? Y / N, Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

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

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

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc **Date:** 23-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Corners S/C	**Collection Date:**	3/19/2012
Lab ID:	1203F86-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
2-Butanone	BRL	50		ug/L	159251	1	03/22/2012 01:23	SB
2-Hexanone	BRL	10		ug/L	159251	1	03/22/2012 01:23	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159251	1	03/22/2012 01:23	SB
Acetone	BRL	50		ug/L	159251	1	03/22/2012 01:23	SB
Benzene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Bromodichloromethane	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Bromoform	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Bromomethane	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Carbon disulfide	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Carbon tetrachloride	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Chlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Chloroethane	BRL	10		ug/L	159251	1	03/22/2012 01:23	SB
Chloroform	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Chloromethane	BRL	10		ug/L	159251	1	03/22/2012 01:23	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Cyclohexane	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Dibromochloromethane	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Dichlorodifluoromethane	BRL	10		ug/L	159251	1	03/22/2012 01:23	SB
Ethylbenzene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Freon-113	BRL	10		ug/L	159251	1	03/22/2012 01:23	SB
Isopropylbenzene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
m,p-Xylene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Methyl acetate	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Methylcyclohexane	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Methylene chloride	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
o-Xylene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 23-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Corners S/C	**Collection Date:**	3/19/2012
Lab ID:	1203F86-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Tetrachloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Toluene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Trichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159251	1	03/22/2012 01:23	SB
Vinyl chloride	BRL	2.0		ug/L	159251	1	03/22/2012 01:23	SB
Surr: 4-Bromofluorobenzene	92.1	67.4-123		%REC	159251	1	03/22/2012 01:23	SB
Surr: Dibromofluoromethane	111	75.5-128		%REC	159251	1	03/22/2012 01:23	SB
Surr: Toluene-d8	93.7	70-120		%REC	159251	1	03/22/2012 01:23	SB

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 23-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-5S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/16/2012 11:38:00 AM
Lab ID:	1203F86-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
2-Butanone	BRL	50		ug/L	159251	1	03/21/2012 14:01	SB
2-Hexanone	BRL	10		ug/L	159251	1	03/21/2012 14:01	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159251	1	03/21/2012 14:01	SB
Acetone	BRL	50		ug/L	159251	1	03/21/2012 14:01	SB
Benzene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Bromodichloromethane	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Bromoform	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Bromomethane	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Carbon disulfide	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Carbon tetrachloride	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Chlorobenzene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Chloroethane	BRL	10		ug/L	159251	1	03/21/2012 14:01	SB
Chloroform	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Chloromethane	BRL	10		ug/L	159251	1	03/21/2012 14:01	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Cyclohexane	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Dibromochloromethane	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Dichlorodifluoromethane	BRL	10		ug/L	159251	1	03/21/2012 14:01	SB
Ethylbenzene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Freon-113	BRL	10		ug/L	159251	1	03/21/2012 14:01	SB
Isopropylbenzene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
m,p-Xylene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Methyl acetate	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Methylcyclohexane	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Methylene chloride	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
o-Xylene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-5S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/16/2012 11:38:00 AM
Lab ID:	1203F86-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Tetrachloroethene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Toluene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Trichloroethene	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159251	1	03/21/2012 14:01	SB
Vinyl chloride	BRL	2.0		ug/L	159251	1	03/21/2012 14:01	SB
Surr: 4-Bromofluorobenzene	100	67.4-123		%REC	159251	1	03/21/2012 14:01	SB
Surr: Dibromofluoromethane	103	75.5-128		%REC	159251	1	03/21/2012 14:01	SB
Surr: Toluene-d8	89.2	70-120		%REC	159251	1	03/21/2012 14:01	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-21S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/16/2012 2:24:00 PM
Lab ID:	1203F86-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
2-Butanone	BRL	50		ug/L	159251	1	03/22/2012 03:44	SB
2-Hexanone	BRL	10		ug/L	159251	1	03/22/2012 03:44	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159251	1	03/22/2012 03:44	SB
Acetone	BRL	50		ug/L	159251	1	03/22/2012 03:44	SB
Benzene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Bromodichloromethane	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Bromoform	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Bromomethane	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Carbon disulfide	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Carbon tetrachloride	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Chlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Chloroethane	BRL	10		ug/L	159251	1	03/22/2012 03:44	SB
Chloroform	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Chloromethane	BRL	10		ug/L	159251	1	03/22/2012 03:44	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Cyclohexane	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Dibromochloromethane	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Dichlorodifluoromethane	BRL	10		ug/L	159251	1	03/22/2012 03:44	SB
Ethylbenzene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Freon-113	BRL	10		ug/L	159251	1	03/22/2012 03:44	SB
Isopropylbenzene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
m,p-Xylene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Methyl acetate	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Methylcyclohexane	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Methylene chloride	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
o-Xylene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-21S
Project Name:	Spalding Corners S/C	**Collection Date:**	3/16/2012 2:24:00 PM
Lab ID:	1203F86-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Tetrachloroethene	35	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Toluene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Trichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159251	1	03/22/2012 03:44	SB
Vinyl chloride	BRL	2.0		ug/L	159251	1	03/22/2012 03:44	SB
Surr: 4-Bromofluorobenzene	99.7	67.4-123		%REC	159251	1	03/22/2012 03:44	SB
Surr: Dibromofluoromethane	115	75.5-128		%REC	159251	1	03/22/2012 03:44	SB
Surr: Toluene-d8	96.2	70-120		%REC	159251	1	03/22/2012 03:44	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	SW-2
Project Name:	Spalding Corners S/C	**Collection Date:**	3/16/2012 3:27:00 PM
Lab ID:	1203F86-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
2-Butanone	BRL	50		ug/L	159251	1	03/22/2012 04:12	SB
2-Hexanone	BRL	10		ug/L	159251	1	03/22/2012 04:12	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159251	1	03/22/2012 04:12	SB
Acetone	BRL	50		ug/L	159251	1	03/22/2012 04:12	SB
Benzene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Bromodichloromethane	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Bromoform	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Bromomethane	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Carbon disulfide	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Carbon tetrachloride	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Chlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Chloroethane	BRL	10		ug/L	159251	1	03/22/2012 04:12	SB
Chloroform	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Chloromethane	BRL	10		ug/L	159251	1	03/22/2012 04:12	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Cyclohexane	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Dibromochloromethane	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Dichlorodifluoromethane	BRL	10		ug/L	159251	1	03/22/2012 04:12	SB
Ethylbenzene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Freon-113	BRL	10		ug/L	159251	1	03/22/2012 04:12	SB
Isopropylbenzene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
m,p-Xylene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Methyl acetate	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Methylcyclohexane	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Methylene chloride	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
o-Xylene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	SW-2
Project Name:	Spalding Corners S/C	**Collection Date:**	3/16/2012 3:27:00 PM
Lab ID:	1203F86-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Tetrachloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Toluene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Trichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159251	1	03/22/2012 04:12	SB
Vinyl chloride	BRL	2.0		ug/L	159251	1	03/22/2012 04:12	SB
Surr: 4-Bromofluorobenzene	91.8	67.4-123		%REC	159251	1	03/22/2012 04:12	SB
Surr: Dibromofluoromethane	118	75.5-128		%REC	159251	1	03/22/2012 04:12	SB
Surr: Toluene-d8	98.2	70-120		%REC	159251	1	03/22/2012 04:12	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	SW-3
Project Name:	Spalding Corners S/C	**Collection Date:**	3/16/2012 4:19:00 PM
Lab ID:	1203F86-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
2-Butanone	BRL	50		ug/L	159251	1	03/22/2012 14:09	SB
2-Hexanone	BRL	10		ug/L	159251	1	03/22/2012 14:09	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159251	1	03/22/2012 14:09	SB
Acetone	BRL	50		ug/L	159251	1	03/22/2012 14:09	SB
Benzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Bromodichloromethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Bromoform	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Bromomethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Carbon disulfide	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Carbon tetrachloride	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Chlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Chloroethane	BRL	10		ug/L	159251	1	03/22/2012 14:09	SB
Chloroform	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Chloromethane	BRL	10		ug/L	159251	1	03/22/2012 14:09	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Cyclohexane	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Dibromochloromethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Dichlorodifluoromethane	BRL	10		ug/L	159251	1	03/22/2012 14:09	SB
Ethylbenzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Freon-113	BRL	10		ug/L	159251	1	03/22/2012 14:09	SB
Isopropylbenzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
m,p-Xylene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Methyl acetate	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Methylcyclohexane	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Methylene chloride	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
o-Xylene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	SW-3
Project Name:	Spalding Corners S/C	**Collection Date:**	3/16/2012 4:19:00 PM
Lab ID:	1203F86-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Tetrachloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Toluene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Trichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:09	SB
Vinyl chloride	BRL	2.0		ug/L	159251	1	03/22/2012 14:09	SB
Surr: 4-Bromofluorobenzene	98.5	67.4-123		%REC	159251	1	03/22/2012 14:09	SB
Surr: Dibromofluoromethane	111	75.5-128		%REC	159251	1	03/22/2012 14:09	SB
Surr: Toluene-d8	92.8	70-120		%REC	159251	1	03/22/2012 14:09	SB

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 23-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	SW-5
Project Name:	Spalding Corners S/C	**Collection Date:**	3/19/2012 1:11:00 PM
Lab ID:	1203F86-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
2-Butanone	BRL	50		ug/L	159251	1	03/22/2012 14:37	SB
2-Hexanone	BRL	10		ug/L	159251	1	03/22/2012 14:37	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159251	1	03/22/2012 14:37	SB
Acetone	BRL	50		ug/L	159251	1	03/22/2012 14:37	SB
Benzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Bromodichloromethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Bromoform	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Bromomethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Carbon disulfide	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Carbon tetrachloride	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Chlorobenzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Chloroethane	BRL	10		ug/L	159251	1	03/22/2012 14:37	SB
Chloroform	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Chloromethane	BRL	10		ug/L	159251	1	03/22/2012 14:37	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Cyclohexane	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Dibromochloromethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Dichlorodifluoromethane	BRL	10		ug/L	159251	1	03/22/2012 14:37	SB
Ethylbenzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Freon-113	BRL	10		ug/L	159251	1	03/22/2012 14:37	SB
Isopropylbenzene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
m,p-Xylene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Methyl acetate	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Methylcyclohexane	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Methylene chloride	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
o-Xylene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Mar-12

Client:	Sailors Engineering Associates	**Client Sample ID:**	SW-5
Project Name:	Spalding Corners S/C	**Collection Date:**	3/19/2012 1:11:00 PM
Lab ID:	1203F86-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Tetrachloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Toluene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Trichloroethene	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159251	1	03/22/2012 14:37	SB
Vinyl chloride	BRL	2.0		ug/L	159251	1	03/22/2012 14:37	SB
Surr: 4-Bromofluorobenzene	100	67.4-123		%REC	159251	1	03/22/2012 14:37	SB
Surr: Dibromofluoromethane	104	75.5-128		%REC	159251	1	03/22/2012 14:37	SB
Surr: Toluene-d8	93.5	70-120		%REC	159251	1	03/22/2012 14:37	SB

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Sailors Work Order Number 1203F86

Checklist completed by ZR 3-19-12
Signature Date

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

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

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

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

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

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

Chain of custody present? Yes ✓ No __

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

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good __ ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203F86

ANALYTICAL QC SUMMARY REPORT

BatchID: 159251

Sample ID: **MB-159251** Client ID: Units: **ug/L** Prep Date: **03/21/2012** Run No: **217506**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159251** Analysis Date: **03/21/2012** Seq No: **4547054**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

Qualifiers:

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

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203F86

ANALYTICAL QC SUMMARY REPORT

BatchID: **159251**

Sample ID: **MB-159251** Client ID: Units: **ug/L** Prep Date: **03/21/2012** Run No: **217506**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159251** Analysis Date: **03/21/2012** Seq No: **4547054**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	49.94	0	50	0	99.9	67.4	123	0	0	0	
Surr: Dibromofluoromethane	53.15	0	50	0	106	75.5	128	0	0	0	
Surr: Toluene-d8	45.49	0	50	0	91	70	120	0	0	0	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 23-Mar-12

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203F86

ANALYTICAL QC SUMMARY REPORT

BatchID: 159251

Sample ID: **LCS-159251** Client ID: Units: **ug/L** Prep Date: **03/21/2012** Run No: **217506**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159251** Analysis Date: **03/21/2012** Seq No: **4547050**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	58.75	5.0	50	0	118	60	140	0	0	0	
Benzene	56.44	5.0	50	0	113	70	130	0	0	0	
Chlorobenzene	56.15	5.0	50	0	112	70	130	0	0	0	
Toluene	56.90	5.0	50	0	114	70	130	0	0	0	
Trichloroethene	61.04	5.0	50	0	122	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	54.25	0	50	0	108	67.4	123	0	0	0	
Surr: Dibromofluoromethane	55.66	0	50	0	111	75.5	128	0	0	0	
Surr: Toluene-d8	51.55	0	50	0	103	70	120	0	0	0	

Sample ID: **1203F86-002AMS** Client ID: **MW-5S** Units: **ug/L** Prep Date: **03/21/2012** Run No: **217506**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159251** Analysis Date: **03/21/2012** Seq No: **4547982**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	52.04	5.0	50	0	104	50.1	179	0	0	0	
Benzene	53.44	5.0	50	0	107	61.2	150	0	0	0	
Chlorobenzene	54.30	5.0	50	0	109	72.1	140	0	0	0	
Toluene	53.62	5.0	50	0	107	58.7	154	0	0	0	
Trichloroethene	57.89	5.0	50	0	116	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	53.68	0	50	0	107	67.4	123	0	0	0	
Surr: Dibromofluoromethane	53.30	0	50	0	107	75.5	128	0	0	0	
Surr: Toluene-d8	49.07	0	50	0	98.1	70	120	0	0	0	

Sample ID: **1203F86-002AMSD** Client ID: **MW-5S** Units: **ug/L** Prep Date: **03/21/2012** Run No: **217506**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159251** Analysis Date: **03/21/2012** Seq No: **4548158**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	56.50	5.0	50	0	113	50.1	179	52.04	8.22	23.3	
Benzene	55.45	5.0	50	0	111	61.2	150	53.44	3.69	19	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 23-Mar-12

Client: Sailors Engineering Associates
Project Name: Spalding Corners S/C
Workorder: 1203F86

ANALYTICAL QC SUMMARY REPORT

BatchID: **159251**

Sample ID: **1203F86-002AMSD** Client ID: **MW-5S** Units: **ug/L** Prep Date: **03/21/2012** Run No: **217506**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159251** Analysis Date: **03/21/2012** Seq No: **4548158**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	53.92	5.0	50	0	108	72.1	140	54.30	0.702	21.5	
Toluene	54.52	5.0	50	0	109	58.7	154	53.62	1.66	20	
Trichloroethene	61.10	5.0	50	0	122	68.3	149	57.89	5.4	17.7	
Surr: 4-Bromofluorobenzene	52.06	0	50	0	104	67.4	123	53.68	0	0	
Surr: Dibromofluoromethane	55.95	0	50	0	112	75.5	128	53.30	0	0	
Surr: Toluene-d8	48.96	0	50	0	97.9	70	120	49.07	0	0	

Qualifiers:

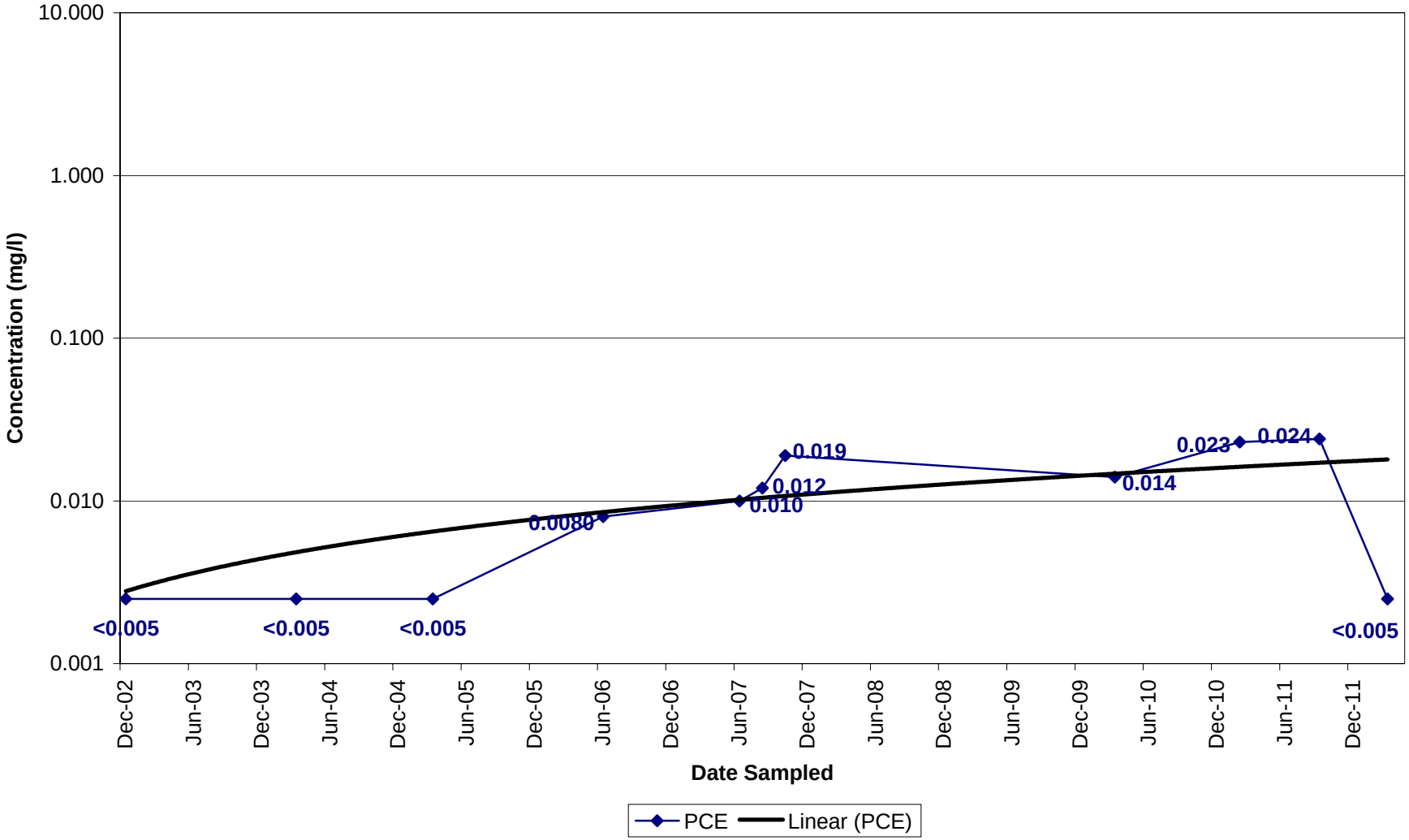
>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified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

APPENDIX 6

HISTORIC GROUNDWATER AND SEEP WATER PCE TREND GRAPHS

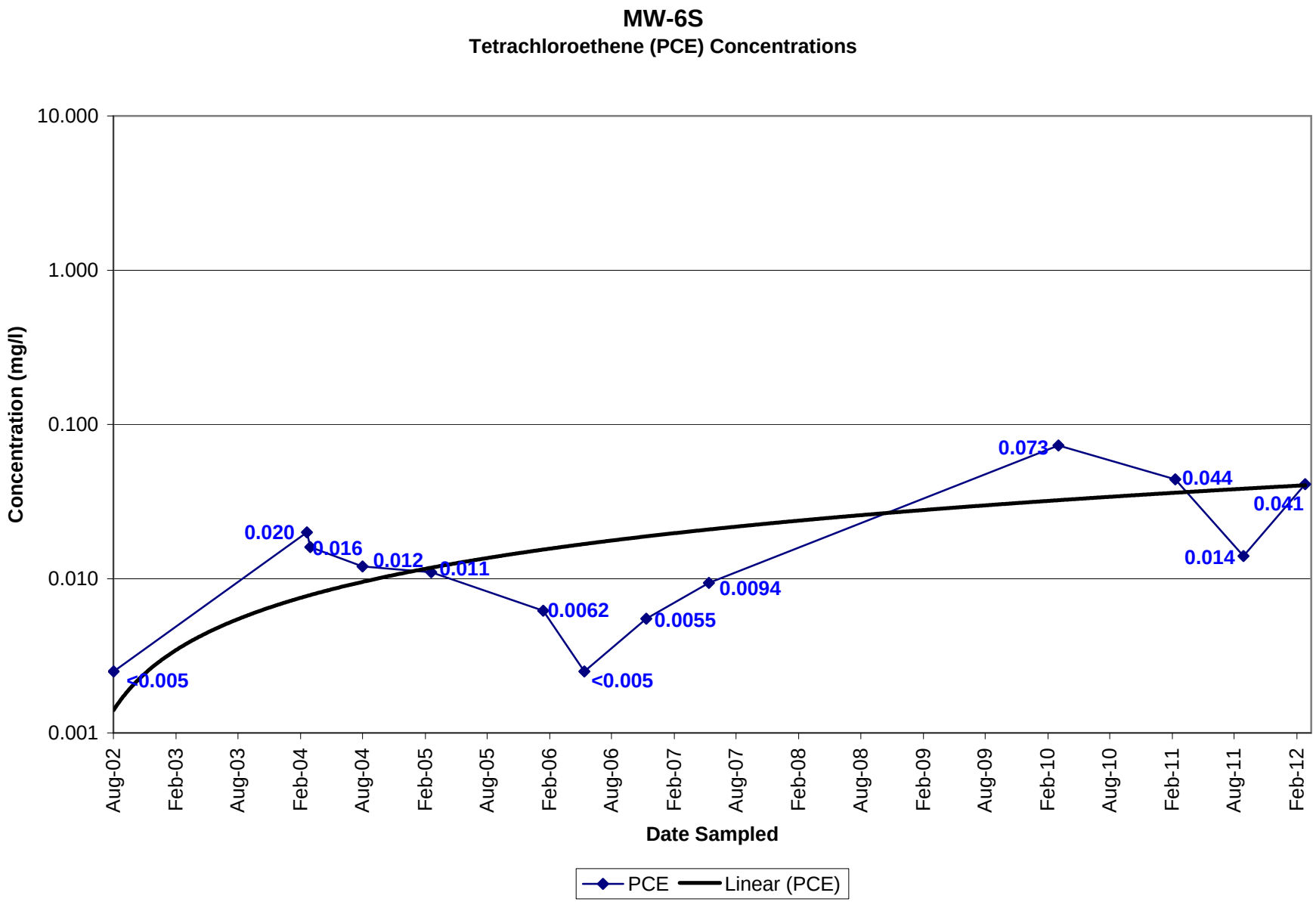
MW-5S

Tetrachlorethene (PCE) Concentrations



Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063



Spalding Corners Shopping Center
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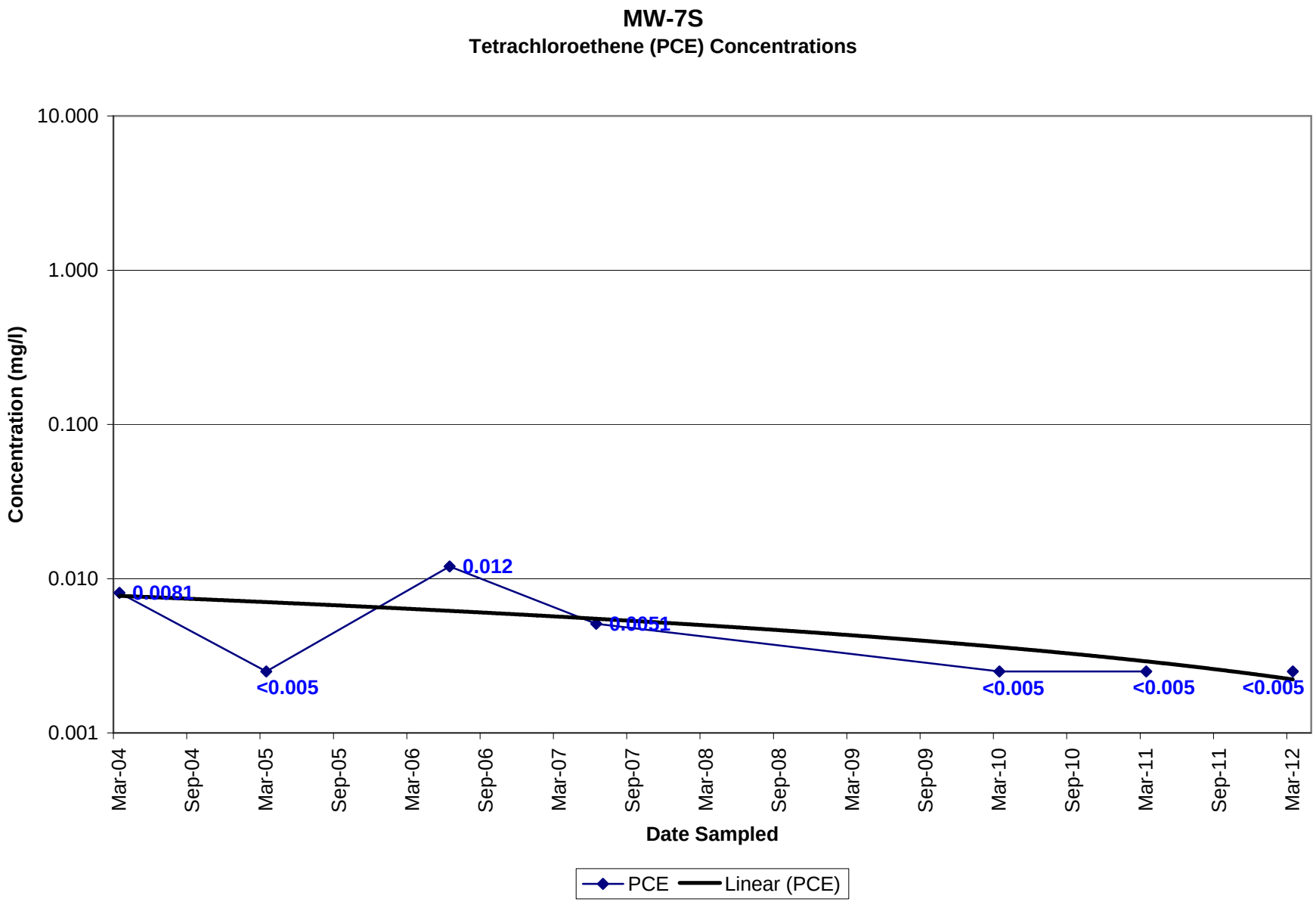
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063



Spalding Corners Shopping Center
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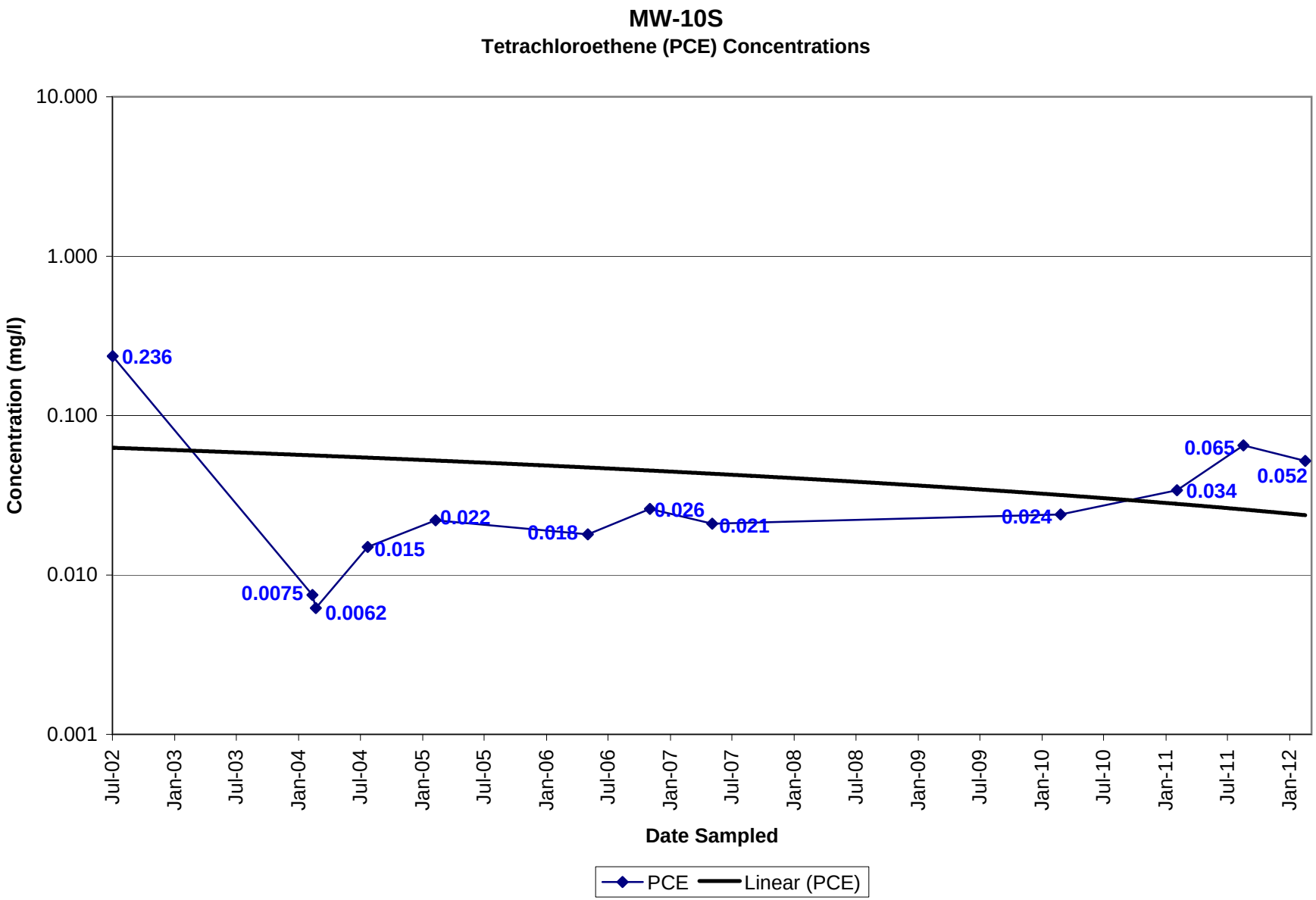
Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job 3102-063



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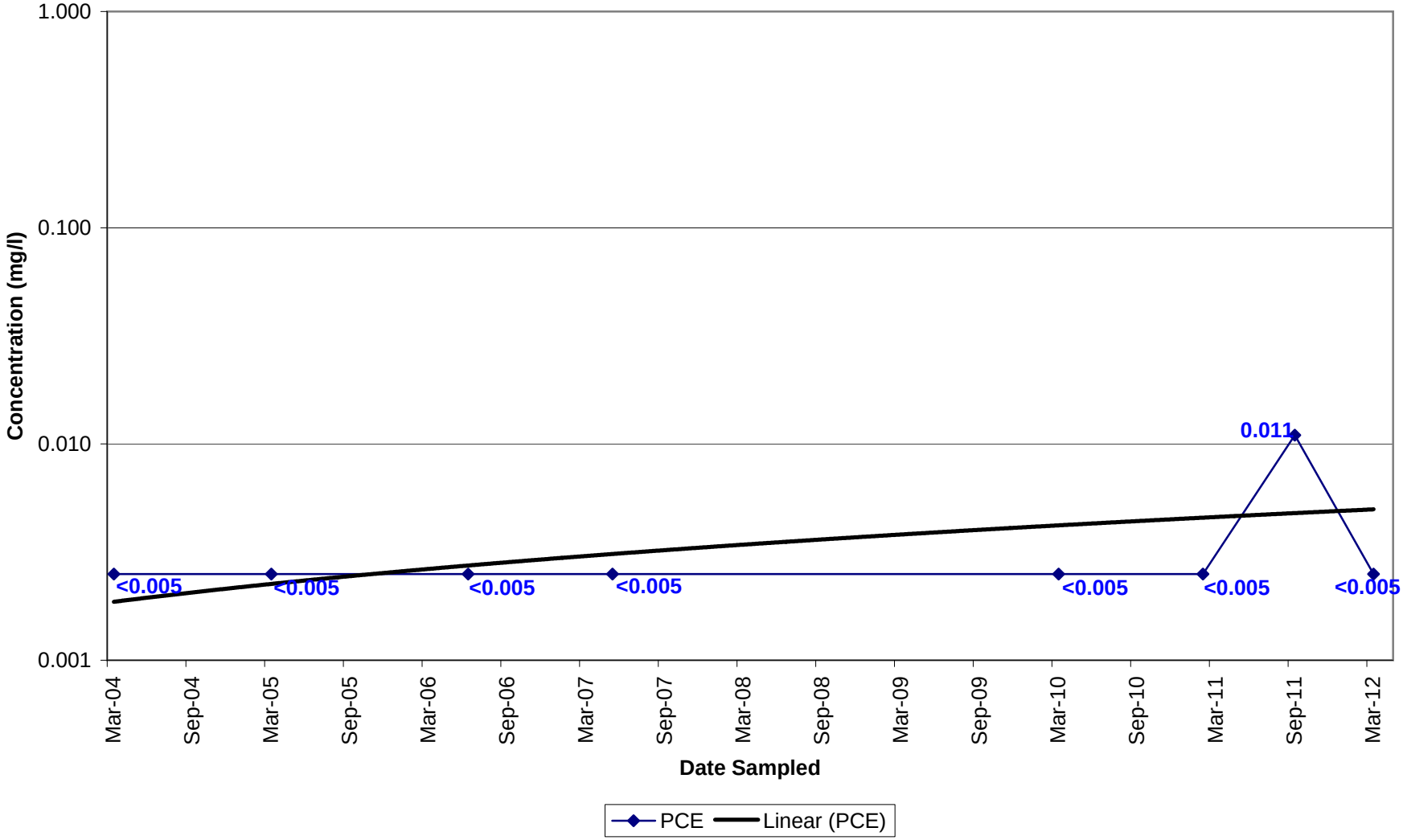
MW-14S

Tetrachloroethene (PCE) Concentrations



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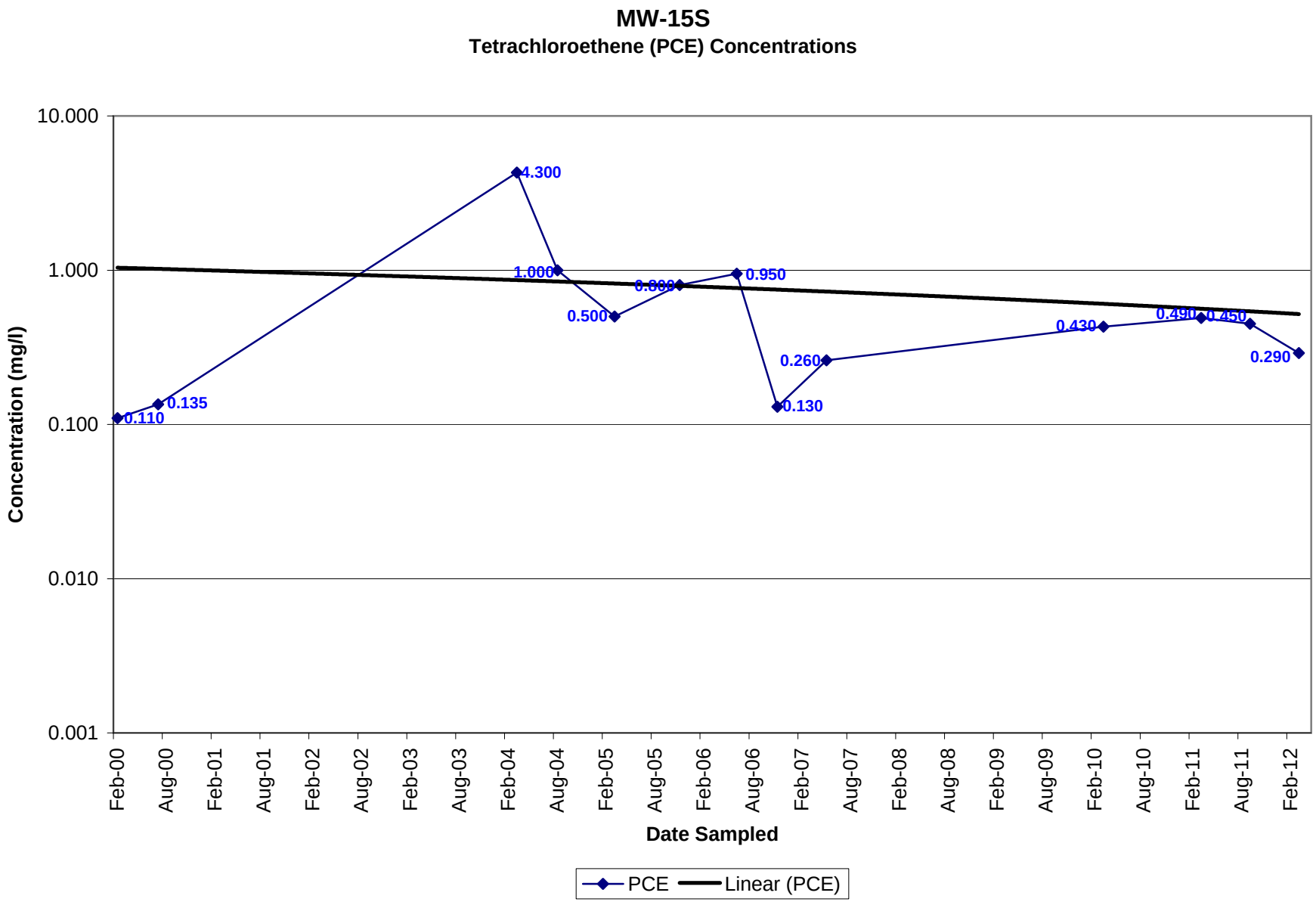

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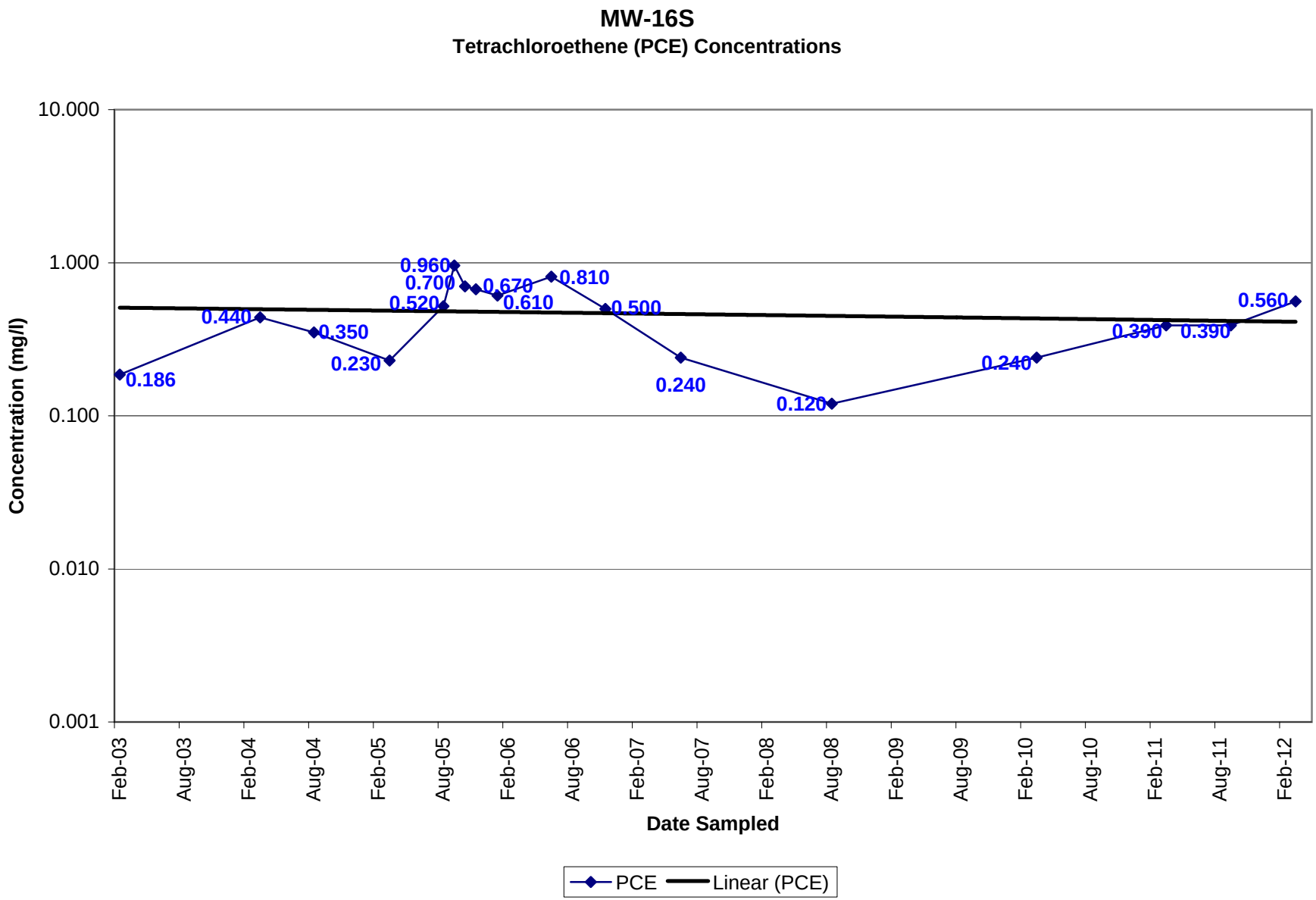
Lawrenceville, GA
SEA Job #102-063



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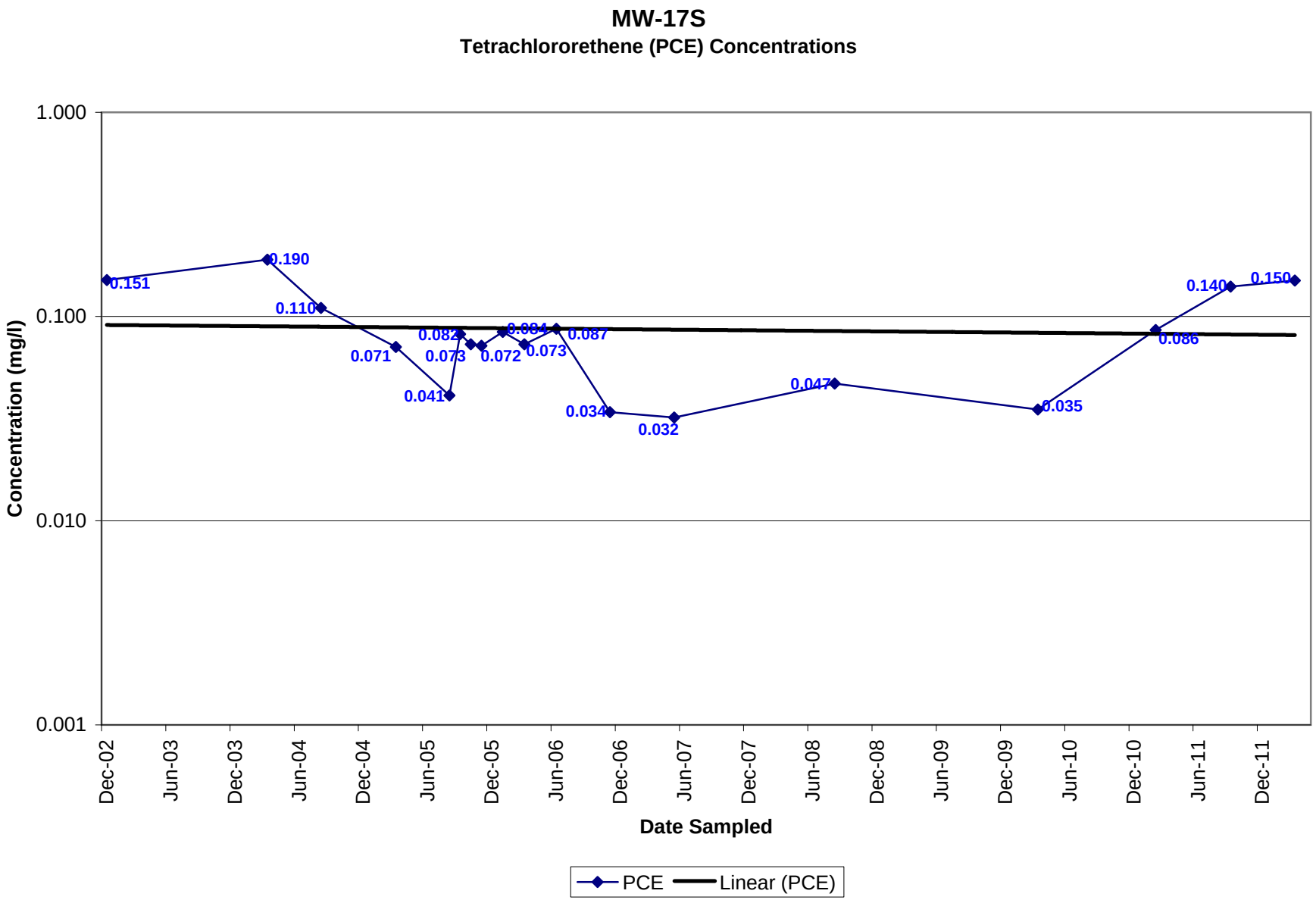
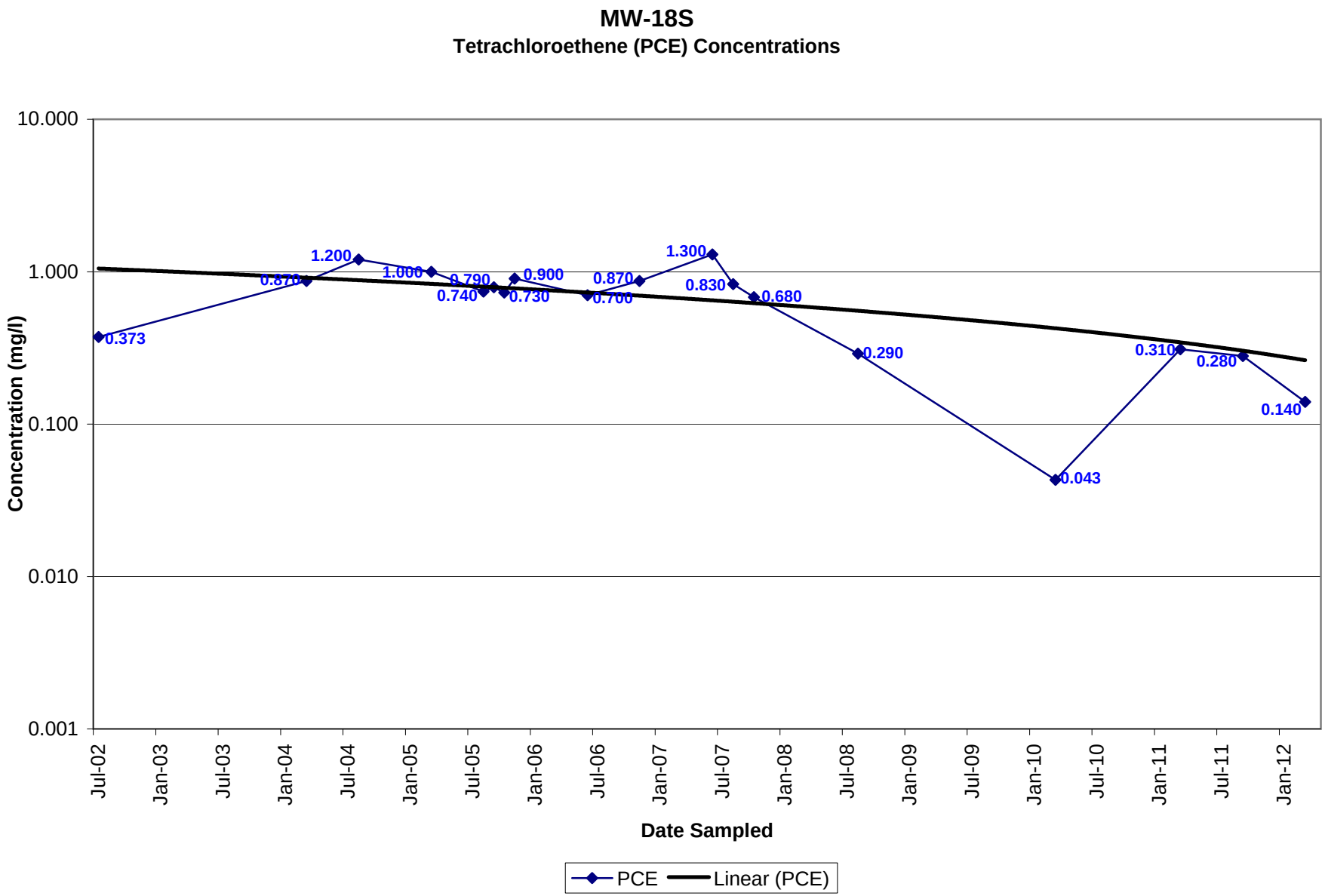


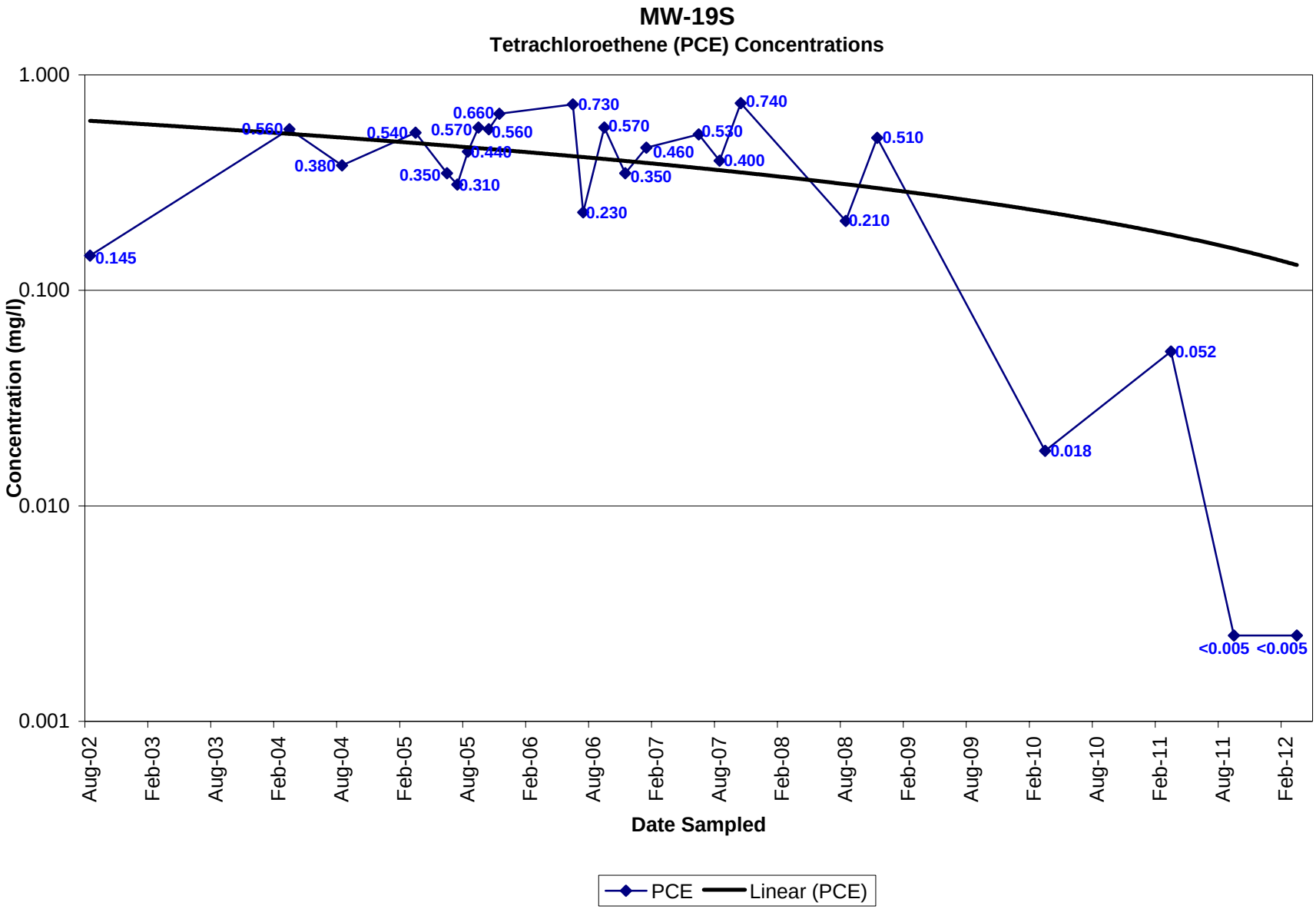
Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063



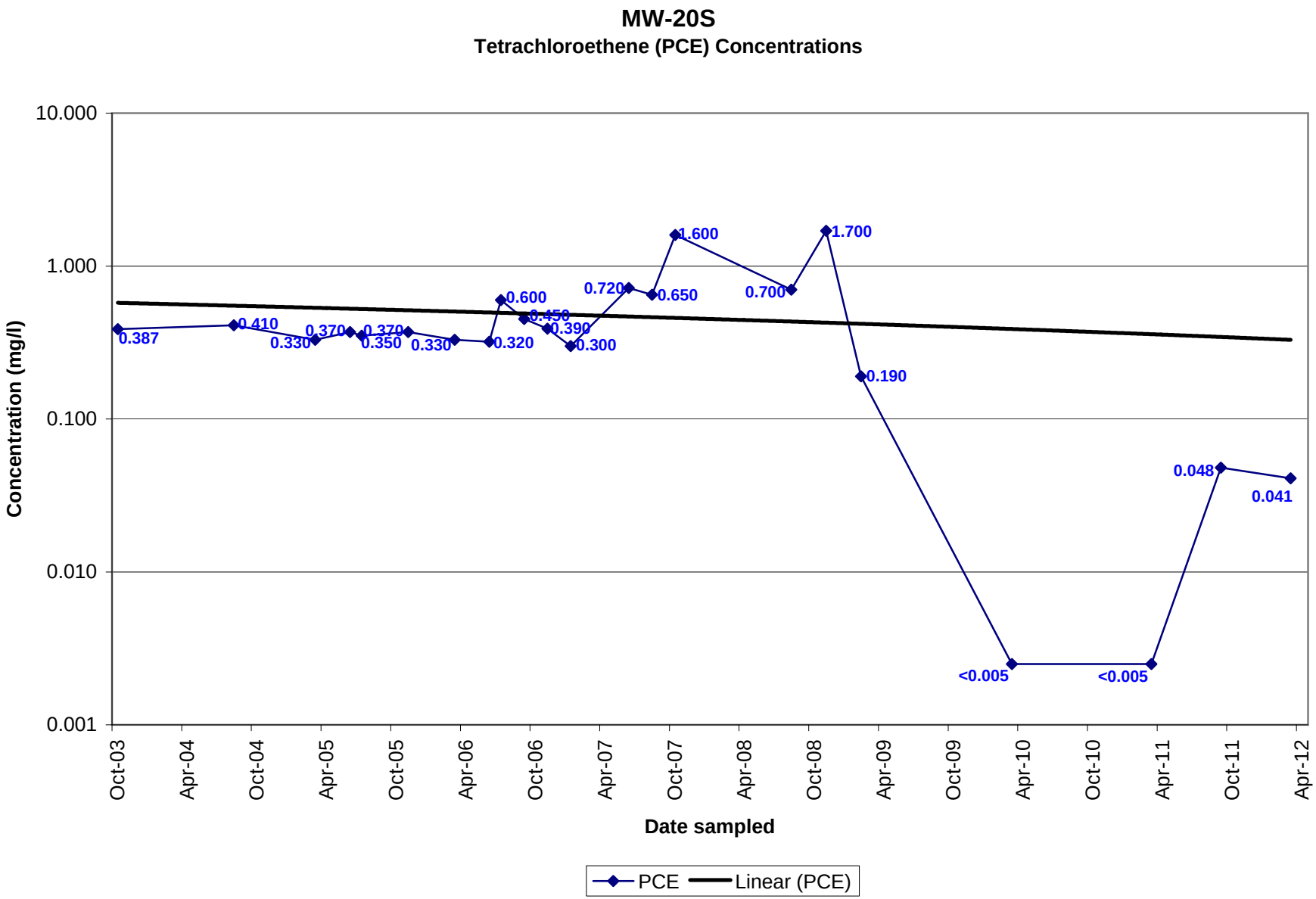
Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063



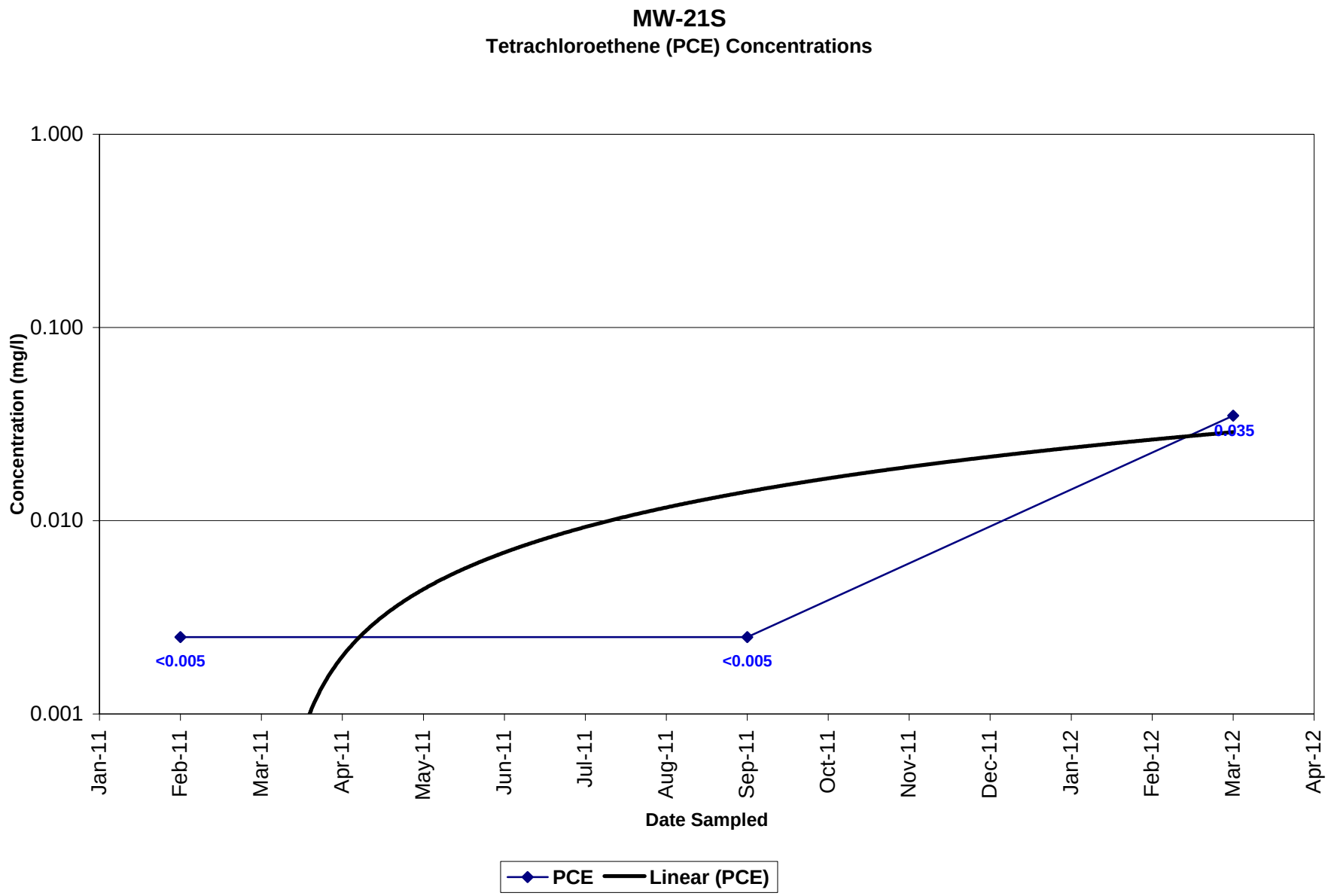
Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063



Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

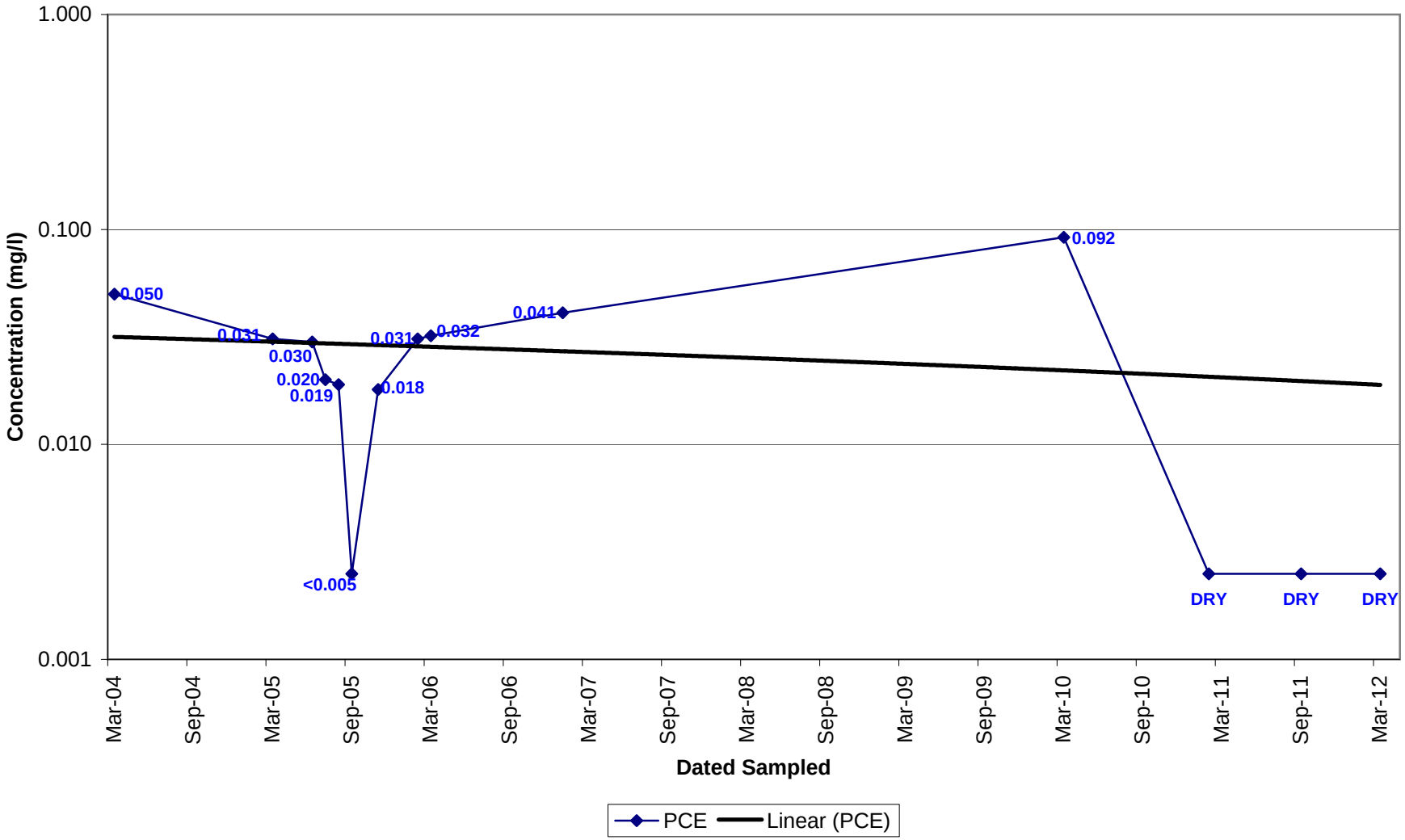


Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

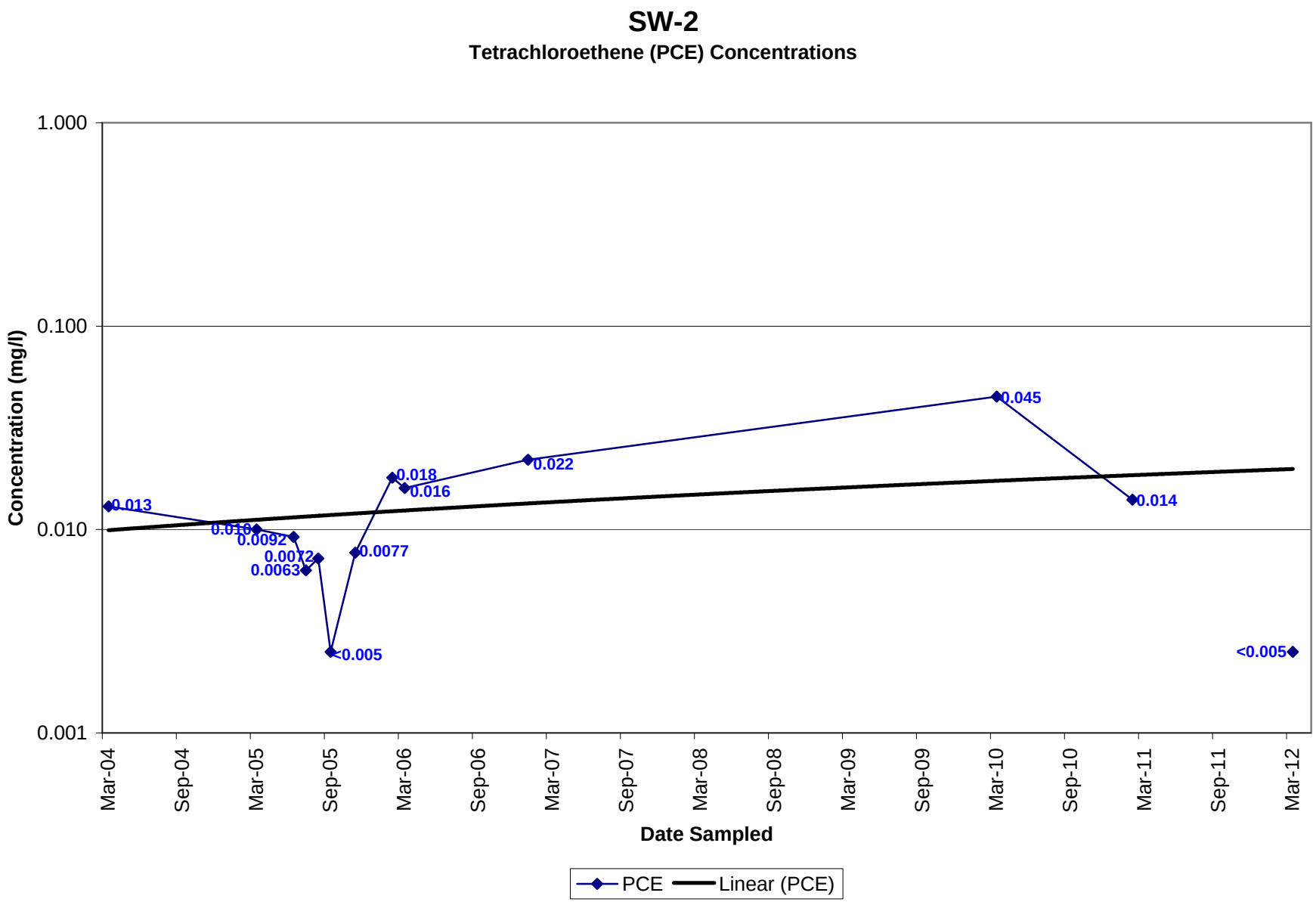
SW-1

Tetrachloroethene (PCE) Concentrations



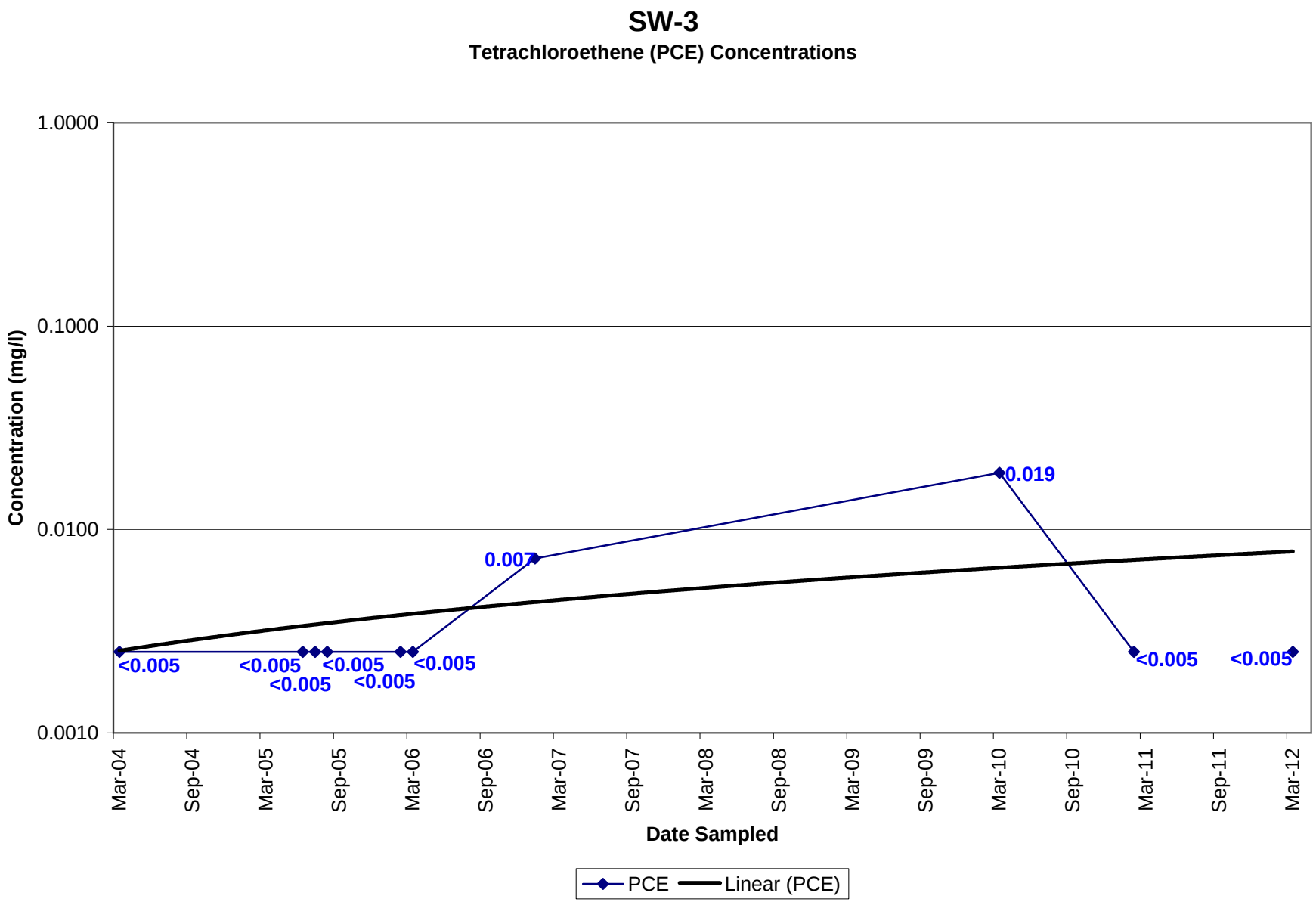
Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063



Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063



Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

APPENDIX 7

SUMMARY OF SERVICES AND PROFESSIONAL HOURS

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI #10639
SEA Job #102-063

Summary of Activities and Professional Hours

VRP 3rd Semi-Annual Progress Report - March and April 2012

Activity	Professional Hours Spent
Semi-Annual Groundwater Sampling Event	13
MNA Evaluation	2
Semi-Annual Report Preparation	46