Environmental International Corporation
161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009
Phone: 770-772-7100, Fax: 770-772-0555
Website:www.eicusa.com

May 19, 2016

Mr. Jason Metzger
Georgia Department of Natural Resources
Response and Remediation Program
2 Martin Luther King, Jr. Drive, S.E.
Suite 1054 East Tower
Atlanta, Georgia 30334-9000
404-463-0530

Subject: **Fourth VIRP Semi-annual Progress Report**
Former McKenzie Tank Lines Site
HSI Site No. 10406
111 Grange Road, Port Wentworth, Georgia
Tax Parcels: 1-0729-01-007 and 1-0729-01-009

Dear Mr. Metzger:

On behalf of McKenzie Tank Lines, Inc. (MTL), Environmental International Corporation (EIC) is pleased to submit the attached Fourth VIRP Semi-annual Progress Report for the above referenced site.

Enclosed are the following:

1. One signed and sealed certification page for the report.
2. One bound paper copy of the report.
3. Two Compact Discs, each with the report in searchable PDF format.

If you have any questions regarding this submittal, please contact Mr. Thomas F. Panebianco of MTL at 1-800-828-6495 or me at the above location.

Sincerely,

ENVIRONMENTAL INTERNATIONAL CORPORATION

Raj Mahadevaiah, P.E., C.G.W.P.
President & CEO

Cc: Thomas F. Panebianco, McKenzie Tank Lines
Christopher Novack, Georgia Ports Authority

HSI SITE 10406, FORMER MCKENZIE TANK LINES SITE

FOURTH VIRP SEMI-ANNUAL PROGRESS REPORT

5/19/2016

Submitted to:

GEORGIA ENVIRONMENTAL PROTECTION DIVISION

Georgia Department of Natural Resources

Response and Remediation Program

Suite 1462 East Tower
2 Martin Luther King Jr. Drive, S.E.
Atlanta, Georgia 30334

Prepared for:

MCKENZIE TANK LINES, INC.

1966 Commonwealth Lane
Tallahassee, FL 32304

Submitted with the consent of:

GEORGIA PORTS AUTHORITY

PO Box 2406
Savannah, Georgia 31402

Prepared by:

ENVIRONMENTAL INTERNATIONAL CORPORATION

161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009, USA

Phone 770.772.7100 • Fax 770.772.0555

http://www.eicusa.com

CERTIFICATION AND SUPPORTING DOCUMENTATIONS
Fourth VIRP Semi-annual Progress Report
Former McKenzie Tank Lines Site, Port Wentworth, Georgia
HSI Site No. 10406
May 19, 2016

"I certify under penalty of law that the accompanying report referenced above 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 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 direct oversight of the Voluntary Investigation and Remediation Plan (VIRP) 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."

Basavaraj Mahadevaiah, GA PE No. 23198
Environmental International Corporation
770-772-7100, ext. 223

5/19/16
Date

GEORGIA REGISTERED No. 23198 PROFESSIONAL ENGINEER BASAVARAJ MAHADEVAIAH

Signature and Stamp

TABLE OF CONTENTS

1.0 Introduction 1

1.1 Primary Objective 1

2.0 Response to EPD Comment Letter 2

3.0 Groundwater Monitoring 5

3.1 Groundwater Monitoring Objectives 5

3.4 Groundwater Monitoring Field Program 5

3.4.1 Sampling Protocol 6

3.4.2 Site Access 6

3.4.4 Groundwater Gauging 6

3.4.5 Groundwater Sampling 6

3.4.6 Sample Custody and Laboratory Analysis 7

3.5 Quality Assurance and Quality Control 7

3.6 Data Evaluation 7

3.6.1 Groundwater Potentiometric Surfaces 8

3.6.1.1 Shallow Groundwater Potentiometric Surface 8

3.6.1.2 Deep Groundwater Potentiometric Surface 8

3.6.2 Horizontal Extent of CVOCs 9

3.6.2.1 PCE Plume 9

3.6.2.2 TCE Plume 10

3.6.2.3 cis-1, 2 DCE Plume 10

3.6.2.4 VC Plume 11

3.6.3 Horizontal Delineation 11

3.6.4 Plume Attenuation and Stability 12

4.0 Delineation Soil Sampling 13

4.1 Background 13

4.2 Mobilizations 13

4.3 Sample Locations 14

4.3.1 AOC-3 14

4.3.2 AOC-4 14

4.3.3 AOC-6 15

4.4 Sampling Procedures 15

4.4.1 Decontamination Procedures 16

4.4.1.1 Geoprobe Direct Push Technology (DPT) Borings 16

4.4.1.2 Hand Auger 16

4.4.1.3 Sand Probe 16

4.4.2 Quality Assurance and Quality Control 17

4.5 Analysis and Analytical Results 17

4.5.1 AOC-3 Delineation 17

4.5.2 AOC-4 Delineation 18

4.5.3 AOC-6 Delineation 18

4.6 Further Delineation 18

5.0 Recovery Wells Installation 19

5.1 Background 19

5.2 Site Mobilizations 19

5.3 Well Locations 19

5.4 Well Installation 20

5.5 Investigative Derived Waste 20

6.0 Aquifer Characterization 21

6.1 Slug Test Format 21

6.2 Slug Test Analysis 22

7.0 Summary 23

8.0 Monthly Summary of Hours 24

9.0 References 25

LIST OF TABLES

Table 3-1: April 2015 Well Gauging Data

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Table 3-3: Groundwater Constituent of Concern Cumulative Analytical Results

Table 3-4: Historical Groundwater Potentiometric Surface Elevations

Table 4-1: Post-Excavation Confirmatory Soil Sampling Analytical Results

Table 6-1: Summary of Slug Test Results

LIST OF FIGURES

Figure 1-1: Site Layout Map

Figure 3-1: October 2015 Shallow Groundwater Potentiometric Surface Map

Figure 3-2: October 2015 Deep Groundwater Potentiometric Surface Map

Figure 3-3: October 2015 Shallow PCE Isoconcentration Map

Figure 3-4: October 2015 Deep PCE Isoconcentration Map

Figure 3-5: October 2015 Shallow TCE Isoconcentration Map

Figure 3-6: October 2015 Deep TCE Isoconcentration Map

Figure 3-7: October 2015 Shallow cis-1, 2 - DCE Isoconcentration Map

Figure 3-8: October 2015 Deep cis-1, 2 - DCE Isoconcentration Map

Figure 3-9: October 2015 Shallow Vinyl Chloride Isoconcentration Map

Figure 3-10: October 2015 Deep Vinyl Chloride Isoconcentration Map

Figure 4-1: AOC-3 Soil Analytical Results and Delineation Soil Sampling Locations

Figure 4-2: AOC-4 Soil Analytical Results and Delineation Soil Sampling Locations

Figure 4-3: AOC-6 Soil and Sediment Analytical Results and Delineation Soil Sampling Locations

Figure 5-1: Newly Installed Recovery Well Location Map

Figure 5-2: RW-8 Well Construction Log

Figure 5-3: RW-9 Well Construction Log

LIST OF ATTACHMENTS

Attachment 3-1: EIC Well Purging and Sampling Data Field Logs, October 2015

Attachment 3-2: Lab Analytical Results for Groundwater Samples, October 2015

Attachment 4-1: Lab Analytical Results for Soil Delineation Samples, October 2015, November 2015, & January 2016

Attachment 6-1: RW-8 Falling Head Test No. 1 KGS Model Analysis and Field Data Table

Attachment 6-2: RW-8 Falling Head Test No. 2 KGS Model Analysis and Field Data Table

Attachment 6-3: RW-8 Falling Head Test No. 3 KGS Model Analysis and Field Data Table

Attachment 6-4: RW-9 Falling Head Test No. 1 KGS Model Analysis and Field Data Table

Attachment 6-5: RW-9 Falling Head Test No. 2 KGS Model Analysis and Field Data Table

Attachment 6-6: RW-9 Falling Head Test No. 3 KGS Model Analysis and Field Data Table

Attachment 8-1: Monthly Summary of Hours Invoiced (November 2015 – April 2016)

SECTION

1

1.0 Introduction

On behalf of McKenzie Tank Lines, Inc. (MTL), Environmental International Corporation (EIC) is pleased to submit this "Fourth VIRP Semi-annual Progress Report" to Georgia Environmental Protection Division (EPD) to chronicle project activities concerning the former MTL site, HSI site 10406, located at 111 Grange Road, Land Lot 30, Tax Parcel IDs 1-0729-01-007 and 1-0729-01-009, Port Wentworth, Georgia, (Site). This report was prepared as specified in the January, 29, 2014 "Voluntary Investigation and Remediation Plan (VIRP) Application" that was approved by the EPD on May 20, 2014 under the Voluntary Remediation Program (VRP) (EIC, 2014a).

1.1 Primary Objective

The primary objective of this report is to chronicle the tasks completed by MTL during the six-month time frame that covers the period from November 2015 through April 2015. This report documents the following tasks:

- Responses to January 8, 2016 EPD Comment letter
- Second semi-annual groundwater monitoring event
- Installation of new recovery wells
- Aquifer slug testing
- Post-excavation confirmatory chlorinated volatile organic compounds (CVOCs) soil sampling in Areas of Concern (AOCs) and delineation evaluation

A Site map is included as Figure 1-1. The following sections describe the aforementioned tasks.

SECTION

2

2.0 Response to EPD Comment Letter

The following is a response on behalf of MTL to the EPD's review and list of comments letter, dated January 8, 2016.

Comments and Responses

EPD Comment 1:

Responses to EPD's May 20, 2014, VRP Application Comments letter, which were included in Section 2 of the above referenced progress report, still indicated that information and documentation necessary to address previous comments will be provided in future report submittals. Please ensure that by no later than the November 2016 scheduled VRP Progress Report submittal that the following outstanding issues are addressed: additional groundwater and soil delineation data, additional surface water/sediment sampling and ecological impact evaluation, and a conceptual site model update.

Response to EPD Comment 1:

EPD's comment is noted. Additional soil and sediment sampling data has been collected and is discussed in Section 4.0 of this report. A conceptual site model update was included in the Third VIRP Semi-annual Progress Report (EIC, 2015b). The model will be further updated as additional pertinent information is collected.

EPD Comment 2:

Section 2 "Responses" indicated that the activities to address the various potential sources of contamination onsite and offsite would be completed in accordance with the established VIRP schedule. As part of the next Progress Report, please include an updated schedule and status update regarding the investigation and corrective action activities that have been or will be completed to address the following: a previous gasoline/diesel release by Georgia Ports Authority (GPA) onsite, the presence of heavy metals detected in the holding pond sample, arsenic detected in monitoring well MW-13S, calculation of site specific vapor intrusion concentrations assessment of onsite vapor intrusion

pathways, and the removal/abandonment of the onsite stormwater pipes/drainage culverts with an associated assessment of the soils around these drainage features.

Response to EPD Comment 2:

EPD's comment is noted. Further information about a GPA gasoline/diesel release has been unavailable. Previous MTL operations at the site did not include any use of heavy metals. As there are currently no inhabited buildings at the site, there is no risk of vapor intrusion impacts. The MTL site has been slated for redevelopment as part of GPA's container gate 8 construction. This development will result in the installation of a pavement over most of the site. As such, vapor intrusion impact to building inhabitants is not expected to be a concern. MTL will, however, develop site covenants to prevent construction worker exposure.

EPD Comment 3:

[Response to Comment (3)] Previous comments noted "possible areas of pipe failures," which in this report were indicated to be depressions resulting from localized sink holes. In accordance with the above listed Comment (2) and the VIRP Application, should these sink holes be repaired or should these pipes and drainage culverts be removed as part of future onsite GPA construction activities, please ensure that the surrounding soils are screened for the contaminants of concern and remediated if necessary.

Response to EPD Comment 3:

EPD's comment is noted and will be addressed under the circumstances.

EPD Comment 4:

[Response to Comment (4)) The Section 2.0 "Response" continues to indicate that the area associated with the "Former Office and Shop" does not warrant any additional investigations. EPD requests that the surface soils (0-2 feet) in this area be screened for the contaminants of concern either by utilizing a photoionization detector (PID) or a GORE Sorber type sampler. The necessity for further assessments in this area can be dependent upon the results of the soil gas screening.

Response to EPD Comment 4:

EPD's comment is noted. Screening samples will be collected and their results be included in future semi-annual reports.

EPD Comment 5:

Please include in future Progress Reports an update on the GPA's gate construction project, in particular any activities that may influence planned corrective actions and the future compliance status of the site.

Response to EPD Comment 5:

EPD's comment is noted and will be considered in corrective action steps as noted in the response to Comment 2. Information concerning GPA's proposed Gate 8 development construction activities will be included as it becomes available.

EPD Comment 6:

EPD does not concur with the conclusion that PCE and TCE have been delineated in groundwater to the Type I risk reduction standard (RRS). To complete the required delineation, please conduct additional groundwater investigations in the following locations:

a. *To the south of MW-32 and MW-47D, between the wells and the surface water feature.*

b. *North of MW-44D, and east of MW-47D and MW-44D.*

Response to EPD Comment 6:

New groundwater monitoring wells will be installed at these locations to delineate PCE, TCE and the other defined constituents of concern (COCs) DCE and VC in groundwater to Type I RRS.

EPD Comment 7:

EPD concurs with the replacement/abandonment of recovery wells RW-2, -3, -5, -6, and -7.

Response to EPD Comment 7:

EPD's comment is noted. Abandonment activities will be detailed in future semi-annual reports. In addition to these wells, based on the discussion of well limitations in Section 3.4.5 and Section 3.6.2 of this report, wells G-22 and MW-U2 will also be abandoned.

EPD Comment 7:

The responses to Comments 5-7 included in Section 2.0 are acceptable.

Response to EPD Comment 7:

EPD's acceptance of these comments is noted.

SECTION

3

3.0 Groundwater Monitoring

The fifth VIRP groundwater monitoring event was conducted in October 2015. This monitoring event included gauging groundwater levels at all available wells onsite and the collection of groundwater samples from each available well for CVOC analysis.

3.1 Groundwater Monitoring Objectives

The primary objectives of the groundwater monitoring program is to meet the following goals set forth in the VIRP:

- Establish a baseline for plume stability analysis.
- Track MNA by monitoring the groundwater concentrations of CVOCs and water quality parameters within the existing plume.
- Determine if the prevailing groundwater contaminant concentrations are meeting or trending towards meeting the established RRS.
- Determine if the horizontal and vertical extents of the CVOCs have been defined.

3.4 Groundwater Monitoring Field Program

During the October 2015 monitoring event, EIC conducted groundwater monitoring at a total of 41 wells onsite. As designated in the VIRP, wells with screened intervals that are less than 20 feet below ground surface (bgs) were historically defined as shallow wells and those with screened intervals greater than 20 feet bgs are defined as deep wells (EIC, 2014a). Of the 41 wells monitored, 19 are so defined as shallow wells and 22 are defined as deep wells. Two of the 22 deep wells are recovery wells (RW-1 & RW-4). The monitoring wells ranging in size from 3/4-inch to 2-inch inner diameter (ID) solid well casing and screen. Each recovery well consists of either a 4-inch or 6-inch ID PVC well casing/screen.

3.4.1 Sampling Protocol

The groundwater sampling program was conducted in accordance with the current U.S. EPA Region 4 groundwater sampling procedure "Field Branches Quality System and Technical Procedures" (FBQSTP) per EPD regulations. Each monitoring well was gauged, purged, and sampled following the "low-flow" purge technique established in the standard operating procedure (SOP) SESDPROC-301-R3 under the FBQSTP (EPA, 2013).

3.4.2 Site Access

Prior to the field visit, EIC coordinated with the GPA in gaining access to conduct groundwater monitoring and related tasks. All Site work was completed under the supervision of EIC.

3.4.4 Groundwater Gauging

Prior to sampling, EIC gauged each well with a decontaminated oil-water interface meter to determine the static depth to groundwater. EIC utilized TOC elevations from the October 2013 and July 2015 well surveys to determine the current groundwater elevations. The gauging data for the October 2015 monitoring event is tabulated in Table 3-1.

3.4.5 Groundwater Sampling

Following the "low-flow" purge technique, noted in Section 3.4.1, EIC utilized a peristaltic pump with variable lengths of disposable 1/4-inch ID Teflon-lined tubing and a 6-inch segment of 3/16-inch ID silicon tubing at the pump head to purge each well until groundwater quality parameters reached stabilization prior to sampling. The length of Teflon-tubing necessary to place the intake at the center of the wetted screened interval of each well was determined from water levels and available well construction data noted in EIC well purging and sampling data field logs (Attachment 3-1).

Groundwater stabilization parameters were monitored via direct pumping to a multi-parameter field water quality field meter equipped with a flow-through cell. These parameters were recorded at approximately five-minute intervals on EIC field logs (Attachment 3-1). Additionally, purge volumes and depth-to-water (DTW) measurements were recorded at the same five-minute intervals when possible. At each well, the pumping rate and tubing depth were adjusted accordingly when excessive drawdown was observed. In 1-inch and 3/4-inch diameter wells, where the inserted Teflon tubing, that has a 3/8-inch outer diameter (OD), restricted access of the interface meter probe that has a 5/8-inch OD, the depth to water could not be gauged while the tubing was in the well during purging. In these wells, gauging could be performed only just prior to inserting the tubing and immediately after the tubing was removed.

EIC considered that stabilization was reached when 3 consecutive stabilization parameter readings were within ± 0.1 units for pH and ± 5% for specific conductivity. Reasonable attempts were made at each well to reach 0.2 mg/L of dissolved oxygen (DO) and a turbidity reading at or

below 10 Nephelometric Turbidity Units (NTUs) prior to sampling. Groundwater quality field parameters (Temperature, pH, oxygen reduction potential (ORP), conductivity, turbidity, and DO) after stabilization and prior to sample collection are summarized in Table 3-2. Note that, during the October 2015 sampling event, 9 wells had turbidity levels higher than 10 NTUs. Additionally, wells G-22 and MW-U2 were sampled without stabilization due to poor recharge. All samples were collected using the "soda straw method" specified in the SOP SESDPROC-301-R3 under the FBQSTP (EPA, 2013).

3.4.6 Sample Custody and Laboratory Analysis

Immediately after each sample set was collected, the sample bottles were labeled, and the samples were stored with double-bagged ice in an insulated thermal container ("cooler") provided by the laboratory. The samples were maintained with ice in the cooler and relinquished to the laboratory. Completed chain-of-custody forms accompanied all samples. EIC delivered the samples to Test America Laboratories in Savannah, Georgia - a Georgia Department of Natural Resources (DNR) certified laboratory. The laboratory conducted analysis of volatile organic compounds using EPA method 8260B. The laboratory report for the October 2015 event is included as Attachment 3-2. The results of the laboratory analysis are summarized in Table 3-3 along with historical analytical data.

3.5 Quality Assurance and Quality Control

To prevent cross-contamination, new disposable Teflon-lined tubing was utilized to collect samples at each well. EIC's oil/water interface meter and any other reusable field equipment that came in contact with groundwater was decontaminated prior to use and between sample locations. This was accomplished by first washing this equipment with a pressurized phosphate-free detergent solution and rinsing with pressurized de-ionized (DI) water. After each sample was collected, the water quality parameters instrument flow-through cell was opened and decontaminated with pressurized DI water. In the event of gross contamination, EIC used detergent solution in addition to DI water in cleaning this instrument.

For sample quality assurance and quality control, EIC maintained a trip blank set in the samples container. The trip blank was analyzed along with the groundwater samples collected at the Site.

3.6 Data Evaluation

EIC conducted an evaluation of the data compiled from field measurements and laboratory analyses. This evaluation defined the groundwater potentiometric surface and flow direction as well as the extents of the prevailing CVOC plumes at the time of the October 2015 monitoring event.

Considering the reported hydrogeological confining units, described in the VIRP, EIC has continued to distinguish between unconfined shallow and fully or partially confined deep aquifers in illustrating groundwater potentiometric surfaces and CVOC plumes. The following

subsections describe EIC's analysis and understanding of the potentiometric surface and prevailing CVOC plumes at the Site.

3.6.1 Groundwater Potentiometric Surfaces

3.6.1.1 Shallow Groundwater Potentiometric Surface

The October 2015 groundwater gauging event data is summarized in Table 3-1. In addition, Table 3-4 summarizes all groundwater gauging data collected at the Site following the initiation of the VIRP program. EIC compared the shallow well gauging data from the October 2015 sampling event to all other previous events summarized in Table 3-4. From Table 3-4, the mean and range of the shallow groundwater potentiometric surface elevations at the Site were lower than those of the April 2015 gauging event, but similar to the global average observed since VIRP monitoring began. EIC will continue to evaluate changes in the potentiometric surface in subsequent gauging events to determine if any trends in shallow groundwater fluctuation are apparent.

Utilizing the data presented in Table 3-1, EIC prepared a shallow groundwater potentiometric surface map, as illustrated in Figure 3-1. Due to the historically anomalous groundwater surface elevations observed at wells MW-2S and MW-U2, relative to the surrounding groundwater elevations, the data from these wells were not considered for potentiometric surface contouring. The anomalies observed at these wells may have resulted from relative shallow depth of completion (which are less than 10 feet bgs), relative to confining or partially confining stratums. EIC compared Figure 3-1 to all previous shallow potentiometric surface maps prepared for previous VIRP semi-annual progress reports (EIC 2014b, 2015a, 2015b). From this comparison, a prominent trough feature, which extends across the site, has become more apparent since the addition of the monitoring wells installed in the first quarter of 2015. Considering the potentiometric surface of October 2015 and previous groundwater monitoring events, it is apparent that groundwater generally flows from east-northeast to west-southwest across the Site and the shallow unconfined potentiometric surface remains relatively stable in elevation over time.

3.6.1.2 Deep Groundwater Potentiometric Surface

As with the shallow potentiometric surface elevations at the Site, EIC also compared the deep well gauging data from the October 2015 sampling event to all other previous events summarized in Table 3-4. From Table 3-4, the mean and range of the deep potentiometric surface elevations were lower than the previous April 2015 events. With subsequent sampling events, EIC will continue to evaluate trends in the groundwater potentiometric surface to determine if seasonal fluctuations are apparent.

Utilizing the gauging data in Table 3-1, EIC prepared a deep groundwater potentiometric surface map, Figure 3-2. EIC then compared Figure 3-2 to all previous deep potentiometric surface maps prepared for previous VIRP semi-annual progress reports (EIC 2014b, 2015a, 2015b). In comparing Figure 3-2, it is apparent that the trough feature, which extends through the center of the Site, is still the predominant deep potentiometric surface feature affecting the groundwater

flow path at the Site. Considering the potentiometric surface of October 2015 and previous groundwater monitoring events, it is apparent that groundwater generally flows from east-northeast to west-southwest across the Site and the deep potentiometric surface remains relatively stable in elevation over time.

3.6.2 Horizontal Extent of CVOCs

The COCs at the Site consist of CVOCs: tetrachloroethene or perchloroethene (PCE), trichloroethene (TCE), cis-1, 2 dichloroethene (DCE), and vinyl chloride (VC). Utilizing analytical results summarized in Table 3-3, EIC prepared Figures 3-3 through 3-10, which illustrate the horizontal extent of the four CVOC constituent plumes within both the defined shallow and deep horizons. In addition, the limits of the RRS concentrations and the delineation criterion are illustrated to evaluate the extent of dissolved CVOCs that require remediation and the horizontal extent of the overall plume.

COC concentrations in samples collected from well MW-U2 were not considered in preparing each of the shallow isoconcentration maps in this report due to groundwater in this well being depleted during purging caused by poor recharge during this event prior to water quality parameter stabilization. Additionally, general poor recharge of this well (since EIC initiated sampling in January 2015) and the lack of any well construction information question whether groundwater samples collected from this well would be considered representative. Consequently, EIC will discontinue sampling at MW-U2 and remove this well from the monitoring well network.

As discussed in the Third VIRP Semi-annual Report (EIC 2015b), updates to the monitoring well network provided a better understanding of the plume configuration. As the second monitoring event since the updates, the October 2015 event allows for comparative analysis.

3.6.2.1 PCE Plume

Utilizing analytical results summarized in Table 3-3 from the October 2015 sampling event, EIC prepared PCE isoconcentration maps to illustrate the horizontal extent of this plume. The following subsections describe the concentrations in shallow and deep environments.

<u>Shallow PCE</u>

Figure 3-3 illustrates the horizontal extent of the shallow portion of the PCE plume during the October 2015 monitoring event. From Figure 3-3, the shallow plume is confirmed to be above delineation criteria only at wells MW-32 and MW-50S. Due to laboratory dilution effects, however, concentrations at wells MW-4S and MW-40S, could not be defined beyond the limits illustrated for each monitoring well in Figure 3-3. The remaining monitoring wells had PCE concentrations below the laboratory method detection limit (MDL), with the exception of wells MW-31 with concentration of 3.0 μg/L. The October 2015 sampling event is the fourth

consecutive VIRP sampling event in which PCE concentrations above RRS did not occur at any shallow wells.

Deep PCE

Figure 3-4 illustrates the horizontal extent of the PCE plume at the defined deep wells during the October 2015 monitoring event. From Figure 3-4, concentrations above RRS were found at only monitoring wells, MW-2D. The concentrations in the remainder of the plume were above delineation standards only at wells PAW-4 and MW-47D. Observed PCE concentrations have reduced from April 2015, although the overall plume distribution remains similar.

3.6.2.2 TCE Plume

Utilizing analytical results summarized in Table 3-3 from the October 2015 sampling event, EIC prepared TCE isoconcentration maps to illustrate the horizontal extent of this plume. The following subsections describe the concentrations in shallow and deep environments.

Shallow TCE

Figure 3-5 illustrates the horizontal extent of the shallow portion of the TCE plume during the October 2015 monitoring event. Shallow TCE concentrations above RRS and above the delineation criterion of 5 µg/L were found at monitoring wells MW-4S, MW-31, MW-32, MW-40S, and MW-50S. The overall extent of the October 2015 shallow TCE plume encompassed a similar area of the Site as compared to the April 2015 sampling event with some fluctuations in concentrations.

Deep TCE

Figure 3-6 illustrates the horizontal extent of the deep portion of the TCE plume during the October 2015 monitoring event. Deep TCE concentrations above RRS and above delineation criterion of 5 µg/L were found at monitoring wells MW-2D, MW-44D, MW-47D, and PAW-4. The overall extent and concentrations of the deep TCE plume are similar to those that occurred in April 2015.

3.6.2.3 cis-1, 2 DCE Plume

Utilizing analytical results summarized in Table 3-3 from the October 2015 sampling event, EIC prepared DCE isoconcentration maps to illustrate the horizontal extent of this plume. The following subsections describe the concentrations in shallow and deep environments.

Shallow DCE

Figure 3-7 illustrates the horizontal extent of the shallow portion of the DCE plume during the October 2015 monitoring event. Shallow DCE concentrations above the RRS of 204 µg/L were found at monitoring wells MW-4S, MW-40S, and MW-50S. The overall extent of the shallow

DCE plume during the October 2015 monitoring event was similar to the April 2015 monitoring event with general reductions in concentrations, except at MW-50S.

Deep DCE

Figure 3-8 illustrates the horizontal extent of the deep portion of the DCE plume in October 2015. Deep DCE concentrations above the RRS of 204 µg/L were found only in monitoring wells MW-2D and MW-49D. This is a significant decrease compared to the concentrations that occurred in April 2015, with MW-51D and MW-55D falling below RRS and the delineation criterion. Thus, the overall extents of the Deep DCE plume have reduced.

3.6.2.4 VC Plume

Utilizing analytical results summarized in Table 3-3 from the October 2015 sampling event, EIC prepared VC isoconcentration maps to illustrate the horizontal extent of this plume. The following subsections describe the concentrations in shallow and deep environments.

Shallow VC

Figure 3-9 illustrates the horizontal extent of the shallow portion of the VC plume during the October 2015 monitoring event. Shallow VC concentrations above RRS of 3 µg/L were found at monitoring wells MW-4S, MW-33, MW-45S, MW-46S, and MW-50S. The concentration at well MW-40S was possibly above RRS, however, due to dilution during laboratory analysis, the actual concentration at this well could not be defined beyond the limits illustrated for each monitoring well in Figure 3-3. Increases in observed concentrations at some wells have resulted in the overall extent of the shallow VC plume expanding from the April 2015 monitoring event.

Deep VC

Figure 3-10 illustrates the horizontal extent of the deep portion of the VC plume during the October 2015 monitoring event. Deep VC concentrations above RRS of 3 µg/L were found in monitoring wells MW-2D, MW-49D, MW-51D, MW-54D, MW-55D, PAW-4 and RW-1. Observed concentrations at several wells have decreased since April 2015, however, the overall extent of the deep VC plume remained relatively well defined.

3.6.3 Horizontal Delineation

As discussed in Section 3.6.2, each of the CVOC constituents in both the deep and shallow COC plumes are now better defined and delineated within the Site boundaries after the installation of 20 new replacement monitoring wells during the first quarter of 2015. However, as EPD noted in its January 2016 comment letter (in Section 2), horizontal delineation has not been completed due to observed concentrations at certain wells located at the periphery of the plume. As the October 2015 monitoring event was the second sampling event since the 20 new wells were installed, this allowed for a better horizontal plume delineation and the initiation of trend analysis at these wells.

As discussed in Section 2, EIC will initiate further investigation to delineate the plume in these areas following the completion of the April 2016 groundwater monitoring event.

3.6.4 Plume Attenuation and Stability

Based on the relatively high levels of PCE degradation products observed at the Site, it is evident that natural attenuation is occurring at the Site. Also, an overall comparison of the plumes between the July 2014 baseline monitoring event and the October 2015 monitoring event indicates that the plume is confined to a relatively small area within the Site and continues to decrease in concentration. This finding substantiates plume stability. EIC will continue to evaluate this trend and evaluate the extent of natural attenuation while developing plans for active remediation.

SECTION

4

4.0 Delineation Soil Sampling

4.1 Background

As discussed in the Second VIRP Semiannual Report, EIC completed delineation of soil contamination within seven of the ten AOCs established at the site in the VIRP within the first quarter of 2015. However, further delineation for three of the AOCs (AOC-3, 4, & 6) was required.

Accordingly, MTL retained EIC to complete additional soil and sediment sampling within each of the three aforementioned AOCs requiring further delineation. EIC completed additional soil and sediment sampling activities during the fourth quarter of 2015 and the first quarter of 2016. In total, 16 soil and 4 sediment borings were installed during field activities and a total of 20 soil and sediment samples were collected and submitted to a Georgia-certified laboratory for analysis via EPA method 8260B (VOC analysis). The following subsections describe the general sampling approach, field procedures, and analytical results.

4.2 Mobilizations

EIC conducted three separate mobilizations during the fourth quarter of 2015 and first quarter of 2016. Separate mobilizations were necessary, as EIC identified previously undefined soil contamination following each respective mobilization event.

The three mobilizations occurred in October 2015, November 2015, and January 2016. EIC completed the October and November 2015 events in conjunction with recovery well installation activities conducted at the site. EIC conducted the January 2016 event in conjunction with aquifer characterization activities conducted at the site.

During the first field sampling program, EIC mobilized one field technician and a drill crew with a Geoprobe unit to complete six soil borings and a hand auger to complete two soil borings inside the former tire shop. Subsequently, during the second mobilization event, the drill crew assisted EIC in collecting 4 sediment samples located in AOC-6, utilizing a hand operated sand probe with an acetate sleeve. Finally, during the January 2016 event, EIC collected 9 soil and 2 sediment samples located in AOC-4 and AOC-6 utilizing a hand auger and hand operated sand probe with an acetate sleeve.

4.3 Sample Locations

Based on the results of initial soil and sediment delineation activities, completed in the first quarter of 2015, EIC determined additional soil and sediment delineation sample locations by evaluating previous sample locations and depths where sample analytical results were above COC delineation criteria. In general, additional soil borings were installed approximately 5 feet in each cardinal direction from locations of previous soil borings which contained concentrations of COCs above delineation criteria. The following subsections describe each additional sample location for each AOC.

4.3.1 AOC-3

Figure 4-1 illustrates the sample locations within AOC-3. During the initial soil delineation sampling within AOC-3, it was determined that soil boring AOC3-SB-E contained concentrations of COCs above delineation criteria at a depth of 3.5-4.0 feet bgs, which was just above the saturation point in the soil. This was the only initial soil delineation sample within AOC-3 which contained concentrations of COCs above delineation criteria. As AOC3-SB-E is located approximately 10 feet east from AOC3-SB-C, EIC considered AOC3-SB-C as the western delineation sample location for AOC3-SB-E. Therefore, EIC did not install an additional delineation boring to the west of AOC3-SB-E. Consequently, 3 additional boring locations were plotted approximately 5 feet north, east, and south of the original AOC3-SB-E borehole.

4.3.2 AOC-4

Figure 4-2 illustrates the sample locations within AOC-4. During initial soil delineation activities, discussed in the previous Second VIRP Semiannual Report, it was determined that 2 sample locations are above delineation criteria within AOC-4. AOC4-SB-C is above delineation criteria at a depth of 4.0-4.5 feet bgs and AOC4-SB-BLD-NW is above delineation criteria at the 2.0-2.5 and 2.5-3.0 foot bgs intervals. Therefore, EIC collected additional soil delineation samples surrounding these locations during the October 2015 and January 2016 sampling events.

To complete soil delineation within AOC-4, EIC initially installed four additional delineation borings within AOC-4 during the October 2015 sampling event. EIC installed the four borings approximately 5 feet in each cardinal direction from the original boreholes. Accordingly, EIC plotted 3 borings towards the north, west, and south of AOC4-SB-C (AOC4-SB-C-5N, AOC4-SB-C-5W, and AOC4-SB-C-5S respectively) and one towards the west of AOC4-SB-BLD-NW (AOC4-SB-BLD-NW-5E). However, upon collecting the additional delineation sample at AOC4-SB-BLD-NW-5E, EIC's field technician noted a strong chemical odor originating from the soil core, and upon examination with a photoionization detector (PID) meter, it was determined that VOC concentrations in the air surrounding the sample were near 3,000 ppm. Therefore, EIC installed an additional soil delineation boring approximately fifteen feet east of AOC4-SB-BLD-NW (AOC4-SB-BLD-NW-15E) for a total of 5 borings installed within AOC-4 during the October 2015 sampling event. The results of these borings, tabulated in Table 4-1, indicated that soil within the former tire shop building may extend outside the footprint of the building.

Therefore, EIC collected additional samples outside of the former tire shop building in January 2016.

During the January 2016 sampling event, EIC installed 2 soil borings located north and west adjacent to the sides of the former tire shop. EIC installed both soil borings by coring through the concrete apron surrounding the building with a concrete coring tool and then completed the boring with a hand auger. The results of the samples collected at these locations indicated that soil is delineated to within the former tire shop building footprint and that, therefore, additional sample locations were not necessary.

4.3.3 AOC-6

Figure 4-3 illustrates the boring locations within AOC-6. As discussed in the Second VIRP Semiannual Progress Report, it was determined that concentrations of COCs are above delineation criteria at one sample location within AOC-6, AOC6-SD-3. As no other previous sediment samples were collected from locations in close proximity to AOC6-SD-3, 4 additional sediment boring locations were installed to the north, east, west, and south of the original AOC6-SD-3 borehole during the November 2015 sampling event.

EIC installed the eastern and western sediment boring locations approximately 2-3 feet from the original AOC6-SD-3 borehole at the edge of the banks of the north-south City of Port Wentworth stormwater ditch, which is encompassed by AOC-6. EIC installed the northern and southern sediment boring locations in the center of the ditch approximately 10 feet from the original borehole in each respective direction.

Following the November 2015 sampling event, EIC determined that the northern and western sediment samples contained concentrations of COCs above delineation criteria. Therefore, in January 2016, EIC installed additional borings adjacent to and surrounding the previous sample locations that are above the delineation threshold. These included 2 additional sediment boring locations to the north of the sample collected in the center of the ditch with corresponding side of ditch borings to the east and west and one additional soil sample to the west of the original west side of ditch sample collected in November 2015.

As discussed below in Section 4.5 & 4.6, additional borings are required to complete delineation of soil and sediment within AOC-6.

4.4 Sampling Procedures

Utilizing the soil sample collection guidelines specified in SESDPROC-300-R3 (EPA, 2014b), a Geoprobe unit, hand operated bucket auger, or hand operated sand probe with acetate sleeve was utilized to collect soil cores at each boring location. Since the groundwater depth at the Site ranges from 3 to 6 feet bgs, soil borings were conducted from 0 to 5 feet bgs.

If possible, EIC utilized a PID to screen each core sample for CVOCs prior to sample collection. When PID readings were elevated, EIC biased soil samples to the approximate location within the soil core where the PID readings exceeded background concentrations. In the remaining borings, EIC collected samples at two discrete depths (2.0-2.5 and 4.0-4.5 ft. bgs) at the respective boring

location. EIC collected samples at discrete depths from each soil core. All soil samples were collected utilizing Terra-core soil sampling kits. If EIC encountered groundwater at a shallow depth, EIC collected one sample just above the saturation point for that core sample.

EIC collected sediment samples following the guidelines documented in SESDPROC-200-R3 (EPA, 2014a). To collect samples, EIC advanced a sediment probe lined with an acetate sleeve approximately 2 feet into the streambed or stream bank at each sampling location and then retracted the probe. EIC then removed the acetate sleeve from the probe to drain any excess water, if necessary. Then, utilizing a Terra-core sampler, EIC collected a sample from the acetate sleeve.

EIC tabulated the collection depth and other factors regarding each soil and sediment sample in Table 4-1. EIC labeled all sample bottles and placed them in insulated coolers with ice, then relinquished them to a certified laboratory for analysis via EPA Method 8260B. Chain of custody forms accompanied each sample.

4.4.1 Decontamination Procedures

To insure that reusable equipment utilized to collect soil and sediment samples did not cause cross contamination during sampling activities, EIC implemented an extensive decontamination procedure following the collection of soil samples from each location. The following subsections describe the decontamination procedure for each sampling equipment type.

4.4.1.1 Geoprobe Direct Push Technology (DPT) Borings

EIC, with the assistance of a drilling contractor, installed several soil borings utilizing a Geoprobe unit with reusable stainless steel Megacore sampling tubes with disposable acetate sleeves. Following the completion of each boring, the Megacore sampling tube that was utilized was decontaminated by flushing a phosphate free detergent (Alconox) along the inside of the tube and sprayed on the outside of the tube. EIC then instructed the drilling contractor to thoroughly wash the stainless steel tube with a wire brush and finally rinse the tube with deionized water. EIC then allowed the stainless steel sampling tube to dry before reuse.

4.4.1.2 Hand Auger

EIC utilized a stainless steel hand bucket auger for several boring locations due to their inaccessibility to the Geoprobe unit. For soil boring locations that were completed with a reusable hand auger, EIC decontaminated the auger prior to and following use by submerging the auger head in a phosphate free detergent solution (Alconox) and scrubbed the auger head thoroughly with a wire brush. EIC then rinsed the auger with deionized water and allowed it to dry before reuse. EIC also decontaminated the auger just prior to collecting samples at each boring to prevent cross contamination between sample depths within the same borehole.

4.4.1.3 Sand Probe

EIC installed the sediment and soil borings within the soft/loose substrate of AOC-6 utilizing a stainless steel sand probe with sliding hammer attachment and disposable acetate sleeve inserts. Prior to and following the collection of samples with the sand probe, EIC dismantled the probe for

decontamination. Smaller pieces of the probe, such as the probe tip and connection pins, were submerged in a phosphate free detergent (Alconox) and scrubbed with a wire brush. The stainless steel tube of the probe was then flushed with an Alconox solution and agitated to remove any gross contamination. The stainless steel tube was then scrubbed with a wire pipe brush. Once all of the pieces of the sand probe were thoroughly washed they were rinsed with deionized water and allowed to dry before reuse.

4.4.2 Quality Assurance and Quality Control

To insure the quality of each sample collected, EIC placed trip blanks in each cooler container that contained completed sample bottle sets. Trip blanks accompanied all samples throughout all sampling activities and were submitted to a Georgia certified laboratory along with the soil samples collected for analysis via EPA method 8260B (VOC analysis). The laboratory results for the October 2015, November 2015, and January 2016 sampling events are presented in Attachment 4-1. For all sampling events conducted in the third quarter of 2015 and first quarter of 2016, respectively, all trip blanks were below detection limits for all VOCs analyzed.

In addition to the trip blanks utilized for each cooler container, EIC also collected an equipment rinsate from the decontaminated sand probe utilized in the November 2015 and January 2016 sampling events. The results of the equipment rinsate for both events are included in each events respective sampling results. From Attachment 4-1, the equipment rinsate samples for both the November 2015 and January 2016 events were below detection limits for all VOCs analyzed. This indicates that the thorough decontamination procedures implemented during soil sediment sampling activities were adequate in preventing cross contamination between samples.

4.5 Analysis and Analytical Results

Each soil and sediment sample was analyzed by a Georgia certified laboratory (Test America Laboratory) using EPA method 8260B. The lab reports for all samples are included in Attachment 4-1. Results for each sample collected are tabulated in Table 4-1 and illustrated in Figures 4-1 through 4-3. The following subsections describe the sample results and subsequent delineation status for each AOC.

4.5.1 AOC-3 Delineation

As discussed in Section 4.3, 3 additional sample locations were plotted approximately 5 feet north (AOC3-SB-E-5N), east (AOC3-SB-E-5E), and south (AOC3-SB-E-5S) of the original AOC3-SB-E borehole. EIC then collected samples at each new borehole location within approximately the same depth intervals as the original adjacent delineation sample. The results for each additional soil boring for AOC-3 are presented in Table 4-1 and are illustrated in Figure 4-1. From Figure 4-1, it is apparent that soil within AOC-3 is now fully delineated horizontally and vertically with respect to groundwater. The volume of soil encompassed by the soil borings which delineate the contamination found in AOC-3 is approximately 750 cubic feet.

4.5.2 AOC-4 Delineation

As discussed in Section 4.3, EIC installed 7 additional soil borings within AOC-4. From the newly installed borings, EIC collected 9 additional soil samples to complete soil delineation within AOC-4. EIC collected samples at each new boring location within approximately the same depth intervals as the original delineation samples. The results for each additional soil boring for AOC-4 are presented in Table 4-1 and are illustrated in Figure 4-2. From Figure 4-2, it is apparent that soil within AOC-4 is fully defined horizontally and vertically with respect to groundwater. The volume of soil encompassed by the soil borings, which delineate the residual contamination found in AOC-4, is approximately 4,500 cubic feet.

4.5.3 AOC-6 Delineation

From Section 4.3, EIC installed 13 additional soil borings within AOC-6 to complete sediment delineation sampling. Samples that EIC collected along the centerline of the north-south ditch were collected at the same sample depth interval as the original AOC6-SD-3 borehole. Samples EIC collected along the banks of the north-south ditch to the east and west of AOC6-SD-3, respectively, were collected just above the apparent groundwater depth.

The results for each additional sediment sample collected within AOC-6 are presented in Table 4-1 and the boring locations are illustrated in Figure 4-3. From Figure 4-3, it is apparent that sediment within AOC-6 has been horizontally and vertically delineated to the north, south, and east. However, samples collected along the western side of AOC-6 were above delineation criteria. Therefore, it is apparent that further delineation sampling is necessary to complete horizontal and vertical delineation of contamination within AOC-6.

4.6 Further Delineation

As of the latest January 2016 soil delineation-sampling event, EIC has completed horizontal and vertical delineation of soils and sediment in 9 of the 10 AOCs established in the VIRP application. AOC-6 is the only remaining area that requires further delineation. As such, EIC is currently proposing to collect additional soil samples to the west of AOC 6-SD-3-25N-W-Bank and AOC6-SD-3-10N-W-Bank and to the south of AOC6-SD-3-5W to complete horizontal and vertical delineation within ACO-6.

SECTION

5

5.0 Recovery Wells Installation

5.1 Background

As discussed in the VIRP, MTL proposed use of an Enhanced Attenuation System (EAS) to address the prevailing groundwater contamination at the site. As this program entails the steady-state extraction of contaminated water from a series of recovery wells within the CVOC footprint, it is imperative that properly designed and installed recovery wells are available at the site. However, as discussed in the previous semiannual progress report, several of the previously installed recovery wells at the site were not designed and/or installed properly, leading to the accumulation of substantial amounts of silt that blocked the well screens. As such, they cannot be utilized in the EAS remediation program. Therefore, MTL retained EIC to design and install two new recovery wells within the footprint of the prevailing CVOC plume. The following subsections describe the design and installation of the new recovery wells.

5.2 Site Mobilizations

Two mobilizations, one in October and one in November of 2015, were necessary to complete the installation of the two recovery wells. During the first mobilization, EIC marked the proposed location of each recovery well, completed a buried utility check, and supervised a professional drilling company crew in clearing brush from the proposed well locations. During the second mobilization, EIC supervised the same professional drilling company crew to complete the installation of both recovery wells. Both mobilizations were completed in conjunction with soil and sediment sampling activities at the site, as discussed in Section 4.0.

5.3 Well Locations

Upon reviewing the CVOC plume data from the April and October 2015 sampling events, EIC selected the locations for the two new recovery wells. EIC proposed to install one recovery well near RW-7 and proposed the second to be installed approximately equidistant between RW-2 and RW-5. However, upon reviewing the latest plans for the proposed Gate 8 development by the Georgia Ports Authority (GPA), it was determined that the original proposed location for the second new recovery well was directly in the center of the proposed cargo truck traffic lanes. Therefore, upon the GPA's request, EIC relocated the second recovery well approximately 50 feet

north of the original proposed location. Figure 5-1 illustrates the originally proposed and final locations for both recovery wells.

5.4 Well Installation

EIC installed the two new recovery wells during the November 2015 mobilization. Well construction logs for both wells are included as Figures 5-2 and 5-3. The drilling contractor utilized a CME-550X model drill rig with 14-inch OD hollow-stem augers to install both wells. EIC completed both wells to a depth of thirty-five feet bgs. Each well is screened from a depth of 30 to 10 ft. bgs. As the recovery wells previously installed at the site contained significant accumulations of silt, EIC installed each well with a 5-foot sump to collect fines that may pass though the filter pack and screen.

During the drilling and installation process, EIC had the drilling crew utilize stabilizers, as necessary, to insure that the well was installed as vertically as possible. EIC installed both wells with a 30/45 filter sand pack, which extends from two feet below the screened interval to two feet above the screened interval. EIC selected the filter pack considering the soil type previously characterized and logged by EIC during previous monitoring well installations and from sieve analysis of soil samples collected during the installation of these monitoring wells. All well materials such as filter pack sand, bentonite, and grout were tremi-piped into the annulus space of each well to avoid smearing the screened interval with bentonite and bridging.

After allowing the well materials in the annulus space of each well to set for 24-hours, both wells were developed utilized the surge and block method. EIC developed both wells until the water produced from the well was visibly clear. EIC developed RW-8 for approximately 27.5 minutes and produced approximately 55 gallons of purge water until it was clear. EIC developed RW-9 for approximately 55 minutes and produced approximately 110 gallons of purge water until it was clear. Following the development of each well, EIC had the drilling contractor install a 12-inch metal well vault imbedded within a 3-foot square concrete collar.

5.5 Investigative Derived Waste

Solid investigative derived waste (IDW) composed of soil cuttings generated from well installation activities were containerized into a total of twelve sealed and labeled 55-gallon drums. Liquid IDW from well development activities was containerized in a total of two sealed and labeled 55-gallon drums. Both the solid and liquid IDW drums were staged for future disposal adjacent to the west wall of the former tire shop.

SECTION

6

6.0 Aquifer Characterization

In preparation for groundwater remediation at the site, EIC conducted slug tests in each of the two new recovery wells, RW-8 and RW-9. The data from the slug test was analyzed using Aqtesolv software with the Kansas Geological Survey (KGS) curve matching model (Duffield, 2007). The following sub-sections describe the process in which the slug tests were conducted and the subsequent method of data collection and analysis.

6.1 Slug Test Format

EIC conducted slug testing in accordance with EPA SOP 2046 (EPA, 1994). EIC installed a water level transducer data logger in each well just prior to the initiation of the slug tests. To perform the slug test, EIC utilized vented In-Situ Level TROLL 500 transducers, which were calibrated to atmospheric conditions prior to use. The probes were placed approximately at the bottom of each well screen and the cables suspending them were secured to the ground surface utilizing plastic stakes. Once each transducer was installed, EIC recorded the depth to water above each probe from the top-of-casing as a reference point.

Following the proper placement of each transducer, EIC lowered a decontaminated 2-inch diameter PVC slug into each well just above the air to groundwater interface. EIC then secured the slug via a rope to a plastic stake at ground surface with sufficient slack in the rope to ensure that the slug would not reach the depth of the transducer probe when lowered. Prior to inserting each slug, EIC programed the transducers to record the water level in each well at one-second intervals. After the preceding tasks were completed, EIC allowed the slug to drop by gravity - from just above the water surface - into the water column. EIC performed this process as instantaneously as possible to begin the slug-in test.

EIC monitored the water level of each test well over time, utilizing the transducer, until the water level in each well fell and returned to within approximately 10% of the height difference between the maximum height the water rose to after inserting the slug and the level of the water prior to installing the slug. For each well, once this condition was met, EIC then removed the PVC slug to begin the slug-out test. EIC removed the PVC slug by hand as instantaneously as possible from the well casing. EIC then continued to monitor the water level in each well until the water

level in each well rose and returned to within approximately 10% of the height difference between the maximum depth the water fell to after removing the slug and the level of the water prior to removing the slug. EIC repeated this process for each well for a total of three times. The data was then downloaded in the field onto a laptop computer to be later compiled and analyzed.

6.2 Slug Test Analysis

Utilizing Aqtesolv software, EIC analyzed the water level data from each transducer for each slug-in test with the KGS curve matching model. The KGS model utilizes known well construction conditions along with the collected field data to estimate hydraulic conductivity. EIC analyzed each data set for each of the three separate events at each well and then averaged the hydraulic conductivity values to obtain a site-wide average hydraulic conductivity. The slug test curve matching figures and corresponding data for each respective well are included as Attachments 6-1 through 6-6. The individual test, well, and site averages are tabulated in Table 6-1.

The figures presented in Attachments 6-1 through 6-6 have two axes; the y-axes denotes the normalized head and the x-axes denotes time in a logarithmic scale. The normalized head is the ratio of the maximum head displacement observed during the test and the observed head displacement at any point in time during the test. EIC obtained the initial displacement height from the difference of the maximum observed height of water column after introducing the PVC slug compared to the initial water column height in the well.

From Table 6-1, the hydraulic conductivity for recovery wells RW-8 and RW-9 are relatively similar and are consistent with the predominant water-bearing silt/silt with sand layer discussed in the Site Conceptual Model (SCM) of the Third VIRP Semi-annual Progress Report (EIC, 2015b).

The resultant average hydraulic conductivity for the site was computed to be 6.91E-04 cm/second and is tabulated in Table 6-1. EIC will update the SCM with the data from the slug test analysis and will reference the data in future reports.

SECTION

7

7.0 Summary

After the submittal of the Third Semi-annual Progress Report in November 2015, EIC continued the implementation of various tasks outlined in the VIRP. Following is a summary of these tasks completed during the period from November 2015 through April 2016.

EIC conducted the second semi-annual groundwater monitoring event of 2015 in October 2015. This event served as the second round of sampling after the installation of 20 new monitoring wells. The data from this event was used for comparative analysis of the CVOC plumes. Based on the relatively high levels of PCE degradation products observed at the Site, it is evident that natural attenuation is occurring at the Site. The CVOC plume is stable and confined to a relatively small area within the Site and continues to decrease in concentration.

EIC also completed additional confirmatory soil sampling, as discussed in the previous semi-annual report. As of the latest January 2016 soil delineation-sampling event, EIC has completed horizontal and vertical delineation of soils and sediment within 9 of the 10 AOCs established in the VIRP application. AOC-6 is the only remaining AOC which has not been fully delineated. As such, EIC is currently proposing to collect additional soil samples to the west of boring locations AOC6-SD-3-25N-W-Bank and AOC6-SD-3-10N-W-Bank and to the south of AOC6-SD-3-5W to complete horizontal and vertical delineation within AOC-6.

EIC installed two new recovery wells, RW-8 and RW-9, as discussed in Section 5.0 to be utilized in recovering contaminated groundwater for treatment by the EAS. Following the installation of these wells, EIC determined the aquifer characteristics of each recovery well by conducting manual slug tests, as discussed in Section 6.0.

EIC is currently preparing for an estimation of pumping rates and design of a treatment system consistent with the tasks outlined in the approved VIRP. EIC is will also conduct abandonment of silted wells and complete soil delineation of AOC-6.

SECTION

8

8.0 Monthly Summary of Hours

A monthly summary of hours invoiced for the aforementioned tasks during the period from November 2015 through April 2016 is summarized in Attachment 8-1.

SECTION

9

9.0 References

Duffield, G.M., 2007. *AQTESOLV for Windows Version 4.5 User's Guide*, HydroSOLVE, Inc., Reston, Virginia. 2007

Environmental International Corporation (EIC), 2014a. *VIRP Application, Former McKenzie Tank Lines Site, Port Wentworth Georgia.* Alpharetta, Georgia. January 29, 2014.

EIC, 2014b. *First VIRP Semi-annual Progress Report – HSI Site 10406, Former Mckenzie Tank Lines Site.* Alpharetta, Georgia. November 11, 2014.

EIC, 2015a. *Second VIRP Semi-annual Progress Report – HSI Site 10406, Former Mckenzie Tank Lines Site.* Alpharetta, Georgia. May 18, 2015.

EIC, 2015b. *Third VIRP Semi-annual Progress Report – HSI Site 10406, Former Mckenzie Tank Lines Site.* Alpharetta, Georgia. November 18, 2015.

Georgia Environmental Protection Division (EPD), 2015. *Voluntary Remediation Program Progress Reports McKenzie Tank Lines Site, HSI# 10406 Port Wentworth, Chatham County, Georgia Tax parcel ID #s 1-0729-01-007 & 1-0729-01-009.* Atlanta, Georgia. January 8, 2016.

U. S. Environmental Protection Agency (EPA), 1994. *Slug Tests, Operating Procedure, Number 2046.* Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia. October 3, 1994.

EPA, 2013. *Groundwater Sampling, Operating Procedure, Number SESDPROC-301-R3.* Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia. March 6, 2013.

EPA, 2014a. Sediment Sampling, Operating Procedure, Number SESDPROC-200-R3, Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia. August 21, 2014.

EPA, 2014b. Soil Sampling, Operating Procedure, Number SESDPROC-300-R3, Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia. August 21, 2014.

HSI SITE 10406, FORMER MCKENZIE TANK LINES SITE

FOURTH SEMI-ANNUAL PROGRESS REPORT

TABLES

Table 3-1: October 2015 Well Gauging Data

Well ID # (Dia., in.)	TOC Elevation* (ft., NAVD88)	DTW BTOC (ft.)	Groundwater Surface Elevation (ft., NAVD88)	Notes
Shallow Wells**				
G-17 (1)	8.94	4.15	4.79	
G-19 (1)	9.85	5.05	4.80	
G-22 (1)	9.36	5.85	3.51	
MW-2S (2)	11.54	2.81	8.73	
MW-4S (2)	10.86	5.65	5.21	
MW-15S (1)	8.27	3.74	4.53	
MW-29 (1)	9.39	3.17	6.22	
MW-31 (1)	11.96	5.49	6.47	
MW-32 (1)	12.02	5.20	6.82	
MW-33 (1)	8.48	4.12	4.36	
MW-37S (2)	10.14	4.93	5.21	
MW-40S (2)	5.57	1.09	4.48	
MW-42S (2)	10.71	4.24	6.47	
MW-45S (2)	13.74	6.47	7.27	
MW-46S (2)	14.01	6.34	7.67	
MW-48S (2)	13.56	6.10	7.46	
MW-50S (2)	11.18	5.43	5.75	
MW-U2 (2)	10.91	2.99	7.92	
PAW-3 (2)	11.83	4.50	7.33	
Deep Wells**				
MW-2D (2)	11.39	4.42	6.97	
MW-11D (2)	16.07	8.15	7.92	
MW-14D (2)	12.06	6.20	5.86	
MW-26 (1)	8.42	2.92	5.50	
MW-35 (0.75)	6.28	0.71	5.57	
MW-36 (0.75)	9.86	4.08	5.78	
MW-38D (2)	10.08	5.14	4.94	
MW-39D (2)	7.25	2.83	4.42	
MW-41D (2)	9.59	3.62	5.97	
MW-43D (2)	10.77	4.19	6.58	
MW-44D (2)	13.83	6.89	6.94	
MW-47D (2)	13.63	6.43	7.20	
MW-49D (2)	11.09	5.35	5.74	
MW-51D (2)	9.87	4.61	5.26	
MW-52D (2)	8.29	3.13	5.16	
MW-53D (2)	7.62	2.06	5.56	
MW-54D (2)	10.91	4.61	6.30	
MW-55D (2)	11.78	5.60	6.18	
MW-56D (2)	10.68	4.13	6.55	
PAW-4 (2)	11.99	5.22	6.77	
RW-1 (4) ***	11.69	4.43	7.26	
RW-2 (4)	9.24	NM	NA	
RW-3 (6)	7.58	NM	NA	
RW-4 (6) ***	13.25	6.06	7.19	

Table 3-1: October 2015 Well Gauging Data

Well ID # (Dia., in.)	TOC Elevation* (ft., NAVD88)	DTW BTOC (ft.)	Groundwater Surface Elevation (ft., NAVD88)	Notes
RW-5 (6)	11.71	NM	NA	
RW-6 (6)	10.12	NM	NA	
RW-7 (6)	8.63	NM	NA	

Notes:

ID = Identity

Dia. = Diameter

In. = Inches

ft. = feet

BTOC = Below Top of Casing

DTW = Depth to Water

N.M. = Not Measured

NS = Not Surveyed

*TOC elevations are based on October 2013 and June 2015 surveys completed by Brewer Land Surveying and EMC Engineering Services, respectively.

**Each well screened lower than 20 feet below ground surface is considered a deep wells, otherwise it is considered a shallow well

***Gauged with GW pump removed from well

McKenzie Tank Lines, Port Wentworth, GA
Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celcius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
G-17	8/13/2013	24.44	6.04	33	0.972	2.5	3.57
	2/19/2014	18.31	5.80	-41	0.312	196	0.73
	7/16/2014	23.67	5.63	-16	0.265	112	0.49
	10/7/2014	21.10	6.20	-94	1.09	7.5	1.34
	4/28/2015	17.17	6.29	-10	0.959	3.8	0.95
	10/13/2015	25.89	5.65	-31	1.34	0.6	0.33
G-19	8/15/2013	21.92	3.81	230	0.095	34.6	1.34
	2/21/2014	17.69	4.39	41	0.296	14	0.71
	7/17/2014	22.39	4.17	86	0.419	0.0	0.69
	10/7/2014	23.45	4.45	-43	0.233	11.9	0.76
	4/28/2015	18.01	4.52	83	0.091	6.3	0.00
	10/14/2015	23.36	3.93	40	0.089	18.3	0.00
G-22	8/15/2013	22.29	5.72	118	0.357	0.0	1.76
	2/23/2014	16.80	5.87	25	0.722	50.1	1.12
	7/17/2014	25.75	5.77	-27	1.17	796	3.88
	10/7/2014*	25.60	5.95	-129	1.67	200	3.12
	4/28/2015	17.24	5.24	56	0.881	0.0	1.67
	10/14/2015	22.70	5.36	-32	1.09	105	0.17
MW-2D	8/12/2013	22.47	6.30	-64	0.759	27	0.41
	2/21/2014	18.67	6.07	-91	0.555	0.00	0.48
	7/19/2014	19.97	6.13	-50	0.486	0.00	0.40
	10/9/2014	20.58	6.61	-217	0.589	0.00	0.48
	4/27/2015	18.67	6.21	-54	0.513	9.4	0.00
	10/12/2015	21.21	5.87	46	0.484	0.0	0.42
MW-2S	8/13/2013	26.37	6.58	-35	1.16	0.0	0.58
	2/21/2014	15.59	6.74	-33	0.999	0.0	1.43
	7/18/2014	23.45	6.54	-62	0.895	4.5	2.78
	10/8/2014	20.82	6.65	-164	0.772	0.0	1.27
	4/27/2015	18.80	6.87	64	0.330	12.5	1.00
	10/12/2015	22.30	6.18	38	0.810	0.0	0.72
MW-4S	8/14/2013	22.63	5.92	-45	1.87	360	0.48
	2/19/2014	18.69	6.13	-50	1.33	254	0.76
	7/18/2014	21.55	6.08	-51	1.66	0.0	0.53
	10/9/2014	22.83	6.00	0.89	1.97	0.0	0.43
	4/27/2015	18.80	6.06	-50	1.85	3.1	0.00
	10/13/2015	22.88	5.25	-61	1.64	0.5	0.00
MW-11D	8/13/2013	24.07	6.73	-22	0.498	0.0	0.62
	2/20/2014	15.95	6.40	45	0.210	100	2.45
	7/16/2014	22.29	6.35	-85	0.332	22.1	0.53
	10/7/2014	22.13	6.18	-153	0.417	0.0	0.77
	4/27/2015	17.30	6.40	-35	0.290	6.8	0.12
	10/12/2015	22.10	6.17	81	0.342	5.6	0.62
MW-14D	8/14/2013	21.19	6.81	-82	0.210	0.0	0.95
	2/21/2014	18.27	6.82	-55	0.235	2	0.61
	7/17/2014	24.96	6.32	-66	0.237	73.5	0.41
	10/7/2014	21.45	6.83	-135	0.261	146	0.70
	4/28/2015	20.49	6.74	-81	0.189	53.3	0.00
	10/14/2015	24.48	6.05	-94	0.210	0.0	0.18
MW-15S	8/13/2014	22.67	6.60	-58	0.46	0.0	0.58
	2/19/2014	18.39	6.83	-87	0.355	22.5	0.69
	7/16/2014	21.63	6.64	-65	0.396	14.8	0.65
	10/7/2014	19.85	6.97	-116	0.473	4.9	1.27
	4/28/2015	17.62	5.98	-34	0.377	0.0	1.20
	10/13/2015	22.87	7.07	10	0.395	0.0	0.82

McKenzie Tank Lines, Port Wentworth, GA
Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celcius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
MW-26	8/13/2013	21.22	7.82	-67	0.51	55.2	0.61
	2/19/2014	18.33	8.04	-157	0.407	24.7	0.69
	7/16/2014	21.75	7.87	-103	0.446	34	0.86
	10/7/2014	21.82	7.89	-126	0.49	9	1.00
	4/27/2015	18.82	8.14	-88	0.387	0.4	0.00
	10/15/2015	23.71	7.21	-78	0.387	4.9	0.00
MW-29	8/14/2013	28.30	5.94	4	0.422	50.3	0.54
	2/19/2014	17.75	5.82	27	0.319	9.9	1.53
	7/16/2014	22.03	6.30	-98	0.425	46.9	0.69
	10/6/2014	21.48	6.18	-168	0.785	23.2	0.42
	4/27/2015	25.07	5.78	11	0.288	47.7	5.89
	10/12/2015	28.19	5.91	25	0.374	0.0	0.44
MW-31	8/15/2013	21.00	5.62	50	0.779	0.0	1.22
	2/20/2014	18.38	5.15	147	1.06	46.2	0.79
	7/17/2014	20.58	4.86	159	1.88	21.5	0.64
	10/8/2014	25.81	5.09	157	1.07	76.7	1.14
	4/28/2015	17.46	5.07	71	1.02	0.0	0.66
	10/14/2015	21.20	5.58	89	0.970	24.4	0.77
MW-32	8/15/2013	20.53	4.70	217	0.427	0.0	0.91
	2/20/2014	17.41	4.56	245	0.441	0.0	1.00
	7/16/2014	20.24	4.70	228	0.42	0.0	0.55
	10/8/2014	25.09	4.79	281	0.403	16.4	0.75
	4/28/2015	17.67	4.28	121	0.553	0.0	0.68
	10/14/2015	20.76	4.58	230	0.395	9.5	0.70
MW-33	8/13/2013	23.96	6.60	-46	1.41	4	3.73
	2/19/2014	17.87	6.73	-82	1.07	21.7	0.73
	7/16/2014	21.14	6.83	-70	0.937	54.5	0.41
	10/9/2014	23.49	7.02	-101	0.612	16.8	1.21
	4/28/2015	17.58	6.87	-66	0.664	31.9	0.00
	10/13/2015	23.32	7.03	-44	0.535	0.0	0.52
MW-35**	7/18/2014	20.94	7.72	-83	0.425	80.9	0.51
	10/7/2014	21.03	7.94	-143	0.474	8.4	1.26
	4/28/2015	18.05	8.14	-102	0.377	14.7	0.00
	10/13/2015	20.93	8.07	-87	0.400	23.3	0.76
MW-36	8/14/2013	24.05	7.55	-98	0.415	233	1.78
	2/19/2014	20.14	7.45	-88	0.406	14.7	1.93
	7/18/2014	24.13	7.50	-140	0.453	8.1	0.54
	10/8/2014	26.11	7.55	-180	0.475	0.0	3.07
	4/27/2015	21.36	7.09	-44	0.4	0.0	1.54
	10/13/2015	21.98	6.59	-90	0.396	11.2	0.47
MW-37S	4/28/2015	20.59	6.04	-38	0.24	0.0	0.63
	10/13/2015	26.69	5.81	-65	0.239	0.0	0.00
MW-38D	4/28/2015	21.50	6.71	-62	0.853	0.0	0.87
	10/13/2015	26.13	6.53	-129	0.581	2.1	0.00
MW-39D	4/28/2015	18.40	7.06	-62	0.372	0.0	0.53
	10/13/2015	22.91	6.86	-81	0.356	0.0	0.00
MW-40S	4/27/2015	19.51	6.86	-76	0.274	8.4	0.00
	10/13/2015	22.77	6.05	-88	0.272	0.0	0.00
MW-41D	4/27/2015	20.95	7.80	-93	0.335	47.1	0.00
	10/12/2015	25.31	7.51	-93	0.306	0.0	0.53
MW-42S	4/27/2015	25.77	11.24	-245	2.32	20.4	0.68
	10/12/2015	26.68	10.44	-237	0.711	11.3	0.46
MW-43D	4/27/2015	23.41	8.16	-81	0.317	70.2	0.67
	10/12/2015	26.27	7.23	3	0.435	9.6	0.00

McKenzie Tank Lines, Port Wentworth, GA
Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celcius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
MW-44D	4/27/2015	24.80	5.16	58	0.662	5.3	0.86
	10/13/2015	26.06	5.56	-78	0.506	0.3	0.13
MW-45S	4/27/2015	25.37	4.78	69	0.621	3.4	0.86
	10/12/2015	28.14	5.23	-71	0.481	0.2	0.14
MW-46S	4/27/2015	20.68	6.07	84	0.887	22.9	0.00
	10/12/2015	25.13	5.88	87	0.722	0.0	0.57
MW-47D	4/27/2015	19.62	6.42	96	0.4623	159	0.84
	10/12/2015	22.09	6.29	-14	0.339	4.4	0.00
MW-48S	4/27/2015	18.12	4.09	277	0.163	21.7	5.89
	10/12/2015	22.81	4.29	348	0.135	0.0	2.11
MW-49D	4/29/2015	18.92	6.86	-78	0.574	17.5	0.00
	10/14/2015	25.49	7.12	-6	0.652	0.0	1.11
MW-50S	4/29/2015	18.98	5.01	87	0.763	22.4	0.00
	10/14/2015	27.37	4.41	63	0.763	0.0	5.51
MW-51D	4/29/2015	18.49	6.89	-59	0.45	0.0	1.01
	10/14/2015	21.29	7.69	-41	0.371	17.4	0.72
MW-52D	4/28/2015	19.01	7.49	-103	0.349	10.4	0.00
	10/13/2015	21.59	7.09	-25	0.359	9.0	0.68
MW-53D	4/29/2015	18.57	7.62	-114	0.326	1.5	0.00
	10/14/2015	23.94	7.59	-36	0.330	0.0	0.55
MW-54D	4/29/2015	18.20	7.55	-35	0.296	35.3	0.00
	10/14/2015	25.34	6.82	-100	0.308	0.1	0.00
MW-55D	4/29/2015	18.63	6.42	-49	0.589	0.0	0.92
	10/14/2015	26.31	6.86	-102	0.338	0.0	0.08
MW-56D	4/29/2015	18.34	7.42	81	0.396	17.5	1.34
	10/14/2015	22.76	7.45	-28	0.319	0.0	0.67
MW-U2	4/28/2015	18.27	5.56	58	1.06	71.2	0.96
	10/14/2015	20.68	6.40	54	1.41	92.9	4.40
PAW-3	8/12/2013	23.53	5.75	25	0.582	12.4	0.41
	2/21/2014	17.33	6.44	52	0.906	9	0.61
	7/19/2014	21.80	6.03	-38	0.683	0.0	0.41
	10/8/2014	23.73	6.43	-97	0.979	0.0	0.88
	4/28/2015	18.02	6.34	-25	0.44	5.6	0.00
	10/12/2015	21.45	5.98	38	0.503	4.1	0.98
PAW-4	8/12/2014	24.59	6.03	-36	0.876	1.8	0.53
	2/21/2014	18.62	5.56	31	0.392	22.2	0.67
	7/19/2014	19.14	5.45	0	0.513	1	0.46
	10/8/2014	21.57	6.50	-66	0.49	0.0	0.83
	4/28/2015	19.34	5.41	92	0.328	150	0.00
	10/12/2015	21.32	5.21	104	0.354	9.9	0.85
RW-1	8/13/2013	25.25	5.88	5	0.683	0.0	0.63
	2/20/2014	16.73	6.06	39	0.69	196	0.52
	7/18/2014	21.73	5.91	-19	0.736	37	0.42
	10/8/2014	21.40	6.04	-52	0.707	0.0	1.07
	4/27/2015	19.86	6.35	-41	0.404	59.5	0.00
	10/13/2015	20.38	6.15	38	0.664	11.3	0.77
RW-2	8/12/2013	22.40	5.68	51	0.695	369	0.65
	2/20/2014	19.94	5.90	61	0.934	217	0.26
	7/17/2014	22.04	5.80	5	1.41	48.6	0.39
	10/9/2014	22.02	6.03	-60	0.708	664	0.35
	NS	NS	NS	NS	NS	NS	NS

McKenzie Tank Lines, Port Wentworth, GA
Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celcius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
RW-3	8/14/2013	21.43	5.79	38	0.628	377	0.33
	2/20/2014	19.05	5.78	2	1.12	91.5	0.40
	7/17/2014	24.63	6.09	-46	1.06	368	0.39
	10/9/2014	23.71	6.35	-120	1.14	281	0.29
	NS	NS	NS	NS	NS	NS	NS
RW-4	8/12/2014	24.07	5.41	37	0.778	40.8	0.43
	2/20/2014	18.09	6.49	-43	0.893	125	0.32
	7/18/2014	21.94	6.48	-33	0.819	62.7	0.40
	10/9/2014	20.76	6.17	-44	0.741	0.0	2.68
	4/27/2015	19.99	6.71	-74	0.725	111	0.00
	10/13/2015	21.03	6.76	-84	0.944	24.7	0.65
RW-5	8/12/2014	26.50	5.04	107	1.05	219	0.50
	2/20/2014	21.53	4.61	271	0.63	204	0.36
	7/17/2014	24.27	4.98	148	0.733	69	0.46
	10/9/2014	24.28	5.43	69	0.677	9.9	0.44
	NS	NS	NS	NS	NS	NS	NS
RW-6	8/15/2013	21.35	5.90	20	1.95	7.1	1.29
	2/19/2014	19.88	5.45	20	0.994	22.3	0.67
	7/18/2014	21.32	6.00	-6	2.78	7.5	0.44
	10/8/2014	24.08	6.14	-93	1.82	0.0	0.79
	NS	NS	NS	NS	NS	NS	NS
RW-7	8/14/2013	22.24	6.00	-12	1.18	255	0.49
	2/20/2014	18.72	6.10	-44	1.11	193	0.50
	7/18/2014	21.45	6.14	-32	1.15	47.5	0.42
	10/9/2014	21.72	6.26	-73	1.04	294.00	0.38
	NS	NS	NS	NS	NS	NS	NS

Notes:

Field parameters were recorded by EIC during groundwater monitoring events after stabilization had been reached and prior to sampling
Parameters were measured with a Horiba U-52 Water Quality Meter with a Flow-Through Cell.
* G-22 was not sampled on 10/7/2014 due to lack of recharge. Parameters recorded are from only reading taken.

** MW-35 was discovered during the July 2014 sampling event and the well formerly identified as MW-35 is considered to be MW-15S
SU = Standard Unit
mV = Millivolts
mS/cm = Microsiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = Milligrams per liter

McKenzie Tank Lines, Port Wentworth, GA

Table 3-3: Groundwater Constituent of Concern Cumulative Analytical Results Table

Constituent of Concern/Well ID	Deep Wells																													
Date	MW-2D	MW-11D	MW-14D	MW-15D	MW-26	MW-35	MW-36	MW-38D	MW-39D	MW-41D	MW-43D	MW-44D	MW-47D	MW-49D	MW-51D	MW-52D	MW-53D	MW-54D	MW-55D	MW-56D	PAW-4	RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	RW-7
Tetrachloroethylene (PCE)	Type 4 RRS (µg/L)			98	Delineation Criteria (µg/L)			5																				
Mar-93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-94	49,000.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Feb-96	10,000.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-96	120.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Sep-96	6.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Oct-96	15,880.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Apr-97	13,000.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jul-97	10,000.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Oct-97	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	11.0	NI	NI	NI	NI	NI	NI	NI
Feb-98	7,750.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Jul-98	24,000.0	40.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Nov-98	26,200.0	2,010.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Feb-99	18,300.0	752.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	5,650.0	NI	NI	NI	NI	NI	NI	NI
Oct-99	51,800.0	142.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
May-00	24,046.0	676.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	3,554.0	NI	NI	NI	NI	NI	NI	NI
Jan-01	6,240.0	14.7	<1	<1	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	3,270.0	NI	NI	NI	NI	NI	NI	NI
Aug-01	9,300.0	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Aug-01	2,800.0	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Nov-01	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Dec-01	NA	NA	10.0	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Jan-02	NA	19.0	<1	<1	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	2,900.0	NI	NI	<25	NI	NI	NI	NI
Sep-02	NA	NA	<1	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	920.0	NI	350	NA	NI	NI	NI	NI
Oct-03	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	1,300.0	NI	NA	NA	NI	NI	NI	NI
Jan-04	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	2,300	2,000	<150	NI	NI	NI	NI
Nov-04	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	1,400	2,200	17,000	NA	NI	NI	NI	NI
May-05	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA	NA	NA	NI	NI	NI	NI
Jun-05	NA	<2	<2	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA	NA	NA	NI	NI	NI	NI
Jul-05	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	1,500	2,100	11,000	90	NI	NI	NI	NI
Dec-05	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA	NA	NA	1,500	400	NI	4,500
Oct-06	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	459	779	54	459	1,450	NI	9,680
Apr-07	NA	NA	NA	0.70 I*	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	654	NA	NA	NA	NA	NA	NI	NA
Nov-07	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	1,900	NA	NA	1,500	NA	NI	NA
Jun-08	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA	NA	NA	NA	NA	0.9 I*	NA
Jun-09	110	NA	NA	1.50	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	650	NA	190	460	3,100	NA	NA
Jul-10	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	0.20 U	NA	NA	NA	NA	NA	NA	NA
Dec-10	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	34	NA	NA	6200	NA	NA	NA	15,000
Mar-11	120	0.2 U	0.21 U	0.21 U	0.2 U	1.4	1.0 U	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	590	28	NA	50	5,100	1.0 U	NA
Nov-11	NA	NA	NA	NA	0.2 U	0.2	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	590	490	50	NA	7,000	NA	7,700
Jun-12	55	NA	0.25 U	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA	NA	NA	NA	NA	NA	NA
Aug-12	NA	0.3 U	NA	NA	0.3 U	0.2	0.2 U	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	0.30 U	5.5	1,900	56	1,500	2,300	2.2	2,500
Mar-13	1.4	1.7	NA	NA	NA	NA	0.3	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	0.30 U	4.6	2,200	54	1,200	820	0.3 U	2,500
Aug-13	300 D	<0.16	NA	NL	<0.16 U	1.3	1.5	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	17.0	<0.16	350	36	950	4,500	4.6	11,000 D
Feb-14	482 D	<0.160	1.20 U	NL	<0.16 U	<0.160 U	<0.160 U	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	15	14.1	606	76	17.8	4,550	8.8	7,960 D
Jul-14	285 D	<0.16	2.61	NL	<0.16 U	<0.16 U	<0.16 U	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	22.0	5.53	94.7	2650 D	79.6	2,000 D	<0.16	44,700 D
Oct-14	71	<0.15 U	1.2	NL	<0.15 U	<0.15 U	<0.15 U	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	3.1	31.00	<1.5 U	3900	530	840	<0.30 U	17,000
Jan-15	280	<0.74	2.6	NL	<0.74 U	<0.74 U	<0.74 U	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	150	0.99 J	<0.74 U	<37 U	11	1,100	<0.74 U	400
Apr-15	370	<0.74 U	2.7	NL	<0.74 U	<0.74 U	<0.74 U	<0.74 U	<0.74 U	<0.74 U	<0.74 U	<0.74 U	36	<3.7 U	<3.7 U	<0.74 U	<0.74 U	<0.74 U	<7.4 U	<0.74 U	150	6.0	NS	NS	<0.74 U	NS	NS	NS
Oct-15	190	<0.74 U	3.5	NL	<0.74 U	<0.74 U	<0.74 U	<0.74 U	<0.74 U	<0.74 U	<0.74 U	0.98 J	30	<3.7 U	<0.74 U	<0.74 U	<0.74 U	<0.74 U	<0.74 U	<0.74 U	58	<0.74 U	NS	NS	<0.74	NS	NS	NS
Trichloroethylene (TCE)	Type 4 RRS (µg/L)			5	Delineation Criteria (µg/L)			5																				
Mar-93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-94	680.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Feb-96	1600.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-96	260.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Sep-96	11.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Oct-96	5,805.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Apr-97	U	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jul-97	8,700.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Oct-97	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	121.0	NI	NI	NI	NI	NI	NI	NI
Feb-98	3,560.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Jul-98	13,000.0	40.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Nov-98	26,200.0	2,010.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Feb-99	5,220.0	24.6	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Oct-99	15,000.0	76.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
May-00	7,158.0	389.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	8.3	NI	NI	NI	NI	NI	NI	NI
Jan-01	2,290.0	4.0	<1	<1	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	5.3	NI	NI	NI	NI	NI	NI	NI
Aug-01	4,300.0	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Aug-01	4,300.0	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Nov-01	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Dec-01	NA	NA	2.9	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Jan-02	NA	7.5	<1	<1	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	3.8	NI	NI	NI	NI	NI	NI	NI
Sep-02	NA	NA	<1	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	6.1	NI	380.0	180.0	NI	NI	NI	NI
Oct-03	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	<0.43	NI	NA	NA	NI	NI	NI	NI
Jan-04	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	2,000.0	1,300.0	430.0	NI	NI	NI	NI
Nov-04	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	200.0	4,900.0	NA	NI	NI	NI	NI
May-05	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA	NA	NA	NI	NI	NI	NI
Jun-05	NA	2.0	<1	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA	NA	NA	NI	NI	NI	NI
Jul-05	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	<1	1,400.0	4,300.0	<20	NI	NI	NI	NI
Dec-05	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA	NA	NA	1,800	160	NI	1,300
Oct-06	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	465.0	559.0	414	3,500	540	NI	5,440
Apr-07	NA	NA	NA	3.5	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	2.1	NA	NA	NA	NA	NA	NI	NA
Nov-07	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	<10	NA	4200	2,300	NA	NI	NA
Jun-08	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA	NA	NA	NA	NA	33.0	NA
Jun-09	97	NA	NA	2.1	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	140	NA	770	590	3,800	NA	NA
Jul-10	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	30	NA	NA	NA	NA	NA	NA	NA
Dec-10	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	0.3 U	NA	NA	4600	NA	NA	NA	7,800
Mar-11	260	0.2	0.21	0.24 U	0.24 U	2.1	130.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	320	230	NA	910	1,600	1.2 U	NA

McKenzie Tank Lines, Port Wentworth, GA

Table 3-3: Groundwater Constituent of Concern Cumulative Analytical Results Table

Constituent of Concern/Well ID	Deep Wells																												
Date	MW-2D	MW-11D	MW-14D	MW-15D	MW-26	MW-35	MW-36	MW-38D	MW-39D	MW-41D	MW-43D	MW-44D	MW-47D	MW-49D	MW-51D	MW-52D	MW-53D	MW-54D	MW-55D	MW-56D	PAW-4	RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	RW-7
Nov-11	NA	NA	NA	NA	0.24 U	0.24 U	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	320	130	330	960	2,600	NA	3,500
Jun-12	160	NA	0.25	NL	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA	NA	NA	NA	NA	NA	NA
Aug-12	NA	0.3	NA	NA	0.17 U	0.24 U	0.67 I*	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	150	13	5,500	280	1,700	3,900	3.3	1,800
Mar-13	12	1.7	0.25	NL	NA	NA	0.57 J	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.0	12	1,700	300	1,200	1,400	1.2	2,300
Aug-13	490	<0.16	<0.16	NL	<0.19	<0.19	<0.19	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.0	0.57 J	680 D	430	760 D	1,200 D	0.96 J	5,700 D
Feb-14	715	<0.160	1.2	NL	<0.160	<0.190	<0.190	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	15.3	9.18	1,180 D	595	13	1,440 D	5.3	4,010 D
Jul-14	1000 D	<0.19	2.26	NA	<0.19	<0.19	<0.19	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	<0.19	<0.19	198	3,870 D	67.1	1,550 D	<0.19	38,200 D
Oct-14	370	<0.13 U	1.2	NL	<0.13 U	<0.13 U	<0.13 U	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	2.6	37	3.3 J	7,400	660	1,000	0.37 J	11,000
Jan-15	1100	<0.48 U	2.2	NL	<0.48 U	<0.48 U	<0.48 U	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	37	1.8	2.0	34 J	29	1,700	<0.48 U	740
Apr-15	1200	<0.48 U	2.0	NL	<0.48 U	<0.48 U	<0.48 U	<0.48 U	<0.48 U	<0.48 U	<0.48 U	11	29	2.4 J	<2.4 U	<0.48 U	<0.48 U	<0.48 U	<4.8 U	<0.48 U	29	4.3	NS	NS	0.94 J	NS	NS	NS
Oct-15	920	<0.48 U	2.1	NL	<0.48 U	<0.48 U	<0.48 U	<0.48 U	<0.48 U	<0.48 U	<0.48 U	17	23	<2.4 U	<0.48 U	<0.48 U	<0.48 U	<0.48 U	<0.48 U	<0.48 U	25	<0.48 U	NS	NS	0.65 J	NS	NS	NS
cis-1,2-Dichloroethylene	Type 4 RRS (µg/L)			204	Delineation Criteria (µg/L)			70																				
Mar-93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-94	U	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Feb-96	<.21	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-96	<0.21	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Sep-96	<0.21	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Oct-96	<0.21	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Apr-97	U	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jul-97	<.21	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Oct-97	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	3,990.0	NI	NI	NI	NI	NI	NI	NI
Feb-98	3,450.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Jul-98	<0.21	U	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Nov-98	11,200.0	766.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Feb-99	7,680.0	42.9	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	1,250.0	NI	NI	NI	NI	NI	NI	NI
Oct-99	14,000.0	95.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
May-00	9,470.0	422.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	131.0	NI	NI	NI	NI	NI	NI	NI
Jan-01	2,280.0	3.5	<1	<1	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	79.7	NI	NI	NI	NI	NI	NI	NI
Aug-01	5,400.0	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Aug-01	5,200.0	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Nov-01	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Dec-01	NA	NA	1.6	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Jan-02	NA	3.9	<1	<1	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	61.0	NI	NI	NI	NI	NI	NI	NI
Sep-02	NA	NA	<1	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	17.0	NI	630.0	1,500.0	NI	NI	NI	NI
Oct-03	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.8	NI	NA	NA	NI	NI	NI	NI
Jan-04	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	2,300.0	1,500.0	4,200.0	NI	NI	NI	NI
Nov-04	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	4.4	2,800.0	7,000.0	NA	NI	NI	NI	NI
May-05	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA	NA	NA	NI	NI	NI	NI
Jun-05	NA	10.0	<1	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	4.0	NA	NA	NA	NI	NI	NI	NI
Jul-05	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	1,700.0	7,600.0	<20	NI	NI	NI	NI
Dec-05	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA	NA	NA	2,000	120	NI	81,000
Oct-06	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	804.0	1,990.0	3,110.0	4,220	2,090	NI	16,500
Apr-07	NA	NA	NA	4.8	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	4.3	NA	NA	NA	2,100	NA	NI	NA
Nov-07	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NL	1,100.0	NA	6,300.0	NA	NA	NI	NA
Jun-08	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA	NA	NA	NA	NA	11.0	NA
Jun-09	360	NA	NA	3.2	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	200.0	NA	4,100.0	2,200	9,300	37.0	NA
Jul-10	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	200.0	NA	NA	NA	NA	NA	NA	NA
Dec-10	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	2.5	NA	NA	8,500.0	NA	NA	NA	8,700
Mar-11	1,800	18.0	0.22 U	0.22 U	0.22 U	14.0	300.0	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	850.0	3,500	NA	2,900	7,600	2.8 J	NA
Nov-11	NA	NA	NA	NA	0.22 U	0.22 U	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	850.0	170	2,700.0	2,900	20,000	NA	6,700
Jun-12	650	NA	0.33 U	NL	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA	NA	NA	NA	NA	NA	NA
Aug-12	NA	0.7 J	NA	NA	0.33 U	0.22 U	3.9	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	12	37	6,700	1,200	3,100	5,800	1.7	4,400
Mar-13	61	0.3 J	1.6	NL	NA	NA	2.6	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	14	30	7,400	1,700	2,600	4,100	1.7	7,400
Aug-13	890 D	1.7	2.6	NL	<0.21	<0.21	2.5	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	86	6.9	4,800 D	3,500 D	1,200 D	9,200 D	3.3	11,000
Feb-14	4,610 D	<0.210	5.16	NL	<0.21	<0.21	0.73 J	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	43	31.2	2,760 D	3,170 D	20.7	1,840 D	8.24	10,200
Jul-14	1,780 D	<0.21	7.31	NA	<0.21	<0.21	<0.21	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	59	21	1,000 D	6,990 D	87.4	3,070 D	6.4	78,900 D
Oct-14	1,600	0.96 J	4.0	NL	<0.15 U	<0.15 U	1.4	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	74	58	1,100	11,000	850	2,000	120	19,000
Jan-15	3,100	<0.41 U	5.7	NL	<0.41 U	<0.41 U	1.1	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	66	9.5	7.0	5,300	28.0	4,600	6.0	5,100
Apr-15	4,600	<0.41 U	5.2	NL	<0.41 U	<0.41 U	1.0	<0.41 U	<0.41 U	<0.41 U	<0.41 U	18	39	450	400	<0.41 U	2.9	8.0	1,600	1.7	38	8.8	NS	NS	1.8	NS	NS	NS
Oct-15	2,900	<0.41 U	4.7	NL	<0.41 U	<0.41 U	0.74 J	<0.41 U	<0.41 U	<0.41 U	<0.41 U	30	39	340	7.2	<0.41 U	1.5	8.7	3.8	<0.41 U	36	17	NS	NS	2.7	NS	NS	NS
Vinyl Chloride	Type 4 RRS (µg/L)			3	Delineation Criteria (µg/L)			2																				
Mar-93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-94	U	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Feb-96	31	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-96	1,000	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Sep-96	1,300	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Oct-96	676	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Apr-97	140	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jul-97	5,400	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Oct-97	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	678.0	NI	NI	NI	NI	NI	NI	NI
Feb-98	120	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Jul-98	620	U	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Nov-98	561	2.6	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Feb-99	187	U	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	467.0	NI	NI	NI	NI	NI	NI	NI
Oct-99	900	1.2	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
May-00	386	7.9	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	122.0	NI	NI	NI	NI	NI	NI	NI
Jan-01	102	<1	<1	<1	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	144.0	NI	NI	NI	NI	NI	NI	NI
Aug-01	250	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Aug-01	360	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Nov-01	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Dec-01	NA	NA	<1	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NI	NI	NI	NI	NI	NI	NI
Jan-02	NA	<1	<1	<1	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	66.0	NI	NI	NI	NI	NI	NI	NI
Sep-02	NA	NA	<1	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	13.0	NI	<1	52.0	NI	NI	NI	NI
Oct-03	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	28.0	NI	NA	NA	NI	NI	NI	NI
Jan-04	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	150.0	68.0	350.0	NI	NI	NI	NI
Nov-04	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.2	300.0	290.0	NA	NI	NI	NI	NI
May-05	NA	NA	NA	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA	NA	NA	NI	NI	NI	NI

McKenzie Tank Lines, Port Wentworth, GA

Table 3-3: Groundwater Constituent of Concern Cumulative Analytical Results Table

Constituent of Concern/Well ID — Deep Wells

Date	MW-2D	MW-11D	MW-14D	MW-15D	MW-26	MW-35	MW-36	MW-38D
Jun-05	NA	<1 U	NA	NA	NI	NI	NI	NI
Jul-05	NA	NA	<1	NA	NI	NI	NI	NI
Dec-05	NA	NA	NA	NA	NI	NI	NI	NI
Oct-06	NA	NA	NA	NA	NI	NI	NI	NI
Apr-07	NA	NA	NA	<0.4	NI	NI	NI	NI
Nov-07	NA	NA	NA	NA	NI	NI	NI	NI
Jun-08	NA	NA	NA	NA	NI	NI	NI	NI
Jun-09	38	NA	NA	0.48 U	NI	NI	NI	NI
Jul-10	NA	NA	NA	NA	NI	NI	NI	NI
Dec-10	NA	NA	NA	NA	NI	NI	NI	NI
Mar-11	130	3.1	0.33 U	0.33 U	0.3 U	0.3 U	9.0	NI
Nov-11	NA	NA	NA	NA	0.3 U	0.3 U	NA	NI
Jun-12	70.0	NA	0.18 U	NL	NA	NA	NA	NI
Aug-12	NA	0.5 J	NA	NA	0.2 U	0.3 U	0.3 U	NI
Mar-13	32	0.2 U	0.18 U	NL	NA	NA	0.2 U	NI
Aug-13	92	<0.19 U	<0.19 U	NL	<0.19	<0.19	<0.19	NI
Feb-14	270 D	<0.19 U	<0.19 U	NL	<0.19	<0.19	<0.19	NI
Jul-14	162	<0.19 U	<0.19 U	NA	<0.190	<0.19	<0.19	NI
Oct-14	290	<0.18 U	<0.18 U	NL	<0.18 U	<0.18 U	<0.18 U	NI
Jan-15	220	<0.50 U	<0.50 U	NL	<0.50 U	<0.50 U	<0.50 U	NI
Apr-15	270	<0.50 U	<0.50 U	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Oct-15	380	<0.50 U	<0.50 U	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U

Date	MW-39D	MW-41D	MW-43D	MW-44D	MW-47D	MW-49D	MW-51D	MW-52D	MW-53D	MW-54D	MW-55D	MW-56D
Jun-05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jul-05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Dec-05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Oct-06	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Apr-07	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Nov-07	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jun-08	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jun-09	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jul-10	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Dec-10	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Nov-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jun-12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Aug-12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-13	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Aug-13	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Feb-14	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jul-14	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Oct-14	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jan-15	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Apr-15	<0.50 U	<0.50 U	<0.50 U	0.5 J	<0.50 U	21	120	<0.50 U	<0.50 U	12.0	140	<0.50 U
Oct-15	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	11	6.6	<0.50 U	<0.50 U	14	3.5	<0.50 U

Date	PAW-4	RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	RW-7
Jun-05	NA	NA	NA	NA	NI	NI	NI	NI
Jul-05	10.0	180.0	620.0	<20	NI	NI	NI	NI
Dec-05	NA	NA	NA	NA	82.0	<5	NI	130.0
Oct-06	NA	121.0	<40	139.0	196.0	69.8	NI	262.0
Apr-07	3.8	NA	NA	190.0	NA	NA	NI	NA
Nov-07	NL	130.0	NA	NA	150.0	NA	NI	NA
Jun-08	NA	NA	NA	NA	NA	NA	<0.52	NA
Jun-09	NA	52.0	NA	100.0	170.0	89.0	0.7 J	NA
Jul-10	33.0	NA	NA	NA	NA	NA	NA	NA
Dec-10	33.0	NA	NA	190.0	NA	NA	NA	160.0
Mar-11	NA	47.0	430.0	NA	280.0	970	1.6 U	NA
Nov-11	NA	47.0	38.0	68.0	110.0	1,600	NA	130.0
Jun-12	NA	NA	NA	NA	NA	NA	NA	NA
Aug-12	1.4	4.7	210	34	96	170	0.2 U	100
Mar-13	3.7	9.8	340	76	250	200	0.2 U	240
Aug-13	25	3.8	370 D	160	42	650	<0.19	490 D
Feb-14	3.7	5.6	206 D	162	3.4	91.9	<0.19	355
Jul-14	12.2	4.14	76.2	236 D	4.04	88.5	<0.19	573
Oct-14	37	22	280	330	43	62	4.5	780
Jan-15	5.0	3.0	2.1	370	2.1	220	<0.50 U	550
Apr-15	3.1	1.1	NS	NS	0.83 J	NS	NS	NS
Oct-15	4.2	3.2	NS	NS	<0.50 U	NS	NS	NS

Notes:

110.0

0.3

All data prior to August 2013 reported by previous environmental consultants
U = Value is below detection limits
NA = Well not accessible
NS = Well not sampled
NI = Well not installed
NU = Well not utilized in groundwater sampling program
NL = Well not located
< = less than method detection limit (MDL)
J = this is an estimated value that is above the MDL but below the practical quantitation limit.
I*= not certain

Table 3-4: Historical Groundwater Potentiometric Surface Elevations

Well ID # (Well Diameter, in.)	TOC Elevation (ft.)	Groundwater Potentiometric Surface Elevation (ft.)					MW Min.* (ft.)	MW Max.* (ft.)	MW Range* (ft.)	MW Avg.* (ft.)	MW Var.* (ft.)
		Jul-14	Oct-14	Jan-15	Apr-15	Oct-15					
Shallow Wells											
G-17 (1)	8.94	6.40	3.94	6.39	6.26	4.79	3.94	6.40	2.46	5.56	1.28
G-19 (1)	9.85	5.94	3.40	5.67	5.48	4.80	3.40	5.94	2.54	5.06	1.04
G-22 (1)	9.36	4.05	2.59	4.33	4.28	3.51	2.59	4.33	1.74	3.75	0.53
MW-2S (2)	11.54	8.93	7.17	9.20	10.49	8.73	7.17	10.49	3.32	8.90	1.41
MW-4S (2)	10.86	5.29	4.58	5.67	6.03	5.21	4.58	6.03	1.45	5.36	0.30
MW-15S (1)	8.27	5.47	3.72	5.59	5.51	4.53	3.72	5.59	1.87	4.96	0.67
MW-29 (1)	9.39	7.31	5.35	6.93	7.43	6.22	5.35	7.43	2.08	6.65	0.75
MW-31 (1)	11.96	6.76	5.81	5.88	7.05	6.47	5.81	7.05	1.24	6.39	0.29
MW-32 (1)	12.02	7.00	6.04	7.24	7.51	6.82	6.04	7.51	1.47	6.92	0.31
MW-33 (1)	8.48	5.61	3.70	5.63	NM	4.36	3.70	5.63	1.93	4.83	0.92
MW-37S (2)	10.14	NI	NI	NI	5.59	5.21	5.21	5.59	0.38	5.40	0.07
MW-40S (2)	5.57	NI	NI	NI	5.39	4.48	4.48	5.39	0.91	4.93	0.41
MW-42S (2)	10.71	NI	NI	NI	7.22	6.47	6.47	7.22	0.75	6.84	0.28
MW-45S (2)	13.74	NI	NI	NI	7.93	7.27	7.27	7.93	0.66	7.60	0.22
MW-46S (2)	14.01	NI	NI	NI	7.90	7.67	7.67	7.90	0.23	7.79	0.03
MW-48S (2)	13.56	NI	NI	NI	8.32	7.46	7.46	8.32	0.86	7.89	0.37
MW-50S (2)	11.18	NI	NI	NI	6.72	5.75	5.75	6.72	0.97	6.24	0.47
PAW-3 (2)	11.83	7.31	6.38	7.41	7.99	7.33	6.38	7.99	1.61	7.28	0.33
MW-U2 (2)	10.91	NL	NL	6.93	8.73	7.92	6.93	8.73	1.80	7.86	0.81
Event Min.*[2] (ft.)		4.05	2.59	4.33	4.28	3.51	**Global Min.*[2] (ft.)**		2.59		
Event Max.*[2] (ft.)		8.93	7.17	9.20	10.49	8.73	**Global Max.*[2] (ft.)**		10.49		
Event Range*[2] (ft.)		4.88	4.58	4.87	6.21	5.22	**Global Range*[2] (ft.)**		7.90		
Event Avg.*[2] (ft.)		6.37	4.79	6.41	6.99	6.05	**Global Avg.*[2] (ft.)**		6.12		
Event Var.*[2] (ft.)		1.70	2.10	1.55	2.24	2.12	**Global Var.*[2] (ft.)**		2.37		

Table 3-4: Historical Groundwater Potentiometric Surface Elevations

Well ID # (Well Diameter, in.)	TOC Elevation (ft.)	Groundwater Potentiometric Surface Elevation (ft.)					MW Min.* (ft.)	MW Max.* (ft.)	MW Range* (ft.)	MW Avg.* (ft.)	MW Var.* (ft.)
		Jul-14	Oct-14	Jan-15	Apr-15	Oct-15					
Deep Wells											
MW-2D (2)	11.39	6.76	6.16	7.34	7.41	6.97	6.16	7.41	1.25	6.93	0.26
MW-11D (2)	16.07	7.87	7.04	8.15	9.08	7.92	7.04	9.08	2.04	8.01	0.53
MW-14D (2)	12.06	6.87	5.38	6.09	6.44	5.86	5.38	6.87	1.49	6.13	0.32
MW-26 (1)	8.42	5.30	5.00	5.86	NM	5.50	5.00	5.86	0.86	5.42	0.13
MW-35 (0.75)	6.28	NL	NM	NM	6.08	5.57	5.57	6.08	0.51	5.83	0.13
MW-36 (0.75)	9.86	5.49	4.94	6.05	6.16	5.78	4.94	6.16	1.22	5.68	0.24
MW-38D (2)	10.08	NI	NI	NI	5.54	4.94	4.94	5.54	0.60	5.24	0.18
MW-39D (2)	7.25	NI	NI	NI	5.07	4.42	4.42	5.07	0.65	4.75	0.21
MW-41D (2)	9.59	NI	NI	NI	6.67	5.97	5.97	6.67	0.70	6.32	0.25
MW-43D (2)	10.77	NI	NI	NI	7.16	6.58	6.58	7.16	0.58	6.87	0.17
MW-44D (2)	13.83	NI	NI	NI	7.45	6.94	6.94	7.45	0.51	7.19	0.13
MW-47D (2)	13.63	NI	NI	NI	7.66	7.20	7.20	7.66	0.46	7.43	0.11
MW-49D (2)	11.09	NI	NI	NI	6.44	5.74	5.74	6.44	0.70	6.09	0.24
MW-51D (2)	9.87	NI	NI	NI	6.10	5.26	5.26	6.10	0.84	5.68	0.35
MW-52D (2)	8.29	NI	NI	NI	5.60	5.16	5.16	5.60	0.44	5.38	0.10
MW-53D (2)	7.62	NI	NI	NI	6.30	5.56	5.56	6.30	0.74	5.93	0.27
MW-54D (2)	10.91	NI	NI	NI	7.09	6.30	6.30	7.09	0.79	6.70	0.31
MW-55D (2)	11.78	NI	NI	NI	6.76	6.18	6.18	6.76	0.58	6.47	0.17
MW-56D (2)	10.68	NI	NI	NI	7.37	6.55	6.55	7.37	0.82	6.96	0.34
PAW-4 (2)	11.99	6.67	5.99	6.96	7.49	6.77	5.99	7.49	1.50	6.78	0.29
RW-1 (4)	11.69	7.18	6.34	7.63	8.58	7.26	6.34	8.58	2.24	7.40	0.66
RW-2 (4)	9.24	6.62	5.76	7.03	NM	NM	5.76	7.03	1.27	6.47	0.42
RW-3 (6)	7.58	5.64	4.80	5.80	NM	NM	4.80	5.80	1.00	5.41	0.29
RW-4 (6)	13.25	6.90	6.15	7.27	8.10	7.19	6.15	8.10	1.95	7.12	0.49
RW-5 (6)	11.71	6.76	5.94	7.06	NM	NM	5.94	7.06	1.12	6.59	0.34
RW-6 (6)	10.12	5.44	4.67	5.64	NM	NM	4.67	5.64	0.97	5.25	0.26
RW-7 (6)	8.63	5.13	4.75	5.88	NM	NM	4.75	5.88	1.13	5.25	0.33
Event Min.*[2] (ft.)		5.13	4.67	5.64	5.07	4.42	**Global Min.*[2] (ft.)**		4.42		
Event Max.*[2] (ft.)		7.87	7.04	8.15	9.08	7.92	**Global Max.*[2] (ft.)**		9.08		
Event Range*[2] (ft.)		2.74	2.37	2.51	4.01	3.50	**Global Range*[2] (ft.)**		4.66		
Event Avg.*[2] (ft.)		6.36	5.61	6.67	6.88	6.16	**Global Avg.*[2] (ft.)**		6.34		
Event Var.*[2] (ft.)		0.73	0.55	0.68	1.02	0.78	**Global Var.*[2] (ft.)**		0.93		

Notes:

Top of casing (TOC) elevations are based on surveys conducted by Brewer Land Surveying in October 2013 and EMC Engineering Services in June 2015.

*** = Event Min, Max, Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for each respective groundwater gauging event.

***[2] = MW Min., Max., Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for each monitoring well throughout all gauging events from July 2014 to October 2015 where available.

***[3]= Global Min., Max., Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for all monitoring wells throughout all events from July 2014 to October 2015

NI - Not Installed NA - Not Applicable

NL - Not Located NM - Not Measured

Table 4-1: McKenzie Tank Lines, Port Wentworth, GA
Post-Excavation Confirmatory Soil Sampling Analytical Results

Sample ID (Sample Depth, ft.)	Sample Date/Time	Tetrachloroethene (PCE)		Trichloroethene (TCE)		Cis-1,2-Dichloroethene (DCE)		Vinyl Chloride (VC)		Benzene		Toluene		Ethylbenzene		Total Xylenes	
		Delineation Criteria 180 (µg/kg)		Delineation Criteria 130 (µg/kg)		Delineation Criteria 530 (µg/kg)		Delineation Criteria 40 (µg/kg)		Delineation Criteria 20 (µg/kg)		Delineation Criteria 14,000 (µg/kg)		Delineation Criteria 20,000 (µg/kg)		Delineation Criteria 20,000 (µg/kg)	
		Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag
AOC1-SB-C(2.0-2.5)	3/31/2015 13:53	<1.8		<1.2		<1.3		<1.4		<0.67		<0.77		<1.2		<1.0	
AOC1-SB-C(2.5-3.0)	3/31/2015 13:59	<1.8		<1.2		<1.3		<1.4		<0.69		<0.79		<1.2		<1.0	
AOC1-SB-E(2.5-3.0)	3/31/2015 14:17	<1.7		<1.2		<1.3		<1.4		<0.66		<0.76		<1.2		<1.0	
AOC1-SB-E(3.5-4.0)	3/31/2015 14:19	<1.8		<1.2		<1.3		<1.4		<0.68		<0.78		<1.2		<1.0	
AOC1-SB-N(2.5-3.0)	3/31/2015 14:44	<1.1		<0.76		<0.82		<0.88		<0.43		<0.49		<0.76		<0.64	
AOC1-SB-N(3.5-4.0)	3/31/2015 14:48	<1.5		<1.0		<1.1		<1.2		<0.57		<0.65		<1.0		<0.86	
AOC1-SB-S(2.5-3.0)	3/31/2015 14:27	<1.3		<0.88		<0.95		<1.0		<0.50		<0.57		<0.88		<0.75	
AOC1-SB-S(3.5-4.0)	3/31/2015 14:33	<1.6		<1.1		<1.2		<1.3		<0.63		<0.72		<1.1		<0.94	
AOC1-SB-W(2.0-2.5)	3/31/2015 14:02	<1.1		<0.76		<0.82		<0.88		<0.43		<0.49		<0.76		<0.65	
AOC1-SB-W(2.5-3.0)	3/31/2015 14:06	<1.9		<1.3		<1.4		<1.5		<0.72		<0.82		<1.3		<1.1	
AOC2-SB-C(2.0-2.5)	3/31/2015 12:16	<1.7		<1.1		<1.2		<1.3		<0.64		<0.73		<1.1		<0.96	
AOC2-SB-C(3.5-4.0)	3/31/2015 12:19	<2.7		<1.9		<2.0		<2.2		<1.0		<1.2		<1.9		<1.6	
AOC2-SB-E(2.0-2.5)	3/31/2015 12:02	<1.4		<0.98		<1.1		<1.1		<0.55		<0.63		**2.7**	J	**19**	
AOC2-SB-E(3.5-4.0)	3/31/2015 12:07	<1.9		<1.3		<1.4		<1.5		<0.72		**3.0**	J	<1.3		**3.6**	J
AOC2-SB-N(2.0-2.5)	3/31/2015 12:27	<1.1		<0.78		<0.84		<0.90		<0.44		<0.51		<0.78		<0.66	
AOC2-SB-N(3.5-4.0)	3/31/2015 12:30	<1.5		<1.0		<1.1		<1.2		<0.58		<0.67		<1.0		<0.88	
AOC2-SB-S(2.0-2.5)	3/31/2015 12:39	<1.6		<1.1		<1.2		<1.3		<0.62		<0.71		<1.1		<0.93	
AOC2-SB-S(3.5-4.0)	3/31/2015 12:41	<1.4		<0.94		<1.0		<1.1		<0.53		<0.61		<0.94		<0.79	
AOC2-SB-W(2.0-2.5)	3/31/2015 12:50	<1.2		<0.83		<0.89		<0.96		<0.47		<0.54		<0.83		<0.70	
AOC2-SB-W(3.5-4.0)	3/31/2015 12:56	<1.9		<1.3		<1.4		<1.5		<0.73		<0.83		<1.3		<1.1	
AOC3-SB-C(2.0-2.5)	3/31/2015 10:38	<1.4		<0.98		<1.1		<1.1		<0.55		<0.63		<0.98		**0.84**	J
AOC3-SB-C(3.5-4.0)	3/31/2015 10:43	<1.5		<1.1		<1.1		<1.2		<0.59		<0.68		<1.1		<0.89	
AOC3-SB-E(2.5-3.0)	3/31/2015 10:22	**10**		**1.6**	J	<0.97		<1.0		<0.51		<0.58		<0.90		<0.76	
AOC3-SB-E(3.5-4.0)	3/31/2015 10:25	**1,200**		**590**		**280**	J*	<120		<60		<69		<110		<90	
AOC3-SB-E-5E(3.0-3.5)	10/20/2015 9:15	<1.9		<1.3		<1.4		<1.5		<0.74		<0.85		<1.3		<1.1	
AOC3-SB-E-5E(4.5-5.0)*	10/20/2015 9:24	<1.6		<1.1		<1.2		<1.3		<0.62		<0.72		<1.1		<0.94	
AOC3-SB-E-5N(3.5-4.0)	10/20/2015 10:20	<1.7		<1.2		<1.2		<1.3		<0.65		<0.74		<1.2		<0.98	
AOC3-SB-E-5S(3.0-3.5)	10/20/2015 10:45	<2.0		<1.4		<1.5		<1.6		<0.78		<0.89		<1.4		<1.2	
AOC3-SB-N(2.0-2.5)	1/20/2015 10:50	<0.85		<0.58		<0.62		<0.67		<0.33		<0.37		<0.58		<0.49	
AOC3-SB-N(3.5-4.0)	1/20/2015 10:50	<0.85		<0.58		<0.62		<0.67		<0.32		<0.37		<0.58		<0.49	
AOC3-SB-S(2.5-3.0)	3/31/2015 10:58	<1.9		<1.3		<1.4		<1.5		<0.74		<0.85		<1.3		<1.1	
AOC3-SB-S(3.5-4.0)	3/31/2015 11:03	<1.4		<0.99		<1.1		<1.1		<0.56		<0.64		<0.99		<0.84	
AOC3-SB-W(2.0-2.5)	3/31/2015 10:47	<1.9		<1.3		<1.4		<1.5		<0.74		<0.85		<1.3		**1.2**	J
AOC3-SB-W(3.5-4.0)	3/31/2015 10:51	<1.1		<0.77		<0.83		<0.88		<0.43		<0.50		<0.77		<0.65	
AOC4-SB-BLD-NE(1.5-2.0)	4/1/2015 10:27	<1.3		<0.88		<0.95		<1.0		<0.49		<0.57		<0.88		<0.75	
AOC4-SB-BLD-NW(2.0-2.5)	4/1/2015 10:20	<410		<280		**20,000**		**690**	J	<160		**220**	J	<280		<240	
AOC4-SB-BLD-NW(2.5-3.0)	4/1/2015 10:23	<250		<170		**14,000**		**800**		<97		**220**	J	<170		<150	
AOC4-SB-BLD-NW-5E(3.0-3.5)	10/20/2015 15:00	<400		<280		**33,000**		<320		<150		<180		<280		<230	
AOC4-SB-BLD-NW-5E(4.5-5.0)	10/20/2015 15:32	**11,000,000**		**150,000**	J	**470,000**	J	<150,000		<73,000		**130,000**	J	<130,000		<110,000	
AOC4-SB-BLD-NW-15E(3.0-3.5)	10/21/2015 12:12	<2.0		<1.4		**3.7**	J	<1.6		<0.76		<0.88		<1.4		<1.1	
AOC4-SB-BLD-NW-15E(4.5-5.0)	10/21/2015 12:39	<2.1		<1.4		**64**		**33**		<0.81		<0.93		<1.4		<1.2	
AOC4-SB-BLD-NW-15N(4.5-5.0)	1/21/2016 15:20	<1.1		<0.76		**11**		**2.1**	J	<0.43		<0.49		<0.76		<0.64	
AOC4-SB-BLD-SE(2.0-2.5)	4/1/2015 10:33	**4.0**		<0.57		**2.4**		<0.66		<0.32		<0.37		<0.57		<0.48	
AOC4-SB-BLD-SW(2.0-2.5)	4/1/2015 10:10	**2.2**	J	<0.94		<1.0		<1.1		<0.53		<0.61		<0.94		<0.80	
AOC4-SB-BLD-SW(3.0-3.5)	4/1/2015 10:15	<0.83		**0.68**	J	**0.87**	J	<0.65		<0.32		<0.37		<0.57		<0.48	
AOC4-SB-C(2.5-3.0)	3/30/2015 15:13	<1.1		<0.77		**22**		**2.2**	J	<0.43		<0.50		<0.77		<0.65	
AOC4-SB-C(4.0-4.5)	3/30/2015 15:17	<300		<200		**18,000**		**1,800**		<110		<130		<200		<170	
AOC4-SB-C-5N(3.0-4.0)	10/20/2015 12:00	<2.4		<1.6		**16.0**		**2.5**	J	<0.90		<1.0		<1.6		<1.4	
AOC4-SB-C-5S(4.5-5.0)	10/20/2015 13:55	<2.0		<1.3		**9.0**		<1.5		<0.75		<0.87		<1.3		<1.1	
AOC4-SB-C-5W(4.5-5.0)	10/20/2015 14:22	<1.7		<1.2		**2.0**	J	<1.3		<0.66		<0.76		<1.2		<0.99	
AOC4-SB-C-NW - 10E(4.5-5.0)	1/21/2016 15:20	<1.0		<0.69		**5.7**		**5.7**		<0.38		<0.44		<0.69		<0.58	
AOC4-SB-E(3.5-4.0)	3/30/2015 14:27	<1.3		<0.91		**110**		**16**		<0.51		<0.59		<0.91		**2.4**	J
AOC4-SB-E(4.0-4.5)	3/30/2015 14:29	<77		<53		**460**		<61		<29		<34		<53		<44	
AOC4-SB-N(2.5-3.0)	3/30/2015 14:44	<0.91		<0.62		<0.67		<0.72		<0.35		<0.40		<0.62		<0.53	
AOC4-SB-N(4.0-4.5)	3/30/2015 14:48	<0.81		<0.55		**1.0**	J	<0.64		<0.31		<0.36		<0.55		<0.47	
AOC4-SB-S(2.5-3.0)	3/30/2015 15:30	**2.2**	J	<0.75		<0.81		<0.87		<0.42		<0.49		<0.75		<0.64	
AOC4-SB-S(4.0-4.5)	3/30/2015 15:33	**1.7**	J	**3.1**		**8.4**		<0.88		<0.43		<0.49		<0.76		**0.81**	J
AOC4-SB-W(2.5-3.0)	3/30/2015 14:51	<0.74		<0.51		**1.3**	J	<0.58		<0.28		**0.78**	J	<0.51		**1.9**	J

Table 4-1: McKenzie Tank Lines, Port Wentworth, GA
Post-Excavation Confirmatory Soil Sampling Analytical Results

Sample ID (Sample Depth, ft.)	Sample Date/Time	Tetrachloroethene (PCE)		Trichloroethene (TCE)		Cis-1,2-Dichloroethene (DCE)		Vinyl Chloride (VC)		Benzene		Toluene		Ethylbenzene		Total Xylenes	
		Delineation Criteria 180 (µg/kg)		Delineation Criteria 130 (µg/kg)		Delineation Criteria 530 (µg/kg)		Delineation Criteria 40 (µg/kg)		Delineation Criteria 20 (µg/kg)		Delineation Criteria 14,000 (µg/kg)		Delineation Criteria 20,000 (µg/kg)		Delineation Criteria 20,000 (µg/kg)	
		Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag
AOC4-SB-W(4.0-4.5)	3/30/2015 15:02	<1.3		<0.86		**36**		<0.99		<0.48		<0.55		<0.86		<0.72	
AOC5-SB-C(2.0-2.5)	3/30/2015 16:18	<0.88		<0.60		<0.64		<0.69		<0.34		<0.39		<0.60		<0.51	
AOC5-SB-C(4.0-4.5)	3/30/2015 16:23	<2.0		<1.3		<1.4		<1.5		<0.75		<0.86		<1.3		<1.1	
AOC5-SB-E(2.5-3.0)	3/30/2015 15:54	<1.4		<0.95		<1.0		<1.1		<0.53		<0.61		<0.95		**0.99**	J
AOC5-SB-E(4.0-4.5)	3/30/2015 16:03	<1.0		<0.71		<0.77		<0.82		<0.40		<0.46		<0.71		<0.60	
AOC5-SB-N(2.0-2.5)	3/31/2015 9:37	<1.1		<0.74		<0.80		<0.85		**0.42**	J	<0.48		<0.74		**1.6**	J
AOC5-SB-N(4.0-4.5)	3/31/2015 9:41	<1.4		<0.96		<1.0		<1.1		<0.54		<0.62		<0.96		<0.82	
AOC5-SB-S(2.0-2.5)	1/20/2015 9:17	<1.8		<1.2		**4.8**		<1.4		<0.69		<0.79		<1.2		<1.0	
AOC5-SB-S(3.0-3.5)	1/20/2015 9:17	<1.6		<1.1		<1.2		<1.2		<0.60		<0.70		<1.1		<0.91	
AOC5-SB-W(2.5-3.0)	3/30/2015 16:29	<1.3		<0.90		<0.97		<1.0		<0.51		<0.58		<0.90		<0.76	
AOC5-SB-W(4.0-4.5)	3/30/2015 16:34	<1.3		<0.92		<0.99		<1.1		<0.52		<0.59		<0.92		<0.78	
AOC6-SD-1(1.0-2.0)	4/1/2015 14:52	<1.8		<1.3		<1.4		<1.5		<0.71		<0.81		<1.3		<1.1	
AOC6-SD-2(1.0-2.0)	4/1/2015 15:14	<0.83		<0.57		**0.79**	J	<0.65		<0.32		<0.37		<0.57		<0.48	
AOC6-SD-3(1.0-2.0)	4/1/2015 15:25	**3,400**		**220**	J	**540**		<100		<49		<57		<88		<74	
AOC6-SD-3-5E(1.0-2.0)	11/9/2015 15:37	<0.72		<0.49		<0.53		<0.57		<0.28		<0.32		<0.49		<0.42	
AOC6-SD-3-10N(1.0-2.0)	11/9/2015 15:44	<100		**130**	J	**6,300**		**400**		<39		**110**	JB	**150**	J	**450**	J
AOC6-SD-3-25N(1.0-2.0)	1/21/2016 15:32	**240,000**		**1,600**		**1,000**		<3100		<1500		<1700		<2700		<2300	
AOC6-SD-3-55N(1.0-2.0)	1/21/2016 15:22	<40		<27		**270**		<32		<15		<18		<27		<23	
AOC6-SD-3-10N-E-Bank(2.5-3.0)	1/21/2016 15:20	<1.1		<0.73		<0.79		<0.84		<0.41		<0.47		<0.73		<0.62	
AOC6-SD-3-25N-E-Bank(2.0-2.5)	1/21/2016 15:22	<1.4		<0.94		**3.8**		<1.1		<0.53		<0.61		<0.94		<0.79	
AOC6-SD-3-55N-E-Bank(1.0-2.0)	1/21/2016 15:37	<1.7		<1.2		<1.3		<1.4		<0.66		<0.76		<1.2		<1.0	
AOC6-SD-3-10N-W-Bank(1.5-2.0)	1/21/2016 15:24	**30,000**		**8,200**		**7,800**		<600		<290		<340		<520		<440	
AOC6-SD-3-25N-W-Bank(2.0-2.5)	1/21/2016 15:24	**11,000**		**1,300**		**2,900**		<140		<68		<78		<120		<100	
AOC6-SD-3-55N-W-Bank(1.0-2.0)	1/21/2016 15:40	**3.4**		<0.56		**58**		<0.65		<0.32		<0.36		<0.56		<0.48	
AOC6-SD-3-10S(1.0-2.0)	11/9/2015 16:00	<35		<24		<25		<27		<13		**20**	JB	**47**	J	**48**	J
AOC6-SD-3-5W(1.0-2.0)	11/9/2015 16:16	**5,000**		**1,400**		**4,100**		<77		<37		**100**	JB	<67		<56	
AOC6-SD-3-20W(2.0-2.5)	1/21/2016 15:32	**65**		**20**		**27**		<0.75		<0.36		<0.42		<0.65		<0.55	
AOC6-SD-4(1.0-2.0)	4/1/2015 15:58	<0.67		<0.46		**0.51**	J	<0.53		<0.26		<0.29		<0.46		<0.39	
AOC7-SB-C(2.5-3.0)	3/31/2015 13:08	**8.9**		<0.66		<0.71		<0.76		<0.37		<0.43		<0.66		<0.56	
AOC7-SB-C(4.0-4.5)	3/31/2015 13:12	**13**		**14**		**28**		<1.5		<0.71		<0.81		<1.3		<1.1	
AOC7-SB-E(2.5-3.0)	3/31/2015 13:37	<1.1		<0.77		<0.83		<0.88		<0.43		<0.50		<0.77		<0.65	
AOC7-SB-E(4.0-4.5)	3/31/2015 13:41	<1.7		<1.2		**3.3**	J	**2.3**	J	<0.66		**1.3**	J	<1.2		**2.0**	J
AOC7-SB-N(2.0-2.5)	1/20/2015 12:15	<0.90		<0.62		<0.66		<0.71		<0.35		<0.40		<0.62		<0.52	
AOC7-SB-N(3.0-3.5)	1/20/2015 12:15	<1.0		<0.71		<0.77		<0.82		<0.40		<0.46		<0.71		<0.60	
AOC7-SB-W(1.0-1.5)	1/20/2015 14:45	<2.9		<2.0		<2.1		<2.3		<1.1		<1.3		<2.0		<1.7	
AOC7-SB-W(3.5-4.0)	1/20/2015 14:45	<1.8		<1.3		<1.4		<1.5		<0.71		<0.81		<1.3		<1.1	
AOC7-SB-S(2.5-3.0)	3/31/2015 13:22	<1.7		<1.2		<1.3		<1.4		<0.67		<0.77		<1.2		<1.0	
AOC7-SB-S(4.0-4.5)	3/31/2015 13:27	<1.4		<0.97		<1.0		<1.1		<0.54		<0.63		<0.97		<0.82	
AOC8-SB-C(1.5-2.0)	4/1/2015 9:15	<2.3		<1.5		<1.7		<1.8		<0.87		<1.0		<1.5		<1.3	
AOC8-SB-E(2.0-2.5)	4/1/2015 9:07	<0.64		<0.44		<0.47		<0.50		<0.25		<0.28		<0.44		<0.37	
AOC8-SB-N(2.5-3.0)	3/31/2015 11:11	<1.1		<0.76		<0.81		<0.87		<0.42		<0.49		**0.84**	J	**8.4**	
AOC8-SB-N(4.0-4.5)	3/31/2015 11:16	<1.5		<1.0		**9.7**		<1.2		<0.56		<0.65		<1.0		<0.85	
AOC8-SB-S(2.5-3.0)	3/31/2015 10:10	<1.4		<0.99		<1.1		<1.1		<0.55		<0.64		**1.9**	J	**14**	
AOC8-SB-S(3.5-4.0)	3/31/2015 10:13	<0.76		<0.52		<0.56		<0.60		<0.29		<0.34		**1.2**	J	**7.6**	
AOC8-SB-W(2.5-3.0)	3/31/2015 9:58	<1.2		<0.83		<0.90		<0.96		<0.47		<0.54		<0.83		<0.71	
AOC8-SB-W(4.0-4.5)	3/31/2015 10:04	<1.1		<0.72		**0.83**	J	<0.83		<0.41		<0.47		<0.72		<0.61	
AOC9-SB-E(2.0-2.5)	3/31/2015 16:48	<0.81		<0.55		<0.60		<0.64		<0.31		<0.36		<0.55		<0.47	
AOC9-SB-N(1.5-2.0)	3/31/2015 16:38	<0.98		<0.67		<0.72		<0.77		<0.38		<0.43		<0.67		**2.5**	J
AOC9-SB-S(2.0-2.5)	4/1/2015 8:55	<1.3		<0.92		<0.99		<1.1		<0.52		<0.59		<0.92		<0.78	
AOC9-SB-S(3.0-3.5)	4/1/2015 9:00	<0.81		<0.55		<0.60		<0.64		<0.31		<0.36		<0.55		<0.47	
AOC9-SB-W(2.0-2.5)	3/31/2015 16:18	<1.7		<1.1		<1.2		<1.3		<0.64		<0.74		<1.1		<0.97	
AOC10-SB-C(2.0-2.5)	3/30/2015 14:00	<0.96		<0.66		<0.71		<0.76		<0.37		<0.43		<0.66		<0.56	
AOC10-SB-C(4.0-4.5)	3/30/2015 14:05	<0.89		<0.61		<0.66		<0.70		<0.34		<0.39		<0.61		<0.52	
AOC10-SB-E(2.0-2.5)	3/30/2015 14:07	<0.96		<0.66		**1.2**	J	<0.76		<0.37		<0.42		<0.66		<0.56	
AOC10-SB-E(4.0-4.5)	3/30/2015 14:11	<1.3		<0.88		**4.1**		<1.0		<0.50		<0.57		<0.88		**2.7**	J
AOC10-SB-N(1.5-2.0)	1/19/2015 17:01	<1.3		<0.91		<0.98		<1.0		<0.51		<0.59		<0.91		<0.77	
AOC10-SB-N(5.5-6.0)	1/19/2015 17:01	<0.98		<0.67		**1.0**	J	<0.77		<0.38		<0.43		<0.67		<0.57	
AOC10-SB-S(2.5-3.0)	3/30/2015 13:40	<1.1		<0.74		<0.79		<0.85		<0.41		<0.48		**0.94**	J	**5.1**	J

Table 4-1: McKenzie Tank Lines, Port Wentworth, GA
Post-Excavation Confirmatory Soil Sampling Analytical Results

Sample ID (Sample Depth, ft.)	Sample Date/Time	Tetrachloroethene (PCE)		Trichloroethene (TCE)		Cis-1,2-Dichloroethene (DCE)		Vinyl Chloride (VC)		Benzene		Toluene		Ethylbenzene		Total Xylenes	
		Delineation Criteria 180 (µg/kg)		Delineation Criteria 130 (µg/kg)		Delineation Criteria 530 (µg/kg)		Delineation Criteria 40 (µg/kg)		Delineation Criteria 20 (µg/kg)		Delineation Criteria 14,000 (µg/kg)		Delineation Criteria 20,000 (µg/kg)		Delineation Criteria 20,000 (µg/kg)	
		Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag	Result (µg/kg)	Flag
AOC10-SB-S(3.5-4.0)	3/30/2015 13:47	<1.3		<0.91		<0.98		<1.0		<0.51		<0.59		<0.91		<0.77	
AOC10-SB-W(2.5-3.0)	3/30/2015 13:15	<1.1		<0.75		**5.9**		<0.87		<0.42		<0.49		<0.75		**2.7**	J
AOC10-SB-W(3.5-4.0)	3/30/2015 13:20	<1.3		<0.87		**6.9**		<1.0		<0.49		<0.56		<0.87		**3.4**	J

Notes:

20,000 = Concentration is greater than delineation criteria

5 = Concentration is above method detection limits but below delineation criteria

<1.3 = Concentration is below method detection limits

J = Concentration is less than the recovery limit but greater than or equal to the method detection limit and therefore the concentration is an approximate value

Table 6-1: Summary of Slug Test Results

Test Number	K_r (cm/sec)		T (cm^2/sec)	
	RW-8	RW-9	RW-8	RW-9
Falling Head Test 1	8.73E-04	7.14E-04	1.330	1.088
Falling Head Test 2	7.08E-04	6.86E-04	1.079	1.045
Falling Head Test 3	7.77E-04	3.86E-04	1.184	0.589
Average	7.86E-04	5.95E-04	1.198	0.907
Min	7.08E-04	3.86E-04	1.079	0.589
Max	8.73E-04	7.14E-04	1.330	1.088

Global Statistics		
Statistic	K_r (cm/sec)	T (cm^2/sec)
Global Average	6.91E-04	1.053
Global Min	3.86E-04	0.589
Global Max	8.73E-04	1.330
Global Range	4.87E-04	0.742

Notes:

Aquifer thickness (b) is assumed to be 50 ft. (1,524 cm.)

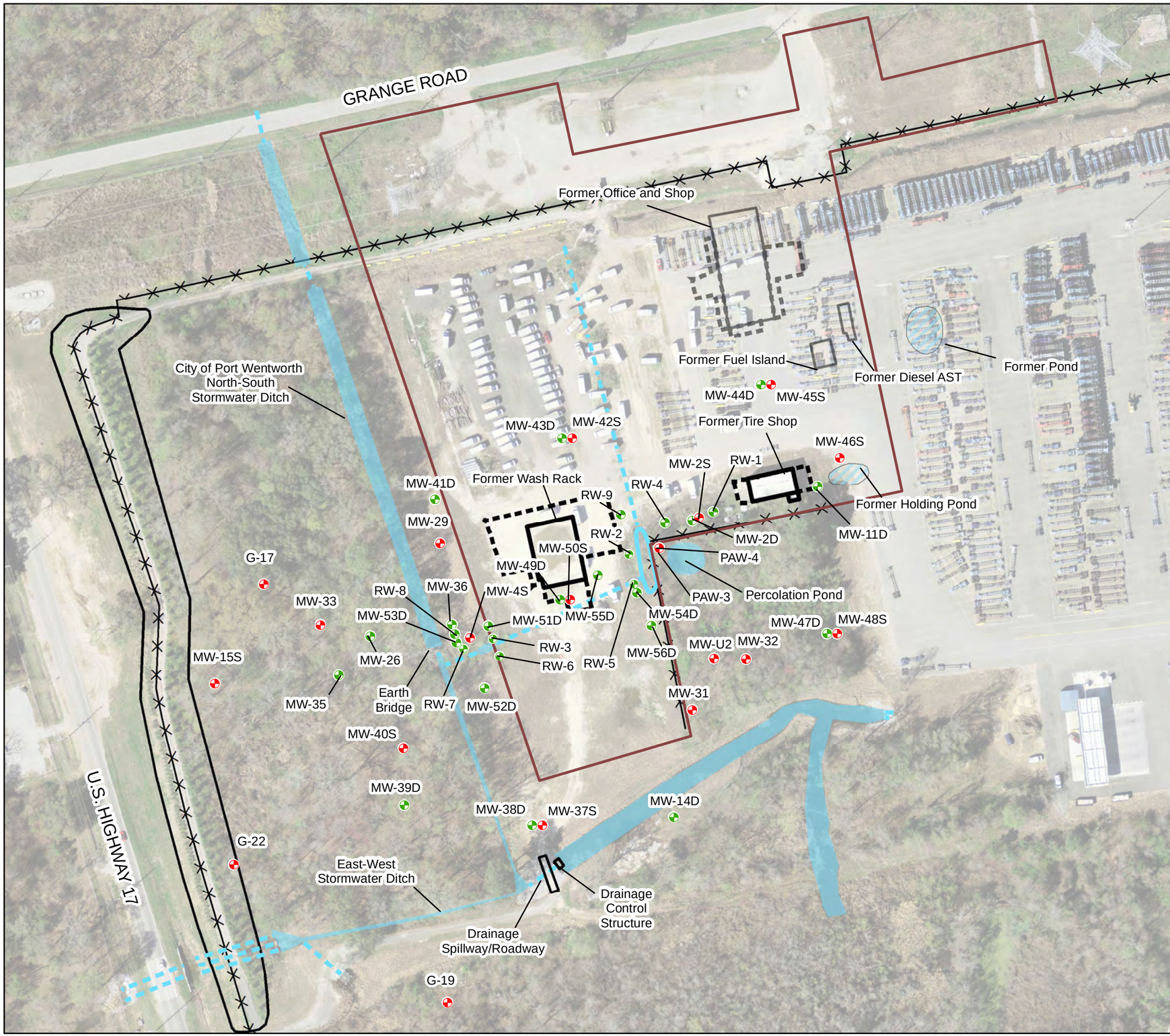
K_r = radial or horizontal hydraulic conductivity

T = transmissivity = K_r*b

HSI SITE 10406, FORMER MCKENZIE TANK LINES SITE

FOURTH SEMI-ANNUAL PROGRESS REPORT

FIGURES



Legend

WELL I.D.

- SHALLOW WELLS
- DEEP WELLS

SITE FEATURES

- BERM OUTLINE
- SECURITY FENCE
- BELOW GRADE DRAINAGE PIPES
- BUILDINGS
- CONCRETE APRONS
- SWALES
- WATER FEATURES
- FORMER MCKENZIE PROPERTY BOUNDARY
- FORMER WATER FEATURE

NOTES: AERIAL PHOTO IS FROM USGS 0.15m RESOLUTION ORTHOIMAGERY DATABASE. FORMER MCKENZIE PROPERTY BOUNDARY IS DERIVED FROM HISTORICAL TAX PLAT MAPS AVAILABLE FROM THE CHATHAM COUNTY TAX ASSESSORS OFFICE. WELL LOCATIONS AND OTHER SITE FEATURES ARE BASED UPON SURVEYS CONDUCTED BY BREWER LAND SURVEYING COMPANY IN OCTOBER 2013 AND EMC ENGINEERING SERVICES IN JUNE 2015. OTHER FORMER SITE FEATURES WERE PLOTTED BASED UPON HISTORICAL SITE MAPS FROM McKENZIE TANK LINES. WELLS SCREENED AT INTERVALS APPROXIMATELY BETWEEN 10 AND 20 FEET BELOW GROUND SURFACE ARE CONSIDERED SHALLOW WELLS. WELLS SCREENED AT INTERVALS APPROXIMATELY 20 FEET OR GREATER BELOW GROUND SURFACE ARE CONSIDERED DEEP WELLS.

N

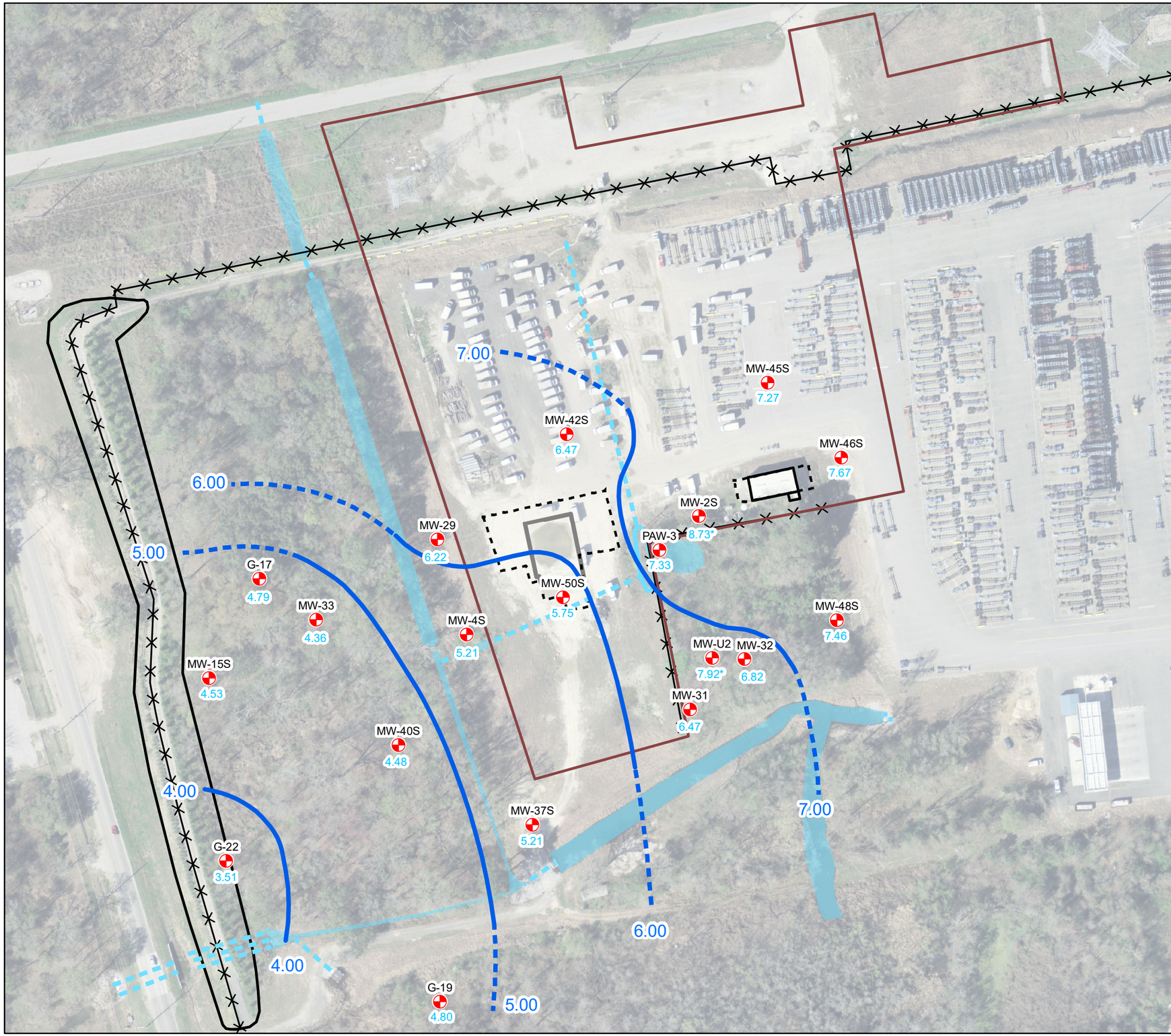
150 75 0 150 Feet

DESIGNED BY: A.G.	REVISIONS		DATE: 5/11/2016
	NO.	DATE	SCALE: SEE BAR SCALE
DRAWN BY: A.G.			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 1-1: SITE LAYOUT MAP

MCKENZIE TANK LINES
111 GRANGE ROAD
PORT WENTWORTH, GEORGIA 31047

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD
ALPHARETTA, GEORGIA 30009



Legend

SITE FEATURES

- BERM OUTLINE
- SECURITY FENCE
- DRAINAGE PIPES
- BUILDINGS
- CONCRETE APRONS
- SWALES
- WATER FEATURES
- FORMER MCKENZIE PROPERTY BOUNDARY
- SHALLOW WELLS

GROUNDWATER CONTOURS

- GROUNDWATER CONTOURS (1 FOOT INTERVALS)
- ESTIMATED GROUNDWATER CONTOURS
- 7.67 GROUNDWATER ELEVATIONS (FT., NAVD 88)
- 8.73* DATA NOT CONSIDERED FOR CONTOURS

NOTES: AERIAL PHOTO IS FROM USGS 0.15m RESOLUTION ORTHOIMAGERY DATABASE. FORMER MCKENZIE PROPERTY BOUNDARY IS DERIVED FROM HISTORICAL TAX PLAT MAPS AVAILABLE FROM THE CHATHAM COUNTY TAX ASSESSORS OFFICE. WELL LOCATIONS AND OTHER SITE FEATURES ARE BASED UPON SURVEY CONDUCTED BY BREWER LAND SURVEYING COMPANY IN OCTOBER 2013. WELLS SCREENED AT INTERVALS APPROXIMATELY BETWEEN 10 AND 20 FEET ARE CONSIDERED SHALLOW WELLS.

N

150 75 0 150 Feet

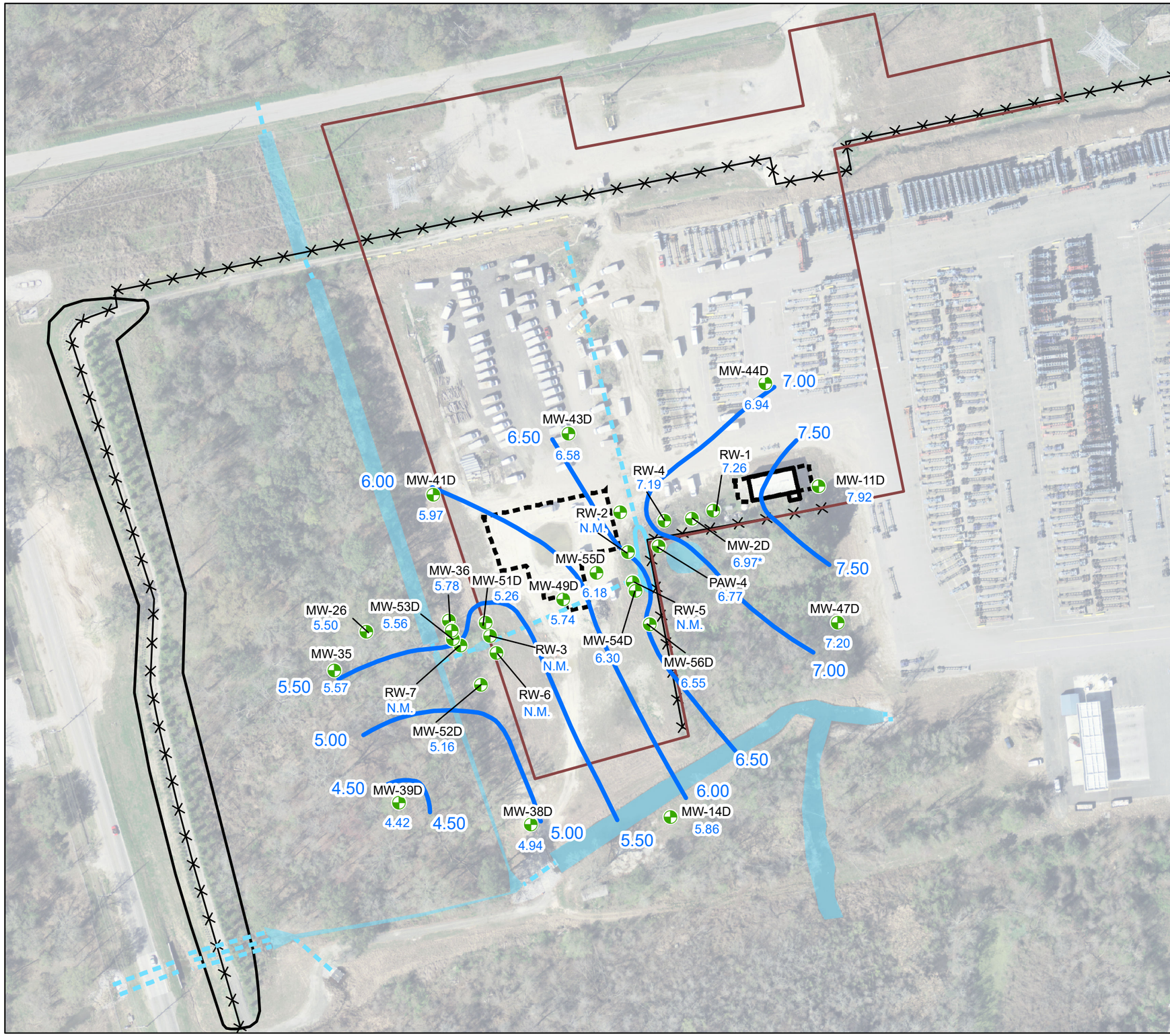
DESIGNED BY: S.F.H.	REVISIONS		DATE: 5/13/2016
	NO.	DATE	SCALE: SEE BAR SCALE
DRAWN BY: S.F.H.			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 3-1: OCTOBER 2015 SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE MAP

MCKENZIE TANK LINES
111 GRANGE ROAD
PORT WENTWORTH, GEORGIA 31407

EIC

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD
ALPHARETTA, GEORGIA 30009



Legend

SITE FEATURES

- BERM OUTLINE
- SECURITY FENCE
- DRAINAGE PIPES
- BUILDINGS
- CONCRETE APRONS
- SWALES
- WATER FEATURES
- FORMER MCKENZIE PROPERTY BOUNDARY
- DEEP WELLS

GROUNDWATER CONTOURS

- GROUNDWATER CONTOURS (0.5 FOOT INTERVALS)
- ESTIMATED GROUNDWATER CONTOURS
- 7.92 GROUNDWATER ELEVATIONS (FT., NAVD 88)
- 6.97* DATA NOT CONSIDERED FOR CONTOURS
- N.M. NOT MEASURED

NOTES: AERIAL PHOTO IS FROM USGS 0.15m RESOLUTION ORTHOIMAGERY DATABASE. FORMER MCKENZIE PROPERTY BOUNDARY IS DERIVED FROM HISTORICAL TAX PLAT MAPS AVAILABLE FROM THE CHATHAM COUNTY TAX ASSESSORS OFFICE. WELL LOCATIONS AND OTHER SITE FEATURES ARE BASED UPON SURVEY CONDUCTED BY BREWER LAND SURVEYING COMPANY IN OCTOBER 2013. WELLS SCREENED AT INTERVALS APPROXIMATELY 20 FEET OR GREATER BELOW GROUND SURFACE ARE CONSIDERED DEEP WELLS.

N

150 75 0 150 Feet

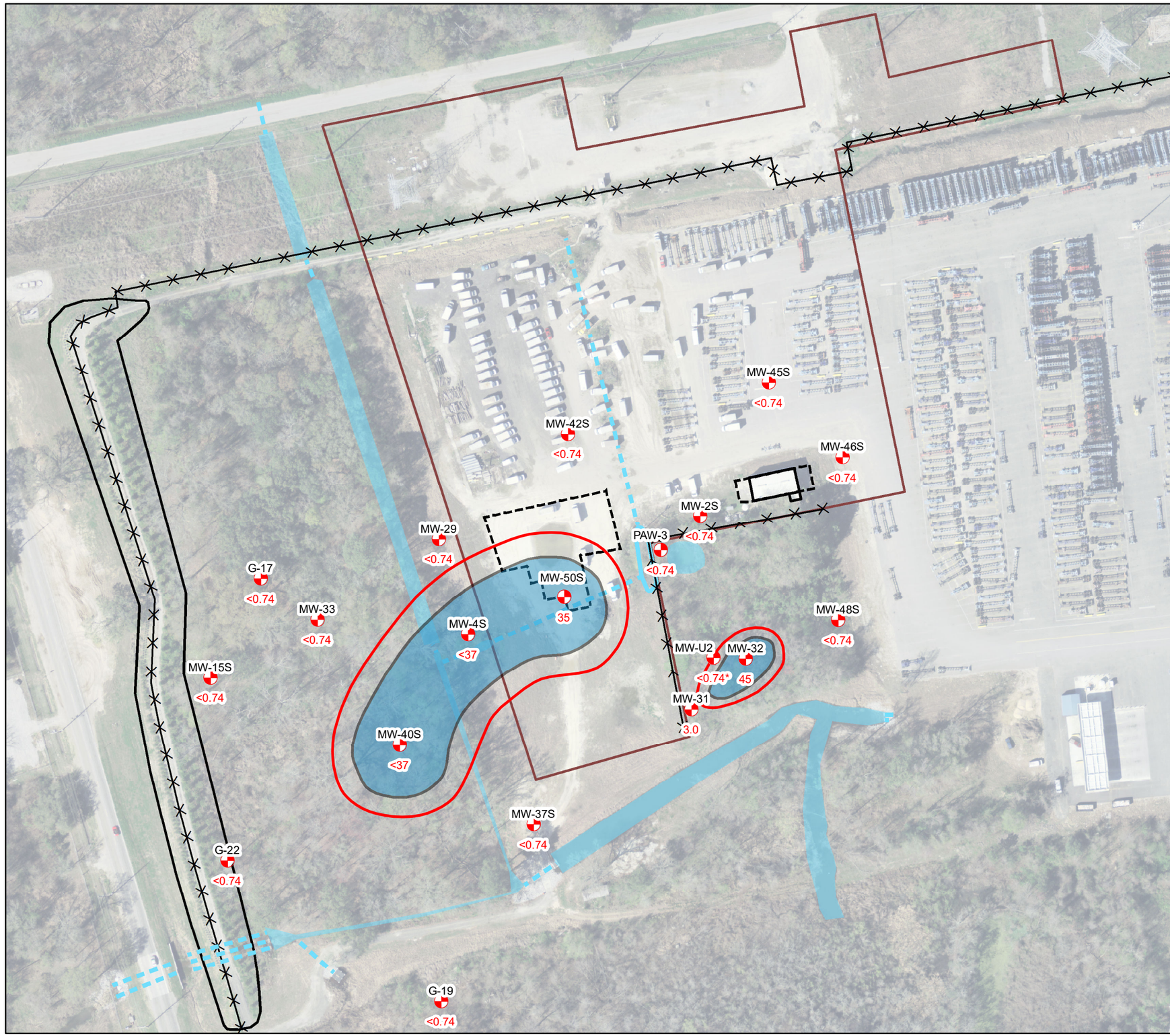
DESIGNED BY: A.G.	REVISIONS		DATE: 5/12/2016
	NO.	DATE	SCALE: SEE BAR SCALE
DRAWN BY: S.F.H.			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 3-2: OCTOBER 2015 DEEP GROUNDWATER POTENTIOMETRIC SURFACE MAP

MCKENZIE TANK LINES
111 GRANGE ROAD
PORT WENTWORTH, GEORGIA 31407

EIC

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD
ALPHARETTA, GEORGIA 30009



Legend

SITE FEATURES

- BERM OUTLINE
- SECURITY FENCE
- DRAINAGE PIPES
- BUILDINGS
- CONCRETE APRONS
- SWALES
- WATER FEATURES
- FORMER MCKENZIE PROPERTY BOUNDARY
- SHALLOW WELLS

PCE CONCENTRATIONS

CONTOURS

- DELINIATION CRITERION OF 5 µg/L
- RRS TYPE 4 OF 98 µg/L

LABELS

MW-40S	WELL ID
<0.74	CONCENTRATION IN µg/L
<0.74*	DATA NOT CONSIDERED FOR CONTOURS

CONCENTRATIONS IN µg/L

- 25 - 50
- 50 - 100
- 100 - 250
- 250 - 500
- 500 - 1,000
- 1,000 - 2,500
- 2,500 - 5,000
- 5,000 - 10,000
- 10,000+

NOTES: AERIAL PHOTO IS FROM USGS 0.15m RESOLUTION ORTHOIMAGERY DATABASE. FORMER MCKENZIE PROPERTY BOUNDARY IS DERIVED FROM HISTORICAL TAX PLAT MAPS AVAILABLE FROM THE CHATHAM COUNTY TAX ASSESSORS OFFICE. WELL LOCATIONS AND OTHER SITE FEATURES ARE BASED UPON SURVEYS CONDUCTED BY BREWER LAND SURVEYING COMPANY IN OCTOBER 2013 AND EMC ENGINEERING SERVICES IN JUNE 2015. WELLS SCREENED AT INTERVALS APPROXIMATELY BETWEEN 10 AND 20 FEET ARE CONSIDERED SHALLOW WELLS.

N

150 75 0 150 Feet

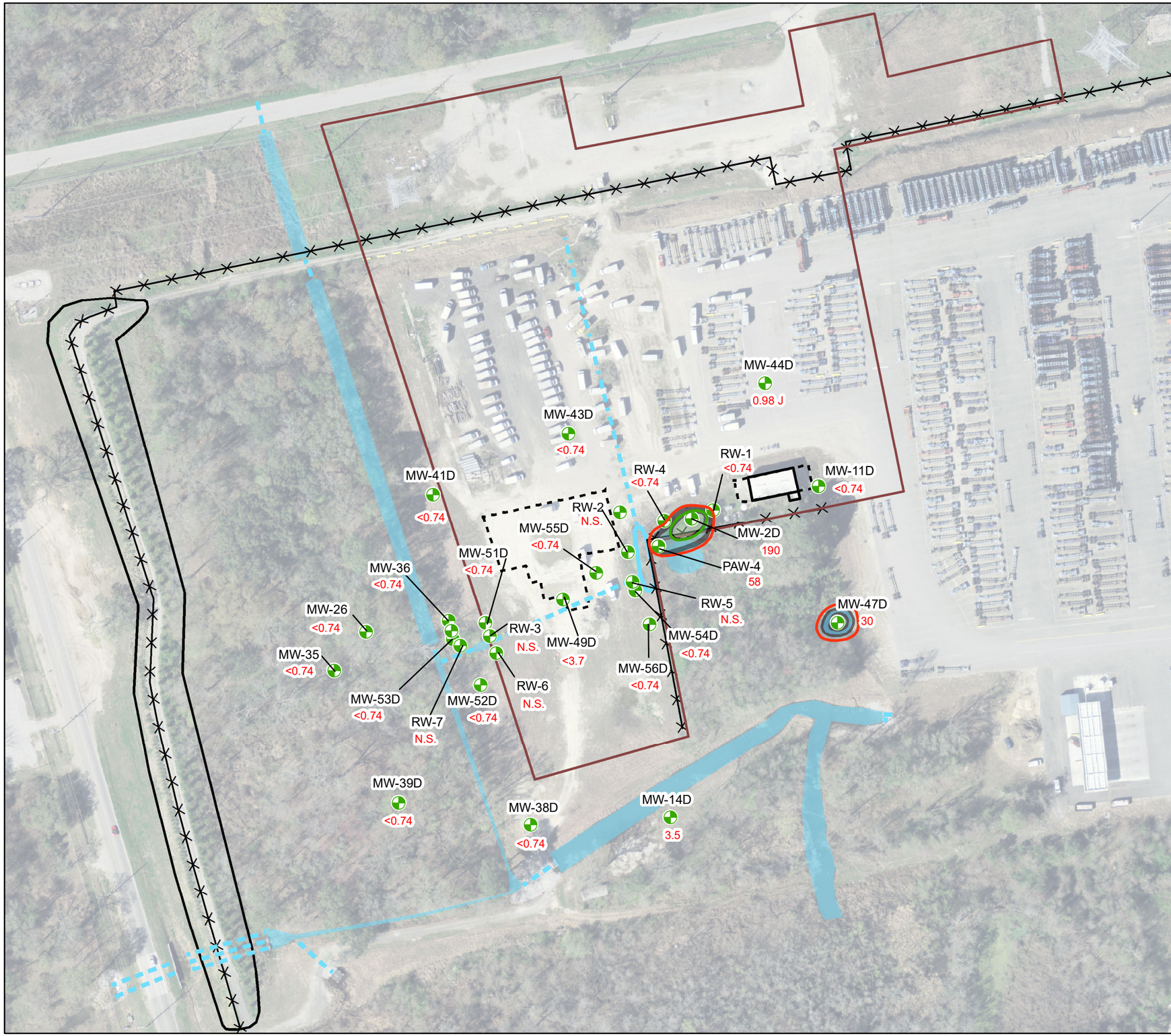
DESIGNED BY: A.G.	REVISIONS		DATE: 5/13/2016
	NO.	DATE	SCALE: SEE BAR SCALE
DRAWN BY: S.F.H.			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 3-3: OCTOBER 2015 SHALLOW PCE ISOCONCENTRATION MAP

MCKENZIE TANK LINES
111 GRANGE ROAD
PORT WENTWORTH, GEORGIA 31407

EIC

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD
ALPHARETTA, GEORGIA 30009



Legend

SITE FEATURES

- BERM OUTLINE
- SECURITY FENCE
- DRAINAGE PIPES
- BUILDINGS
- CONCRETE APRONS
- SWALES
- WATER FEATURES
- FORMER MCKENZIE PROPERTY BOUNDARY
- DEEP WELLS

PCE CONCENTRATIONS

CONTOURS

- DELINIATION CRITERION OF 5 µg/L
- RRS TYPE 4 OF 98 µg/L

LABELS

MW-53D	WELL ID
<0.150	CONCENTRATION IN µg/L
N.S.	NOT SAMPLED

CONCENTRATION GRADIENT (µg/L)

- 25 - 50
- 50 - 100
- 100 - 250
- 250 - 500
- 500 - 1,000
- 1,000 - 2,500
- 2,500 - 5,000
- 5,000 - 10,000
- 10,000+

NOTES: AERIAL PHOTO IS FROM USGS 0.15m RESOLUTION ORTHOIMAGERY DATABASE. FORMER MCKENZIE PROPERTY BOUNDARY IS DERIVED FROM HISTORICAL TAX PLAT MAPS AVAILABLE FROM THE CHATHAM COUNTY TAX ASSESSORS OFFICE. WELL LOCATIONS AND OTHER SITE FEATURES ARE BASED UPON SURVEYS CONDUCTED BY BREWER LAND SURVEYING COMPANY IN OCTOBER 2013 AND EMC ENGINEERING SERVICES IN JUNE 2015. WELLS SCREENED AT INTERVALS APPROXIMATELY BETWEEN 20 AND 30 FEET BELOW GROUND SURFACE ARE CONSIDERED DEEP WELLS.

N

150 75 0 150 Feet

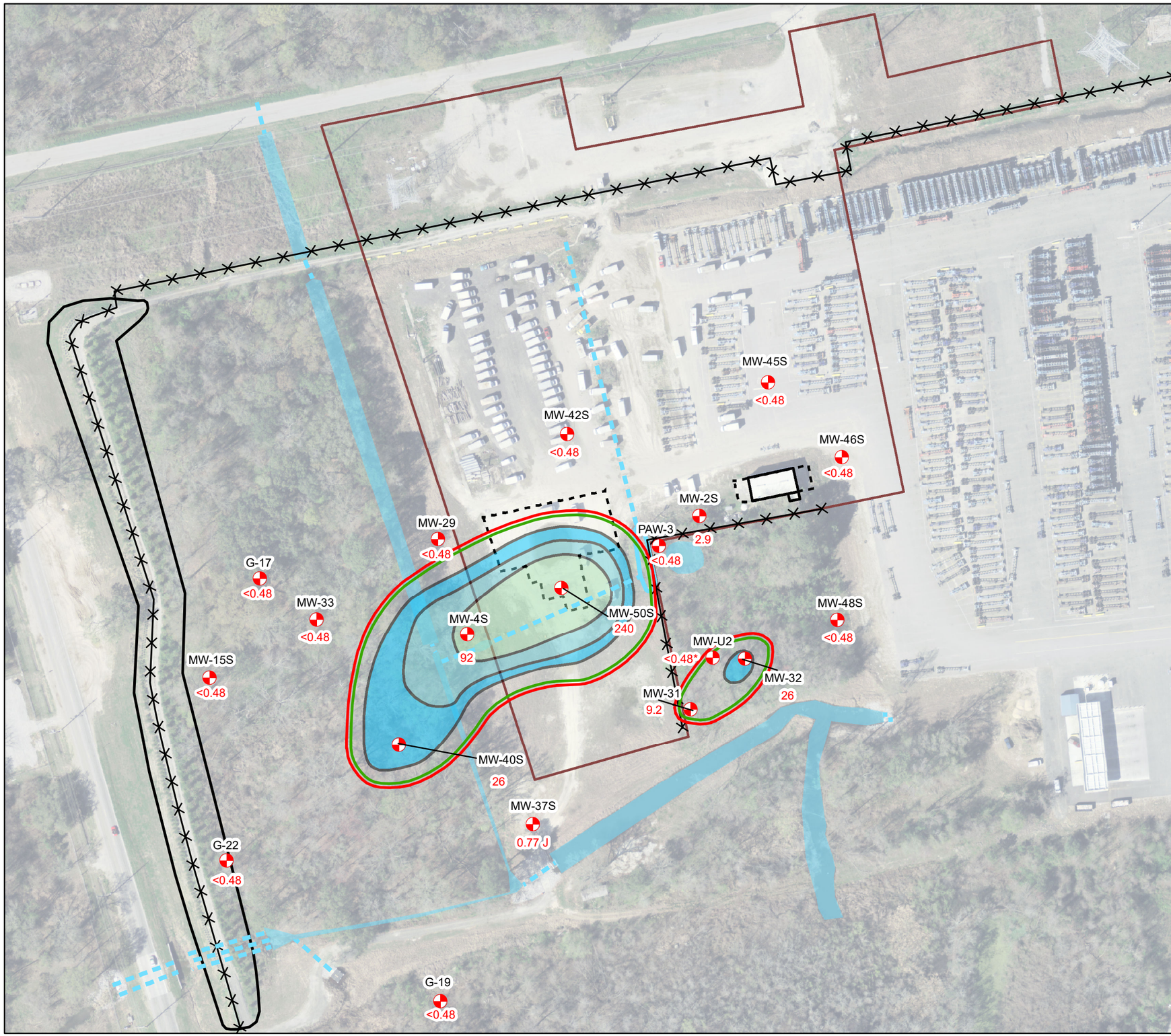
DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 5/12/2016
DRAWN BY: S.F.H.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 3-4: OCTOBER 2015 DEEP PCE ISOCONCENTRATION MAP

MCKENZIE TANK LINES
111 GRANGE ROAD
PORT WENTWORTH, GEORGIA 31407

EIC

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD
ALPHARETTA, GEORGIA 30009



Legend

SITE FEATURES

- BERM OUTLINE
- SECURITY FENCE
- DRAINAGE PIPES
- BUILDINGS
- CONCRETE APRONS
- SWALES
- WATER FEATURES
- FORMER MCKENZIE PROPERTY BOUNDARY
- SHALLOW WELLS

TCE CONCENTRATIONS

CONTOURS

- DELINIATION CRITERION OF 5 µg/L
- RRS TYPE 4 OF 5 µg/L

LABELS

MW-40S	WELL ID
<0.48	CONCENTRATION IN µg/L
<0.48*	DATA NOT CONSIDERED FOR CONTOURS

CONCENTRATIONS IN µg/L

- 25 - 50
- 50 - 100
- 100 - 250
- 250 - 500
- 500 - 1,000
- 1,000 - 2,500
- 2,500 - 5,000
- 5,000 - 10,000
- 10,000+

NOTES: AERIAL PHOTO IS FROM USGS 0.15m RESOLUTION ORTHOIMAGERY DATABASE. FORMER MCKENZIE PROPERTY BOUNDARY IS DERIVED FROM HISTORICAL TAX PLAT MAPS AVAILABLE FROM THE CHATHAM COUNTY TAX ASSESSORS OFFICE. WELL LOCATIONS AND OTHER SITE FEATURES ARE BASED UPON SURVEYS CONDUCTED BY BREWER LAND SURVEYING COMPANY IN OCTOBER 2013 AND EMC ENGINEERING SERVICES IN JUNE 2015. WELLS SCREENED AT INTERVALS APPROXIMATELY BETWEEN 10 AND 20 FEET ARE CONSIDERED SHALLOW WELLS.

N

150 75 0 150 Feet

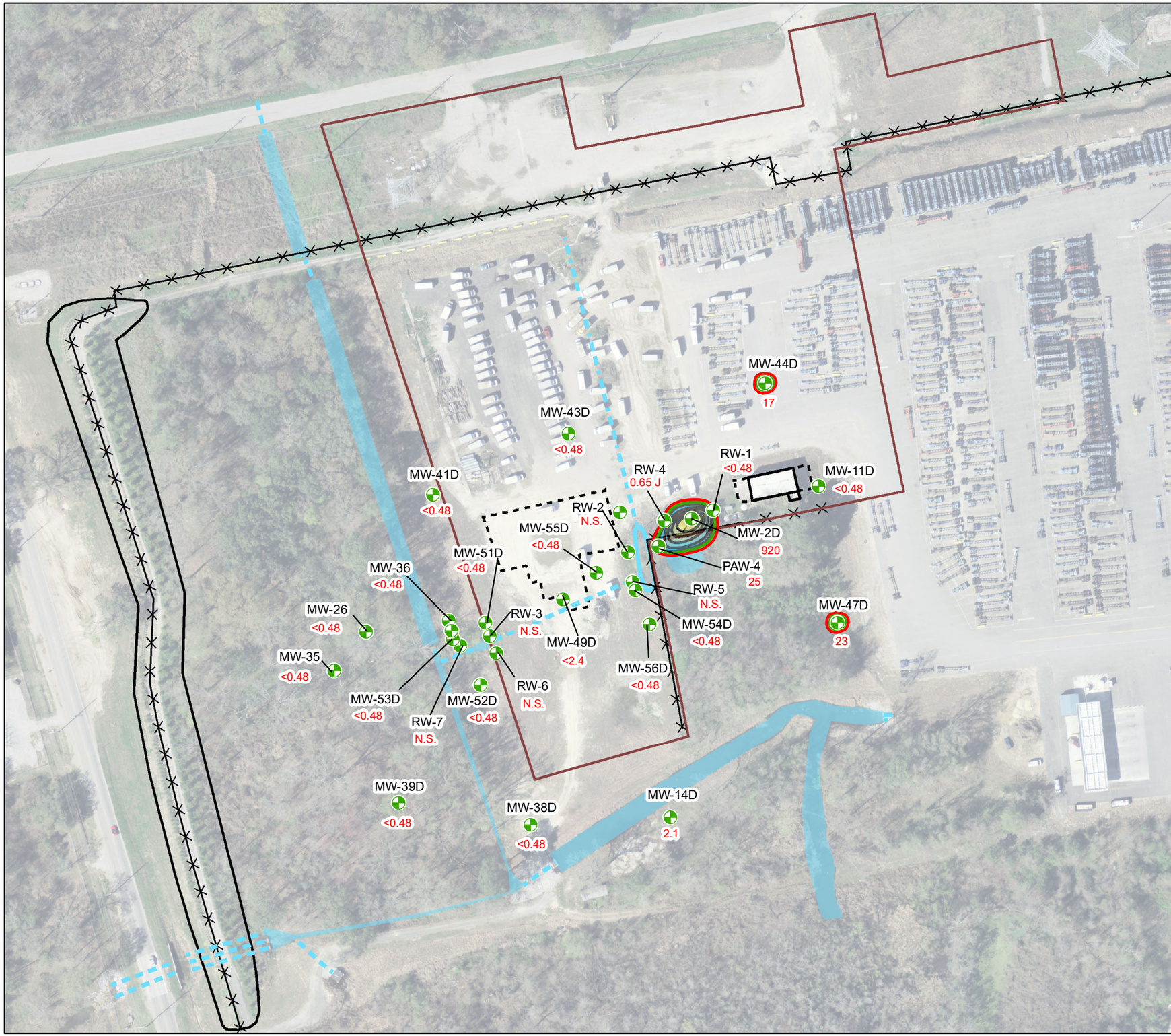
DESIGNED BY: A.G.	REVISIONS		DATE: 5/19/2016
	NO.	DATE	SCALE: SEE BAR SCALE
DRAWN BY: S.F.H.			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 3-5: OCTOBER 2015 SHALLOW TCE ISOCONCENTRATION MAP

MCKENZIE TANK LINES
111 GRANGE ROAD
PORT WENTWORTH, GEORGIA 31407

EIC

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD
ALPHARETTA, GEORGIA 30009



Legend

SITE FEATURES

- BERM OUTLINE
- SECURITY FENCE
- DRAINAGE PIPES
- BUILDINGS
- CONCRETE APRONS
- SWALES
- WATER FEATURES
- FORMER MCKENZIE PROPERTY BOUNDARY
- DEEP WELLS

TCE CONCENTRATIONS

CONTOURS

- DELINIATION CRITERION OF 5 µg/L
- RRS TYPE 4 OF 5 µg/L

LABELS

MW-53D	WELL ID
<0.48	CONCENTRATION IN µg/L
N.S.	NOT SAMPLED

CONCENTRATION (µg/L)

- 25 - 50
- 50 - 100
- 100 - 250
- 250 - 500
- 500 - 1,000
- 1,000 - 2,500
- 2,500 - 5,000
- 5,000 - 10,000
- 10,000+

NOTES: AERIAL PHOTO IS FROM USGS 0.15m RESOLUTION ORTHOIMAGERY DATABASE. FORMER MCKENZIE PROPERTY BOUNDARY IS DERIVED FROM HISTORICAL TAX PLAT MAPS AVAILABLE FROM THE CHATHAM COUNTY TAX ASSESSORS OFFICE. WELL LOCATIONS AND OTHER SITE FEATURES ARE BASED UPON SURVEYS CONDUCTED BY BREWER LAND SURVEYING COMPANY IN OCTOBER 2013 AND EMC ENGINEERING SERVICES IN JUNE 2015. WELLS SCREENED AT INTERVALS APPROXIMATELY BETWEEN 20 AND 30 FEET BELOW GROUND SURFACE ARE CONSIDERED DEEP WELLS.

N

150 75 0 150 Feet

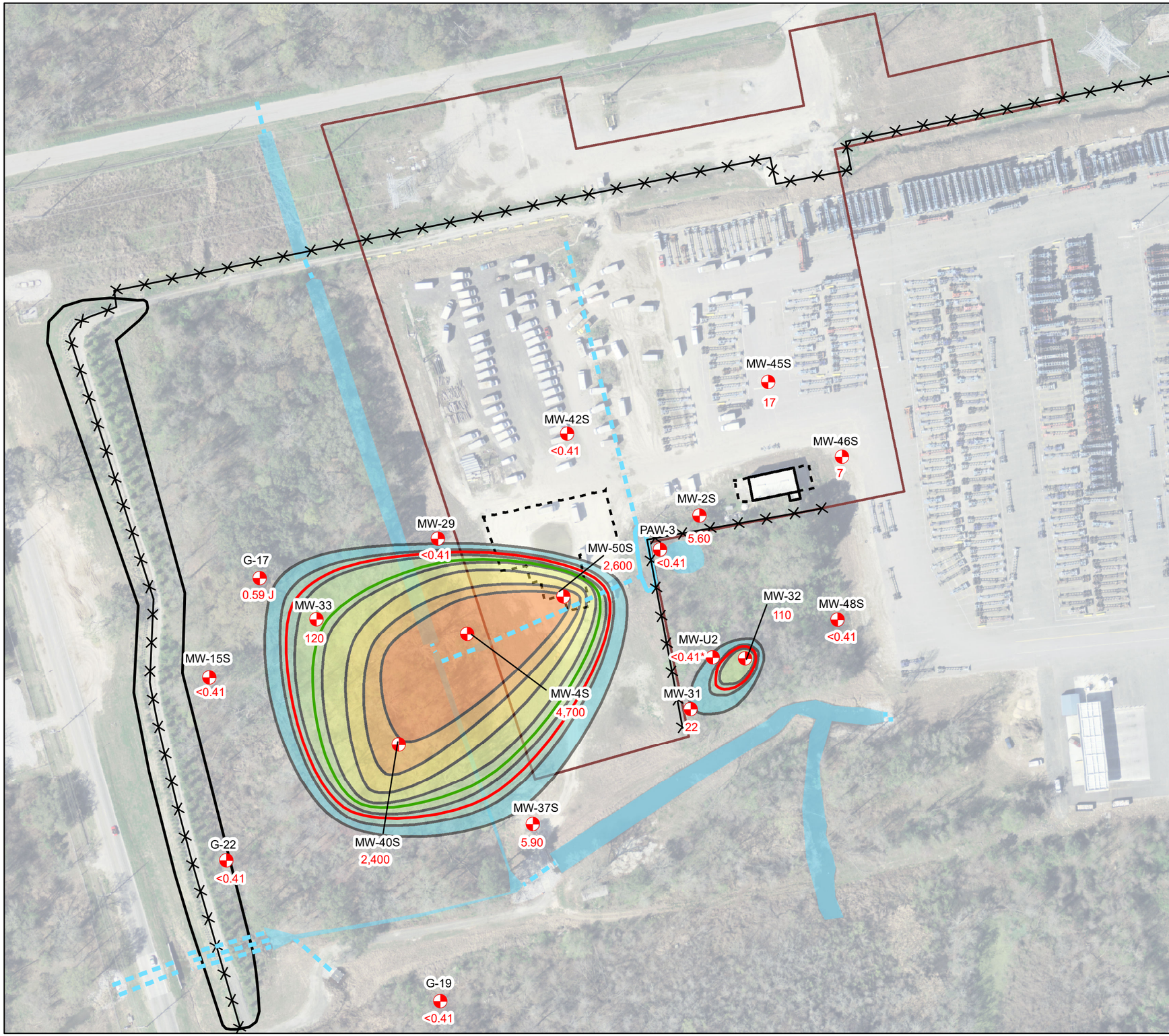
DESIGNED BY: A.G.	REVISIONS		DATE: 5/13/2016
	NO.	DATE	SCALE: SEE BAR SCALE
DRAWN BY: S.F.H.			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 3-6: OCTOBER 2015 DEEP TCE ISOCONCENTRATION MAP

MCKENZIE TANK LINES
111 GRANGE ROAD
PORT WENTWORTH, GEORGIA 31407

EIC

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD
ALPHARETTA, GEORGIA 30009



Legend

SITE FEATURES

- BERM OUTLINE
- SECURITY FENCE
- DRAINAGE PIPES
- BUILDINGS
- CONCRETE APRONS
- SWALES
- WATER FEATURES
- FORMER MCKENZIE PROPERTY BOUNDARY
- SHALLOW WELLS

DCE CONCENTRATIONS

CONTOURS

- DELINIATION CRITERION OF 70 µg/L
- RRS TYPE 4 OF 204 µg/L

LABELS

MW-40S	WELL ID
<0.41	CONCENTRATION IN µg/L
<0.41*	DATA NOT CONSIDERED FOR CONTOURS

CONCENTRATIONS IN µg/L

- 25 - 50
- 50 - 100
- 100 - 250
- 250 - 500
- 500 - 1,000
- 1,000 - 2,500
- 2,500 - 5,000
- 5,000 - 10,000
- 10,000+

NOTES: AERIAL PHOTO IS FROM USGS 0.15m RESOLUTION ORTHOIMAGERY DATABASE. FORMER MCKENZIE PROPERTY BOUNDARY IS DERIVED FROM HISTORICAL TAX PLAT MAPS AVAILABLE FROM THE CHATHAM COUNTY TAX ASSESSORS OFFICE. WELL LOCATIONS AND OTHER SITE FEATURES ARE BASED UPON SURVEYS CONDUCTED BY BREWER LAND SURVEYING COMPANY IN OCTOBER 2013 AND EMC ENGINEERING SERVICES IN JUNE 2015. WELLS SCREENED AT INTERVALS APPROXIMATELY BETWEEN 10 AND 20 FEET ARE CONSIDERED SHALLOW WELLS.

N

150 75 0 150 Feet

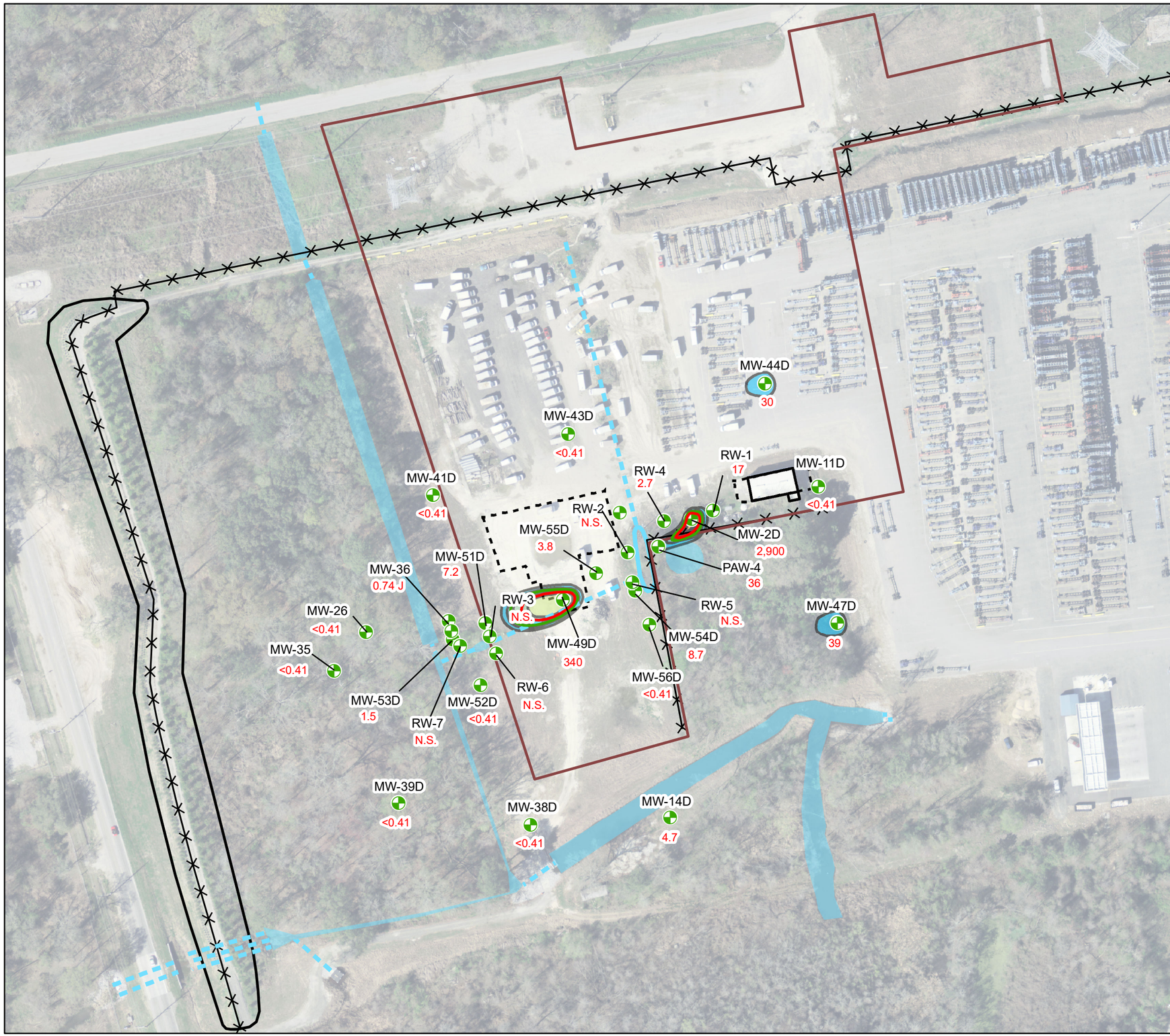
DESIGNED BY: A.G.	REVISIONS NO.	DATE	DATE: 5/19/2016
DRAWN BY: S.F.H.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 3-7: OCTOBER 2015 SHALLOW DCE ISOCONCENTRATION MAP

MCKENZIE TANK LINES
111 GRANGE ROAD
PORT WENTWORTH, GEORGIA 31407

EIC

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD
ALPHARETTA, GEORGIA 30009



Legend

SITE FEATURES

- BERM OUTLINE
- SECURITY FENCE
- DRAINAGE PIPES
- BUILDINGS
- CONCRETE APRONS
- SWALES
- WATER FEATURES
- FORMER MCKENZIE PROPERTY BOUNDARY
- DEEP WELLS

DCE CONCENTRATIONS

CONTOURS

- DELINIATION CRITERION OF 70 µg/L
- RRS TYPE 4 OF 204 µg/L

LABELS

MW-53D	WELL ID
<0.48	CONCENTRATION IN µg/L
N.S.	NOT SAMPLED

CONCENTRATION (µg/L)

- 25 - 50
- 50 - 100
- 100 - 250
- 250 - 500
- 500 - 1,000
- 1,000 - 2,500
- 2,500 - 5,000
- 5,000 - 10,000
- 10,000+

NOTES: AERIAL PHOTO IS FROM USGS 0.15m RESOLUTION ORTHOIMAGERY DATABASE. FORMER MCKENZIE PROPERTY BOUNDARY IS DERIVED FROM HISTORICAL TAX PLAT MAPS AVAILABLE FROM THE CHATHAM COUNTY TAX ASSESSORS OFFICE. WELL LOCATIONS AND OTHER SITE FEATURES ARE BASED UPON SURVEYS CONDUCTED BY BREWER LAND SURVEYING COMPANY IN OCTOBER 2013 AND EMC ENGINEERING SERVICES IN JUNE 2015. WELLS SCREENED AT INTERVALS APPROXIMATELY BETWEEN 20 AND 30 FEET BELOW GROUND SURFACE ARE CONSIDERED DEEP WELLS.

N

150 75 0 150 Feet

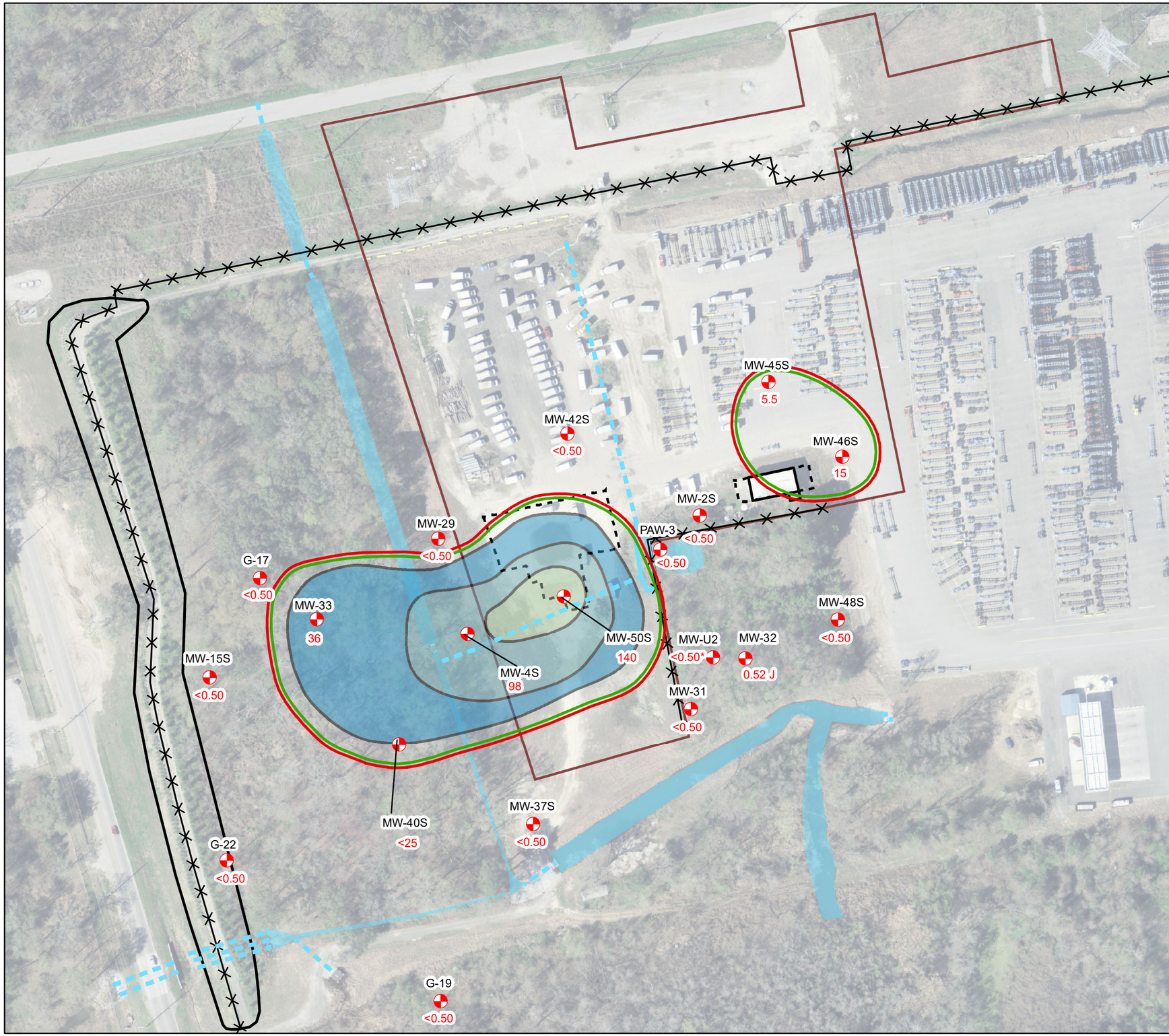
DESIGNED BY: A.G.	REVISIONS		DATE: 5/16/2016
	NO.	DATE	SCALE: SEE BAR SCALE
DRAWN BY: S.F.H.			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 3-8: OCTOBER 2015 DEEP DCE ISOCONCENTRATION MAP

MCKENZIE TANK LINES
111 GRANGE ROAD
PORT WENTWORTH, GEORGIA 31407

EIC

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD
ALPHARETTA, GEORGIA 30009



Legend

SITE FEATURES

- BERM OUTLINE
- SECURITY FENCE
- DRAINAGE PIPES
- BUILDINGS
- CONCRETE APRONS
- SWALES
- WATER FEATURES
- FORMER MCKENZIE PROPERTY BOUNDARY
- SHALLOW WELLS

VC CONCENTRATIONS

CONTOURS

- DELINIATION CRITERION OF 2 µg/L
- RRS TYPE 4 OF 3 µg/L

LABELS

MW-40S	WELL ID
<0.41	CONCENTRATION IN µg/L
<0.41*	DATA NOT CONSIDERED FOR CONTOURS

CONCENTRATIONS IN µg/L

- 25 - 50
- 50 - 100
- 100 - 250
- 250 - 500
- 500 - 1,000
- 1,000 - 2,500
- 2,500 - 5,000
- 5,000 - 10,000
- 10,000+

NOTES: AERIAL PHOTO IS FROM USGS 0.15m RESOLUTION ORTHOIMAGERY DATABASE. FORMER MCKENZIE PROPERTY BOUNDARY IS DERIVED FROM HISTORICAL TAX PLAT MAPS AVAILABLE FROM THE CHATHAM COUNTY TAX ASSESSORS OFFICE. WELL LOCATIONS AND OTHER SITE FEATURES ARE BASED UPON SURVEYS CONDUCTED BY BREWER LAND SURVEYING COMPANY IN OCTOBER 2013 AND EMC ENGINEERING SERVICES IN JUNE 2015. WELLS SCREENED AT INTERVALS APPROXIMATELY BETWEEN 10 AND 20 FEET ARE CONSIDERED SHALLOW WELLS.

N

150 75 0 150 Feet

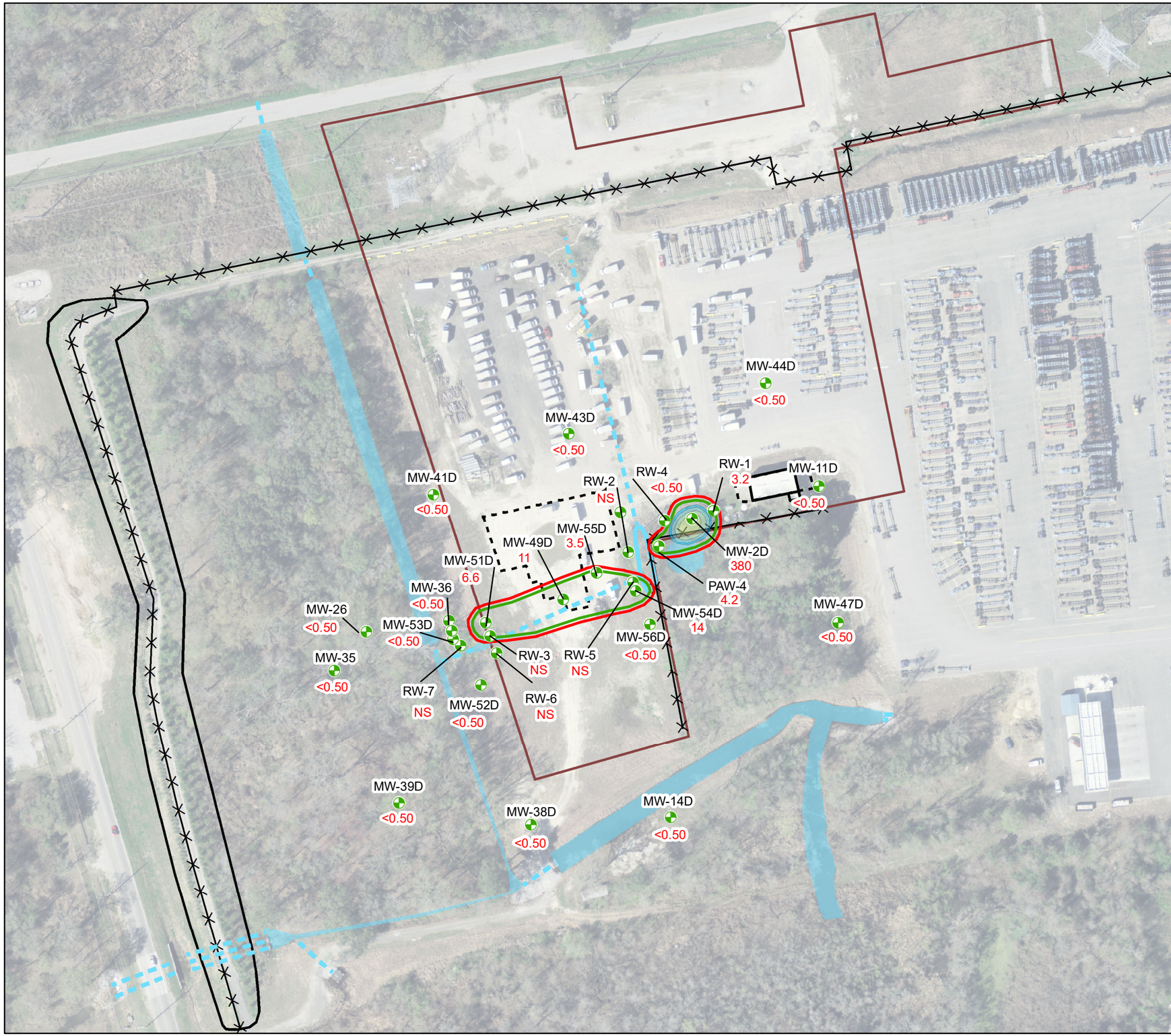
DESIGNED BY: A.G.	REVISIONS NO.	DATE	DATE: 5/16/2016
DRAWN BY: S.F.H.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 3-9: OCTOBER 2015 SHALLOW VC ISOCONCENTRATION MAP

MCKENZIE TANK LINES
111 GRANGE ROAD
PORT WENTWORTH, GEORGIA 31407

EIC

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD
ALPHARETTA, GEORGIA 30009



Legend

SITE FEATURES

- BERM OUTLINE
- SECURITY FENCE
- DRAINAGE PIPES
- BUILDINGS
- CONCRETE APRONS
- SWALES
- WATER FEATURES
- FORMER MCKENZIE PROPERTY BOUNDARY
- DEEP WELLS

VC CONCENTRATIONS

CONTOURS

- DELINIATION CRITERION OF 2 µg/L
- RRS TYPE 4 OF 3 µg/L

LABELS

MW-53D	WELL ID
<0.50	CONCENTRATION IN µg/L
N.S.	NOT SAMPLED

CONCENTRATION (µg/L)

- 25 - 50
- 50 - 100
- 100 - 250
- 250 - 500
- 500 - 1,000
- 1,000 - 2,500
- 2,500 - 5,000
- 5,000 - 10,000
- 10,000+

NOTES: AERIAL PHOTO IS FROM USGS 0.15m RESOLUTION ORTHOIMAGERY DATABASE. FORMER MCKENZIE PROPERTY BOUNDARY IS DERIVED FROM HISTORICAL TAX PLAT MAPS AVAILABLE FROM THE CHATHAM COUNTY TAX ASSESSORS OFFICE. WELL LOCATIONS AND OTHER SITE FEATURES ARE BASED UPON SURVEYS CONDUCTED BY BREWER LAND SURVEYING COMPANY IN OCTOBER 2013 AND EMC ENGINEERING SERVICES IN JUNE 2015. WELLS SCREENED AT INTERVALS APPROXIMATELY BETWEEN 20 AND 30 FEET BELOW GROUND SURFACE ARE CONSIDERED DEEP WELLS.

N

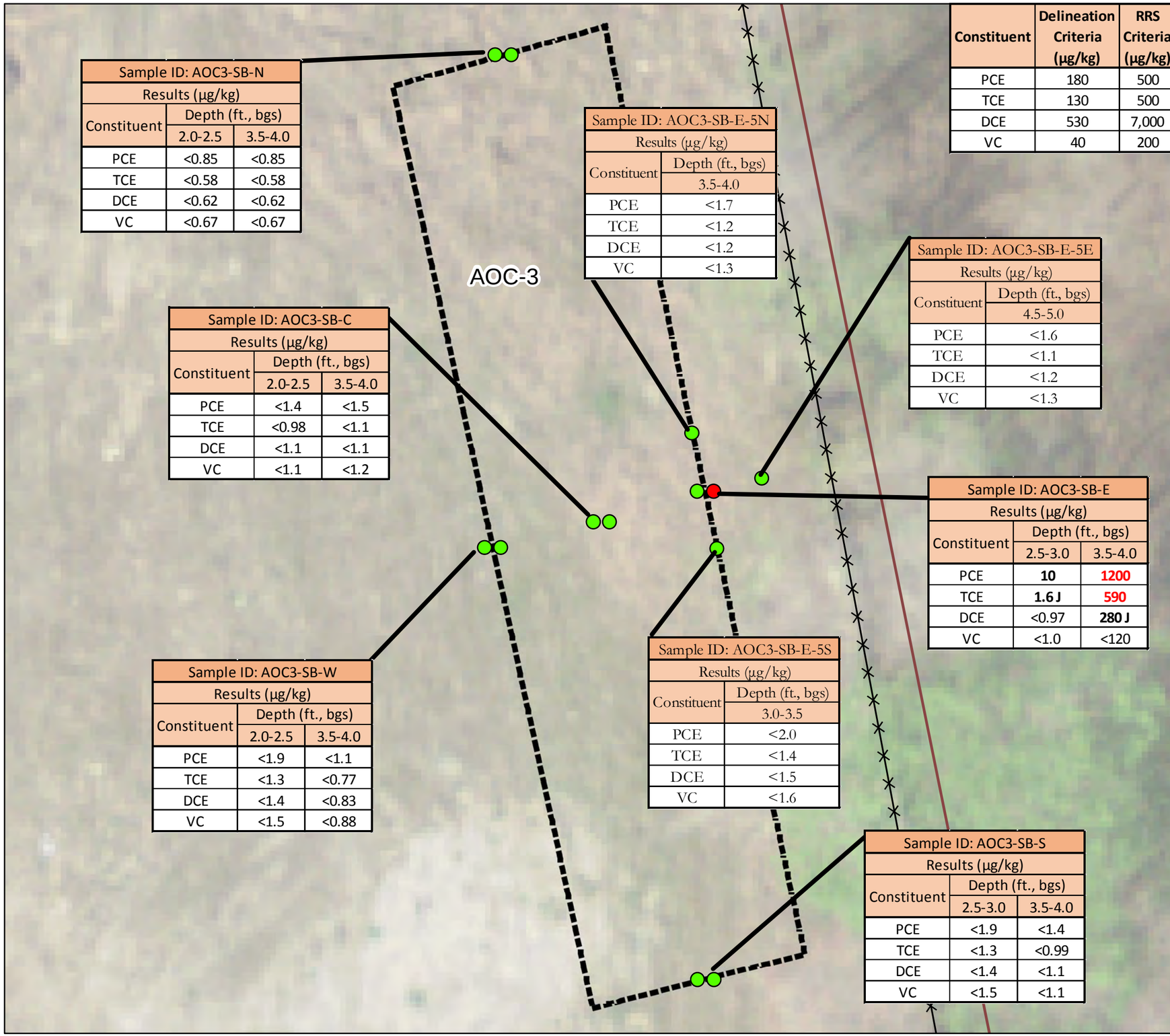
150 75 0 150 Feet

DESIGNED BY: A.G.	REVISIONS		DATE: 5/16/2016
	NO.	DATE	SCALE: SEE BAR SCALE
DRAWN BY: S.F.H.			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 3-10: OCTOBER 2015 DEEP VC ISOCONCENTRATION MAP

MCKENZIE TANK LINES
111 GRANGE ROAD
PORT WENTWORTH, GEORGIA 31407

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD
ALPHARETTA, GEORGIA 30009



Constituent	Delineation Criteria (µg/kg)	RRS Criteria (µg/kg)
PCE	180	500
TCE	130	500
DCE	530	7,000
VC	40	200

Sample ID: AOC3-SB-N

Results (µg/kg)

Constituent	Depth (ft., bgs)	
	2.0-2.5	3.5-4.0
PCE	<0.85	<0.85
TCE	<0.58	<0.58
DCE	<0.62	<0.62
VC	<0.67	<0.67

Sample ID: AOC3-SB-E-5N

Results (µg/kg)

Constituent	Depth (ft., bgs)
	3.5-4.0
PCE	<1.7
TCE	<1.2
DCE	<1.2
VC	<1.3

Sample ID: AOC3-SB-E-5E

Results (µg/kg)

Constituent	Depth (ft., bgs)
	4.5-5.0
PCE	<1.6
TCE	<1.1
DCE	<1.2
VC	<1.3

Sample ID: AOC3-SB-C

Results (µg/kg)

Constituent	Depth (ft., bgs)	
	2.0-2.5	3.5-4.0
PCE	<1.4	<1.5
TCE	<0.98	<1.1
DCE	<1.1	<1.1
VC	<1.1	<1.2

Sample ID: AOC3-SB-E

Results (µg/kg)

Constituent	Depth (ft., bgs)	
	2.5-3.0	3.5-4.0
PCE	**10**	**1200**
TCE	**1.6 J**	**590**
DCE	<0.97	**280 J**
VC	<1.0	<120

Sample ID: AOC3-SB-W

Results (µg/kg)

Constituent	Depth (ft., bgs)	
	2.0-2.5	3.5-4.0
PCE	<1.9	<1.1
TCE	<1.3	<0.77
DCE	<1.4	<0.83
VC	<1.5	<0.88

Sample ID: AOC3-SB-E-5S

Results (µg/kg)

Constituent	Depth (ft., bgs)
	3.0-3.5
PCE	<2.0
TCE	<1.4
DCE	<1.5
VC	<1.6

Sample ID: AOC3-SB-S

Results (µg/kg)

Constituent	Depth (ft., bgs)	
	2.5-3.0	3.5-4.0
PCE	<1.9	<1.4
TCE	<1.3	<0.99
DCE	<1.4	<1.1
VC	<1.5	<1.1

Legend

AOC-10 — AREA OF CONCERN

FORMER WATER FEATURE

AREA OF CONCERN EXTENTS

SHALLOW (LEFT) AND DEEP (RIGHT) SOIL ANALYTICAL RESULTS

RESULT IS BELOW DELINEATION AND RRS CRITERIA

RESULT IS ABOVE DELINEATION BUT BELOW RRS CRITERIA

RESULT IS ABOVE DELINEATION AND RRS CRITERIA

SITE FEATURES

BERM OUTLINE

SECURITY FENCE

DRAINAGE PIPES

BUILDINGS

CONCRETE PADS

DITCHES

WATER FEATURES

FORMER MCKENZIE PROPERTY BOUNDARY

NOTES: AERIAL PHOTO IS FROM USGS 0.15m RESOLUTION ORTHOIMAGERY DATABASE. FORMER MCKENZIE PROPERTY BOUNDARY IS DERIVED FROM HISTORICAL TAX PLAT MAPS AVAILABLE FROM THE CHATHAM COUNTY TAX ASSESSORS OFFICE. WELL LOCATIONS AND OTHER SITE FEATURES ARE BASED UPON SURVEY CONDUCTED BY BREWER LAND SURVEYING COMPANY IN OCTOBER 2013.

AOC SOIL SAMPLING RESULTS ARE FROM JANUARY AND MARCH 2015 SOIL SAMPLING EVENTS. CONSTIUENTS OF CONCERN (COCS) INCLUDE PCE, TCE, DCE, VC, AND BTEX. SAMPLES WERE COLLECTED AT BOTH SHALLOW (1-3 FT.) AND DEEP DEPTHS (3-5 FT.) BELOW GROUND SURFACE IN THE VADOSE ZONE.

N

10 5 0 10 Feet

DESIGNED BY: A.G.	REVISIONS NO.	DATE	DATE: 11/24/2015
DRAWN BY: A.G.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

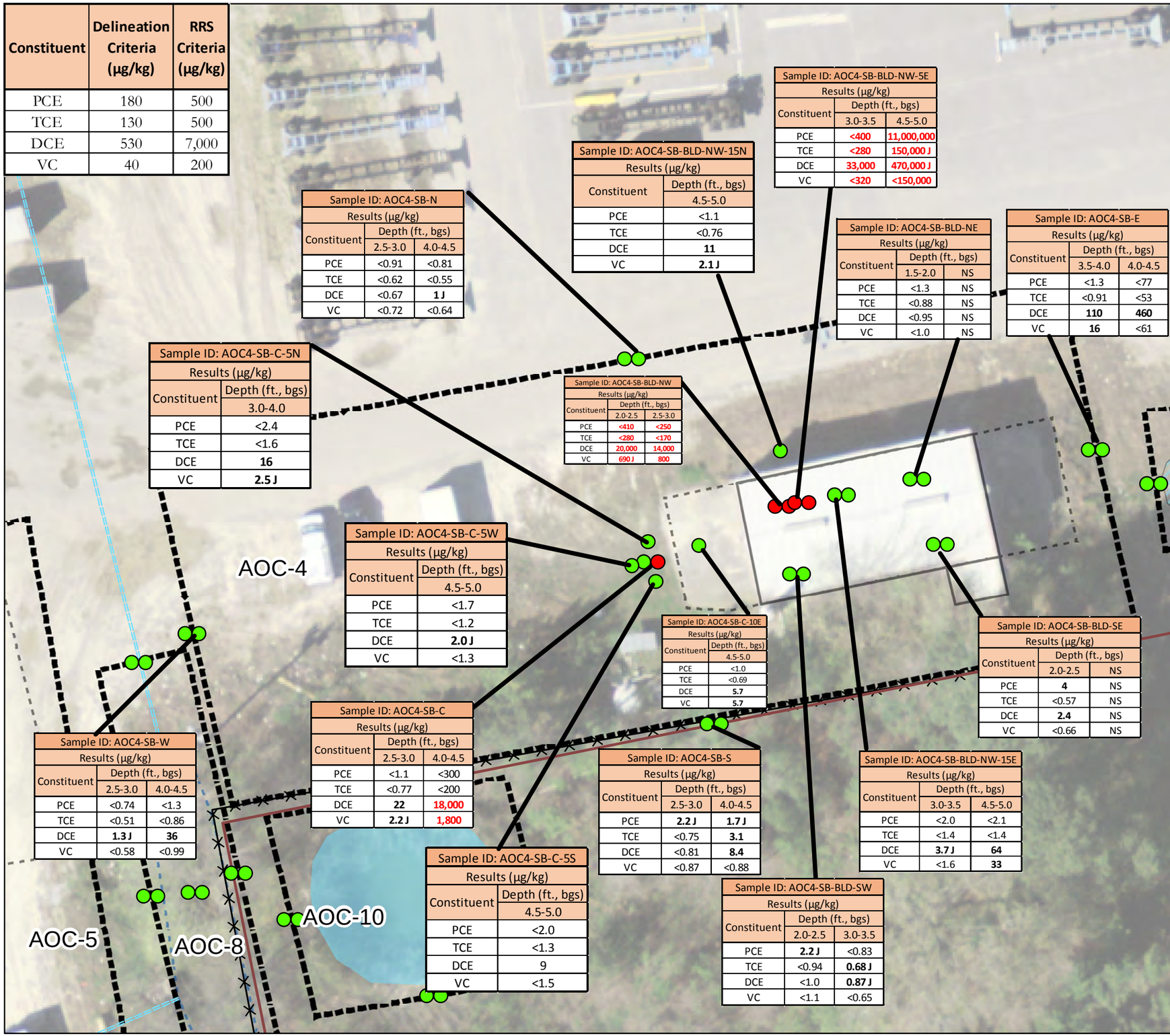
FIGURE 4-1: AOC-3 SOIL ANALYTICAL RESULTS AND DELINEATION SOIL SAMPLING LOCATIONS

EIC

MCKENZIE TANK LINES
111 GRANGE ROAD
PORT WENTWORTH, GEORGIA 31047

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD
ALPHARETTA, GEORGIA 30009

Constituent	Delineation Criteria (µg/kg)	RRS Criteria (µg/kg)
PCE	180	500
TCE	130	500
DCE	530	7,000
VC	40	200



Sample ID: AOC4-SB-BLD-NW-5E

Constituent	Results (µg/kg) Depth (ft., bgs) 3.0-3.5	4.5-5.0
PCE	<400	11,000,000
TCE	<280	150,000 J
DCE	33,000	470,000 J
VC	<320	<150,000

Sample ID: AOC4-SB-BLD-NW-15N

Constituent	Results (µg/kg) Depth (ft., bgs) 4.5-5.0
PCE	<1.1
TCE	<0.76
DCE	**11**
VC	**2.1 J**

Sample ID: AOC4-SB-N

Constituent	Results (µg/kg) Depth (ft., bgs) 2.5-3.0	4.0-4.5
PCE	<0.91	<0.81
TCE	<0.62	<0.55
DCE	<0.67	**1 J**
VC	<0.72	<0.64

Sample ID: AOC4-SB-BLD-NE

Constituent	Results (µg/kg) Depth (ft., bgs) 1.5-2.0	NS
PCE	<1.3	NS
TCE	<0.88	NS
DCE	<0.95	NS
VC	<1.0	NS

Sample ID: AOC4-SB-E

Constituent	Results (µg/kg) Depth (ft., bgs) 3.5-4.0	4.0-4.5
PCE	<1.3	<77
TCE	<0.91	<53
DCE	**110**	**460**
VC	**16**	<61

Sample ID: AOC4-SB-C-5N

Constituent	Results (µg/kg) Depth (ft., bgs) 3.0-4.0
PCE	<2.4
TCE	<1.6
DCE	**16**
VC	**2.5 J**

Sample ID: AOC4-SB-BLD-NW

Constituent	Results (µg/kg) Depth (ft., bgs) 2.0-2.5	2.5-3.0
PCE	<410	<250
TCE	<280	<170
DCE	20,000	14,000
VC	690 J	800

Sample ID: AOC4-SB-C-5W

Constituent	Results (µg/kg) Depth (ft., bgs) 4.5-5.0
PCE	<1.7
TCE	<1.2
DCE	**2.0 J**
VC	<1.3

Sample ID: AOC4-SB-C-10E

Constituent	Results (µg/kg) Depth (ft., bgs) 4.5-5.0
PCE	<1.0
TCE	<0.69
DCE	**5.7**
VC	**5.7**

Sample ID: AOC4-SB-BLD-SE

Constituent	Results (µg/kg) Depth (ft., bgs) 2.0-2.5	NS
PCE	**4**	NS
TCE	<0.57	NS
DCE	**2.4**	NS
VC	<0.66	NS

Sample ID: AOC4-SB-W

Constituent	Results (µg/kg) Depth (ft., bgs) 2.5-3.0	4.0-4.5
PCE	<0.74	<1.3
TCE	<0.51	<0.86
DCE	**1.3 J**	**36**
VC	<0.58	<0.99

Sample ID: AOC4-SB-C

Constituent	Results (µg/kg) Depth (ft., bgs) 2.5-3.0	4.0-4.5
PCE	<1.1	<300
TCE	<0.77	<200
DCE	**22**	18,000
VC	**2.2 J**	1,800

Sample ID: AOC4-SB-S

Constituent	Results (µg/kg) Depth (ft., bgs) 2.5-3.0	4.0-4.5
PCE	**2.2 J**	**1.7 J**
TCE	<0.75	**3.1**
DCE	<0.81	**8.4**
VC	<0.87	<0.88

Sample ID: AOC4-SB-BLD-NW-15E

Constituent	Results (µg/kg) Depth (ft., bgs) 3.0-3.5	4.5-5.0
PCE	<2.0	<2.1
TCE	<1.4	<1.4
DCE	**3.7 J**	**64**
VC	<1.6	**33**

Sample ID: AOC4-SB-C-5S

Constituent	Results (µg/kg) Depth (ft., bgs) 4.5-5.0
PCE	<2.0
TCE	<1.3
DCE	9
VC	<1.5

Sample ID: AOC4-SB-BLD-SW

Constituent	Results (µg/kg) Depth (ft., bgs) 2.0-2.5	3.0-3.5
PCE	**2.2 J**	<0.83
TCE	<0.94	**0.68 J**
DCE	<1.0	**0.87 J**
VC	<1.1	<0.65

Legend

AOC-4 AREA OF CONCERN

FORMER WATER FEATURE

AREA OF CONCERN EXTENTS

SHALLOW (LEFT) AND DEEP (RIGHT) SOIL ANALYTICAL RESULTS

RESULT IS BELOW DELINEATION AND RRS CRITERIA

RESULT IS ABOVE DELINEATION BUT BELOW RRS CRITERIA

RESULT IS ABOVE DELINEATION AND RRS CRITERIA

SITE FEATURES

BERM OUTLINE

SECURITY FENCE

DRAINAGE PIPES

BUILDINGS

CONCRETE PADS

DITCHES

WATER FEATURES

FORMER MCKENZIE PROPERTY BOUNDARY

NOTES: AERIAL PHOTO IS FROM USGS 0.15m RESOLUTION ORTHOIMAGERY DATABASE. FORMER MCKENZIE PROPERTY BOUNDARY IS DERIVED FROM HISTORICAL TAX PLAT MAPS AVAILABLE FROM THE CHATHAM COUNTY TAX ASSESSORS OFFICE. SITE FEATURES ARE BASED UPON SURVEY CONDUCTED BY BREWER LAND SURVEYING COMPANY IN OCTOBER 2013.

AOC SOIL SAMPLING RESULTS ARE FROM JANUARY, MARCH, OCTOBER, AND NOVEMBER 2015 SOIL SAMPLING EVENTS. CONSTIUENTS OF CONCERN (COCS) INCLUDE PCE, TCE, DCE, VC. SOIL SAMPLES WERE COLLECTED AT BOTH SHALLOW (1-3 FT.) AND DEEP DEPTHS (3-5 FT.) IN THE VADOSE ZONE.

N

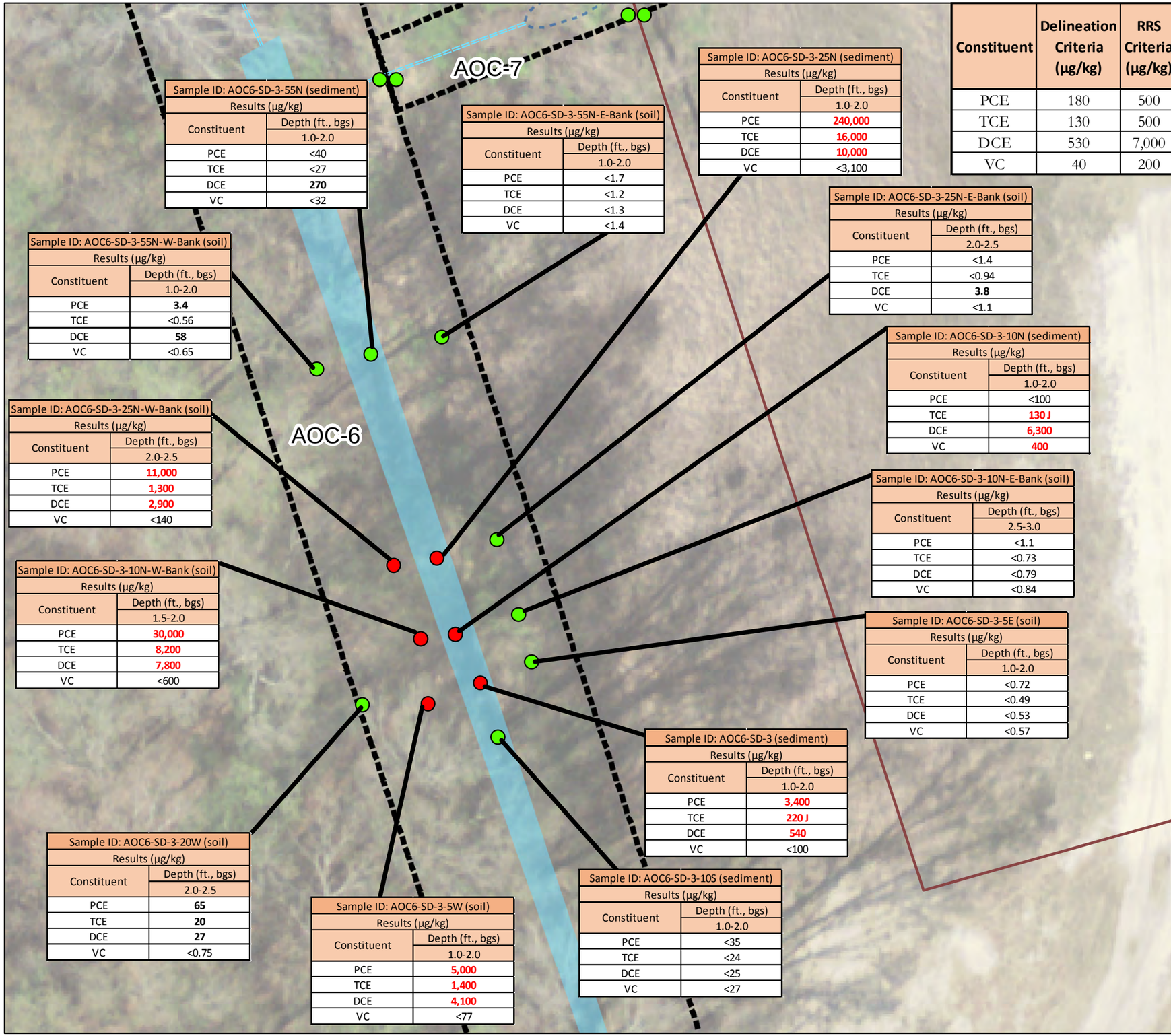
30 15 0 30 Feet

DESIGNED BY: A.G.	REVISIONS NO.	DATE	DATE: 1/19/2016
DRAWN BY: A.G.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 4-2: AOC-4 SOIL ANALYTICAL RESULTS AND DELINEATION SOIL SAMPLING LOCATIONS

MCKENZIE TANK LINES
111 GRANGE ROAD
PORT WENTWORTH, GEORGIA 31047

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD
ALPHARETTA, GEORGIA 30009



Sample ID: AOC6-SD-3-55N (sediment)	
Results (µg/kg)	
Constituent	Depth (ft., bgs)
	1.0-2.0
PCE	<40
TCE	<27
DCE	**270**
VC	<32

Sample ID: AOC6-SD-3-55N-E-Bank (soil)	
Results (µg/kg)	
Constituent	Depth (ft., bgs)
	1.0-2.0
PCE	<1.7
TCE	<1.2
DCE	<1.3
VC	<1.4

Sample ID: AOC6-SD-3-25N (sediment)	
Results (µg/kg)	
Constituent	Depth (ft., bgs)
	1.0-2.0
PCE	**240,000**
TCE	**16,000**
DCE	**10,000**
VC	<3,100

Constituent	Delineation Criteria (µg/kg)	RRS Criteria (µg/kg)
PCE	180	500
TCE	130	500
DCE	530	7,000
VC	40	200

Sample ID: AOC6-SD-3-55N-W-Bank (soil)	
Results (µg/kg)	
Constituent	Depth (ft., bgs)
	1.0-2.0
PCE	**3.4**
TCE	<0.56
DCE	**58**
VC	<0.65

Sample ID: AOC6-SD-3-25N-E-Bank (soil)	
Results (µg/kg)	
Constituent	Depth (ft., bgs)
	2.0-2.5
PCE	<1.4
TCE	<0.94
DCE	**3.8**
VC	<1.1

Sample ID: AOC6-SD-3-10N (sediment)	
Results (µg/kg)	
Constituent	Depth (ft., bgs)
	1.0-2.0
PCE	<100
TCE	**130 J**
DCE	**6,300**
VC	**400**

Sample ID: AOC6-SD-3-25N-W-Bank (soil)	
Results (µg/kg)	
Constituent	Depth (ft., bgs)
	2.0-2.5
PCE	**11,000**
TCE	**1,300**
DCE	**2,900**
VC	<140

Sample ID: AOC6-SD-3-10N-E-Bank (soil)	
Results (µg/kg)	
Constituent	Depth (ft., bgs)
	2.5-3.0
PCE	<1.1
TCE	<0.73
DCE	<0.79
VC	<0.84

Sample ID: AOC6-SD-3-10N-W-Bank (soil)	
Results (µg/kg)	
Constituent	Depth (ft., bgs)
	1.5-2.0
PCE	**30,000**
TCE	**8,200**
DCE	**7,800**
VC	<600

Sample ID: AOC6-SD-3-5E (soil)	
Results (µg/kg)	
Constituent	Depth (ft., bgs)
	1.0-2.0
PCE	<0.72
TCE	<0.49
DCE	<0.53
VC	<0.57

Sample ID: AOC6-SD-3 (sediment)	
Results (µg/kg)	
Constituent	Depth (ft., bgs)
	1.0-2.0
PCE	**3,400**
TCE	**220 J**
DCE	**540**
VC	<100

Sample ID: AOC6-SD-3-20W (soil)	
Results (µg/kg)	
Constituent	Depth (ft., bgs)
	2.0-2.5
PCE	**65**
TCE	**20**
DCE	**27**
VC	<0.75

Sample ID: AOC6-SD-3-5W (soil)	
Results (µg/kg)	
Constituent	Depth (ft., bgs)
	1.0-2.0
PCE	**5,000**
TCE	**1,400**
DCE	**4,100**
VC	<77

Sample ID: AOC6-SD-3-10S (sediment)	
Results (µg/kg)	
Constituent	Depth (ft., bgs)
	1.0-2.0
PCE	<35
TCE	<24
DCE	<25
VC	<27

Legend

AOC-6 AREA OF CONCERN

FORMER WATER FEATURE

AREA OF CONCERN EXTENTS

SHALLOW (LEFT) AND DEEP (RIGHT) SOIL ANALYTICAL RESULTS

RESULT IS BELOW DELINEATION AND RRS CRITERIA

RESULT IS ABOVE DELINEATION BUT BELOW RRS CRITERIA

RESULT IS ABOVE DELINEATION AND RRS CRITERIA

SITE FEATURES

BERM OUTLINE

SECURITY FENCE

DRAINAGE PIPES

BUILDINGS

CONCRETE PADS

DITCHES

WATER FEATURES

FORMER MCKENZIE PROPERTY BOUNDARY

NOTES: AERIAL PHOTO IS FROM USGS 0.15m RESOLUTION ORTHOIMAGERY DATABASE. FORMER MCKENZIE PROPERTY BOUNDARY IS DERIVED FROM HISTORICAL TAX PLAT MAPS AVAILABLE FROM THE CHATHAM COUNTY TAX ASSESSORS OFFICE. SITE FEATURES ARE BASED UPON SURVEY CONDUCTED BY BREWER LAND SURVEYING COMPANY IN OCTOBER 2013.

AOC SOIL SAMPLING RESULTS ARE FROM JANUARY, MARCH, OCTOBER, AND NOVEMBER 2015 SOIL SAMPLING EVENTS. CONSTIUENTS OF CONCERN (COCS) INCLUDE PCE, TCE, DCE, VC.

N

20 10 0 20 Feet

DESIGNED BY: A.G.	REVISIONS		DATE: 1/20/2016
	NO.	DATE	SCALE: SEE BAR SCALE
DRAWN BY: A.G.			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 4-3: AOC-6 SOIL AND SEDIMENT ANALYTICAL RESULTS AND DELINEATION SOIL SAMPLING LOCATIONS

MCKENZIE TANK LINES
111 GRANGE ROAD
PORT WENTWORTH, GEORGIA 31047

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD
ALPHARETTA, GEORGIA 30009

Legend

WELL I.D.

- SHALLOW WELL
- DEEP WELL
- MW-4S MONITORING WELL ID
- PROPOSED STAGE I RECOVERY WELL LOCATION
- PREVIOUS PROPOSED WELL LOCATION

SITE FEATURES

- BERM OUTLINE
- SECURITY FENCE
- DRAINAGE PIPES
- BUILDINGS
- CONCRETE APRONS
- SWALES
- WATER FEATURES
- FORMER MCKENZIE PROPERTY BOUNDARY
- FORMER WATER FEATURE

NOTES: AERIAL PHOTO IS FROM USGS 0.15m RESOLUTION ORTHOIMAGERY DATABASE. FORMER MCKENZIE PROPERTY BOUNDARY IS DERIVED FROM HISTORICAL TAX PLAT MAPS AVAILABLE FROM THE CHATHAM COUNTY TAX ASSESSORS OFFICE. WELL LOCATIONS AND OTHER SITE FEATURES ARE BASED UPON SURVEY CONDUCTED BY BREWER LAND SURVEYING COMPANY IN OCTOBER 2013. OTHER FORMER SITE FEATURES WERE PLOTTED BASED UPON HISTORICAL SITE MAPS FROM MCKENZIE TANK LINES. WELLS SCREENED AT INTERVALS APPROXIMATELY BETWEEN 10 AND 20 FEET BELOW GROUND SURFACE ARE CONSIDERED SHALLOW WELLS. WELLS SCREENED AT INTERVALS APPROXIMATELY 20 FEET OR GREATER BELOW GROUND SURFACE ARE CONSIDERED DEEP WELLS. LOCATIONS OF NEWLY INSTALLED WELLS AND MW-35 ARE APPROXIMATE.

N

150 75 0 150 Feet

DESIGNED BY: A.G.	REVISIONS NO.	DATE	DATE: 8/13/2015
DRAWN BY: S.F.H.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 5-1: NEWLY INSTALLED RECOVERY WELL LOCATION MAP

MCKENZIE TANK LINES
111 GRANGE ROAD
PORT WENTWORTH, GEORGIA 31047

EIC

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD
ALPHARETTA, GEORGIA 30009

ENVIRONMENTAL INT'L CORP.
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA, 30009 USA
PHONE: 770-772-7100
FAX: 770-772-0555
http://www.eicusa.com

FIGURE 5-2: RECOVERY WELL RW-8

RECOVERY WELL	RW-8	DRILLING COMPANY	AE DRILLING SERVICES
PROJECT	MTL-SAVANNAH	DATE DRILLED	11/11/15
LOCATION	PORT WENTWORTH, GA	SURFACE ELEVATION	7.40 FT. NAVD88
JOB NUMBER	460007	TOTAL DEPTH OF WELL	35 FT. BGS
GEOLOGIST	N/A	TOP OF BEDROCK	N/A
DRILL METHOD	CME 550X with HSA	UPPER LIMIT OF SATURATION	4 FT. BGS (FROM MW-53D)

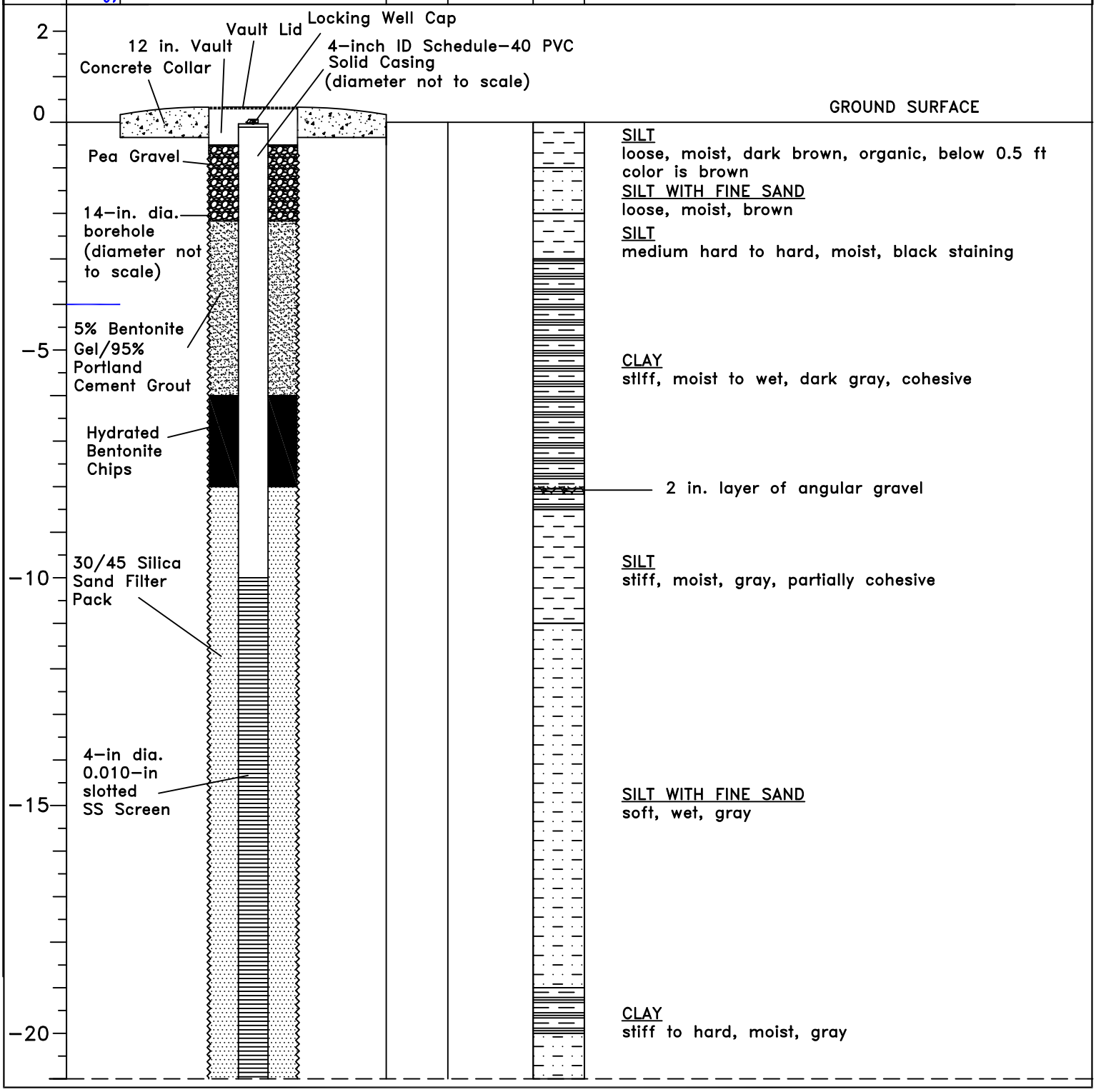


FIGURE 5-2: RECOVERY WELL RW-8

ENVIRONMENTAL INT'L CORP.
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA, 30009 USA
PHONE: 770-772-7100
FAX: 770-772-0555
http://www.eicusa.com

RECOVERY WELL	RW-8	DRILLING COMPANY	AE DRILLING SERVICES
PROJECT	MTL-SAVANNAH	DATE DRILLED	11/11/15
LOCATION	PORT WENTWORTH, GA	SURFACE ELEVATION	7.40 FT. NAVD88
JOB NUMBER	460007	TOTAL DEPTH OF WELL	35 FT. BGS
GEOLOGIST	N/A	TOP OF BEDROCK	N/A
DRILL METHOD	CME 550X with HSA	UPPER LIMIT OF SATURATION	4 FT. BGS (FROM MW-53D)

DEPTH (ft bgs)	UPPER LIMIT OF SATURATION	WELL CONST. DIAGRAM	RECOVERY LENGTH	SAMPLE INTERVAL (ft)	LITH. LOG	DESCRIPTION & REMARKS

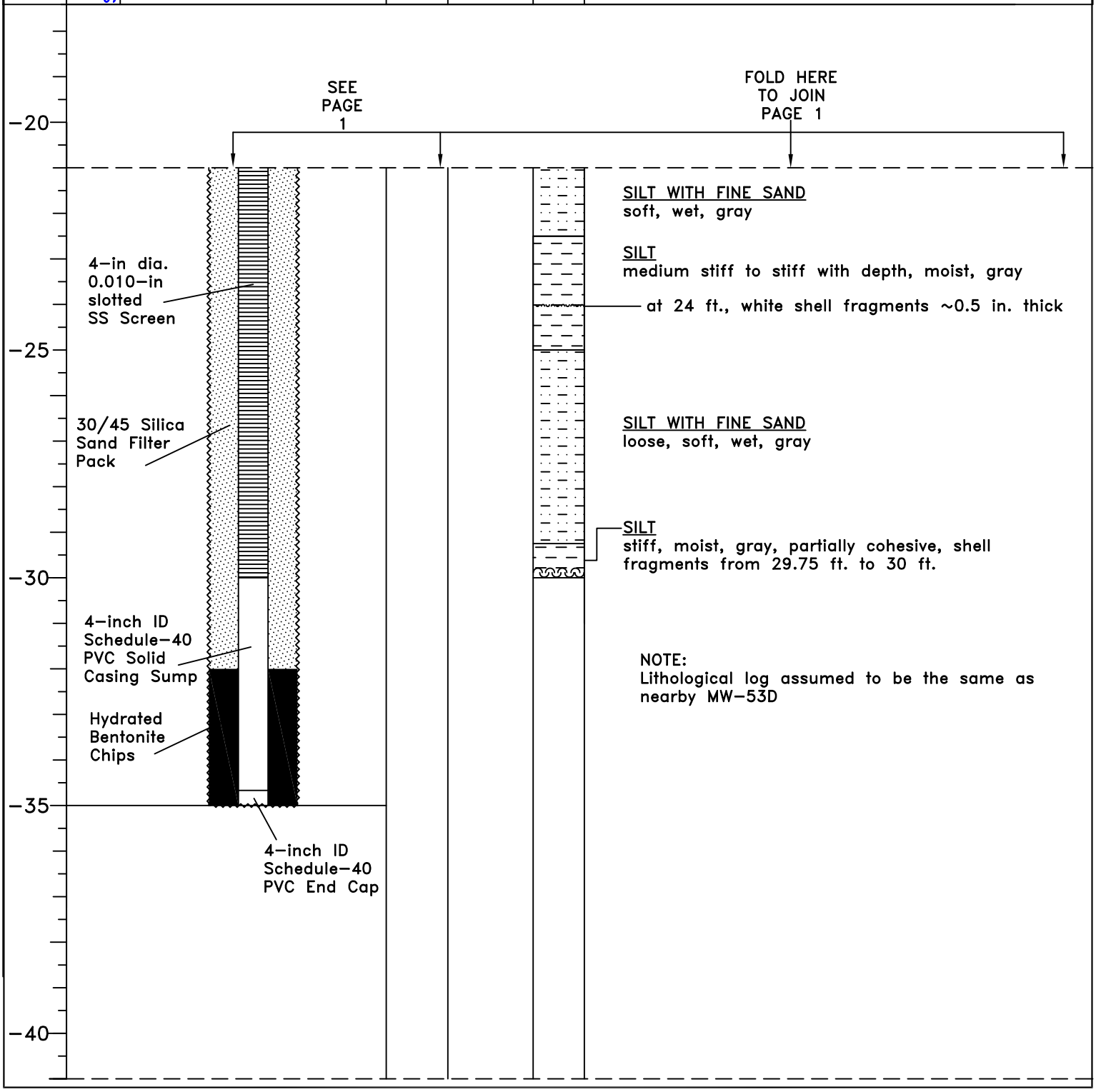
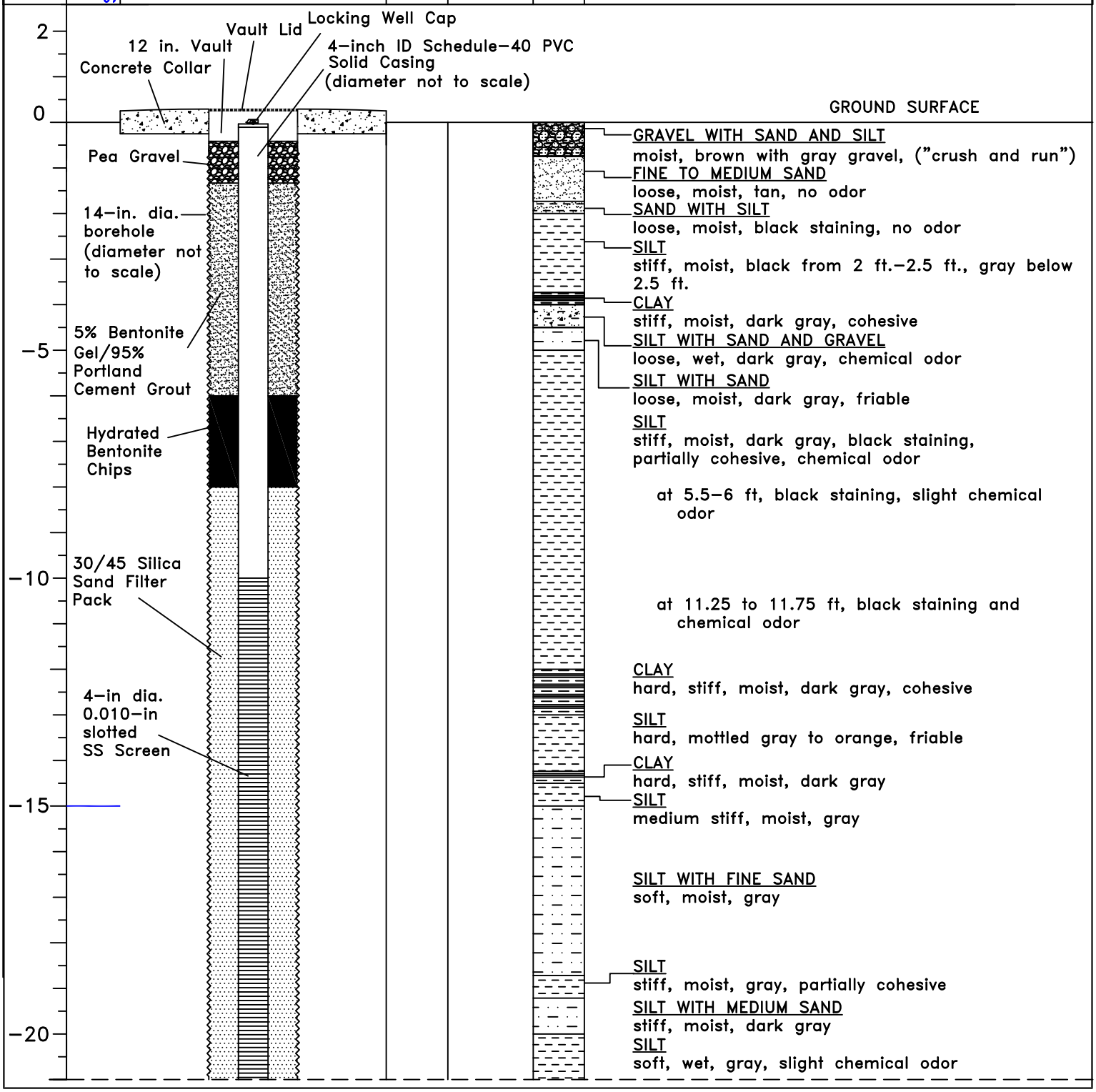


FIGURE 5-3: RECOVERY WELL RW-9

ENVIRONMENTAL INT'L CORP.
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA, 30009 USA
PHONE: 770-772-7100
FAX: 770-772-0555
http://www.eicusa.com

RECOVERY WELL	RW-9	DRILLING COMPANY	AE DRILLING SERVICES
PROJECT	MTL-SAVANNAH	DATE DRILLED	11/10/15
LOCATION	PORT WENTWORTH, GA	SURFACE ELEVATION	11.50 FT. NAVD88
JOB NUMBER	460007	TOTAL DEPTH OF WELL	35 FT. BGS
GEOLOGIST	N/A	TOP OF BEDROCK	N/A
DRILL METHOD	CME 550X with HSA	UPPER LIMIT OF SATURATION	15 FT. BGS (FROM MW-55D)

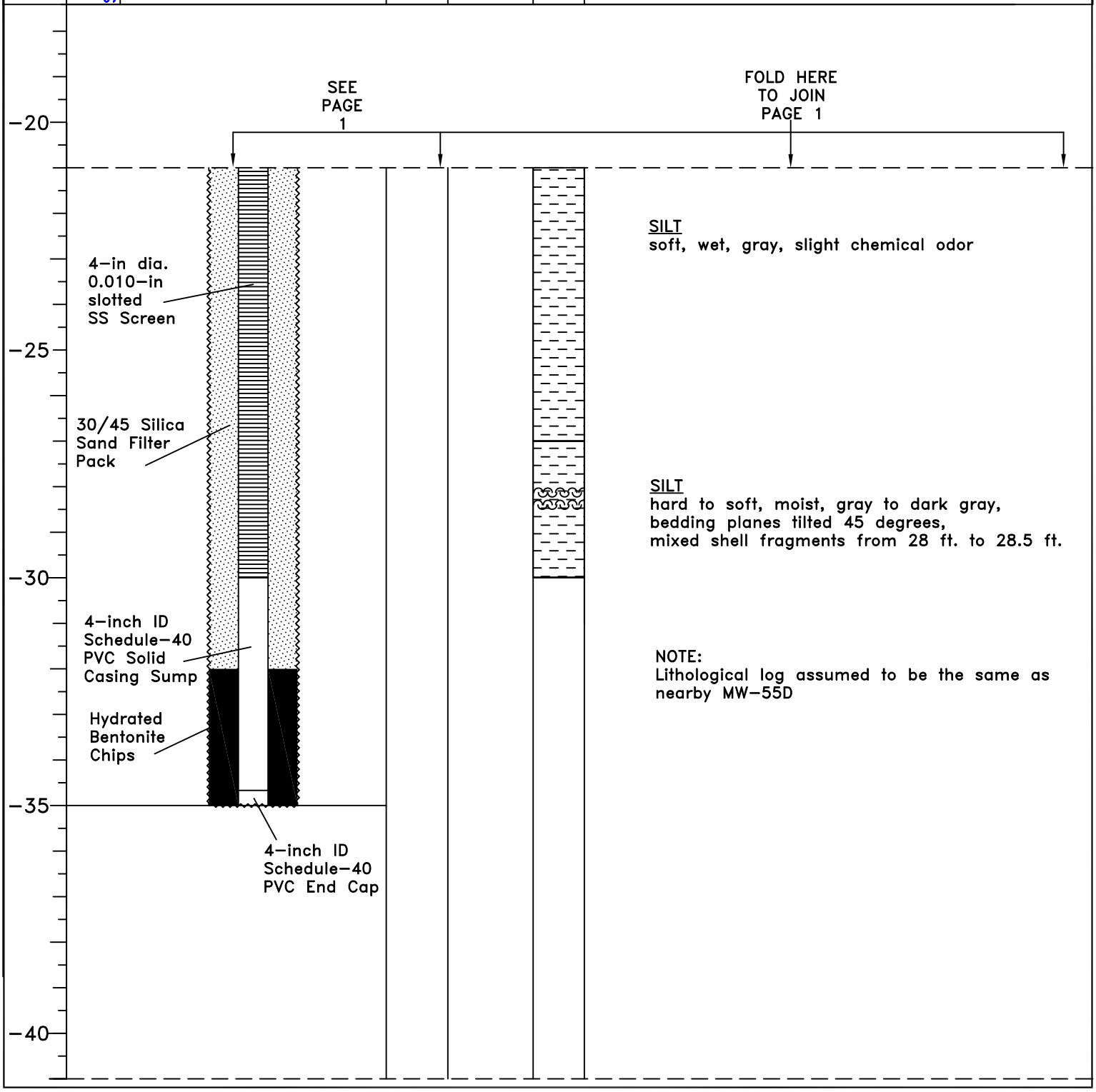


ENVIRONMENTAL INT'L CORP.
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA, 30009 USA
PHONE: 770-772-7100
FAX: 770-772-0555
http://www.eicusa.com

FIGURE 5-3: RECOVERY WELL RW-9

RECOVERY WELL	RW-9	DRILLING COMPANY	AE DRILLING SERVICES
PROJECT	MTL-SAVANNAH	DATE DRILLED	11/10/15
LOCATION	PORT WENTWORTH, GA	SURFACE ELEVATION	11.50 FT. NAVD88
JOB NUMBER	460007	TOTAL DEPTH OF WELL	35 FT. BGS
GEOLOGIST	N/A	TOP OF BEDROCK	N/A
DRILL METHOD	CME 550X with HSA	UPPER LIMIT OF SATURATION	15 FT. BGS (FROM MW-55D)

DEPTH (ft bgs)	UPPER LIMIT OF SATURATION	WELL CONST. DIAGRAM	RECOVERY LENGTH	SAMPLE INTERVAL (ft)	LITH. LOG	DESCRIPTION & REMARKS



HSI SITE 10406, FORMER MCKENZIE TANK LINES SITE

FOURTH SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT 3-1
EIC WELL PURGING AND SAMPLING DATA FIELD LOGS, OCTOBER 2015

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: G-17

DATE: 10/13/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: Partly Cloudy Windy 90°F

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 7.00 FT. TO 12.00 FT.

HEIGHT OF STICK-UP: 2.40 FT. | BTOC WELL SCREEN INTERVAL: 9.40 FT. TO 14.40 FT.

TOTAL WELL DEPTH (BTOC): Reported 14.40 FT Measured 12.35 FT. | INITIAL WATER LEVEL (BTOC): 4.15 FT. | TIME: 14:45

PURGING DEVICE: ~~Pegasus Alexis Peristaltic Pump~~ M.F. [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: — BENEATH OUTER CAP: — BENEATH INNER CAP: —

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (P.C) SERIAL ~~1UDRU5DA9~~ F4BV3CUL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
14:57	0	26.14	5.72	-4	1.13	5.7	1.07	NA	Yellow tint
15:02	625	25.31	5.71	-12	1.09	3.5	1.41	NA	
15:07	1125	25.60	5.68	-19	1.24	1.0	0.36	NA	
15:12	1625	25.59	5.63	-33	1.36	1.1	0.23	NA	
15:17	2125	25.71	5.64	-30	1.35	0.5	0.28	NA	
15:22	2625	25.79	5.65	-31	1.34	0.5	0.33	NA	
								9.49	

COMMENTS:

SAMPLE COLLECTION TIME: 15:25

PREPARED BY: S Helmly

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	9.9
Final tubing depth (ft.) BTOC	9.9
Initial pump speed	low
Time pump speed was initialized	14:51
Pump speed at flow into cylinder	Low
Started new roll of tubing at	

Lowered pump speed at 15:03

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

WELL/SAMPLE NO: G-19

DATE: 10/14/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: Clear, low wind, 78°F

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 5 FT. TO 10 FT.

HEIGHT OF STICK-UP: 2.77 FT. | BTOC WELL SCREEN INTERVAL: 7.77 FT. TO 12.77 FT.

TOTAL WELL DEPTH (BTOC): Reported 12.77 FT Measured 12.66 FT. | INITIAL WATER LEVEL (BTOC): 5.05 FT. | TIME: 10:45

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: — BENEATH OUTER CAP: — BENEATH INNER CAP: —

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 Cell | SERIAL # ~~UDRU5DA9~~ F4B U8CUL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
10:55	0	22.70	4.32	134	0.077	23.6	0.81	NA	
11:02	700	22.82	4.00	60	0.074	12.9	0.13	N/A	
11:07	1200	22.89	4.05	26	0.076	12.5	0.10	N/A	
11:12	1700	22.95	4.09	7	0.077	16.5	0.00	N/A	
11:24	2000	23.19	4.02	20	0.089	14.5	0.00	NA	
11:29	2500	23.28	3.99	27	0.087	20.7	0.00	NA	
11:34	3000	23.34	3.96	30	0.088	17.9	0.00	NA	
11:39	3500	23.36	3.93	40	0.089	18.3	0.00	NA	
11:41								9.45	

COMMENTS:

SAMPLE COLLECTION TIME: 11:43

PREPARED BY: ADC SFH

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	10
Initial tubing depth (ft.) BTOC	10.2
Final tubing depth (ft.) BTOC	10.2
Initial pump speed	2.75
Time pump speed was initialized	10:37
Pump speed at flow into cylinder	2.82
Started new roll of tubing at	

11:15 Horizontal tubing, paused pump and drove home to fix gaskets
11:19 reconnect

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks: Trouble establishing flow through the primer disconnect + reconnect multiple times

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: G-22

DATE: 10/14/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS:

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 5 FT. TO 10 FT.

HEIGHT OF STICK-UP: 3.67 FT. | BTOC WELL SCREEN INTERVAL: 8.67 FT. TO 13.67 FT.

TOTAL WELL DEPTH (BTOC): Reported 13.67 FT Measured 9.84 FT. | INITIAL WATER LEVEL (BTOC): 5.85 FT. | TIME: 9:03

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: — BENEATH OUTER CAP: — BENEATH INNER CAP: —

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (Flow) SERIAL # ~~UDRU5DA9~~ F4BUBCUL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
9:31	0	22.70	5.36	-32	1.09	105	0.17	NA	
								9.84	@10:07

COMMENTS: | SAMPLE COLLECTION TIME: 10:15 (well dry)
PREPARED BY: SHelwig

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	7.8
Final tubing depth (ft.) BTOC	9.8
Initial pump speed	1.72
Time pump speed was initialized	9:54
Pump speed at flow into cylinder	~~1.72~~ NA
Started new roll of tubing at	5th

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

lowered tubing to just above well bottom
9:34 paused pump and removed tubing to gauge
DTW = 9.81 ft BTOC DTB = 9.94 ft BTOC
Slow recharge

Additional remarks: 5th ~~[illegible]~~ ~~water~~ sporadic water intake, No cap on well

9:42 Reinserted tubing to ~~just~~ ~1 inch above well bottom, re-engaged pump slow speed
9:45 shut down pump to swap with other pump for lower speed
9:54 engaged New pump pump speed 1.72

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-2D

DATE: 10/12/2015 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 46000~~8~~9

WEATHER CONDITIONS: 80°F, < 5 mph wind, P. Cloudy, humid (cloudy)

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 17.50 FT. TO 27.50 FT.

HEIGHT OF STICK-UP: 0.05 FT. | BTOC WELL SCREEN INTERVAL: 17.50 FT. TO 27.50 FT.

TOTAL WELL DEPTH (BTOC): Reported 27.50 FT. Measured 26.67 FT. | INITIAL WATER LEVEL (BTOC): 4.42 FT. | TIME 15~~X~~:23 (as)

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
15:32	400	24.20	6.31	89	0.226	3.3	2.04	4.98	Initial water in tubing
15:37	460	22.10	6.34	77	0.239	0.5	1.24	5.13	at TDL is clear & no
15:42	860	21.89	6.37	73	0.241	0.0	0.95	5.24	particulates visible
15:47	1260 (as)	21.79	6.16	73	0.254	0.0	0.81	5.28	(as)
15:52	1660	21.57	6.01	58	0.333	0.0	0.71	5.29	
15:57	1960	21.48	5.92	56	0.370	0.0	0.62	5.29	- water from tank has
16:02	2320	21.42	5.97	50	0.410	0.0	0.59	5.28	chlorine/sulfur
16:08	2780	21.37	5.95	49	0.429	0.0	0.54	5.27	odor (15:59)
16:12	3080	21.37	5.84	53	0.447	0.0	0.50	5.27	
16:17	3460	21.33	5.80	54	0.454	0.0	0.47	5.26	
16:22	3840	21.28	5.72	58	0.465	0.0	0.44	5.25	
16:27	4140	21.29	5.88	47	0.471	0.0	0.44	5.27	
16:32	4580	21.26	5.89	46	0.477	0.0	0.44	5.30	
16:37	4900	21.21	5.87	46	0.484	0.0	0.42	5.30	

COMMENTS:

SAMPLE COLLECTION TIME: ~~16:16~~ (as) 16:39

PREPARED BY: Alan Jordan

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	~~27.5~~ 27.7 (as)
Initial tubing depth (ft.) BTOC	21.7
Final tubing depth (ft.) BTOC	21.7
Initial pump speed	2.47
Time pump speed was initialized	15:23
Pump speed at flow into cylinder	2.47
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	15:59	16:26						
Actual Volume (ml)	2100	2000						

Additional remarks:

2910 880

1440 2100 3540 40

1360 2100 3460

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-2S

DATE: 10/12/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 46000~~X~~9

WEATHER CONDITIONS: Sunny ~75°F little to no wind, v c5 mph wind, warm

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 2.85 FT. TO 7.85 FT.

HEIGHT OF STICK-UP: -0.11 FT. | BTOC WELL SCREEN INTERVAL: 2.10 FT. TO 7.10 FT.

TOTAL WELL DEPTH (BTOC): Reported 6.35 FT Measured 7.10 FT. | INITIAL WATER LEVEL (BTOC): 2.81 FT. | TIME: 12:46

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: 0.0 BENEATH OUTER CAP: 0.0 BENEATH INNER CAP: 0.0

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: Test America | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
12:57	0	23.48	6.33	63	0.736	0.0	3.15	3.04	first pull is clear no part
13:02	600	22.61	6.33	53	0.727	0.0	2.04	3.18	c Filtral water in tubing
13:07	1,220	22.45	6.22	49	0.787	0.0	1.45	3.33	
13:12	1,940	22.38	6.18	46	0.789	0.0	1.12	3.53	
13:17	2,460	22.34	6.26	38	0.799	0.0	0.81	3.66	
13:22	2,980	22.30	6.18	38	0.810	0.0	0.72	3.76	

COMMENTS:

SAMPLE COLLECTION TIME: 13:24

PREPARED BY: ADC [signature]

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	5.1 ~~[illegible]~~
Final tubing depth (ft.) BTOC	5.1 ~~[illegible]~~
Initial pump speed	3.33
Time pump speed was initialized	12:57
Pump speed at flow into cylinder	3.33
Started new roll of tubing at	

changed pump speed to allow stabilization

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	13:44							
Actual Volume (ml)	2,160							

Additional remarks:

400 120

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

WELL/SAMPLE NO: MW-4S

DATE: 10/13/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: 70°F warm wind partly cloudy

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 7 FT. TO 17 FT.

HEIGHT OF STICK-UP: 2.64 FT. | BTOC WELL SCREEN INTERVAL: 9.64 FT. TO 19.64 FT.

TOTAL WELL DEPTH (BTOC): Reported 19.64 FT Measured 18.24 FT. | INITIAL WATER LEVEL (BTOC): ~~6.63~~ 5.63 FT. | TIME: 10:14 BTOC = 5.63

PURGING DEVICE: ~~Regasus Alexis Peristaltic Pump~~ MF [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: — BENEATH OUTER CAP: — BENEATH INNER CAP: —

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (Low) SERIAL # ~~UDRU5DA9~~ F4BU8CUL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
10:29	0	22.89	5.31	-44	1.58	11.2	0.55	5.81	
10:34	500	23.02	5.27	-57	1.60	4.0	0.03	5.84	
10:39	1000	22.98	5.25	-60	1.64	1.4	0.00	5.84	
10:44	1500	22.88	5.25	-61	1.64	0.5	0.00	5.84	

COMMENTS:

SAMPLE COLLECTION TIME: 10:46

PREPARED BY: SHCline

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	13.2
Final tubing depth (ft.) BTOC	13.2
Initial pump speed	low
Time pump speed was initialized	10:21
Pump speed at flow into cylinder	low
Started new roll of tubing at	

Initial DTW BTOC = 5.63 ft.

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

WELL/SAMPLE NO: MW-11D

DATE: 10/12/2015 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 46000~~X~~9

WEATHER CONDITIONS: ~75°F, Humid, <5 mph wind, Pc cloudy

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 10 FT. TO 20 FT.

HEIGHT OF STICK-UP: 3.10 FT. | BTOC WELL SCREEN INTERVAL: 13.10 FT. TO 23.10 FT.

TOTAL WELL DEPTH (BTOC): Reported 23.10 FT Measured 21.90 FT. | INITIAL WATER LEVEL (BTOC): 8.15 FT. | TIME: 10:32 ~~DT Odor~~ (odor)

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: 0.0 BENEATH OUTER CAP: ~~NA~~ N/A BENEATH INNER CAP: 0.0
(Acid)

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
11:54	0	21.69	6.70	108	0.345	10.3	2.72	8.52	11:52 Factual water in
11:59	660	21.91	6.72	102	0.335	13.1	1.95	8.62	tubing clear with few
11:04	1,280	21.96	6.15	105	0.332	15.7	1.52	8.78	black particulates.
11:10	1,980	22.05	6.16	96	0.337	17.9	1.27	8.82*	At 11:56 I accidentally
11:15	2,480	22.11	6.14	87	0.337	11.6	0.96	8.95*2	raised tubing ~ 6-inches.
11:21	3,480	22.06	6.17	82	0.341	7.1	0.86	8.99	I lowered it back down
11:26	3980	22.07	6.17	78	0.343	9.0	0.73	9.04	past obstruction in
11:31	4480	22.10	6.17	81	0.342	5.6	0.62	9.06	well
									At 8:76 small black
									particulate passed
									through tubing at TOC.
									water has slight odor
									* at 11:14
									*2 At 11:19

COMMENTS: | SAMPLE COLLECTION TIME: 11:33

PREPARED BY: AS ADC Alan Jordan

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	16.4
Final tubing depth (ft.) BTOC	16.4
Initial pump speed	~~3.37~~
Time pump speed was initialized	~~10:34~~
Pump speed at flow into cylinder	3.37
Started new roll of tubing at	

(as) silicon pieces pieces, as not getting suction.
Replaced with longer silicon 3.38 - speed
10:44 - time
49 (as)
11:11 - pump accidently turned off for a few seconds

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	11:11	11:16	11:33					
Actual Volume (ml)	2080	600	2000					

Additional remarks: Tubing with obstruction in well when initially installing at ~ 20' bgs. Obstruction was ~~[illegible]~~ of silt in Horiba flow through cell.

2080 401 2080 780 600 3,760 1800 1,300

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-14D

DATE: 10/14/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: Clear 10 mph wind 82°F.

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 26.34 FT. TO 31.34 FT.

HEIGHT OF STICK-UP: 2.83 FT. | BTOC WELL SCREEN INTERVAL: 29.17 FT. TO 34.17 FT.

TOTAL WELL DEPTH (BTOC): Reported 33.83 FT Measured 34.17 FT. | INITIAL WATER LEVEL (BTOC): 6.20 FT. | TIME: 12:09

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: — BENEATH OUTER CAP: — BENEATH INNER CAP: —

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (Pump) SERIAL # ~~UDRU5DA9~~ F4DV8CVL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
12:24	0	~~5.54~~	5.51	-27	0.205	5.7	1.31	6.72	T = 24.49 C°
12:29	500	24.38	5.85	-71	0.210	2.9	0.50	6.90	
12:34	1000	24.35	5.98	-87	0.212	0.7	0.18	7.07	
12:39	1500	24.37	6.03	-92	0.211	0.4	0.08	7.11	
12:44	2000	24.48	6.05	-94	0.210	0.0	0.18	7.13	

COMMENTS:

SAMPLE COLLECTION TIME: 12:49

PREPARED BY: ~~12:49~~ ADC SFH

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	39.5
Initial tubing depth (ft.) BTOC	31.7
Final tubing depth (ft.) BTOC	31.7
Initial pump speed	2.50
Time pump speed was initialized	12:19
Pump speed at flow into cylinder	2.70
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-15S

DATE: 10/13/2015 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002.9

WEATHER CONDITIONS: P: Cloudy, ~80°F, 0-5 mph wind, humid

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 9.79 FT. TO 19.79 FT.

HEIGHT OF STICK-UP: 2.58 FT. | BTOC WELL SCREEN INTERVAL: 12.37 FT. TO 22.37 FT.

TOTAL WELL DEPTH (BTOC): Reported 15.08 FT Measured 22.37 FT. | INITIAL WATER LEVEL (BTOC): 3.74 FT. | TIME: ~~8~~ 14:39 (adj)

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TSI Amarillo | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
14:50	0	28.46	6.49	60	0.352	0.0	1.54	NM	- Initial water in tubing
14:55	440	25.70	7.10	8	0.376	0.0	1.12	NM	clear with few black
15:00	840	23.88	7.14	-2	0.389	0.0	0.97	NM	particulate matter.
15:05	1,260	23.18	7.14	-8	0.395	0.0	0.88	NM	DTW not measured due
15:10	1,700	22.87	~~8.07~~ 7.07 (adj)	10	0.395	0.0	0.82	NM	to 1-inch ID casing
15:12								7.15	during pumping.

COMMENTS:

SAMPLE COLLECTION TIME: ~~8:12 (adj)~~ 15:12 (adj)

PREPARED BY: [signature]

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	17.4
Final tubing depth (ft.) BTOC	17.4
Initial pump speed	2.47
Time pump speed was initialized	14:45
Pump speed at flow into cylinder	2.47
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks: Large oak tree has fallen nearby.

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-26

DATE: 10/13/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: 78°F Partly Cloudy low wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 27.42 FT. TO 37.42 FT.

HEIGHT OF STICK-UP: 2.75 FT. | BTOC WELL SCREEN INTERVAL: 30.17 FT. TO 40.17 FT.

TOTAL WELL DEPTH (BTOC): Reported 22.75 FT Measured 40.17 FT. | INITIAL WATER LEVEL (BTOC): 2.92 FT. | TIME: 15:45

PURGING DEVICE: ~~Pegasus Alexis Peristaltic Pump~~ MF [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: — BENEATH OUTER CAP: — BENEATH INNER CAP: —

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (Disc) SERIAL ~~HUDRU5DA9~~ F4BV0CUL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
15:56	0	25.32	6.85	18	0.382	5.8	0.54	NA	
16:01	500	24.27	6.98	-3	0.390	4.5	0.41	NA	
16:06	1000	23.90	7.01	-20	0.388	27.0	0.17	NA	
16:11	1500	23.86	7.08	-46	0.388	25.1	0.04	NA	
16:16	2000	23.69	7.17	-62	0.388	14.2	0.00	NA	
16:21	2500	23.73	7.20	-71	0.387	8.5	0.00	NA	
16:26	3000	23.71	7.21	-78	0.387	4.4	0.00	NA	
								8.15	

COMMENTS:

SAMPLE COLLECTION TIME: 16:29

PREPARED BY: Shelby

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	38.7
Initial tubing depth (ft.) BTOC	35.2
Final tubing depth (ft.) BTOC	35.2
Initial pump speed	low
Time pump speed was initialized	15:42
Pump speed at flow into cylinder	low
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-29

DATE: 10/12/2015 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: P. Cloudy, ~80°F, humid, 0-5 mph wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 10.42 FT. TO 20.42 FT.

HEIGHT OF STICK-UP: -0.01 FT. | BTOC WELL SCREEN INTERVAL: 10.42 FT. TO 20.42 FT. ady

TOTAL WELL DEPTH (BTOC): Reported 20.00 FT Measured 19.76 FT. | INITIAL WATER LEVEL (BTOC): 3.17 FT. | TIME: 12:00 ~~Final Sampling~~

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: N/A BENEATH OUTER CAP: N/A BENEATH INNER CAP: N/A

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: Test America | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
12:12	0	29.37	6.32	-3	0.362	1.3	0.88	N/A	
12:18	900	28.48	5.95	21	~~0.304~~	0.0	0.58	N/A	SC = 0.340 mS/cm
12:23	1400	27.03	5.93	21	0.341	0.0	0.58	N/A	
12:28	2000	27.97	5.88	27	0.367	0.0	0.47	N/A	
12:33	2540	27.94	5.90	25	0.370	0.0	0.45	N/A	
12:38	3160	28.19	5.91	25	0.374	0.0	0.44	N/A	

COMMENTS:

SAMPLE COLLECTION TIME: 12:40

PREPARED BY: ADG

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20.00
Initial tubing depth (ft.) BTOC	14.8
Final tubing depth (ft.) BTOC	14.8
Initial pump speed	3.34
Time pump speed was initialized	12:05
Pump speed at flow into cylinder	3.34
Started new roll of tubing at	—

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	12:29							
Actual Volume (ml)	2000							

Additional remarks: Well located straight out from large forked sweet gum tree to the west.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-31

DATE: 10/14/2015 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002-9

WEATHER CONDITIONS: ~78°F, Fair, 0-5 mph wind, humid

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 12 FT. TO 22 FT.

HEIGHT OF STICK-UP: 2.42 FT. | BTOC WELL SCREEN INTERVAL: 14.42 FT. TO 24.42 FT.

TOTAL WELL DEPTH (BTOC): Reported 24.42 FT Measured 22.23 FT. | INITIAL WATER LEVEL (BTOC): 5.49 FT. | TIME: 10:59

PURGING DEVICE: ~~Pegasus Alexis~~ Peristaltic Pump Masterflex E/S [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: Test America | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
10:59								5.49	(as)
11:09	0	20.74	5.97	62	0.862	89.5	4.60	NM	- 1-inch ID well
11:14	540	20.83	5.81	71	0.959	41.2	1.98	NM	- water in cylinder
11:19	1,100	20.89	5.71	77	0.985	39.1	1.38	NM	has orange tint
11:24	1700	20.94	5.69	82	0.992	27.2	0.97	NM	
11:29	2200	20.95	5.67	83	0.998	20.5	0.88	NM	
11:34	2760	21.00	5.61	87	1.00	30.7	0.77	NM	
11:39	3,300	21.03	5.63	86	0.979	28.7	0.71	NM	
11:44	3,700	21.09	5.62	86	0.982	22.6	0.70	NM	
11:49	3,980	21.20	5.58	89	0.970	24.4	0.77	NM	
							11:55	(as)	

COMMENTS:

SAMPLE COLLECTION TIME: 11:50 — NO water flow from tubing when attempting to fill sample bottles due to kinks in tubing.

PREPARED BY: Adam Amrine

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	16.7
Final tubing depth (ft.) BTOC	16.7
Initial pump speed	Low
Time pump speed was initialized	10:59
Pump speed at flow into cylinder	Low
Started new roll of tubing at	

11:05 Restarted after normal flow (Low speed)

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	2200							
Actual Volume (ml)	11:29							

Additional remarks:

1881
2200
3780

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-32

DATE: 10/14/2015 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002.09

WEATHER CONDITIONS: ~70°F, Fair, 2 South wind, humid

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 12 FT. TO 22 FT.

HEIGHT OF STICK-UP: 2.37 FT. | BTOC WELL SCREEN INTERVAL: 14.37 FT. TO 24.37 FT.

TOTAL WELL DEPTH (BTOC): Reported 24.37 FT Measured 22.15 FT. | INITIAL WATER LEVEL (BTOC): 5.20 FT. | TIME: 8:54

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TEST AMERICA | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
9:15	0	22.27	5.22	190	0.390	16.4	1.64	NM	
9:20	640	21.68	4.86	211	0.390	11.6	1.02	NM	
9:25	1,080	21.47	4.79	214	0.390	8.2	0.87	NM	
9:30	1,640	21.13	4.65	220	0.391	7.9	0.77	NM	
9:35	2300	20.85	4.64	222	0.393	8.7	0.73	NM	
9:40	3160	20.76	4.58	230	0.395	9.5	0.70	NM	
9:41								5.20	using quickly

COMMENTS:

SAMPLE COLLECTION TIME: 9:42

PREPARED BY: Alan Stark ADP

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	17.2
Final tubing depth (ft.) BTOC	17.2
Initial pump speed	3.04
Time pump speed was initialized	8:59
Pump speed at flow into cylinder	3.02
Started new roll of tubing at	

~ 9:03 Turned off pump to get replacement silicon at pump head as well filter tray broke!
9:11 Restarted pump at 6.50 speed, then 7.54 speed to get water to flow. 9:13 - 3.02 speed. Did not need new silicon tubing. Got water starting flowing by speed increased by raising pump about 10%.

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-33

DATE: 10/13/2015 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460009

WEATHER CONDITIONS: ~80°F, P.C. Cloudy, 0-5mph windy, humid

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 10 FT. TO 20 FT.

HEIGHT OF STICK-UP: 2.38 FT. | BTOC WELL SCREEN INTERVAL: 12.38 FT. TO 22.38 FT.

TOTAL WELL DEPTH (BTOC): Reported 22.38 FT Measured 22.13 FT. | INITIAL WATER LEVEL (BTOC): 4.12 FT. | TIME: 15:33

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: Test America | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
15:44	0	25.69	7.10	-26	0.473	0.0	1.44	NM	Initial water clear in
15:49	~~820~~	25.44	6.97	-18	0.503	0.0	0.75	NM	tubes & no particulates.
15:54	820	24.54	6.80	-11	0.515	0.0	0.62	NM	Vol=1500mL
15:59	2000	23.99	7.13	-34	0.524	0.0	0.59	NM	
16:04	2760	23.68	7.04	-54	0.528	0.0	0.54	NM	
16:09	3520	23.45	6.98	-35	0.529	0.0	0.53	NM	
16:14	4100	23.32	7.03	-44	0.535	0.0	0.52	NM	

COMMENTS:

SAMPLE COLLECTION TIME: 16:16

PREPARED BY: Alex Clarke ADC

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	17.1
Final tubing depth (ft.) BTOC	17.1
Initial pump speed	3.47
Time pump speed was initialized	~~15:36~~ 15:36 (as)
Pump speed at flow into cylinder	7 then slowed to 3.47
Started new roll of tubing at	

~ 15:38 water not rising in tubes from well.
15:42 - Got water to flow after adjusting silicon & turning pump at ~ 7 speed.

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	15:59	16:12						
Actual Volume (ml)	2000	4000						

Additional remarks:

03

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-35

DATE: 10/13/2015 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002.7

WEATHER CONDITIONS: ~80°F, P. Cloudy, 0-5 mph wind, humid

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 28.02 FT. TO 38.02 FT.

HEIGHT OF STICK-UP: 1.18 FT. | BTOC WELL SCREEN INTERVAL: 29.20 FT. TO 39.20 FT.

TOTAL WELL DEPTH (BTOC): Reported 21.18 FT Measured 39.20 FT. | INITIAL WATER LEVEL (BTOC): 0.71 FT. | TIME: 16:32

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: | FLOW THROUGH CELL MODEL: Horiba U-52 SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
16:48	0	23.56	7.24	-43	0.382	3.4	2.34	NM	Initial water clear
16:53	500	22.02	7.50	-62	0.394	56.2	1.51	NM	
16:58	960	21.54	7.90	-74	0.397	39.2	1.11	NM	
17:03	1400	21.33	7.80	-68	0.398	29.6	0.56	NM	17:04 water from tube has sulphur odor
17:08	1840	21.16	8.11	-88	0.398	23.2	0.88	NM	
17:13	2320	20.98	8.12	-89	0.399	23.3	0.81	NM	
17:18	2800	20.93	8.07	-87	0.400	23.3	0.76	NM	
17:20								6.50	- & rapidly rising

COMMENTS:

SAMPLE COLLECTION TIME: 17:20

PREPARED BY: Alan Smith

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	37.2
Initial tubing depth (ft.) BTOC	34.2
Final tubing depth (ft.) BTOC	~~[illegible]~~ at 34.2
Initial pump speed	250
Time pump speed was initialized	16:43
Pump speed at flow into cylinder	250
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	17:04							
Actual Volume (ml)	2,000							

Additional remarks: Well screen interval unknown.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-36

DATE: 10/13/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: Sunny Partly cloudy ~78°F little to no wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [X] OTHER: 3/4" | BGS WELL SCREEN INTERVAL: 34.85 FT. TO 39.85 FT.

HEIGHT OF STICK-UP: 2.08 FT. | BTOC WELL SCREEN INTERVAL: 36.93 FT. TO 41.93 FT.

TOTAL WELL DEPTH (BTOC): Reported 30.08 FT Measured 41.93 FT. | INITIAL WATER LEVEL (BTOC): 4.08 FT. | TIME: 8:45

PURGING DEVICE: ~~Pegasus Alexis Peristaltic Pump~~ M.F. [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (Pink) SERIAL # ~~UDRU5DA9~~ F4BU9CUL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
9:01	0	20.94	6.53	-27	0.400	0.0	0.90	NA	
9:06	500	21.49	6.62	-81	0.395	0.0	0.55	NA	
9:11	1000	21.57	6.69	-104	0.393	0.0	0.59	NA	
9:16	1500	21.40	6.73	-103	0.393	1.1	0.76	NA	
9:21	2000	21.65	6.70	-99	0.394	3.1	0.71	NA	
9:26	2500	21.62	6.67	-94	0.394	10.2	0.78	NA	
9:31	3000	21.78	6.63	-93	0.395	17.0	0.75	NA	
9:36	3500	21.74	6.62	-93	0.395	17.4	0.54	NA	
9:41	4000	21.74	6.61	-90	0.395	17.9	0.50	NA	
9:48	4700	21.90	6.58	-88	0.395	16.9	0.51	NA	
9:53	5400	21.98	6.59	-90	0.396	11.2	0.47	NA	
9:54								24.30	

COMMENTS:

SAMPLE COLLECTION TIME: 9:55

PREPARED BY: ADG SFH

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	42.4
Initial tubing depth (ft.) BTOC	39.4
Final tubing depth (ft.) BTOC	39.4
Initial pump speed	Low
Time pump speed was initialized	9:48
Pump speed at flow into cylinder	~~9:53~~ 5:1 Low
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks: Water over flowed well upon insertion of tubing

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-37S

DATE: 10/13/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: 82°F light wind Partly Cloudy

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 10.41 FT. TO 20.41 FT.

HEIGHT OF STICK-UP: -0.41 FT. | BTOC WELL SCREEN INTERVAL: 10 FT. TO 20 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 20.02 FT. | INITIAL WATER LEVEL (BTOC): 4.93 FT. | TIME: 12:30

PURGING DEVICE: ~~Pegasus Alexis Peristaltic Pump~~ M.F. [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: — BENEATH OUTER CAP: — BENEATH INNER CAP: —

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 Pro SERIAL # ~~UDRU5DA9~~ F4BV9CUL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
12:41	0	29.93	6.05	-47	0.225	2.1	0.75	5.05	
12:46	600	27.81	5.86	-57	0.234	0.8	0.22	5.05	
12:52	1320	26.87	5.82	-63	0.238	0.0	0.00	5.05	
12:57	1920	26.69	5.81	-65	0.239	0.0	0.00	5.05	

COMMENTS:

SAMPLE COLLECTION TIME: 12:59

PREPARED BY: S Helmig

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	15
Final tubing depth (ft.) BTOC	15
Initial pump speed	120
Time pump speed was initialized	12:37
Pump speed at flow into cylinder	120
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

WELL/SAMPLE NO: MW-38D

DATE: 8/13/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: 81°F low wind Partly cloudy

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 25.53 FT. TO 30.53 FT.

HEIGHT OF STICK-UP: -0.53 FT. | BTOC WELL SCREEN INTERVAL: 25 FT. TO 30 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 29.86 FT. | INITIAL WATER LEVEL (BTOC): 5.14 FT. | TIME: 11:22

PURGING DEVICE: ~~Pegasus Alexis Peristaltic Pump~~ M.E. [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: — BENEATH OUTER CAP: — BENEATH INNER CAP: —

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (Pine) SERIAL # ~~UDRU5DA9~~ FYBU3CUL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
11:34	0	25.23	6.34	-106	0.640	0.0	0.34	5.44	
11:39	625	25.09	6.44	-119	0.640	0.0	0.07	6.31	
11:44	1150	25.34	6.47	-124	0.629	1.9	0.02	6.40	
11:52	~~1550~~	26.17	6.47	-124	0.614	1.5	0.17	6.24	V= 1750
11:57	2250	26.66	6.50	-129	0.535	1.1	0.00	6.45	
12:02	2750	25.84	6.52	-132	0.590	5.2	0.00	6.51	
12:07	3250	26.13	6.53	-129	0.581	2.1	0.00	6.35	

COMMENTS:

SAMPLE COLLECTION TIME: 12:09

PREPARED BY: Stelay

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	30.5
Initial tubing depth (ft.) BTOC	27.5
Final tubing depth (ft.) BTOC	27.5
Initial pump speed	low
Time pump speed was initialized	11:27
Pump speed at flow into cylinder	low
Started new roll of tubing at	

lowered pump speed at 11:39

Pump shut off occured at 11:50

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

WELL/SAMPLE NO: MW-39D

DATE: 10/13/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: 75°F no wind Partly Cloudy

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 25.07 FT. TO 30.07 FT.

HEIGHT OF STICK-UP: -0.07 FT. | BTOC WELL SCREEN INTERVAL: 25 FT. TO 30 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured FT. | INITIAL WATER LEVEL (BTOC): 2.83 FT. | TIME: 17:32

PURGING DEVICE: ~~Pegasus~~ Alexis Peristaltic Pump M.F. [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: — BENEATH OUTER CAP: — BENEATH INNER CAP: —

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (Pin) SERIAL # ~~UDRU5DA9~~ F4BV8CVL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
17:42	0	23.68	6.44	-21	0.350	0.7	0.94	2.97	
17:47	500	23.20	6.75	-58	0.355	0.0	0.20	2.98	
17:52	1000	22.99	6.83	-72	0.355	0.0	0.02	2.98	
17:57	1500	22.95	6.86	-77	0.355	0.0	0.00	2.98	
18:02	2000	22.91	6.86	-81	0.356	0.0	0.00	2.98	

COMMENTS:

SAMPLE COLLECTION TIME: 18:04

PREPARED BY: SHeely

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	32.5
Initial tubing depth (ft.) BTOC	27.5
Final tubing depth (ft.) BTOC	27.5
Initial pump speed	low
Time pump speed was initialized	17:38
Pump speed at flow into cylinder	Low
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-40S

DATE: 10/13/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: 76°F No wind Mostly Cloudy

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 10.28 FT. TO 20.28 FT.

HEIGHT OF STICK-UP: -0.28 FT. | BTOC WELL SCREEN INTERVAL: 10 FT. TO 20 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 20.12 FT. | INITIAL WATER LEVEL (BTOC): 1.09 FT. | TIME: 16:47

PURGING DEVICE: ~~Pegasus Alexis Peristaltic Pump~~ M.F. [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: — BENEATH OUTER CAP: — BENEATH INNER CAP: —

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (p.x) SERIAL # ~~UDRU5DA9~~ FUBU3(UL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
16:58	0	23.78	6.31	-57	0.267	0.0	0.59	1.17	
17:03	500	22.97	6.11	-85	0.271	0.0	0.03	1.17	
17:08	1000	22.79	6.07	-87	0.271	0.0	0.00	1.17	
17:13	1500	22.72	6.05	-89	0.272	0.0	0.00	1.17	

COMMENTS:

SAMPLE COLLECTION TIME: 17:15

PREPARED BY: S Helmly

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	15
Final tubing depth (ft.) BTOC	15
Initial pump speed	Low
Time pump speed was initialized	1655
Pump speed at flow into cylinder	Low
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-41D

DATE: 10/12/2015 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460009

WEATHER CONDITIONS: ~80°F, P. Cloudy, ~0-5 mph wind, humid

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 25.04 FT. TO 30.04 FT.

HEIGHT OF STICK-UP: -0.04 FT. | BTOC WELL SCREEN INTERVAL: 25 FT. TO 30 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 30.25 FT. | INITIAL WATER LEVEL (BTOC): 3.62 FT. | TIME: 11:04

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NA

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: Test America | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
11:13	0	24.56	6.85	-58	0.322	6.7	1.52	4.15	Initial water in
11:18	620	24.98	7.19	-70	0.319	4.6	0.92	4.28	tubing clear with a
11:23	1,340	24.97	7.32	-77	0.315	2.4	0.73	4.33	few black particulates
11:28	2,060	24.87	7.19	-67	0.310	1.3	0.65	~~5.~~ 4.32	
11:33	2,580	24.91	7.80	-107	0.306	3.4	0.60	4.31	
11:38	3,140	24.98	7.61	-96	0.308	2.8	0.58	4.31	
11:43	3760	25.14	7.6[illegible]	-99	0.306	0.0	0.56	4.31	
11:48	4600	25.31	7.51	-93	0.306	0.0	0.53	4.31	

COMMENTS:

SAMPLE COLLECTION TIME: 11:50

PREPARED BY: Alan Stark ADE

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	30.5
Initial tubing depth (ft.) BTOC	27.5
Final tubing depth (ft.) BTOC	27.5
Initial pump speed	3.31
Time pump speed was initialized	11:08
Pump speed at flow into cylinder	3.31
Started new roll of tubing at	

11:09 - Turned pump off ~10 seconds to adjust silicon. (as) out

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	11:30							
Actual Volume (ml)	2,100							

Additional remarks: well is located straight north from willow tree ~30' to the west. Well was found covered under a mat of grass & weeds. Water in vault - level ~1/2" below TOC

4

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-42S

DATE: 10/12/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: Cloudy ~78°F little to no wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 10.39 FT. TO 20.39 FT.

HEIGHT OF STICK-UP: -0.39 FT. | BTOC WELL SCREEN INTERVAL: 10 FT. TO 20 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 19.18 FT. | INITIAL WATER LEVEL (BTOC): 4.24 FT. | TIME: 16:56

PURGING DEVICE: ~~Pegasus Alexis Peristaltic Pump~~ M.E. [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (Pine) SERIAL # ~~UDRU5DA9~~ F4BV8CVL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
17:01	0	28.07	11.17	-172	1.13	8.9	3.33	5.08	
17:06	600	28.01	11.36	-216	1.22	8.2	2.39	5.04	
17:11	1100	27.88	11.37	-222	1.21	7.4	2.22	5.04	
17:16	1600	27.79	11.21	-221	1.12	6.7	2.04	4.99	
17:22	2200	27.72	11.09	-222	1.03	17.9	1.81	4.97	
17:27	2700	27.67	11.05	-223	0.996	35.0	1.70	4.95	
17:32	3200	27.65	11.01	-226	0.959	56.8	1.53	4.94	
17:37	3800	27.64	10.97	-228	0.925	61.9	1.39	4.92	
17:42	4300	27.51	10.92	-231	0.886	56.1	1.26	4.90	
17:47	4800	27.53	10.89	-234	0.864	60.0	1.14	4.88	
17:52	5300	27.48	10.82	-235	0.816	59.1	1.06	4.86	
17:57	5800	27.39	10.78	-236	0.793	38.0	0.93	4.86	
18:02	6300	27.37	10.72	-236	0.774	29.9	0.85	4.86	
18:07	6800	27.26	10.67	-237	0.760	20.1	0.78	4.86	
18:12	7300	27.18	10.61	-237	0.748	17.1	0.68	4.96	
18:17	7800	27.11	10.47	-235	0.727	14.8	0.60	4.86	to second sheet →

COMMENTS:

SAMPLE COLLECTION TIME: 18:36

PREPARED BY: Gillenly ADC

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	15
Final tubing depth (ft.) BTOC	15
Initial pump speed	low
Time pump speed was initialized	16:57
Pump speed at flow into cylinder	
Started new roll of tubing at	

~~Inverted pump~~ S.H.

DTB = 19.18

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-42S

DATE: 10/12/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS:

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 10.39 FT. TO 10.39 FT.

HEIGHT OF STICK-UP: -0.39 FT. | BTOC WELL SCREEN INTERVAL: ~~9.10~~ 10 FT. TO 20 FT.

TOTAL WELL DEPTH (BTOC): 19.18 FT. | INITIAL WATER LEVEL (BTOC): ~~4.7~~ 4.24 FT. | TIME: 16:56

PURGING DEVICE: ~~Pegasus Alexis Peristaltic Pump~~ MF [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: — BENEATH OUTER CAP: — BENEATH INNER CAP: —

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | WATER ANALYZER MODEL: Horiba U-52 (Pinc) | SERIAL #: ~~UDRU5DA9~~ FLANSCUL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
18:23	8400	26.96	10.48	-237	0.723	12.1	0.51	4.86	
18:29	9000	26.79	10.45	-237	0.717	11.7	0.44	4.86	
18:34	9500	26.68	10.44	-237	0.711	11.3	0.46	4.86	

COMMENTS: | SAMPLE COLLECTION TIME: 18:35

PREPARED BY: ADC SFH

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	29
Initial tubing depth (ft.) BTOC	15
Final tubing depth (ft.) BTOC	15
Initial pump speed	100
Time pump speed was initialized	~~17~~ 16:57
Pump speed at flow into cylinder	12
Started new roll of tubing at	

DTB = 19.18

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-43D

DATE: 10/12/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: cloudy ~ 80°F little to no wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 25.36 FT. TO 30.36 FT.

HEIGHT OF STICK-UP: -0.36 FT. | BTOC WELL SCREEN INTERVAL: 25 FT. TO 30 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 31.29 FT. | INITIAL WATER LEVEL (BTOC): 4.19 FT. | TIME: 15:30

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (Pine) SERIAL # ~~U9RU5DA9~~ T4DVCUL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
15:43	0	27.45	6.57	3	0.473	37.0	2.34	4.46	
1548	880	26.76	6.94	-2	0.473	47.3	0.71	4.48	
15:53	1760	26.48	7.04	-3	0.458	38.3	0.36	4.48	
15:58	2635	26.39	7.10	-2	0.452	40.3	0.14	4.48	
16:03	3510	26.30	7.14	-2	0.447	27.1	0.13	4.48	
16:08	4385	26.25	7.16	-2	0.443	21.6	0.06	4.48	
16:13	5265	26.26	7.19	~~-2~~ -1	0.438	15.6	0.00	4.48	orP = -1
16:18	6140	26.28	7.22	0	0.436	13.3	0.00	4.49	
16:24	7140	26.75	7.22	2	0.437	11.8	0.00	4.48	
16:29	8070	26.27	7.23	3	0.435	9.6	0.00	4.48	

COMMENTS:

SAMPLE COLLECTION TIME: 16:31

PREPARED BY: SFH.

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	30.5
Initial tubing depth (ft.) BTOC	27.5
Final tubing depth (ft.) BTOC	27.5
Initial pump speed	LOW
Time pump speed was initialized	15:40
Pump speed at flow into cylinder	LOW
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-44D

DATE: 10/12/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: 84°F Sunny No wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 25.26 FT. TO 30.26 FT.

HEIGHT OF STICK-UP: -0.26 FT. | BTOC WELL SCREEN INTERVAL: 25 FT. TO 30 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 30.48 FT. | INITIAL WATER LEVEL (BTOC): 6.89 FT. | TIME: 12:17

PURGING DEVICE: ~~Pegasus Alexis Peristaltic Pump~~ SM M.F. [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: _____ BENEATH OUTER CAP: _____ BENEATH INNER CAP: _____

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (Mix) SERIAL # ~~UDRU5DA9~~ SYI

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
12:28	0	25.28	5.50	-36	0.464	13.5	1.24	6.92	Clear
12:33	400	26.03	5.58	-64	0.471	1.0	0.49	6.88	
12:38	950	26.37	5.56	-74	0.490	0.6	0.23	6.87	
12:43	1450	26.53	5.56	-77	0.497	0.3	0.25	6.87	
12:48	1900	26.66	5.56	-78	0.506	0.3	0.13	6.88	

COMMENTS:

SAMPLE COLLECTION TIME: 12:50

PREPARED BY: ADC

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	305
Initial tubing depth (ft.) BTOC	275
Final tubing depth (ft.) BTOC	275
Initial pump speed	Low
Time pump speed was initialized	12:24
Pump speed at flow into cylinder	Low
Started new roll of tubing at	—

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-45S

DATE: 10/12/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: 78°F Sunny Wind Warm

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 10.38 FT. TO 20.38 FT.

HEIGHT OF STICK-UP: -0.38 FT. | BTOC WELL SCREEN INTERVAL: 10 FT. TO 20 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 20.21 FT. | INITIAL WATER LEVEL (BTOC): 6.47 FT. | TIME: 12:59

PURGING DEVICE: ~~Pegasus Alexis Peristaltic Pump~~ ME [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: 0.0 BENEATH OUTER CAP: 0.0 BENEATH INNER CAP: 0.0

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (Aire) SERIAL # ~~UDRU5DA9~~ FMBV3CVL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
13:12	0	27.16	5.27	-22	0.486	0.3	0.78	6.68	
13:17	400	27.78	5.22	-48	0.481	0.2	0.54	6.68	
13:22	800	27.93	5.21	-62	0.488	0.1	0.17	6.68	
13:27	1300	28.03	5.22	-68	0.484	0.1	0.12	6.68	
13:32	1750	28.14	5.23	-71	0.481	0.2	0.14	6.68	

COMMENTS:

SAMPLE COLLECTION TIME: 13:34

PREPARED BY: STH

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	15
Final tubing depth (ft.) BTOC	15
Initial pump speed	LOW
Time pump speed was initialized	13:08
Pump speed at flow into cylinder	Low
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

WELL/SAMPLE NO: MW-46S

DATE: 10/12/2015 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 46000.19

WEATHER CONDITIONS:

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 10.27 FT. TO 20.27 FT.

HEIGHT OF STICK-UP: -0.27 FT. | BTOC WELL SCREEN INTERVAL: 10 FT. TO 20 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 19.63 FT. | INITIAL WATER LEVEL (BTOC): 6.34 FT. | TIME: 11:59 – Pump started at same time

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
12:06	0	24.10	6.02	66	0.710	31.8	2.38	6.59	12:07 Initial water
12:11	640	24.64	5.80	87	0.716	26.7	1.22	6.60	in bottle clear
12:16	1280	24.84	5.81	89	0.719	8.2	1.03	6.59	no particulates visible
12:21	1880	25.05	5.85	90	0.721	5.5	0.81	6.63	12:24 – water has no
12:26	2,480	25.13	5.88	87	0.722	0.0	0.57	6.61	odor

COMMENTS: | SAMPLE COLLECTION TIME: 12:28

PREPARED BY: [signature]

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	15
Final tubing depth (ft.) BTOC	15
Initial pump speed	~~1.234~~
Time pump speed was initialized	~~3.37~~ 11:58 59
Pump speed at flow into cylinder	3.29 12:01
Started new roll of tubing at	

Restarted pump after reclamping solution tubing due to no water being drawn

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	12:18							
Actual Volume (ml)	2000							

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-47D

DATE: 10/12/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: Clear low wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 25.03 FT. TO 30.03 FT.

HEIGHT OF STICK-UP: -0.03 FT. | BTOC WELL SCREEN INTERVAL: 25 FT. TO 30 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 30.13 FT. | INITIAL WATER LEVEL (BTOC): 6.43 FT. | TIME: 10:35

PURGING DEVICE: ~~Regasus Alexis Peristaltic Pump~~ SH MF [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: 0.0 BENEATH OUTER CAP: 0.0 BENEATH INNER CAP: 0.0

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (Pine) SERIAL # ~~UDRU5DA9~~ SH F4BU8CUL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
10:44	0	22.63	6.10	51	0.314	13.0	3.13	6.65	
10:49	500	22.35	6.21	35	0.322	10.5	0.47	6.64	
10:54	1100	22.25	6.22	24	0.327	9.9	0.18	6.65	
11:00	~~2250~~	22.18	6.25	2	0.332	8.3	0.02	6.65	V=1450
11:05	3000	22.08	6.27	-13	0.334	5.7	0.00	6.65	
11:10	4800	22.09	6.29	-14	0.33	4.4	0.00	6.65	

COMMENTS:

SAMPLE COLLECTION TIME: 11:13

PREPARED BY: ADC

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	30.5
Initial tubing depth (ft.) BTOC	27.5
Final tubing depth (ft.) BTOC	27.5
Initial pump speed	LOW
Time pump speed was initialized	10:77
Pump speed at flow into cylinder	LOW
Started new roll of tubing at	—

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-48S

DATE: 10/12/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: Sunny ~72°F little to no wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 9.96 FT. TO 19.96 FT.

HEIGHT OF STICK-UP: 0.04 FT. | BTOC WELL SCREEN INTERVAL: 10 FT. TO 20 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 20.05 FT. | INITIAL WATER LEVEL (BTOC): 6.10 FT. | TIME: 11:19

PURGING DEVICE: ~~Pegasus Alexis Peristaltic Pump~~ MF [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TestAmerica (ADC) | FLOW THROUGH CELL MODEL: Horiba U-52 (Pink) SERIAL ~~1UDRU5~~DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
11:25	0	22.44	4.34	201	0.127	0.0	3.31	6.15	Clear
11:30	250	22.73	4.32	307	0.132	0.0	2.45	6.16	
11:35	650	22.79	4.29	331	0.133	0.0	2.26	6.17	
11:40	1100	22.80	4.29	341	0.134	0.0	2.17	6.17	
11:45	1500	22.81	4.29	348	0.135	0.0	2.11	6.17	

COMMENTS:

SAMPLE COLLECTION TIME: 11:47

PREPARED BY: ADC

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	15
Final tubing depth (ft.) BTOC	17
Initial pump speed	Low
Time pump speed was initialized	11:22
Pump speed at flow into cylinder	12w
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-49D

DATE: 10/14/2013 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460009

WEATHER CONDITIONS: ~82° F, 0-5 mph wind, fair - no clouds, warm

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 25.08 FT. TO 30.08 FT.

HEIGHT OF STICK-UP: -0.08 FT. | BTOC WELL SCREEN INTERVAL: 25 FT. TO 30 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 30.25 FT. | INITIAL WATER LEVEL (BTOC): 5.35 FT. | TIME: 15:03

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TEST America | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
15:14	0	26.65	7.18	34	~~0.654~~ 0.659 (95)	23.9	2.28	5.89	~ Initial water in
15:19	680	26.22	7.08	21	0.668	12.7	1.17	6.25	Tubing is clear + has
15:26	1560	26.37	7.06	13	0.658	8.4	1.08	6.45	no particulates
15:31	2000	25.65	7.04	4	0.654	3.1	1.19	6.51	
15:36	2560	25.49	7.12	-6	0.652	0.0	1.11	6.57	

COMMENTS:

SAMPLE COLLECTION TIME: 15:38

PREPARED BY: [signature] Amelia

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	30.5
Initial tubing depth (ft.) BTOC	27.5
Final tubing depth (ft.) BTOC	27.5
Initial pump speed	3.07
Time pump speed was initialized	15:09
Pump speed at flow into cylinder	3.07
Started new roll of tubing at	—

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-50S

DATE: 10/14/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: clear windy 79°F

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 10.12 FT. TO 20.12 FT.

HEIGHT OF STICK-UP: -0.12 FT. | BTOC WELL SCREEN INTERVAL: 10 FT. TO 20 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 20.24 FT. | INITIAL WATER LEVEL (BTOC): 5.43 FT. | TIME: 17:03

PURGING DEVICE: Pegasus ~~Alexis Peristaltic Pump~~ M.F. [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: — BENEATH OUTER CAP: — BENEATH INNER CAP: —

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 Plus SERIAL # ~~UDRU5DA9~~ F4BV9CVL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
17:22	0	28.71	4.52	80	0.642	0.7	0.64	5.51	
17:27	500	28.04	4.39	77	0.717	0.4	0.22	5.51	
17:32	1000	27.58	4.39	70	0.751	0.4	0.04	5.51	
17:39	1700	27.29	4.40	65	0.765	0.0	0.01	5.51	
17:44	2200	27.34	4.41	64	0.763	0.0	0.00	5.51	
17:49	2700	27.37	4.41	63	0.763	0.0	0.00	5.51	

COMMENTS:

SAMPLE COLLECTION TIME: 17:51

PREPARED BY: SHelmy

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	22
Initial tubing depth (ft.) BTOC	17
Final tubing depth (ft.) BTOC	15
Initial pump speed	low
Time pump speed was initialized	17:17
Pump speed at flow into cylinder	low
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

8

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-51D

DATE: 10/14/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: Sunny ~76°F light to no wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 25.17 FT. TO 30.17 FT.

HEIGHT OF STICK-UP: -0.17 FT. | BTOC WELL SCREEN INTERVAL: 25 FT. TO 30 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 30.26 FT. | INITIAL WATER LEVEL (BTOC): 4.61 FT. | TIME: 17:29

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TestAmerica | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
17:36	0	22.34	7.40	-20	0.360	28.5	1.57	4.91	first pull is clear
17:41	560	21.75	7.70	-34	0.370	21.9	1.05	4.97	
17:46	1160	21.59	7.73	-32	0.369	19.4	0.82	5.01	
17:51	1700	21.38	7.76	-40	0.369	19.1	0.76	5.01	
17:56	2240	21.29	7.69	-41	0.371	17.4	0.72	5.01	

COMMENTS:

SAMPLE COLLECTION TIME: 17:58

PREPARED BY: ADC

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	30.5
Initial tubing depth (ft.) BTOC	27.5
Final tubing depth (ft.) BTOC	27.5
Initial pump speed	2.85
Time pump speed was initialized	17:32
Pump speed at flow into cylinder	2.85
Started new roll of tubing at	—

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	17:54							
Actual Volume (ml)	2000							

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-52D

DATE: 10/13/2015 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 46000~~8~~9

WEATHER CONDITIONS: ~78°F, P.Cloudy, 0-5mph wind, humid

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 25.39 FT. TO 30.39 FT.

HEIGHT OF STICK-UP: -0.39 FT. | BTOC WELL SCREEN INTERVAL: 25 FT. TO 30 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 30.07 FT. | INITIAL WATER LEVEL (BTOC): 3.13 FT. | TIME: 17:58

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TEST AMERICA | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
18:08	0	23.30	7.59	-25	0.323	19.9	1.97	3.40	- Initial water clear
18:13	580	22.84	7.25	-17	0.338	3.5	1.26	3.47	+ no particulates
18:18	1,160	22.48	7.20	-14	0.342	1.7	1.00	3.50	
18:23	1,740	22.22	7.09	-7	0.347	4.8	0.87	3.51	
18:28	2,320	22.04	7.25	-16	0.351	9.4	0.78	3.53	18:30 (05) - water
18:33	2,900	21.87	7.08	-14	0.359	7.9	0.73	3.55	from tubing has no
18:38	3,650	21.71	7.12	-22	0.358	9.3	0.78	3.54	odor
18:43	4150	21.59	7.09	-25	0.359	9.0	0.68	3.53	

COMMENTS:

SAMPLE COLLECTION TIME: ~~18:43~~ 18:45

PREPARED BY: Alan Stanek ADG

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	30.5
Initial tubing depth (ft.) BTOC	27.5
Final tubing depth (ft.) BTOC	27.5
Initial pump speed	3.07
Time pump speed was initialized	18:04
Pump speed at flow into cylinder	3.07
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	18:24	18:43						
Actual Volume (ml)	2,000	4,150						

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-53D

DATE: 10/14/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: Sunny ~78°F little to no wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 25.06 FT. TO 30.06 FT.

HEIGHT OF STICK-UP: -0.06 FT. | BTOC WELL SCREEN INTERVAL: 25 FT. TO 30 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 30.38 FT. | INITIAL WATER LEVEL (BTOC): 2.06 FT. | TIME: 16:12

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: Test America | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
16:17	150	29.31	8.35	-50	0.306	0.0	1.33	2.47	
16:22	760	27.39	7.67	-28	0.314	0.0	0.93	2.52	
16:27	1340	26.27	7.51	-24	0.319	0.0	0.76	2.55	
16:32	1820	25.61	7.20	-7	0.322	0.0	0.68	2.55	
16:37	2380	24.66	7.57	-31	0.327	0.0	0.63	2.55	
16:43	3040	24.33	7.55	-29	0.329	0.0	0.57	2.55	
16:48	3580	23.94	7.59	-36	0.330	0.0	0.55	2.55	

COMMENTS:

SAMPLE COLLECTION TIME: 16:50

PREPARED BY: ADC

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	30.5
Initial tubing depth (ft.) BTOC	27.5
Final tubing depth (ft.) BTOC	27.5
Initial pump speed	2.93
Time pump speed was initialized	16:13
Pump speed at flow into cylinder	2.93
Started new roll of tubing at	—

DTB = 30.38 ft BTOC

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	17:34							
Actual Volume (ml)	2000							

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-54D

DATE: 10/14/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002

WEATHER CONDITIONS: 84°F light wind clear

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 25.19 FT. TO 30.19 FT.

HEIGHT OF STICK-UP: -0.19 FT. | BTOC WELL SCREEN INTERVAL: 25 FT. TO 30 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 30.42 FT. | INITIAL WATER LEVEL (BTOC): 4.61 FT. | TIME: 15:00

PURGING DEVICE: ~~Pegasus Alexis Peristaltic Pump~~ M.F. [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: — BENEATH OUTER CAP: — BENEATH INNER CAP: —

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (pure) SERIAL ~~UDRU5DA9~~ F4DC8CVL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
15:14	0	26.18	6.39	-41	0.304	0.8	0.42	4.97	Clear
15:19	500	25.66	6.61	-73	0.308	0.7	0.17	5.06	
15:32	~~1300~~ 51	27.27	6.72	-72	0.314	0.7	0.50	4.92	V = 1300
15:37	1800	26.72	6.80	-87	0.301	0.3	0.14	5.13	
15:42	2300	25.55	6.81	-96	0.308	0.1	0.00	5.19	
15:47	2800	25.34	6.82	-100	0.308	0.1	~~0.84~~	5.23	DO = 0.00

COMMENTS:

SAMPLE COLLECTION TIME: 15:49

PREPARED BY: SFH ADC

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	32.5
Initial tubing depth (ft.) BTOC	27.5
Final tubing depth (ft.) BTOC	27.5
Initial pump speed	low
Time pump speed was initialized	15:06
Pump speed at flow into cylinder	low
Started new roll of tubing at	

Pump Stopped at 15:23

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-55D

DATE: 10/14/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002 9

WEATHER CONDITIONS: windy, clear, 33°F 50

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 25.15 FT. TO 30.15 FT.

HEIGHT OF STICK-UP: -0.15 FT. | BTOC WELL SCREEN INTERVAL: 25 FT. TO 30 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 30.48 FT. | INITIAL WATER LEVEL (BTOC): 5.69 FT. | TIME: 16:25

PURGING DEVICE: ~~Pegasus Alexis Peristaltic~~ Pump M.F. [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: — BENEATH OUTER CAP: — BENEATH INNER CAP: —

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: TA | FLOW THROUGH CELL MODEL: Horiba U-52 (Pine) SERIAL # ~~UDRU5DA9~~ F4BV9 (UL

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
16:34	0	26.34	6.87	-75	0.335	1.1	0.37	5.88	5.88
16:39	500	26.77	6.86	-16	0.338	0.4	0.10	5.89	
16:44	1000	26.32	6.86	-100	0.334	0.0	0.10	5.89	
16:49	1500	26.31	6.86	-102	0.338	0.0	0.08	5.89	

COMMENTS: | SAMPLE COLLECTION TIME: 16:52

PREPARED BY: [illegible]

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	30.5
Initial tubing depth (ft.) BTOC	27.5
Final tubing depth (ft.) BTOC	27.5
Initial pump speed	low
Time pump speed was initialized	16:25
Pump speed at flow into cylinder	low
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-56D

DATE: 10/14/2015 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460009

WEATHER CONDITIONS: 80°F, Fair, ~5 mph wind, humid

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 25.32 FT. TO 30.32 FT.

HEIGHT OF STICK-UP: -0.32 FT. | BTOC WELL SCREEN INTERVAL: 25 FT. TO 30 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT. Measured 30.19 FT. | INITIAL WATER LEVEL (BTOC): 4.13 FT. | TIME: 12:36

PURGING DEVICE: ~~Pegasus Alexis Peristaltic Pump~~ Master Flex E/S [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED SN: A4222

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: Test America | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
12:42	0	23.40	6.82	25	0.316	10.20	1.42	4.57	- clear & no particulate
12:47	460	23.33	7.29	-2	0.316	0.0	1.05	4.77	in initial water
12:52	1,080	23.19	7.49	-24	0.317	0.0	0.87	4.89	in tubing
12:57	1,580	22.76	7.52	-30	0.318	0.0	0.84	4.84	
13:02	2,180	22.76	7.45	-28	0.319	0.0	0.87	5.13	

COMMENTS:

SAMPLE COLLECTION TIME: 13:04

PREPARED BY: Alan Jennings ADJ

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	30.5
Initial tubing depth (ft.) BTOC	27.5
Final tubing depth (ft.) BTOC	27.5
Initial pump speed	Low
Time pump speed was initialized	12:38
Pump speed at flow into cylinder	Low
Started new roll of tubing at	

12:56 Restarted pump after it had stopped - Volume in cylinder 1,480

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	2,000							
Actual Volume (ml)	13:00							

Additional remarks: well difficult to locate, as covered with grass.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: PAW-3

DATE: 10/12/2015 PROJECT NAME: McKenzie Tank Lines PROJECT NO: 460002.9 (ad)

WEATHER CONDITIONS:

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER BGS WELL SCREEN INTERVAL: 4.52 FT. TO 9.52 FT.

HEIGHT OF STICK-UP: 1.68 FT. BTOC WELL SCREEN INTERVAL: 6.20 FT. TO 11.20 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT Measured 11.2 FT. INITIAL WATER LEVEL (BTOC): 4.50 FT. TIME: 17:57 (ad)

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: FLOW THROUGH CELL MODEL: Horiba U-52 SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH 5.969	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
18:06	0	21.84	5.96	58	0.479	21.4	2.19	4.85	- Clear & no particulates
18:11	500	21.64	6.01	43	0.489	14.0	1.58	4.86	in initial water is
18:18	1120	21.52	6.03	38	0.497	13.9	1.07	4.88	taking at TOC
18:23	1560	21.45	5.98	38	0.503	4.1	0.48	4.95	

COMMENTS:

SAMPLE COLLECTION TIME: 18:25

PREPARED BY: Adam Kendall

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	8.7
Final tubing depth (ft.) BTOC	8.7
Initial pump speed	2.55
Time pump speed was initialized	17:58 (ad)
Pump speed at flow into cylinder	2.55
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks: Well screen interval unknown.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: PAW-4

DATE: 10/12/2015 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 46000 9 (asl)

WEATHER CONDITIONS:

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 14.66 FT. TO 24.66 FT.

HEIGHT OF STICK-UP: 1.69 FT. | BTOC WELL SCREEN INTERVAL: 16.35 FT. TO 26.35 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT Measured 26.35 FT. | INITIAL WATER LEVEL (BTOC): 5.22 FT. | TIME: 17:01

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
17:09	0	22.17	5.27	101	0.322	2.80	1.30	NA	may be 5.58 – if initially tight record
[asl] 17:14	480	22.07	5.22	103	0.339	1.74	1.97 [5X]	5.58	17:15 initial water in
17:19	840	21.97	5.16	106	0.344	1.79	1.40	5.58	tubing is clear with only
17:24	1,200	21.91	5.18	105	0.347	1.76	1.18	5.57	trace – caused
17:29	1,600	21.78	5.19	104	0.349	1.80	0.97	5.57	bacteria clump (small) –
17:34	~~1,960~~ 2,000 (asl)	21.32	5.21	104	0.354	1.06	0.85	5.58	(2 mm tap)
									(asl) DTW 5.58
									9.9 turbidity at 17:36
						+			
						finally			
						quickly			

COMMENTS: | SAMPLE COLLECTION TIME: 17:37

PREPARED BY: Alan Stanek

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	24.4
Initial tubing depth (ft.) BTOC	21.4
Final tubing depth (ft.) BTOC	21.4
Initial pump speed	2.51
Time pump speed was initialized	17:02
Pump speed at flow into cylinder	2.51
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks: Well screen interval unknown. Left in flow through cell ~~[illegible]~~ prior to decon.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: RW-1

DATE: 10/13/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002.9 (alt)

WEATHER CONDITIONS: Sunny Partly cloudy ~75°F little to no wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [ ] 2 [X] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 20.02 FT. TO 30.02 FT.

HEIGHT OF STICK-UP: 0.48 FT. | BTOC WELL SCREEN INTERVAL: 20.50 FT. TO 30.50 FT.

TOTAL WELL DEPTH (BTOC): Reported 30.50 FT Measured 28.25 FT. | INITIAL WATER LEVEL (BTOC): 4.43 FT. | TIME: 8:35

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: _____ BENEATH OUTER CAP: _____ BENEATH INNER CAP: _____

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
8:46	0	18.68	6.31	44	0.678	45.9	2.53	4.56	Initial water in tubing
8:51	640	19.51	6.18	47	0.678	44.3	1.77	4.64	had ~ 1.5 inches
8:56	1240	19.66	6.06	51	0.675	37.4	1.42	4.70	of an half cup
9:01	1800	19.91	6.13	42	0.667	44.4	1.23	4.75	sludge black particulates
9:06	2400	20.14	6.18	38	0.667	26.1	1.08	4.78	
(as) 9:11	3000	20.14	6.20	38	0.676	18.8	1.01	4.81	
9:16	3600	20.10	6.16	38	0.671	19.1	0.94	4.84	
9:21	4200	20.35	6.12	38	0.667	14.5	0.85	4.86	
9:26	4760	20.38	6.15	36	0.667	11.3	0.77	4.88	

COMMENTS:

SAMPLE COLLECTION TIME: ~~9:13~~ 9:27 (alt)

PREPARED BY: Alan Hawk ADC

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	26.3
Initial tubing depth (ft.) BTOC	23.3
Final tubing depth (ft.) BTOC	23.3
Initial pump speed	3.33
Time pump speed was initialized	8:41
Pump speed at flow into cylinder	3.33
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	9:02	9:44						
Actual Volume (ml)	2000	2000						

Additional remarks:

510

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: RW-4

DATE: 10/13/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002x9 (CAV)

WEATHER CONDITIONS: Pc (Hot), 72°F (<5mph wind), humid

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 20 FT. TO 30 FT.

HEIGHT OF STICK-UP: 2.05 FT. | BTOC WELL SCREEN INTERVAL: 22.80 FT. TO 32.80 FT.

TOTAL WELL DEPTH (BTOC): Reported 30.00 FT Measured 22.69 FT. | INITIAL WATER LEVEL (BTOC): 6.06 FT. | TIME: 9:39

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
10:00	0	20.42	6.41	4	0.929	93.0	1.27	6.17	Initial water in tubing was dark
10:06	720	20.63	6.75	-30	0.937	44.8	0.97	6.28	
10:11	1320	20.72	6.76	-46	0.940	27.5	0.83	6.36	
10:17	2200	20.84	6.78	-68	0.942	23.4	0.73	6.47	
10:22	2740	20.90	6.76	-75	0.944	20.3	0.70	6.50	
10:27	3320	21.03	6.76	-84	0.944	24.7	0.65	6.53	

COMMENTS: | SAMPLE COLLECTION TIME: 10:29

PREPARED BY: Alan Scott AEC

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	24
Initial tubing depth (ft.) BTOC	21
Final tubing depth (ft.) BTOC	21
Initial pump speed	3.30
Time pump speed was initialized	9:46
Pump speed at flow into cylinder	3.30
Started new roll of tubing at	

9:55 Reset silicon in pump since no water filling pump ct.

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket								
Actual Volume (ml)								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-U2

DATE: 10/14/15 | PROJECT NAME: McKenzie Tank Lines | PROJECT NO: 460002.9

WEATHER CONDITIONS: clear skies sunny ~78°F little to no wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [X] OTHER: 3/4" | BGS WELL SCREEN INTERVAL: 1.95 FT. TO 6.95 FT.

HEIGHT OF STICK-UP: 1.00 FT. | BTOC WELL SCREEN INTERVAL: 2.95 FT. TO 7.95 FT.

TOTAL WELL DEPTH (BTOC): Reported NA FT Measured 7.95 FT. | INITIAL WATER LEVEL (BTOC): 2.99 FT. | TIME: 9:56

PURGING DEVICE: ~~Pegasus Alexis~~ Peristaltic Pump Masterflex E/S [ ] DEDICATED [ ] DISPOSABLE [X] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

PID/FID READINGS (ppm): BACKGROUND: NM BENEATH OUTER CAP: NM BENEATH INNER CAP: NM

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8260 B

LABORATORY PERFORMING ANALYSIS: | FLOW THROUGH CELL MODEL: Horiba U-52 | SERIAL # UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (ft.)	REMARKS (COLOR, ODOR, ETC.)
10:04	0	20.63	6.09	146	1.08	45.5	2.48	4.19	— Initial water clear
10:09	688	20.63	6.10	123	1.07	55.9	1.53	5.10	+ no particulates
10:14	1,188	20.63	6.10	119	1.05	78.4	1.30	5.95	
10:19	1,350	20.68	6.02	122	1.02	83.1	2.35	5.95	
10:24	1,580	20.68	6.17	113	1.01	74.1	4.19	5.95	
10:29	1,740	20.71	6.29	95	1.29	54.7	3.42	6.55	
10:33								6.69	— no flow into cylinder
10:34	2,000	20.68	6.40	54	1.41	42.9	4.40	7.00	after lowering tubing 6 inches
10:50								7.17	Flow into cylinder resumed

COMMENTS: | SAMPLE COLLECTION TIME: 10:41 sampled due to to poor recharge | PREPARED BY: ADC Alan Jordan in well.

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	20
Initial tubing depth (ft.) BTOC	6
Final tubing depth (ft.) BTOC	7.5 ~~6.5~~ (6.5)
Initial pump speed	Low
Time pump speed was initialized	9:39
Pump speed at flow into cylinder	Low
Started new roll of tubing at	

— 10:27 Lowered tubing ~ 6 inches as flow had stopped
10:28 Flow into cylinder resumed
10:33 Flow has stopped again
10:35 pump speed lower
10:37 Lowered tubing another foot.

	Time	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	10:34							
Actual Volume (ml)	2,000							

Additional remarks:

HSI SITE 10406, FORMER MCKENZIE TANK LINES SITE

FOURTH SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT 3-2 LABORATORY ANALYTICAL RESULS FOR GROUNDWATER SAMPLES, OCTOBER 2015

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-117892-1
Client Project/Site: MTL - Savannah/460009

For:
McKenzie Tank Lines, Inc
PO BOX 1200
Tallahassee, Florida 32302

Attn: Mr. Thomas F Panebianco

Authorized for release by:
10/27/2015 5:03:20 PM

Sheila Hoffman, Project Manager II
(912)354-7858 e.3004
sheila.hoffman@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Method Summary 3
Sample Summary 4
Case Narrative 5
Definitions/Glossary 6
Detection Summary 7
Client Sample Results 12
QC Sample Results 64
QC Association Summary 79
Lab Chronicle 81
Chain of Custody 89
Receipt Checklists 93
Certification Summary 94

Method Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-117892-1	G-17	Water	10/13/15 15:25	10/15/15 09:45
680-117892-2	G-19	Water	10/14/15 11:43	10/15/15 09:45
680-117892-3	G-22	Water	10/14/15 10:15	10/15/15 09:45
680-117892-4	MW-2D	Water	10/12/15 16:39	10/15/15 09:45
680-117892-5	MW-2S	Water	10/12/15 13:24	10/15/15 09:45
680-117892-6	MW-4S	Water	10/13/15 10:46	10/15/15 09:45
680-117892-7	MW-11D	Water	10/12/15 11:33	10/15/15 09:45
680-117892-8	MW-14D	Water	10/14/15 12:49	10/15/15 09:45
680-117892-9	MW-15S	Water	10/13/15 15:12	10/15/15 09:45
680-117892-10	MW-26	Water	10/13/15 16:29	10/15/15 09:45
680-117892-11	MW-29	Water	10/12/15 12:40	10/15/15 09:45
680-117892-12	MW-31	Water	10/14/15 11:55	10/15/15 09:45
680-117892-13	MW-32	Water	10/14/15 09:42	10/15/15 09:45
680-117892-14	MW-33	Water	10/13/15 16:16	10/15/15 09:45
680-117892-15	MW-35	Water	10/13/15 17:20	10/15/15 09:45
680-117892-16	MW-36	Water	10/13/15 09:55	10/15/15 09:45
680-117892-17	MW-37S	Water	10/13/15 12:59	10/15/15 09:45
680-117892-18	MW-38D	Water	10/13/15 12:09	10/15/15 09:45
680-117892-19	MW-39D	Water	10/13/15 18:04	10/15/15 09:45
680-117892-20	MW-40S	Water	10/13/15 17:15	10/15/15 09:45
680-117892-21	MW-41D	Water	10/12/15 11:50	10/15/15 09:45
680-117892-22	MW-42S	Water	10/12/15 18:36	10/15/15 09:45
680-117892-23	MW-43D	Water	10/12/15 16:31	10/15/15 09:45
680-117892-24	MW-44D	Water	10/12/15 12:50	10/15/15 09:45
680-117892-25	MW-45S	Water	10/12/15 13:34	10/15/15 09:45
680-117892-26	MW-46S	Water	10/12/15 12:28	10/15/15 09:45
680-117892-27	MW-47D	Water	10/12/15 11:13	10/15/15 09:45
680-117892-28	MW-48S	Water	10/12/15 11:47	10/15/15 09:45
680-117892-29	MW-49D	Water	10/14/15 15:38	10/15/15 09:45
680-117892-30	MW-50S	Water	10/14/15 11:51	10/15/15 09:45
680-117892-31	MW-51D	Water	10/14/15 17:58	10/15/15 09:45
680-117892-32	MW-52D	Water	10/13/15 18:45	10/15/15 09:45
680-117892-33	MW-53D	Water	10/14/15 16:50	10/15/15 09:45
680-117892-34	MW-54D	Water	10/14/15 15:49	10/15/15 09:45
680-117892-35	MW-55D	Water	10/14/15 16:52	10/15/15 09:45
680-117892-36	MW-56D	Water	10/14/15 13:04	10/15/15 09:45
680-117892-37	PAW-3	Water	10/12/15 18:25	10/15/15 09:45
680-117892-38	PAW-4	Water	10/12/15 17:37	10/15/15 09:45
680-117892-39	RW-1	Water	10/13/15 09:27	10/15/15 09:45
680-117892-40	RW-4	Water	10/13/15 10:29	10/15/15 09:45
680-117892-41	MW-U2	Water	10/14/15 10:41	10/15/15 09:45
680-117892-42	Trip Blank	Water	10/12/15 08:00	10/15/15 09:45
680-117892-43	Trip Blank	Water	10/12/15 08:00	10/15/15 09:45

Job ID: 680-117892-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: McKenzie Tank Lines, Inc

Project: MTL - Savannah/460009

Report Number: 680-117892-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 10/15/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.2º C and 6.0º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples G-17 (680-117892-1), G-19 (680-117892-2), G-22 (680-117892-3), MW-2D (680-117892-4), MW-2S (680-117892-5), MW-4S (680-117892-6), MW-11D (680-117892-7), MW-14D (680-117892-8), MW-15S (680-117892-9), MW-26 (680-117892-10), MW-29 (680-117892-11), MW-31 (680-117892-12), MW-32 (680-117892-13), MW-33 (680-117892-14), MW-35 (680-117892-15), MW-36 (680-117892-16), MW-37S (680-117892-17), MW-38D (680-117892-18), MW-39D (680-117892-19), MW-40S (680-117892-20), MW-41D (680-117892-21), MW-42S (680-117892-22), MW-43D (680-117892-23), MW-44D (680-117892-24), MW-45S (680-117892-25), MW-46S (680-117892-26), MW-47D (680-117892-27), MW-48S (680-117892-28), MW-49D (680-117892-29), MW-50S (680-117892-30), MW-51D (680-117892-31), MW-52D (680-117892-32), MW-53D (680-117892-33), MW-54D (680-117892-34), MW-55D (680-117892-35), MW-56D (680-117892-36), PAW-3 (680-117892-37), PAW-4 (680-117892-38), RW-1 (680-117892-39), RW-4 (680-117892-40), MW-U2 (680-117892-41), Trip Blank (680-117892-42) and Trip Blank (680-117892-43) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/22/2015 and 10/23/2015.

Carbon tetrachloride failed the recovery criteria high for LCS 680-406826/5. Carbon tetrachloride failed the recovery criteria high for LCSD 680-406826/6. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Refer to the QC report for details.

Samples MW-2D (680-117892-4)[50X], MW-4S (680-117892-6)[50X], MW-40S (680-117892-20)[50X], MW-49D (680-117892-29)[5X] and MW-50S (680-117892-30)[25X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: G-17 — Lab Sample ID: 680-117892-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.59	J	1.0	0.41	ug/L	1		8260B	Total/NA

Client Sample ID: G-19 — Lab Sample ID: 680-117892-2

No Detections.

Client Sample ID: G-22 — Lab Sample ID: 680-117892-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.3	J	10	7.0	ug/L	1		8260B	Total/NA
Toluene	0.51	J	1.0	0.48	ug/L	1		8260B	Total/NA

Client Sample ID: MW-2D — Lab Sample ID: 680-117892-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2900		50	21	ug/L	50		8260B	Total/NA
trans-1,2-Dichloroethene	19	J	50	19	ug/L	50		8260B	Total/NA
1,1-Dichloroethene	55		50	18	ug/L	50		8260B	Total/NA
Tetrachloroethene	190		50	37	ug/L	50		8260B	Total/NA
1,1,1-Trichloroethane	66		50	19	ug/L	50		8260B	Total/NA
Trichloroethene	920		50	24	ug/L	50		8260B	Total/NA
Vinyl chloride	380		50	25	ug/L	50		8260B	Total/NA

Client Sample ID: MW-2S — Lab Sample ID: 680-117892-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.6		1.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene	2.9		1.0	0.48	ug/L	1		8260B	Total/NA

Client Sample ID: MW-4S — Lab Sample ID: 680-117892-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4700		50	21	ug/L	50		8260B	Total/NA
trans-1,2-Dichloroethene	31	J	50	19	ug/L	50		8260B	Total/NA
Trichloroethene	92		50	24	ug/L	50		8260B	Total/NA
Vinyl chloride	98		50	25	ug/L	50		8260B	Total/NA

Client Sample ID: MW-11D — Lab Sample ID: 680-117892-7

No Detections.

Client Sample ID: MW-14D — Lab Sample ID: 680-117892-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.7		1.0	0.41	ug/L	1		8260B	Total/NA
Tetrachloroethene	3.5		1.0	0.74	ug/L	1		8260B	Total/NA
Trichloroethene	2.1		1.0	0.48	ug/L	1		8260B	Total/NA

Client Sample ID: MW-15S — Lab Sample ID: 680-117892-9

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Detection Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-26 — Lab Sample ID: 680-117892-10

No Detections.

Client Sample ID: MW-29 — Lab Sample ID: 680-117892-11

No Detections.

Client Sample ID: MW-31 — Lab Sample ID: 680-117892-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	22		1.0	0.41	ug/L	1		8260B	Total/NA
Tetrachloroethene	3.0		1.0	0.74	ug/L	1		8260B	Total/NA
Trichloroethene	9.2		1.0	0.48	ug/L	1		8260B	Total/NA

Client Sample ID: MW-32 — Lab Sample ID: 680-117892-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	110		1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.5		1.0	0.37	ug/L	1		8260B	Total/NA
Tetrachloroethene	45		1.0	0.74	ug/L	1		8260B	Total/NA
Trichloroethene	26		1.0	0.48	ug/L	1		8260B	Total/NA
Vinyl chloride	0.52	J	1.0	0.50	ug/L	1		8260B	Total/NA

Client Sample ID: MW-33 — Lab Sample ID: 680-117892-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	120		1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.42	J	1.0	0.36	ug/L	1		8260B	Total/NA
Vinyl chloride	36		1.0	0.50	ug/L	1		8260B	Total/NA

Client Sample ID: MW-35 — Lab Sample ID: 680-117892-15

No Detections.

Client Sample ID: MW-36 — Lab Sample ID: 680-117892-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.74	J	1.0	0.41	ug/L	1		8260B	Total/NA
Toluene	0.56	J	1.0	0.48	ug/L	1		8260B	Total/NA

Client Sample ID: MW-37S — Lab Sample ID: 680-117892-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.9		1.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene	0.77	J	1.0	0.48	ug/L	1		8260B	Total/NA

Client Sample ID: MW-38D — Lab Sample ID: 680-117892-18

No Detections.

Client Sample ID: MW-39D — Lab Sample ID: 680-117892-19

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-40S — Lab Sample ID: 680-117892-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2400		50	21	ug/L	50		8260B	Total/NA
Trichloroethene	26	J	50	24	ug/L	50		8260B	Total/NA

Client Sample ID: MW-41D — Lab Sample ID: 680-117892-21

No Detections.

Client Sample ID: MW-42S — Lab Sample ID: 680-117892-22

No Detections.

Client Sample ID: MW-43D — Lab Sample ID: 680-117892-23

No Detections.

Client Sample ID: MW-44D — Lab Sample ID: 680-117892-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	30		1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.4		1.0	0.37	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.98	J	1.0	0.74	ug/L	1		8260B	Total/NA
Trichloroethene	17		1.0	0.48	ug/L	1		8260B	Total/NA

Client Sample ID: MW-45S — Lab Sample ID: 680-117892-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.4		1.0	0.37	ug/L	1		8260B	Total/NA
Vinyl chloride	5.5		1.0	0.50	ug/L	1		8260B	Total/NA

Client Sample ID: MW-46S — Lab Sample ID: 680-117892-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.0		1.0	0.41	ug/L	1		8260B	Total/NA
Vinyl chloride	15		1.0	0.50	ug/L	1		8260B	Total/NA
Cyclohexane	0.50	J	1.0	0.39	ug/L	1		8260B	Total/NA

Client Sample ID: MW-47D — Lab Sample ID: 680-117892-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	39		1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.5		1.0	0.37	ug/L	1		8260B	Total/NA
Tetrachloroethene	30		1.0	0.74	ug/L	1		8260B	Total/NA
Trichloroethene	23		1.0	0.48	ug/L	1		8260B	Total/NA

Client Sample ID: MW-48S — Lab Sample ID: 680-117892-28

No Detections.

Client Sample ID: MW-49D — Lab Sample ID: 680-117892-29

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-49D (Continued) — Lab Sample ID: 680-117892-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	340		5.0	2.1	ug/L	5		8260B	Total/NA
Vinyl chloride	11		5.0	2.5	ug/L	5		8260B	Total/NA

Client Sample ID: MW-50S — Lab Sample ID: 680-117892-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2600		25	10	ug/L	25		8260B	Total/NA
trans-1,2-Dichloroethene	45		25	9.3	ug/L	25		8260B	Total/NA
Tetrachloroethene	35		25	19	ug/L	25		8260B	Total/NA
Trichloroethene	240		25	12	ug/L	25		8260B	Total/NA
Vinyl chloride	140		25	13	ug/L	25		8260B	Total/NA

Client Sample ID: MW-51D — Lab Sample ID: 680-117892-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.2		1.0	0.41	ug/L	1		8260B	Total/NA
Vinyl chloride	6.6		1.0	0.50	ug/L	1		8260B	Total/NA

Client Sample ID: MW-52D — Lab Sample ID: 680-117892-32

No Detections.

Client Sample ID: MW-53D — Lab Sample ID: 680-117892-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.5		1.0	0.41	ug/L	1		8260B	Total/NA

Client Sample ID: MW-54D — Lab Sample ID: 680-117892-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.7		1.0	0.41	ug/L	1		8260B	Total/NA
Vinyl chloride	14		1.0	0.50	ug/L	1		8260B	Total/NA

Client Sample ID: MW-55D — Lab Sample ID: 680-117892-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.3	J	10	7.0	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.8		1.0	0.41	ug/L	1		8260B	Total/NA
Vinyl chloride	3.5		1.0	0.50	ug/L	1		8260B	Total/NA

Client Sample ID: MW-56D — Lab Sample ID: 680-117892-36

No Detections.

Client Sample ID: PAW-3 — Lab Sample ID: 680-117892-37

No Detections.

Client Sample ID: PAW-4 — Lab Sample ID: 680-117892-38

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: PAW-4 (Continued) — Lab Sample ID: 680-117892-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	36		1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.4		1.0	0.37	ug/L	1		8260B	Total/NA
Tetrachloroethene	58		1.0	0.74	ug/L	1		8260B	Total/NA
Trichloroethene	25		1.0	0.48	ug/L	1		8260B	Total/NA
Vinyl chloride	4.2		1.0	0.50	ug/L	1		8260B	Total/NA

Client Sample ID: RW-1 — Lab Sample ID: 680-117892-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0	0.41	ug/L	1		8260B	Total/NA
Vinyl chloride	3.2		1.0	0.50	ug/L	1		8260B	Total/NA

Client Sample ID: RW-4 — Lab Sample ID: 680-117892-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.7		1.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene	0.65	J	1.0	0.48	ug/L	1		8260B	Total/NA

Client Sample ID: MW-U2 — Lab Sample ID: 680-117892-41

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 680-117892-42

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 680-117892-43

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: G-17

Date Collected: 10/13/15 15:25
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 13:41	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 13:41	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 13:41	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 13:41	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 13:41	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 13:41	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 13:41	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 13:41	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 13:41	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 13:41	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 13:41	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 13:41	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 13:41	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 13:41	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 13:41	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 13:41	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 13:41	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 13:41	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 13:41	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 13:41	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 13:41	1
cis-1,2-Dichloroethene	**0.59**	**J**	1.0	0.41	ug/L			10/22/15 13:41	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 13:41	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 13:41	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 13:41	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 13:41	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 13:41	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 13:41	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 13:41	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 13:41	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 13:41	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 13:41	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 13:41	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 13:41	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 13:41	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 13:41	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 13:41	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 13:41	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 13:41	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 13:41	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 13:41	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 13:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 13:41	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 13:41	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 13:41	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 13:41	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 13:41	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 13:41	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: G-17

Lab Sample ID: 680-117892-1
Date Collected: 10/13/15 15:25
Matrix: Water
Date Received: 10/15/15 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/22/15 13:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*10/22/15 13:41*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/22/15 13:41*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/22/15 13:41*	*1*

Client Sample ID: G-19

Lab Sample ID: 680-117892-2
Date Collected: 10/14/15 11:43
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 13:04	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 13:04	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 13:04	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 13:04	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 13:04	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 13:04	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 13:04	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 13:04	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 13:04	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 13:04	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 13:04	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 13:04	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 13:04	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 13:04	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 13:04	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 13:04	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 13:04	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 13:04	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 13:04	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 13:04	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 13:04	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 13:04	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 13:04	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 13:04	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 13:04	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 13:04	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 13:04	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 13:04	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 13:04	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 13:04	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 13:04	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 13:04	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 13:04	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 13:04	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 13:04	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 13:04	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 13:04	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 13:04	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 13:04	1

Client Sample ID: G-19

Lab Sample ID: 680-117892-2
Date Collected: 10/14/15 11:43
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 13:04	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 13:04	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 13:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 13:04	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 13:04	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 13:04	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 13:04	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 13:04	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/22/15 13:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/22/15 13:04*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/22/15 13:04*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*10/22/15 13:04*	*1*

Client Sample ID: G-22

Lab Sample ID: 680-117892-3
Date Collected: 10/14/15 10:15
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**8.3**	**J**	10	7.0	ug/L			10/22/15 13:27	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 13:27	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 13:27	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 13:27	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 13:27	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 13:27	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 13:27	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 13:27	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 13:27	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 13:27	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 13:27	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 13:27	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 13:27	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 13:27	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 13:27	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 13:27	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 13:27	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 13:27	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 13:27	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 13:27	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 13:27	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 13:27	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 13:27	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 13:27	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 13:27	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 13:27	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 13:27	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 13:27	1

Client Sample ID: G-22

Lab Sample ID: 680-117892-3
Date Collected: 10/14/15 10:15
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 13:27	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 13:27	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 13:27	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 13:27	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 13:27	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 13:27	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 13:27	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 13:27	1
Toluene	**0.51**	**J**	1.0	0.48	ug/L			10/22/15 13:27	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 13:27	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 13:27	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 13:27	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 13:27	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 13:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 13:27	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 13:27	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 13:27	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 13:27	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 13:27	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/22/15 13:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/22/15 13:27*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/22/15 13:27*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*10/22/15 13:27*	*1*

Client Sample ID: MW-2D

Lab Sample ID: 680-117892-4
Date Collected: 10/12/15 16:39
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<350		500	350	ug/L			10/22/15 18:09	50
Benzene	<22		50	22	ug/L			10/22/15 18:09	50
Bromodichloromethane	<22		50	22	ug/L			10/22/15 18:09	50
Bromoform	<22		50	22	ug/L			10/22/15 18:09	50
Bromomethane	<130		250	130	ug/L			10/22/15 18:09	50
2-Butanone	<170		500	170	ug/L			10/22/15 18:09	50
Carbon disulfide	<50		100	50	ug/L			10/22/15 18:09	50
Carbon tetrachloride	<17	*	50	17	ug/L			10/22/15 18:09	50
Chlorobenzene	<13		50	13	ug/L			10/22/15 18:09	50
Chloroethane	<130		250	130	ug/L			10/22/15 18:09	50
Chloroform	<25		50	25	ug/L			10/22/15 18:09	50
Chloromethane	<20		50	20	ug/L			10/22/15 18:09	50
Dibromochloromethane	<16		50	16	ug/L			10/22/15 18:09	50
1,2-Dibromo-3-Chloropropane	<55		250	55	ug/L			10/22/15 18:09	50
1,2-Dibromoethane	<22		50	22	ug/L			10/22/15 18:09	50
1,2-Dichlorobenzene	<19		50	19	ug/L			10/22/15 18:09	50
1,3-Dichlorobenzene	<22		50	22	ug/L			10/22/15 18:09	50

Client Sample ID: MW-2D

Lab Sample ID: 680-117892-4
Date Collected: 10/12/15 16:39
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<23		50	23	ug/L			10/22/15 18:09	50
Dichlorodifluoromethane	<30		50	30	ug/L			10/22/15 18:09	50
1,1-Dichloroethane	<19		50	19	ug/L			10/22/15 18:09	50
1,2-Dichloroethane	<25		50	25	ug/L			10/22/15 18:09	50
cis-1,2-Dichloroethene	**2900**		50	21	ug/L			10/22/15 18:09	50
trans-1,2-Dichloroethene	**19**	**J**	50	19	ug/L			10/22/15 18:09	50
1,1-Dichloroethene	**55**		50	18	ug/L			10/22/15 18:09	50
1,2-Dichloropropane	<34		50	34	ug/L			10/22/15 18:09	50
cis-1,3-Dichloropropene	<20		50	20	ug/L			10/22/15 18:09	50
trans-1,3-Dichloropropene	<21		50	21	ug/L			10/22/15 18:09	50
Ethylbenzene	<17		50	17	ug/L			10/22/15 18:09	50
2-Hexanone	<100		500	100	ug/L			10/22/15 18:09	50
Isopropylbenzene	<18		50	18	ug/L			10/22/15 18:09	50
Methylene Chloride	<130		250	130	ug/L			10/22/15 18:09	50
4-Methyl-2-pentanone	<110		500	110	ug/L			10/22/15 18:09	50
Methyl tert-butyl ether	<15		500	15	ug/L			10/22/15 18:09	50
Styrene	<14		50	14	ug/L			10/22/15 18:09	50
1,1,2,2-Tetrachloroethane	<31		50	31	ug/L			10/22/15 18:09	50
Tetrachloroethene	**190**		50	37	ug/L			10/22/15 18:09	50
Toluene	<24		50	24	ug/L			10/22/15 18:09	50
1,2,4-Trichlorobenzene	<130		250	130	ug/L			10/22/15 18:09	50
1,1,1-Trichloroethane	**66**		50	19	ug/L			10/22/15 18:09	50
1,1,2-Trichloroethane	<17		50	17	ug/L			10/22/15 18:09	50
Trichloroethene	**920**		50	24	ug/L			10/22/15 18:09	50
Trichlorofluoromethane	<21		50	21	ug/L			10/22/15 18:09	50
1,1,2-Trichloro-1,2,2-trifluoroethane	<18		50	18	ug/L			10/22/15 18:09	50
Vinyl chloride	**380**		50	25	ug/L			10/22/15 18:09	50
Xylenes, Total	<12		50	12	ug/L			10/22/15 18:09	50
Cyclohexane	<20		50	20	ug/L			10/22/15 18:09	50
Methyl acetate	<90		250	90	ug/L			10/22/15 18:09	50
Methylcyclohexane	<22		50	22	ug/L			10/22/15 18:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/22/15 18:09*	*50*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 130*		*10/22/15 18:09*	*50*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*10/22/15 18:09*	*50*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/22/15 18:09*	*50*

Client Sample ID: MW-2S

Lab Sample ID: 680-117892-5
Date Collected: 10/12/15 13:24
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 13:50	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 13:50	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 13:50	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 13:50	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 13:50	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 13:50	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-2S

Date Collected: 10/12/15 13:24
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 13:50	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 13:50	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 13:50	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 13:50	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 13:50	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 13:50	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 13:50	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 13:50	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 13:50	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 13:50	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 13:50	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 13:50	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 13:50	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 13:50	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 13:50	1
cis-1,2-Dichloroethene	**5.6**		1.0	0.41	ug/L			10/22/15 13:50	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 13:50	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 13:50	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 13:50	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 13:50	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 13:50	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 13:50	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 13:50	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 13:50	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 13:50	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 13:50	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 13:50	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 13:50	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 13:50	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 13:50	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 13:50	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 13:50	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 13:50	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 13:50	1
Trichloroethene	**2.9**		1.0	0.48	ug/L			10/22/15 13:50	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 13:50	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 13:50	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 13:50	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 13:50	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 13:50	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/15 13:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/22/15 13:50*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/22/15 13:50*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/22/15 13:50*	*1*

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-4S

Date Collected: 10/13/15 10:46
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<350		500	350	ug/L			10/23/15 13:55	50
Benzene	<22		50	22	ug/L			10/23/15 13:55	50
Bromodichloromethane	<22		50	22	ug/L			10/23/15 13:55	50
Bromoform	<22		50	22	ug/L			10/23/15 13:55	50
Bromomethane	<130		250	130	ug/L			10/23/15 13:55	50
2-Butanone	<170		500	170	ug/L			10/23/15 13:55	50
Carbon disulfide	<50		100	50	ug/L			10/23/15 13:55	50
Carbon tetrachloride	<17		50	17	ug/L			10/23/15 13:55	50
Chlorobenzene	<13		50	13	ug/L			10/23/15 13:55	50
Chloroethane	<130		250	130	ug/L			10/23/15 13:55	50
Chloroform	<25		50	25	ug/L			10/23/15 13:55	50
Chloromethane	<20		50	20	ug/L			10/23/15 13:55	50
Dibromochloromethane	<16		50	16	ug/L			10/23/15 13:55	50
1,2-Dibromo-3-Chloropropane	<55		250	55	ug/L			10/23/15 13:55	50
1,2-Dibromoethane	<22		50	22	ug/L			10/23/15 13:55	50
1,2-Dichlorobenzene	<19		50	19	ug/L			10/23/15 13:55	50
1,3-Dichlorobenzene	<22		50	22	ug/L			10/23/15 13:55	50
1,4-Dichlorobenzene	<23		50	23	ug/L			10/23/15 13:55	50
Dichlorodifluoromethane	<30		50	30	ug/L			10/23/15 13:55	50
1,1-Dichloroethane	<19		50	19	ug/L			10/23/15 13:55	50
1,2-Dichloroethane	<25		50	25	ug/L			10/23/15 13:55	50
cis-1,2-Dichloroethene	**4700**		50	21	ug/L			10/23/15 13:55	50
trans-1,2-Dichloroethene	**31**	**J**	50	19	ug/L			10/23/15 13:55	50
1,1-Dichloroethene	<18		50	18	ug/L			10/23/15 13:55	50
1,2-Dichloropropane	<34		50	34	ug/L			10/23/15 13:55	50
cis-1,3-Dichloropropene	<20		50	20	ug/L			10/23/15 13:55	50
trans-1,3-Dichloropropene	<21		50	21	ug/L			10/23/15 13:55	50
Ethylbenzene	<17		50	17	ug/L			10/23/15 13:55	50
2-Hexanone	<100		500	100	ug/L			10/23/15 13:55	50
Isopropylbenzene	<18		50	18	ug/L			10/23/15 13:55	50
Methylene Chloride	<130		250	130	ug/L			10/23/15 13:55	50
4-Methyl-2-pentanone	<110		500	110	ug/L			10/23/15 13:55	50
Methyl tert-butyl ether	<15		500	15	ug/L			10/23/15 13:55	50
Styrene	<14		50	14	ug/L			10/23/15 13:55	50
1,1,2,2-Tetrachloroethane	<31		50	31	ug/L			10/23/15 13:55	50
Tetrachloroethene	<37		50	37	ug/L			10/23/15 13:55	50
Toluene	<24		50	24	ug/L			10/23/15 13:55	50
1,2,4-Trichlorobenzene	<130		250	130	ug/L			10/23/15 13:55	50
1,1,1-Trichloroethane	<19		50	19	ug/L			10/23/15 13:55	50
1,1,2-Trichloroethane	<17		50	17	ug/L			10/23/15 13:55	50
Trichloroethene	**92**		50	24	ug/L			10/23/15 13:55	50
Trichlorofluoromethane	<21		50	21	ug/L			10/23/15 13:55	50
1,1,2-Trichloro-1,2,2-trifluoroethane	<18		50	18	ug/L			10/23/15 13:55	50
Vinyl chloride	**98**		50	25	ug/L			10/23/15 13:55	50
Xylenes, Total	<12		50	12	ug/L			10/23/15 13:55	50
Cyclohexane	<20		50	20	ug/L			10/23/15 13:55	50
Methyl acetate	<90		250	90	ug/L			10/23/15 13:55	50
Methylcyclohexane	<22		50	22	ug/L			10/23/15 13:55	50

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-4S

Lab Sample ID: 680-117892-6
Date Collected: 10/13/15 10:46
Matrix: Water
Date Received: 10/15/15 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/23/15 13:55*	*50*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*10/23/15 13:55*	*50*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/23/15 13:55*	*50*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/23/15 13:55*	*50*

Client Sample ID: MW-11D

Lab Sample ID: 680-117892-7
Date Collected: 10/12/15 11:33
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 14:13	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 14:13	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 14:13	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 14:13	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 14:13	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 14:13	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 14:13	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 14:13	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 14:13	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 14:13	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 14:13	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 14:13	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 14:13	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 14:13	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 14:13	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 14:13	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 14:13	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 14:13	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 14:13	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 14:13	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 14:13	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 14:13	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 14:13	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 14:13	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 14:13	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 14:13	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 14:13	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 14:13	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 14:13	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 14:13	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 14:13	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 14:13	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 14:13	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 14:13	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 14:13	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 14:13	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 14:13	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 14:13	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 14:13	1

Client Sample ID: MW-11D

Lab Sample ID: 680-117892-7
Date Collected: 10/12/15 11:33
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 14:13	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 14:13	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 14:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 14:13	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 14:13	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 14:13	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 14:13	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 14:13	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/15 14:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*10/22/15 14:13*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/15 14:13*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/22/15 14:13*	*1*

Client Sample ID: MW-14D

Lab Sample ID: 680-117892-8
Date Collected: 10/14/15 12:49
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 14:36	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 14:36	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 14:36	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 14:36	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 14:36	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 14:36	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 14:36	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 14:36	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 14:36	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 14:36	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 14:36	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 14:36	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 14:36	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 14:36	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 14:36	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 14:36	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 14:36	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 14:36	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 14:36	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 14:36	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 14:36	1
cis-1,2-Dichloroethene	**4.7**		1.0	0.41	ug/L			10/22/15 14:36	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 14:36	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 14:36	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 14:36	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 14:36	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 14:36	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 14:36	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-14D

Lab Sample ID: 680-117892-8
Date Collected: 10/14/15 12:49
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 14:36	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 14:36	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 14:36	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 14:36	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 14:36	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 14:36	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 14:36	1
Tetrachloroethene	**3.5**		1.0	0.74	ug/L			10/22/15 14:36	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 14:36	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 14:36	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 14:36	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 14:36	1
Trichloroethene	**2.1**		1.0	0.48	ug/L			10/22/15 14:36	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 14:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 14:36	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 14:36	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 14:36	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 14:36	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 14:36	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/22/15 14:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/22/15 14:36*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/15 14:36*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/22/15 14:36*	*1*

Client Sample ID: MW-15S

Lab Sample ID: 680-117892-9
Date Collected: 10/13/15 15:12
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 14:59	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 14:59	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 14:59	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 14:59	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 14:59	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 14:59	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 14:59	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 14:59	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 14:59	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 14:59	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 14:59	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 14:59	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 14:59	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 14:59	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 14:59	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 14:59	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 14:59	1

Client Sample ID: MW-15S

Lab Sample ID: 680-117892-9

Date Collected: 10/13/15 15:12

Matrix: Water

Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 14:59	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 14:59	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 14:59	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 14:59	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 14:59	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 14:59	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 14:59	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 14:59	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 14:59	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 14:59	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 14:59	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 14:59	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 14:59	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 14:59	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 14:59	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 14:59	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 14:59	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 14:59	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 14:59	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 14:59	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 14:59	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 14:59	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 14:59	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 14:59	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 14:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 14:59	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 14:59	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 14:59	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 14:59	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 14:59	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/22/15 14:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/22/15 14:59*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/15 14:59*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/22/15 14:59*	*1*

Client Sample ID: MW-26

Lab Sample ID: 680-117892-10

Date Collected: 10/13/15 16:29

Matrix: Water

Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 15:22	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 15:22	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 15:22	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 15:22	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 15:22	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 15:22	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-26

Date Collected: 10/13/15 16:29
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 15:22	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 15:22	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 15:22	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 15:22	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 15:22	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 15:22	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 15:22	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 15:22	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 15:22	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 15:22	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 15:22	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 15:22	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 15:22	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 15:22	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 15:22	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 15:22	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 15:22	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 15:22	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 15:22	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 15:22	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 15:22	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 15:22	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 15:22	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 15:22	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 15:22	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 15:22	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 15:22	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 15:22	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 15:22	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 15:22	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 15:22	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 15:22	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 15:22	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 15:22	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 15:22	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 15:22	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 15:22	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 15:22	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 15:22	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 15:22	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/22/15 15:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/22/15 15:22*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/22/15 15:22*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/22/15 15:22*	*1*

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-29

Date Collected: 10/12/15 12:40
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 15:45	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 15:45	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 15:45	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 15:45	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 15:45	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 15:45	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 15:45	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 15:45	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 15:45	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 15:45	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 15:45	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 15:45	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 15:45	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 15:45	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 15:45	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 15:45	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 15:45	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 15:45	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 15:45	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 15:45	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 15:45	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 15:45	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 15:45	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 15:45	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 15:45	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 15:45	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 15:45	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 15:45	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 15:45	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 15:45	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 15:45	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 15:45	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 15:45	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 15:45	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 15:45	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 15:45	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 15:45	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 15:45	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 15:45	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 15:45	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 15:45	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 15:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 15:45	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 15:45	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 15:45	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 15:45	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 15:45	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 15:45	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-29

Lab Sample ID: 680-117892-11
Date Collected: 10/12/15 12:40
Matrix: Water
Date Received: 10/15/15 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/22/15 15:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/22/15 15:45*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/15 15:45*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/22/15 15:45*	*1*

Client Sample ID: MW-31

Lab Sample ID: 680-117892-12
Date Collected: 10/14/15 11:55
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 16:08	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 16:08	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 16:08	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 16:08	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 16:08	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 16:08	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 16:08	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 16:08	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 16:08	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 16:08	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 16:08	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 16:08	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 16:08	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 16:08	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 16:08	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 16:08	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 16:08	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 16:08	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 16:08	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 16:08	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 16:08	1
cis-1,2-Dichloroethene	**22**		1.0	0.41	ug/L			10/22/15 16:08	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 16:08	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 16:08	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 16:08	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 16:08	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 16:08	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 16:08	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 16:08	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 16:08	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 16:08	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 16:08	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 16:08	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 16:08	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 16:08	1
Tetrachloroethene	**3.0**		1.0	0.74	ug/L			10/22/15 16:08	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 16:08	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 16:08	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 16:08	1

Client Sample ID: MW-31

Lab Sample ID: 680-117892-12
Date Collected: 10/14/15 11:55
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 16:08	1
Trichloroethene	**9.2**		1.0	0.48	ug/L			10/22/15 16:08	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 16:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 16:08	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 16:08	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 16:08	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 16:08	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 16:08	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/15 16:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/22/15 16:08*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/15 16:08*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/22/15 16:08*	*1*

Client Sample ID: MW-32

Lab Sample ID: 680-117892-13
Date Collected: 10/14/15 09:42
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 16:31	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 16:31	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 16:31	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 16:31	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 16:31	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 16:31	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 16:31	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 16:31	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 16:31	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 16:31	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 16:31	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 16:31	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 16:31	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 16:31	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 16:31	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 16:31	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 16:31	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 16:31	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 16:31	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 16:31	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 16:31	1
cis-1,2-Dichloroethene	**110**		1.0	0.41	ug/L			10/22/15 16:31	1
trans-1,2-Dichloroethene	**1.5**		1.0	0.37	ug/L			10/22/15 16:31	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 16:31	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 16:31	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 16:31	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 16:31	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 16:31	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-32

Lab Sample ID: 680-117892-13
Date Collected: 10/14/15 09:42
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 16:31	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 16:31	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 16:31	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 16:31	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 16:31	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 16:31	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 16:31	1
Tetrachloroethene	**45**		1.0	0.74	ug/L			10/22/15 16:31	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 16:31	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 16:31	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 16:31	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 16:31	1
Trichloroethene	**26**		1.0	0.48	ug/L			10/22/15 16:31	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 16:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 16:31	1
Vinyl chloride	**0.52**	**J**	1.0	0.50	ug/L			10/22/15 16:31	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 16:31	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 16:31	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 16:31	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/22/15 16:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/22/15 16:31*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/15 16:31*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/22/15 16:31*	*1*

Client Sample ID: MW-33

Lab Sample ID: 680-117892-14
Date Collected: 10/13/15 16:16
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/23/15 13:09	1
Benzene	<0.43		1.0	0.43	ug/L			10/23/15 13:09	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/23/15 13:09	1
Bromoform	<0.43		1.0	0.43	ug/L			10/23/15 13:09	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/23/15 13:09	1
2-Butanone	<3.4		10	3.4	ug/L			10/23/15 13:09	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/23/15 13:09	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/23/15 13:09	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/23/15 13:09	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/23/15 13:09	1
Chloroform	<0.50		1.0	0.50	ug/L			10/23/15 13:09	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/23/15 13:09	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/23/15 13:09	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/23/15 13:09	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/23/15 13:09	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/23/15 13:09	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/23/15 13:09	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-33

Lab Sample ID: 680-117892-14

Date Collected: 10/13/15 16:16
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/23/15 13:09	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/23/15 13:09	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/23/15 13:09	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/23/15 13:09	1
cis-1,2-Dichloroethene	**120**		1.0	0.41	ug/L			10/23/15 13:09	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/23/15 13:09	1
1,1-Dichloroethene	**0.42**	**J**	1.0	0.36	ug/L			10/23/15 13:09	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/23/15 13:09	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/23/15 13:09	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/23/15 13:09	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/23/15 13:09	1
2-Hexanone	<2.0		10	2.0	ug/L			10/23/15 13:09	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/23/15 13:09	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/23/15 13:09	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/23/15 13:09	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/23/15 13:09	1
Styrene	<0.27		1.0	0.27	ug/L			10/23/15 13:09	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/23/15 13:09	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/23/15 13:09	1
Toluene	<0.48		1.0	0.48	ug/L			10/23/15 13:09	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/23/15 13:09	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/23/15 13:09	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/23/15 13:09	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/23/15 13:09	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/23/15 13:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/23/15 13:09	1
Vinyl chloride	**36**		1.0	0.50	ug/L			10/23/15 13:09	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/23/15 13:09	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/23/15 13:09	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/23/15 13:09	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/23/15 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/23/15 13:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/23/15 13:09*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/23/15 13:09*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/23/15 13:09*	*1*

Client Sample ID: MW-35

Lab Sample ID: 680-117892-15

Date Collected: 10/13/15 17:20
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 16:54	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 16:54	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 16:54	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 16:54	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 16:54	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 16:54	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-35

Date Collected: 10/13/15 17:20
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-15

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 16:54	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 16:54	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 16:54	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 16:54	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 16:54	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 16:54	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 16:54	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 16:54	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 16:54	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 16:54	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 16:54	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 16:54	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 16:54	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 16:54	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 16:54	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 16:54	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 16:54	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 16:54	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 16:54	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 16:54	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 16:54	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 16:54	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 16:54	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 16:54	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 16:54	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 16:54	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 16:54	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 16:54	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 16:54	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 16:54	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 16:54	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 16:54	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 16:54	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 16:54	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 16:54	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 16:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 16:54	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 16:54	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 16:54	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 16:54	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 16:54	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/15 16:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/22/15 16:54*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/15 16:54*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/22/15 16:54*	*1*

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-36

Date Collected: 10/13/15 09:55
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-16

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 17:17	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 17:17	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 17:17	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 17:17	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 17:17	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 17:17	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 17:17	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 17:17	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 17:17	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 17:17	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 17:17	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 17:17	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 17:17	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 17:17	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 17:17	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 17:17	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 17:17	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 17:17	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 17:17	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 17:17	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 17:17	1
cis-1,2-Dichloroethene	**0.74**	**J**	1.0	0.41	ug/L			10/22/15 17:17	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 17:17	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 17:17	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 17:17	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 17:17	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 17:17	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 17:17	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 17:17	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 17:17	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 17:17	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 17:17	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 17:17	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 17:17	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 17:17	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 17:17	1
Toluene	**0.56**	**J**	1.0	0.48	ug/L			10/22/15 17:17	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 17:17	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 17:17	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 17:17	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 17:17	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 17:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 17:17	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 17:17	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 17:17	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 17:17	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 17:17	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 17:17	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-36

Lab Sample ID: 680-117892-16
Date Collected: 10/13/15 09:55
Matrix: Water
Date Received: 10/15/15 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/22/15 17:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/22/15 17:17*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/15 17:17*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/22/15 17:17*	*1*

Client Sample ID: MW-37S

Lab Sample ID: 680-117892-17
Date Collected: 10/13/15 12:59
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 17:40	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 17:40	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 17:40	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 17:40	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 17:40	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 17:40	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 17:40	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 17:40	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 17:40	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 17:40	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 17:40	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 17:40	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 17:40	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 17:40	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 17:40	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 17:40	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 17:40	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 17:40	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 17:40	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 17:40	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 17:40	1
cis-1,2-Dichloroethene	**5.9**		1.0	0.41	ug/L			10/22/15 17:40	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 17:40	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 17:40	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 17:40	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 17:40	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 17:40	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 17:40	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 17:40	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 17:40	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 17:40	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 17:40	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 17:40	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 17:40	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 17:40	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 17:40	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 17:40	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 17:40	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 17:40	1

Client Sample ID: MW-37S

Lab Sample ID: 680-117892-17

Date Collected: 10/13/15 12:59
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 17:40	1
Trichloroethene	**0.77**	**J**	1.0	0.48	ug/L			10/22/15 17:40	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 17:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 17:40	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 17:40	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 17:40	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 17:40	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 17:40	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/22/15 17:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*10/22/15 17:40*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/15 17:40*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/22/15 17:40*	*1*

Client Sample ID: MW-38D

Lab Sample ID: 680-117892-18

Date Collected: 10/13/15 12:09
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 18:03	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 18:03	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 18:03	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 18:03	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 18:03	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 18:03	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 18:03	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 18:03	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 18:03	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 18:03	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 18:03	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 18:03	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 18:03	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 18:03	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 18:03	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 18:03	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 18:03	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 18:03	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 18:03	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 18:03	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 18:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 18:03	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 18:03	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 18:03	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 18:03	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 18:03	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 18:03	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 18:03	1

Client Sample ID: MW-38D

Lab Sample ID: 680-117892-18
Date Collected: 10/13/15 12:09
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 18:03	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 18:03	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 18:03	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 18:03	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 18:03	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 18:03	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 18:03	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 18:03	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 18:03	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 18:03	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 18:03	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 18:03	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 18:03	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 18:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 18:03	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 18:03	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 18:03	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 18:03	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 18:03	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/22/15 18:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/22/15 18:03*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/22/15 18:03*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/22/15 18:03*	*1*

Client Sample ID: MW-39D

Lab Sample ID: 680-117892-19
Date Collected: 10/13/15 18:04
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 18:26	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 18:26	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 18:26	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 18:26	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 18:26	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 18:26	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 18:26	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 18:26	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 18:26	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 18:26	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 18:26	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 18:26	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 18:26	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 18:26	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 18:26	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 18:26	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 18:26	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-39D

Lab Sample ID: 680-117892-19

Date Collected: 10/13/15 18:04
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 18:26	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 18:26	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 18:26	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 18:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 18:26	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 18:26	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 18:26	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 18:26	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 18:26	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 18:26	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 18:26	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 18:26	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 18:26	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 18:26	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 18:26	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 18:26	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 18:26	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 18:26	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 18:26	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 18:26	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 18:26	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 18:26	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 18:26	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 18:26	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 18:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 18:26	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 18:26	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 18:26	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 18:26	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 18:26	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/22/15 18:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/22/15 18:26*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/22/15 18:26*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/22/15 18:26*	*1*

Client Sample ID: MW-40S

Lab Sample ID: 680-117892-20

Date Collected: 10/13/15 17:15
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<350		500	350	ug/L			10/22/15 18:30	50
Benzene	<22		50	22	ug/L			10/22/15 18:30	50
Bromodichloromethane	<22		50	22	ug/L			10/22/15 18:30	50
Bromoform	<22		50	22	ug/L			10/22/15 18:30	50
Bromomethane	<130		250	130	ug/L			10/22/15 18:30	50
2-Butanone	<170		500	170	ug/L			10/22/15 18:30	50

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-40S

Date Collected: 10/13/15 17:15
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-20

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<50		100	50	ug/L			10/22/15 18:30	50
Carbon tetrachloride	<17	*	50	17	ug/L			10/22/15 18:30	50
Chlorobenzene	<13		50	13	ug/L			10/22/15 18:30	50
Chloroethane	<130		250	130	ug/L			10/22/15 18:30	50
Chloroform	<25		50	25	ug/L			10/22/15 18:30	50
Chloromethane	<20		50	20	ug/L			10/22/15 18:30	50
Dibromochloromethane	<16		50	16	ug/L			10/22/15 18:30	50
1,2-Dibromo-3-Chloropropane	<55		250	55	ug/L			10/22/15 18:30	50
1,2-Dibromoethane	<22		50	22	ug/L			10/22/15 18:30	50
1,2-Dichlorobenzene	<19		50	19	ug/L			10/22/15 18:30	50
1,3-Dichlorobenzene	<22		50	22	ug/L			10/22/15 18:30	50
1,4-Dichlorobenzene	<23		50	23	ug/L			10/22/15 18:30	50
Dichlorodifluoromethane	<30		50	30	ug/L			10/22/15 18:30	50
1,1-Dichloroethane	<19		50	19	ug/L			10/22/15 18:30	50
1,2-Dichloroethane	<25		50	25	ug/L			10/22/15 18:30	50
cis-1,2-Dichloroethene	**2400**		50	21	ug/L			10/22/15 18:30	50
trans-1,2-Dichloroethene	<19		50	19	ug/L			10/22/15 18:30	50
1,1-Dichloroethene	<18		50	18	ug/L			10/22/15 18:30	50
1,2-Dichloropropane	<34		50	34	ug/L			10/22/15 18:30	50
cis-1,3-Dichloropropene	<20		50	20	ug/L			10/22/15 18:30	50
trans-1,3-Dichloropropene	<21		50	21	ug/L			10/22/15 18:30	50
Ethylbenzene	<17		50	17	ug/L			10/22/15 18:30	50
2-Hexanone	<100		500	100	ug/L			10/22/15 18:30	50
Isopropylbenzene	<18		50	18	ug/L			10/22/15 18:30	50
Methylene Chloride	<130		250	130	ug/L			10/22/15 18:30	50
4-Methyl-2-pentanone	<110		500	110	ug/L			10/22/15 18:30	50
Methyl tert-butyl ether	<15		500	15	ug/L			10/22/15 18:30	50
Styrene	<14		50	14	ug/L			10/22/15 18:30	50
1,1,2,2-Tetrachloroethane	<31		50	31	ug/L			10/22/15 18:30	50
Tetrachloroethene	<37		50	37	ug/L			10/22/15 18:30	50
Toluene	<24		50	24	ug/L			10/22/15 18:30	50
1,2,4-Trichlorobenzene	<130		250	130	ug/L			10/22/15 18:30	50
1,1,1-Trichloroethane	<19		50	19	ug/L			10/22/15 18:30	50
1,1,2-Trichloroethane	<17		50	17	ug/L			10/22/15 18:30	50
Trichloroethene	**26**	**J**	50	24	ug/L			10/22/15 18:30	50
Trichlorofluoromethane	<21		50	21	ug/L			10/22/15 18:30	50
1,1,2-Trichloro-1,2,2-trifluoroethane	<18		50	18	ug/L			10/22/15 18:30	50
Vinyl chloride	<25		50	25	ug/L			10/22/15 18:30	50
Xylenes, Total	<12		50	12	ug/L			10/22/15 18:30	50
Cyclohexane	<20		50	20	ug/L			10/22/15 18:30	50
Methyl acetate	<90		250	90	ug/L			10/22/15 18:30	50
Methylcyclohexane	<22		50	22	ug/L			10/22/15 18:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/22/15 18:30*	*50*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*10/22/15 18:30*	*50*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*10/22/15 18:30*	*50*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/22/15 18:30*	*50*

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-41D

Date Collected: 10/12/15 11:50
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-21

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 13:20	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 13:20	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 13:20	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 13:20	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 13:20	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 13:20	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 13:20	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 13:20	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 13:20	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 13:20	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 13:20	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 13:20	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 13:20	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 13:20	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 13:20	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 13:20	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 13:20	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 13:20	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 13:20	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 13:20	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 13:20	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 13:20	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 13:20	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 13:20	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 13:20	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 13:20	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 13:20	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 13:20	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 13:20	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 13:20	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 13:20	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 13:20	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 13:20	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 13:20	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 13:20	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 13:20	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 13:20	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 13:20	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 13:20	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 13:20	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 13:20	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 13:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 13:20	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 13:20	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 13:20	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 13:20	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 13:20	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 13:20	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-41D

Lab Sample ID: 680-117892-21
Date Collected: 10/12/15 11:50
Matrix: Water
Date Received: 10/15/15 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/22/15 13:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*10/22/15 13:20*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/22/15 13:20*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/22/15 13:20*	*1*

Client Sample ID: MW-42S

Lab Sample ID: 680-117892-22
Date Collected: 10/12/15 18:36
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 12:46	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 12:46	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 12:46	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 12:46	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 12:46	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 12:46	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 12:46	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 12:46	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 12:46	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 12:46	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 12:46	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 12:46	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 12:46	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 12:46	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 12:46	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 12:46	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 12:46	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 12:46	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 12:46	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 12:46	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 12:46	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 12:46	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 12:46	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 12:46	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 12:46	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 12:46	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 12:46	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 12:46	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 12:46	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 12:46	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 12:46	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 12:46	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 12:46	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 12:46	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 12:46	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 12:46	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 12:46	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 12:46	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 12:46	1

Client Sample ID: MW-42S

Lab Sample ID: 680-117892-22
Date Collected: 10/12/15 18:36
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 12:46	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 12:46	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 12:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 12:46	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 12:46	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 12:46	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 12:46	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 12:46	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/22/15 12:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*10/22/15 12:46*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/22/15 12:46*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/22/15 12:46*	*1*

Client Sample ID: MW-43D

Lab Sample ID: 680-117892-23
Date Collected: 10/12/15 16:31
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 13:08	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 13:08	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 13:08	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 13:08	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 13:08	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 13:08	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 13:08	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 13:08	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 13:08	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 13:08	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 13:08	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 13:08	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 13:08	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 13:08	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 13:08	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 13:08	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 13:08	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 13:08	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 13:08	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 13:08	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 13:08	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 13:08	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 13:08	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 13:08	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 13:08	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 13:08	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 13:08	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 13:08	1

Client Sample ID: MW-43D

Lab Sample ID: 680-117892-23

Date Collected: 10/12/15 16:31
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 13:08	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 13:08	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 13:08	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 13:08	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 13:08	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 13:08	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 13:08	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 13:08	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 13:08	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 13:08	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 13:08	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 13:08	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 13:08	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 13:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 13:08	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 13:08	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 13:08	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 13:08	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 13:08	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/15 13:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*10/22/15 13:08*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/22/15 13:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/22/15 13:08*	*1*

Client Sample ID: MW-44D

Lab Sample ID: 680-117892-24

Date Collected: 10/12/15 12:50
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 13:29	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 13:29	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 13:29	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 13:29	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 13:29	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 13:29	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 13:29	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 13:29	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 13:29	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 13:29	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 13:29	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 13:29	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 13:29	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 13:29	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 13:29	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 13:29	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 13:29	1

Client Sample ID: MW-44D

Lab Sample ID: 680-117892-24

Date Collected: 10/12/15 12:50

Matrix: Water

Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 13:29	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 13:29	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 13:29	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 13:29	1
cis-1,2-Dichloroethene	**30**		1.0	0.41	ug/L			10/22/15 13:29	1
trans-1,2-Dichloroethene	**1.4**		1.0	0.37	ug/L			10/22/15 13:29	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 13:29	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 13:29	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 13:29	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 13:29	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 13:29	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 13:29	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 13:29	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 13:29	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 13:29	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 13:29	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 13:29	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 13:29	1
Tetrachloroethene	**0.98**	**J**	1.0	0.74	ug/L			10/22/15 13:29	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 13:29	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 13:29	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 13:29	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 13:29	1
Trichloroethene	**17**		1.0	0.48	ug/L			10/22/15 13:29	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 13:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 13:29	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 13:29	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 13:29	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 13:29	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 13:29	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/15 13:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*10/22/15 13:29*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/22/15 13:29*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/22/15 13:29*	*1*

Client Sample ID: MW-45S

Lab Sample ID: 680-117892-25

Date Collected: 10/12/15 13:34

Matrix: Water

Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 13:51	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 13:51	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 13:51	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 13:51	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 13:51	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 13:51	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-45S

Date Collected: 10/12/15 13:34
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-25

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 13:51	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 13:51	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 13:51	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 13:51	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 13:51	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 13:51	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 13:51	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 13:51	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 13:51	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 13:51	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 13:51	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 13:51	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 13:51	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 13:51	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 13:51	1
cis-1,2-Dichloroethene	**17**		1.0	0.41	ug/L			10/22/15 13:51	1
trans-1,2-Dichloroethene	**1.4**		1.0	0.37	ug/L			10/22/15 13:51	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 13:51	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 13:51	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 13:51	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 13:51	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 13:51	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 13:51	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 13:51	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 13:51	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 13:51	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 13:51	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 13:51	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 13:51	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 13:51	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 13:51	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 13:51	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 13:51	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 13:51	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 13:51	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 13:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 13:51	1
Vinyl chloride	**5.5**		1.0	0.50	ug/L			10/22/15 13:51	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 13:51	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 13:51	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 13:51	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/22/15 13:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*10/22/15 13:51*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/22/15 13:51*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/22/15 13:51*	*1*

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-46S

Date Collected: 10/12/15 12:28
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-26

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 14:12	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 14:12	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 14:12	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 14:12	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 14:12	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 14:12	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 14:12	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 14:12	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 14:12	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 14:12	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 14:12	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 14:12	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 14:12	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 14:12	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 14:12	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 14:12	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 14:12	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 14:12	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 14:12	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 14:12	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 14:12	1
cis-1,2-Dichloroethene	**7.0**		1.0	0.41	ug/L			10/22/15 14:12	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 14:12	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 14:12	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 14:12	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 14:12	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 14:12	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 14:12	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 14:12	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 14:12	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 14:12	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 14:12	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 14:12	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 14:12	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 14:12	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 14:12	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 14:12	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 14:12	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 14:12	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 14:12	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 14:12	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 14:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 14:12	1
Vinyl chloride	**15**		1.0	0.50	ug/L			10/22/15 14:12	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 14:12	1
Cyclohexane	**0.50**	**J**	1.0	0.39	ug/L			10/22/15 14:12	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 14:12	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 14:12	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-46S

Lab Sample ID: 680-117892-26
Date Collected: 10/12/15 12:28
Matrix: Water
Date Received: 10/15/15 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/15 14:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*10/22/15 14:12*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/22/15 14:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/22/15 14:12*	*1*

Client Sample ID: MW-47D

Lab Sample ID: 680-117892-27
Date Collected: 10/12/15 11:13
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 14:34	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 14:34	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 14:34	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 14:34	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 14:34	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 14:34	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 14:34	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 14:34	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 14:34	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 14:34	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 14:34	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 14:34	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 14:34	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 14:34	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 14:34	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 14:34	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 14:34	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 14:34	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 14:34	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 14:34	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 14:34	1
cis-1,2-Dichloroethene	**39**		1.0	0.41	ug/L			10/22/15 14:34	1
trans-1,2-Dichloroethene	**1.5**		1.0	0.37	ug/L			10/22/15 14:34	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 14:34	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 14:34	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 14:34	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 14:34	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 14:34	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 14:34	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 14:34	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 14:34	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 14:34	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 14:34	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 14:34	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 14:34	1
Tetrachloroethene	**30**		1.0	0.74	ug/L			10/22/15 14:34	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 14:34	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 14:34	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 14:34	1

Client Sample ID: MW-47D

Lab Sample ID: 680-117892-27
Date Collected: 10/12/15 11:13
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 14:34	1
Trichloroethene	**23**		1.0	0.48	ug/L			10/22/15 14:34	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 14:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 14:34	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 14:34	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 14:34	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 14:34	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 14:34	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/22/15 14:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*10/22/15 14:34*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/22/15 14:34*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/22/15 14:34*	*1*

Client Sample ID: MW-48S

Lab Sample ID: 680-117892-28
Date Collected: 10/12/15 11:47
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 14:55	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 14:55	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 14:55	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 14:55	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 14:55	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 14:55	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 14:55	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 14:55	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 14:55	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 14:55	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 14:55	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 14:55	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 14:55	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 14:55	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 14:55	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 14:55	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 14:55	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 14:55	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 14:55	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 14:55	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 14:55	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 14:55	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 14:55	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 14:55	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 14:55	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 14:55	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 14:55	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 14:55	1

Client Sample ID: MW-48S

Lab Sample ID: 680-117892-28

Date Collected: 10/12/15 11:47

Matrix: Water

Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 14:55	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 14:55	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 14:55	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 14:55	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 14:55	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 14:55	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 14:55	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 14:55	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 14:55	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 14:55	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 14:55	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 14:55	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 14:55	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 14:55	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 14:55	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 14:55	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 14:55	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 14:55	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/15 14:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*10/22/15 14:55*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/22/15 14:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/22/15 14:55*	*1*

Client Sample ID: MW-49D

Lab Sample ID: 680-117892-29

Date Collected: 10/14/15 15:38

Matrix: Water

Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<35		50	35	ug/L			10/22/15 19:59	5
Benzene	<2.2		5.0	2.2	ug/L			10/22/15 19:59	5
Bromodichloromethane	<2.2		5.0	2.2	ug/L			10/22/15 19:59	5
Bromoform	<2.2		5.0	2.2	ug/L			10/22/15 19:59	5
Bromomethane	<13		25	13	ug/L			10/22/15 19:59	5
2-Butanone	<17		50	17	ug/L			10/22/15 19:59	5
Carbon disulfide	<5.0		10	5.0	ug/L			10/22/15 19:59	5
Carbon tetrachloride	<1.7		5.0	1.7	ug/L			10/22/15 19:59	5
Chlorobenzene	<1.3		5.0	1.3	ug/L			10/22/15 19:59	5
Chloroethane	<13		25	13	ug/L			10/22/15 19:59	5
Chloroform	<2.5		5.0	2.5	ug/L			10/22/15 19:59	5
Chloromethane	<2.0		5.0	2.0	ug/L			10/22/15 19:59	5
Dibromochloromethane	<1.6		5.0	1.6	ug/L			10/22/15 19:59	5
1,2-Dibromo-3-Chloropropane	<5.5		25	5.5	ug/L			10/22/15 19:59	5
1,2-Dibromoethane	<2.2		5.0	2.2	ug/L			10/22/15 19:59	5
1,2-Dichlorobenzene	<1.9		5.0	1.9	ug/L			10/22/15 19:59	5
1,3-Dichlorobenzene	<2.2		5.0	2.2	ug/L			10/22/15 19:59	5

Client Sample ID: MW-49D

Lab Sample ID: 680-117892-29

Date Collected: 10/14/15 15:38

Matrix: Water

Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<2.3		5.0	2.3	ug/L			10/22/15 19:59	5
Dichlorodifluoromethane	<3.0		5.0	3.0	ug/L			10/22/15 19:59	5
1,1-Dichloroethane	<1.9		5.0	1.9	ug/L			10/22/15 19:59	5
1,2-Dichloroethane	<2.5		5.0	2.5	ug/L			10/22/15 19:59	5
cis-1,2-Dichloroethene	**340**		5.0	2.1	ug/L			10/22/15 19:59	5
trans-1,2-Dichloroethene	<1.9		5.0	1.9	ug/L			10/22/15 19:59	5
1,1-Dichloroethene	<1.8		5.0	1.8	ug/L			10/22/15 19:59	5
1,2-Dichloropropane	<3.4		5.0	3.4	ug/L			10/22/15 19:59	5
cis-1,3-Dichloropropene	<2.0		5.0	2.0	ug/L			10/22/15 19:59	5
trans-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			10/22/15 19:59	5
Ethylbenzene	<1.7		5.0	1.7	ug/L			10/22/15 19:59	5
2-Hexanone	<10		50	10	ug/L			10/22/15 19:59	5
Isopropylbenzene	<1.8		5.0	1.8	ug/L			10/22/15 19:59	5
Methylene Chloride	<13		25	13	ug/L			10/22/15 19:59	5
4-Methyl-2-pentanone	<11		50	11	ug/L			10/22/15 19:59	5
Methyl tert-butyl ether	<1.5		50	1.5	ug/L			10/22/15 19:59	5
Styrene	<1.4		5.0	1.4	ug/L			10/22/15 19:59	5
1,1,2,2-Tetrachloroethane	<3.1		5.0	3.1	ug/L			10/22/15 19:59	5
Tetrachloroethene	<3.7		5.0	3.7	ug/L			10/22/15 19:59	5
Toluene	<2.4		5.0	2.4	ug/L			10/22/15 19:59	5
1,2,4-Trichlorobenzene	<13		25	13	ug/L			10/22/15 19:59	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			10/22/15 19:59	5
1,1,2-Trichloroethane	<1.7		5.0	1.7	ug/L			10/22/15 19:59	5
Trichloroethene	<2.4		5.0	2.4	ug/L			10/22/15 19:59	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			10/22/15 19:59	5
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.8		5.0	1.8	ug/L			10/22/15 19:59	5
Vinyl chloride	**11**		5.0	2.5	ug/L			10/22/15 19:59	5
Xylenes, Total	<1.2		5.0	1.2	ug/L			10/22/15 19:59	5
Cyclohexane	<2.0		5.0	2.0	ug/L			10/22/15 19:59	5
Methyl acetate	<9.0		25	9.0	ug/L			10/22/15 19:59	5
Methylcyclohexane	<2.2		5.0	2.2	ug/L			10/22/15 19:59	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/15 19:59*	*5*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*10/22/15 19:59*	*5*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/22/15 19:59*	*5*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/22/15 19:59*	*5*

Client Sample ID: MW-50S

Lab Sample ID: 680-117892-30

Date Collected: 10/14/15 11:51

Matrix: Water

Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<180		250	180	ug/L			10/23/15 15:28	25
Benzene	<11		25	11	ug/L			10/23/15 15:28	25
Bromodichloromethane	<11		25	11	ug/L			10/23/15 15:28	25
Bromoform	<11		25	11	ug/L			10/23/15 15:28	25
Bromomethane	<63		130	63	ug/L			10/23/15 15:28	25
2-Butanone	<85		250	85	ug/L			10/23/15 15:28	25

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-50S

Date Collected: 10/14/15 11:51
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<25		50	25	ug/L			10/23/15 15:28	25
Carbon tetrachloride	<8.3		25	8.3	ug/L			10/23/15 15:28	25
Chlorobenzene	<6.5		25	6.5	ug/L			10/23/15 15:28	25
Chloroethane	<63		130	63	ug/L			10/23/15 15:28	25
Chloroform	<13		25	13	ug/L			10/23/15 15:28	25
Chloromethane	<10		25	10	ug/L			10/23/15 15:28	25
Dibromochloromethane	<8.0		25	8.0	ug/L			10/23/15 15:28	25
1,2-Dibromo-3-Chloropropane	<28		130	28	ug/L			10/23/15 15:28	25
1,2-Dibromoethane	<11		25	11	ug/L			10/23/15 15:28	25
1,2-Dichlorobenzene	<9.3		25	9.3	ug/L			10/23/15 15:28	25
1,3-Dichlorobenzene	<11		25	11	ug/L			10/23/15 15:28	25
1,4-Dichlorobenzene	<12		25	12	ug/L			10/23/15 15:28	25
Dichlorodifluoromethane	<15		25	15	ug/L			10/23/15 15:28	25
1,1-Dichloroethane	<9.5		25	9.5	ug/L			10/23/15 15:28	25
1,2-Dichloroethane	<13		25	13	ug/L			10/23/15 15:28	25
cis-1,2-Dichloroethene	**2600**		25	10	ug/L			10/23/15 15:28	25
trans-1,2-Dichloroethene	**45**		25	9.3	ug/L			10/23/15 15:28	25
1,1-Dichloroethene	<9.0		25	9.0	ug/L			10/23/15 15:28	25
1,2-Dichloropropane	<17		25	17	ug/L			10/23/15 15:28	25
cis-1,3-Dichloropropene	<10		25	10	ug/L			10/23/15 15:28	25
trans-1,3-Dichloropropene	<11		25	11	ug/L			10/23/15 15:28	25
Ethylbenzene	<8.3		25	8.3	ug/L			10/23/15 15:28	25
2-Hexanone	<50		250	50	ug/L			10/23/15 15:28	25
Isopropylbenzene	<8.8		25	8.8	ug/L			10/23/15 15:28	25
Methylene Chloride	<63		130	63	ug/L			10/23/15 15:28	25
4-Methyl-2-pentanone	<53		250	53	ug/L			10/23/15 15:28	25
Methyl tert-butyl ether	<7.5		250	7.5	ug/L			10/23/15 15:28	25
Styrene	<6.8		25	6.8	ug/L			10/23/15 15:28	25
1,1,2,2-Tetrachloroethane	<16		25	16	ug/L			10/23/15 15:28	25
Tetrachloroethene	**35**		25	19	ug/L			10/23/15 15:28	25
Toluene	<12		25	12	ug/L			10/23/15 15:28	25
1,2,4-Trichlorobenzene	<63		130	63	ug/L			10/23/15 15:28	25
1,1,1-Trichloroethane	<9.3		25	9.3	ug/L			10/23/15 15:28	25
1,1,2-Trichloroethane	<8.3		25	8.3	ug/L			10/23/15 15:28	25
Trichloroethene	**240**		25	12	ug/L			10/23/15 15:28	25
Trichlorofluoromethane	<11		25	11	ug/L			10/23/15 15:28	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<9.0		25	9.0	ug/L			10/23/15 15:28	25
Vinyl chloride	**140**		25	13	ug/L			10/23/15 15:28	25
Xylenes, Total	<5.8		25	5.8	ug/L			10/23/15 15:28	25
Cyclohexane	<9.8		25	9.8	ug/L			10/23/15 15:28	25
Methyl acetate	<45		130	45	ug/L			10/23/15 15:28	25
Methylcyclohexane	<11		25	11	ug/L			10/23/15 15:28	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/23/15 15:28*	*25*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*10/23/15 15:28*	*25*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/23/15 15:28*	*25*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*10/23/15 15:28*	*25*

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-51D

Date Collected: 10/14/15 17:58
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-31

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/23/15 13:32	1
Benzene	<0.43		1.0	0.43	ug/L			10/23/15 13:32	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/23/15 13:32	1
Bromoform	<0.43		1.0	0.43	ug/L			10/23/15 13:32	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/23/15 13:32	1
2-Butanone	<3.4		10	3.4	ug/L			10/23/15 13:32	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/23/15 13:32	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/23/15 13:32	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/23/15 13:32	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/23/15 13:32	1
Chloroform	<0.50		1.0	0.50	ug/L			10/23/15 13:32	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/23/15 13:32	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/23/15 13:32	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/23/15 13:32	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/23/15 13:32	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/23/15 13:32	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/23/15 13:32	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/23/15 13:32	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/23/15 13:32	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/23/15 13:32	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/23/15 13:32	1
cis-1,2-Dichloroethene	**7.2**		1.0	0.41	ug/L			10/23/15 13:32	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/23/15 13:32	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/23/15 13:32	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/23/15 13:32	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/23/15 13:32	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/23/15 13:32	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/23/15 13:32	1
2-Hexanone	<2.0		10	2.0	ug/L			10/23/15 13:32	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/23/15 13:32	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/23/15 13:32	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/23/15 13:32	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/23/15 13:32	1
Styrene	<0.27		1.0	0.27	ug/L			10/23/15 13:32	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/23/15 13:32	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/23/15 13:32	1
Toluene	<0.48		1.0	0.48	ug/L			10/23/15 13:32	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/23/15 13:32	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/23/15 13:32	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/23/15 13:32	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/23/15 13:32	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/23/15 13:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/23/15 13:32	1
Vinyl chloride	**6.6**		1.0	0.50	ug/L			10/23/15 13:32	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/23/15 13:32	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/23/15 13:32	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/23/15 13:32	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/23/15 13:32	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-51D

Lab Sample ID: 680-117892-31
Date Collected: 10/14/15 17:58
Matrix: Water
Date Received: 10/15/15 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/23/15 13:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/23/15 13:32*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/23/15 13:32*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/23/15 13:32*	*1*

Client Sample ID: MW-52D

Lab Sample ID: 680-117892-32
Date Collected: 10/13/15 18:45
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 15:16	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 15:16	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 15:16	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 15:16	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 15:16	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 15:16	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 15:16	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 15:16	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 15:16	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 15:16	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 15:16	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 15:16	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 15:16	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 15:16	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 15:16	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 15:16	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 15:16	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 15:16	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 15:16	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 15:16	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 15:16	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 15:16	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 15:16	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 15:16	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 15:16	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 15:16	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 15:16	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 15:16	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 15:16	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 15:16	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 15:16	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 15:16	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 15:16	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 15:16	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 15:16	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 15:16	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 15:16	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 15:16	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 15:16	1

Client Sample ID: MW-52D

Lab Sample ID: 680-117892-32

Date Collected: 10/13/15 18:45

Matrix: Water

Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 15:16	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 15:16	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 15:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 15:16	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 15:16	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 15:16	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 15:16	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 15:16	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/15 15:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*10/22/15 15:16*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/22/15 15:16*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/22/15 15:16*	*1*

Client Sample ID: MW-53D

Lab Sample ID: 680-117892-33

Date Collected: 10/14/15 16:50

Matrix: Water

Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 15:38	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 15:38	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 15:38	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 15:38	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 15:38	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 15:38	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 15:38	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 15:38	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 15:38	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 15:38	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 15:38	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 15:38	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 15:38	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 15:38	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 15:38	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 15:38	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 15:38	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 15:38	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 15:38	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 15:38	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 15:38	1
cis-1,2-Dichloroethene	**1.5**		1.0	0.41	ug/L			10/22/15 15:38	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 15:38	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 15:38	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 15:38	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 15:38	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 15:38	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 15:38	1

Client Sample ID: MW-53D

Lab Sample ID: 680-117892-33
Date Collected: 10/14/15 16:50
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 15:38	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 15:38	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 15:38	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 15:38	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 15:38	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 15:38	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 15:38	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 15:38	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 15:38	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 15:38	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 15:38	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 15:38	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 15:38	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 15:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 15:38	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 15:38	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 15:38	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 15:38	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 15:38	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/22/15 15:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*10/22/15 15:38*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/22/15 15:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/22/15 15:38*	*1*

Client Sample ID: MW-54D

Lab Sample ID: 680-117892-34
Date Collected: 10/14/15 15:49
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 16:00	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 16:00	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 16:00	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 16:00	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 16:00	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 16:00	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 16:00	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 16:00	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 16:00	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 16:00	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 16:00	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 16:00	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 16:00	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 16:00	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 16:00	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 16:00	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 16:00	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-54D

Lab Sample ID: 680-117892-34
Date Collected: 10/14/15 15:49
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 16:00	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 16:00	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 16:00	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 16:00	1
cis-1,2-Dichloroethene	**8.7**		1.0	0.41	ug/L			10/22/15 16:00	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 16:00	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 16:00	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 16:00	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 16:00	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 16:00	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 16:00	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 16:00	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 16:00	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 16:00	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 16:00	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 16:00	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 16:00	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 16:00	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 16:00	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 16:00	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 16:00	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 16:00	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 16:00	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 16:00	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 16:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 16:00	1
Vinyl chloride	**14**		1.0	0.50	ug/L			10/22/15 16:00	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 16:00	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 16:00	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 16:00	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/22/15 16:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*10/22/15 16:00*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/22/15 16:00*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/22/15 16:00*	*1*

Client Sample ID: MW-55D

Lab Sample ID: 680-117892-35
Date Collected: 10/14/15 16:52
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**8.3**	**J**	10	7.0	ug/L			10/23/15 11:14	1
Benzene	<0.43		1.0	0.43	ug/L			10/23/15 11:14	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/23/15 11:14	1
Bromoform	<0.43		1.0	0.43	ug/L			10/23/15 11:14	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/23/15 11:14	1
2-Butanone	<3.4		10	3.4	ug/L			10/23/15 11:14	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-55D

Date Collected: 10/14/15 16:52
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-35

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/23/15 11:14	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/23/15 11:14	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/23/15 11:14	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/23/15 11:14	1
Chloroform	<0.50		1.0	0.50	ug/L			10/23/15 11:14	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/23/15 11:14	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/23/15 11:14	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/23/15 11:14	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/23/15 11:14	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/23/15 11:14	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/23/15 11:14	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/23/15 11:14	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/23/15 11:14	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/23/15 11:14	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/23/15 11:14	1
cis-1,2-Dichloroethene	**3.8**		1.0	0.41	ug/L			10/23/15 11:14	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/23/15 11:14	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/23/15 11:14	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/23/15 11:14	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/23/15 11:14	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/23/15 11:14	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/23/15 11:14	1
2-Hexanone	<2.0		10	2.0	ug/L			10/23/15 11:14	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/23/15 11:14	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/23/15 11:14	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/23/15 11:14	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/23/15 11:14	1
Styrene	<0.27		1.0	0.27	ug/L			10/23/15 11:14	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/23/15 11:14	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/23/15 11:14	1
Toluene	<0.48		1.0	0.48	ug/L			10/23/15 11:14	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/23/15 11:14	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/23/15 11:14	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/23/15 11:14	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/23/15 11:14	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/23/15 11:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/23/15 11:14	1
Vinyl chloride	**3.5**		1.0	0.50	ug/L			10/23/15 11:14	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/23/15 11:14	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/23/15 11:14	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/23/15 11:14	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/23/15 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/23/15 11:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/23/15 11:14*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/23/15 11:14*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/23/15 11:14*	*1*

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-56D

Date Collected: 10/14/15 13:04
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-36

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 16:21	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 16:21	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 16:21	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 16:21	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 16:21	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 16:21	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 16:21	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 16:21	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 16:21	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 16:21	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 16:21	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 16:21	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 16:21	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 16:21	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 16:21	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 16:21	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 16:21	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 16:21	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 16:21	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 16:21	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 16:21	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 16:21	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 16:21	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 16:21	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 16:21	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 16:21	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 16:21	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 16:21	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 16:21	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 16:21	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 16:21	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 16:21	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 16:21	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 16:21	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 16:21	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 16:21	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 16:21	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 16:21	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 16:21	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 16:21	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 16:21	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 16:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 16:21	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 16:21	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 16:21	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 16:21	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 16:21	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 16:21	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-56D

Lab Sample ID: 680-117892-36
Date Collected: 10/14/15 13:04
Matrix: Water
Date Received: 10/15/15 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/15 16:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*10/22/15 16:21*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/22/15 16:21*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/22/15 16:21*	*1*

Client Sample ID: PAW-3

Lab Sample ID: 680-117892-37
Date Collected: 10/12/15 18:25
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 16:43	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 16:43	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 16:43	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 16:43	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 16:43	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 16:43	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 16:43	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 16:43	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 16:43	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 16:43	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 16:43	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 16:43	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 16:43	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 16:43	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 16:43	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 16:43	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 16:43	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 16:43	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 16:43	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 16:43	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 16:43	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 16:43	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 16:43	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 16:43	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 16:43	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 16:43	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 16:43	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 16:43	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 16:43	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 16:43	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 16:43	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 16:43	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 16:43	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 16:43	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 16:43	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 16:43	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 16:43	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 16:43	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 16:43	1

Client Sample ID: PAW-3

Lab Sample ID: 680-117892-37
Date Collected: 10/12/15 18:25
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 16:43	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 16:43	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 16:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 16:43	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 16:43	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 16:43	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 16:43	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 16:43	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/22/15 16:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*10/22/15 16:43*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/22/15 16:43*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/22/15 16:43*	*1*

Client Sample ID: PAW-4

Lab Sample ID: 680-117892-38
Date Collected: 10/12/15 17:37
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 17:04	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 17:04	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 17:04	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 17:04	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 17:04	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 17:04	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 17:04	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 17:04	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 17:04	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 17:04	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 17:04	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 17:04	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 17:04	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 17:04	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 17:04	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 17:04	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 17:04	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 17:04	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 17:04	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 17:04	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 17:04	1
cis-1,2-Dichloroethene	**36**		1.0	0.41	ug/L			10/22/15 17:04	1
trans-1,2-Dichloroethene	**1.4**		1.0	0.37	ug/L			10/22/15 17:04	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 17:04	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 17:04	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 17:04	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 17:04	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 17:04	1

Client Sample ID: PAW-4

Lab Sample ID: 680-117892-38
Date Collected: 10/12/15 17:37
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 17:04	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 17:04	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 17:04	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 17:04	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 17:04	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 17:04	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 17:04	1
Tetrachloroethene	**58**		1.0	0.74	ug/L			10/22/15 17:04	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 17:04	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 17:04	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 17:04	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 17:04	1
Trichloroethene	**25**		1.0	0.48	ug/L			10/22/15 17:04	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 17:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 17:04	1
Vinyl chloride	**4.2**		1.0	0.50	ug/L			10/22/15 17:04	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 17:04	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 17:04	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 17:04	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/22/15 17:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*10/22/15 17:04*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/22/15 17:04*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/22/15 17:04*	*1*

Client Sample ID: RW-1

Lab Sample ID: 680-117892-39
Date Collected: 10/13/15 09:27
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 17:26	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 17:26	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 17:26	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 17:26	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 17:26	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 17:26	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 17:26	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 17:26	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 17:26	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 17:26	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 17:26	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 17:26	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 17:26	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 17:26	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 17:26	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 17:26	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 17:26	1

Client Sample ID: RW-1

Lab Sample ID: 680-117892-39

Date Collected: 10/13/15 09:27

Matrix: Water

Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 17:26	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 17:26	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 17:26	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 17:26	1
cis-1,2-Dichloroethene	**17**		1.0	0.41	ug/L			10/22/15 17:26	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 17:26	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 17:26	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 17:26	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 17:26	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 17:26	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 17:26	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 17:26	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 17:26	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 17:26	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 17:26	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 17:26	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 17:26	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 17:26	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 17:26	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 17:26	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 17:26	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 17:26	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 17:26	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 17:26	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 17:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 17:26	1
Vinyl chloride	**3.2**		1.0	0.50	ug/L			10/22/15 17:26	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 17:26	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 17:26	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 17:26	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/15 17:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*10/22/15 17:26*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/22/15 17:26*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/22/15 17:26*	*1*

Client Sample ID: RW-4

Lab Sample ID: 680-117892-40

Date Collected: 10/13/15 10:29

Matrix: Water

Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 17:47	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 17:47	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 17:47	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 17:47	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 17:47	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 17:47	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: RW-4

Date Collected: 10/13/15 10:29
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-40

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 17:47	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 17:47	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 17:47	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 17:47	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 17:47	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 17:47	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 17:47	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 17:47	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 17:47	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 17:47	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 17:47	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 17:47	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 17:47	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 17:47	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 17:47	1
cis-1,2-Dichloroethene	**2.7**		1.0	0.41	ug/L			10/22/15 17:47	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 17:47	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 17:47	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 17:47	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 17:47	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 17:47	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 17:47	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 17:47	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 17:47	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 17:47	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 17:47	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 17:47	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 17:47	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 17:47	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 17:47	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 17:47	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 17:47	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 17:47	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 17:47	1
Trichloroethene	**0.65**	**J**	1.0	0.48	ug/L			10/22/15 17:47	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 17:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 17:47	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 17:47	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 17:47	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 17:47	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 17:47	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/22/15 17:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*10/22/15 17:47*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/22/15 17:47*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/22/15 17:47*	*1*

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-U2

Date Collected: 10/14/15 10:41
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-41

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 12:59	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 12:59	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 12:59	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 12:59	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 12:59	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 12:59	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 12:59	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 12:59	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 12:59	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 12:59	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 12:59	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 12:59	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 12:59	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 12:59	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 12:59	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 12:59	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 12:59	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 12:59	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 12:59	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 12:59	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 12:59	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 12:59	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 12:59	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 12:59	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 12:59	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 12:59	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 12:59	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 12:59	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 12:59	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 12:59	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 12:59	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 12:59	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 12:59	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 12:59	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 12:59	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 12:59	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 12:59	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 12:59	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 12:59	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 12:59	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 12:59	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 12:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 12:59	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 12:59	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 12:59	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 12:59	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 12:59	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 12:59	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-U2

Date Collected: 10/14/15 10:41
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-41
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/22/15 12:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*10/22/15 12:59*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*10/22/15 12:59*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/22/15 12:59*	*1*

Client Sample ID: Trip Blank

Date Collected: 10/12/15 08:00
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-42
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 12:40	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 12:40	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 12:40	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 12:40	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 12:40	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 12:40	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 12:40	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 12:40	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 12:40	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 12:40	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 12:40	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 12:40	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 12:40	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 12:40	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 12:40	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 12:40	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 12:40	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 12:40	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 12:40	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 12:40	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 12:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 12:40	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 12:40	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 12:40	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 12:40	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 12:40	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 12:40	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 12:40	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 12:40	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 12:40	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 12:40	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 12:40	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 12:40	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 12:40	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 12:40	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 12:40	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 12:40	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 12:40	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 12:40	1

Client Sample ID: Trip Blank

Lab Sample ID: 680-117892-42

Date Collected: 10/12/15 08:00
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 12:40	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 12:40	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 12:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 12:40	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 12:40	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 12:40	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 12:40	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 12:40	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/22/15 12:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/22/15 12:40*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/15 12:40*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/22/15 12:40*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 680-117892-43

Date Collected: 10/12/15 08:00
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 12:25	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 12:25	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 12:25	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 12:25	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 12:25	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 12:25	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 12:25	1
Carbon tetrachloride	<0.33	*	1.0	0.33	ug/L			10/22/15 12:25	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 12:25	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 12:25	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 12:25	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 12:25	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 12:25	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 12:25	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 12:25	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 12:25	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 12:25	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 12:25	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 12:25	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 12:25	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 12:25	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 12:25	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 12:25	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 12:25	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 12:25	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 12:25	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 12:25	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 12:25	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: Trip Blank

Lab Sample ID: 680-117892-43

Date Collected: 10/12/15 08:00
Matrix: Water
Date Received: 10/15/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 12:25	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 12:25	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 12:25	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 12:25	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 12:25	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 12:25	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 12:25	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 12:25	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 12:25	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 12:25	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 12:25	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 12:25	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 12:25	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 12:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 12:25	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 12:25	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 12:25	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 12:25	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 12:25	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/22/15 12:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*10/22/15 12:25*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/22/15 12:25*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/22/15 12:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-406824/10
Matrix: Water
Analysis Batch: 406824

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 11:39	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 11:39	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 11:39	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 11:39	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 11:39	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 11:39	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 11:39	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 11:39	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 11:39	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 11:39	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 11:39	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 11:39	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 11:39	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 11:39	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 11:39	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 11:39	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 11:39	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 11:39	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 11:39	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 11:39	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 11:39	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 11:39	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 11:39	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 11:39	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 11:39	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 11:39	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 11:39	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 11:39	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 11:39	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 11:39	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 11:39	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 11:39	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 11:39	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 11:39	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 11:39	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 11:39	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 11:39	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 11:39	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 11:39	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 11:39	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 11:39	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 11:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 11:39	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 11:39	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 11:39	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 11:39	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 11:39	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 11:39	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-406824/10
Matrix: Water
Analysis Batch: 406824

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		10/22/15 11:39	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		10/22/15 11:39	1
Dibromofluoromethane (Surr)	94		70 - 130		10/22/15 11:39	1
4-Bromofluorobenzene (Surr)	92		70 - 130		10/22/15 11:39	1

Lab Sample ID: LCS 680-406824/5
Matrix: Water
Analysis Batch: 406824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	215		ug/L		86	60 - 154
Benzene	50.0	48.0		ug/L		96	73 - 131
Bromodichloromethane	50.0	48.9		ug/L		98	77 - 129
Bromoform	50.0	52.3		ug/L		105	69 - 135
Bromomethane	50.0	58.5		ug/L		117	20 - 180
2-Butanone	250	225		ug/L		90	75 - 133
Carbon disulfide	50.0	46.8		ug/L		94	73 - 127
Carbon tetrachloride	50.0	51.7		ug/L		103	75 - 130
Chlorobenzene	50.0	49.7		ug/L		99	80 - 120
Chloroethane	50.0	51.7		ug/L		103	50 - 151
Chloroform	50.0	48.5		ug/L		97	79 - 122
Chloromethane	50.0	46.3		ug/L		93	63 - 126
Dibromochloromethane	50.0	49.5		ug/L		99	71 - 136
1,2-Dibromo-3-Chloropropane	50.0	47.6		ug/L		95	59 - 141
1,2-Dibromoethane	50.0	50.1		ug/L		100	77 - 131
1,2-Dichlorobenzene	50.0	49.3		ug/L		99	80 - 120
1,3-Dichlorobenzene	50.0	49.2		ug/L		98	80 - 120
1,4-Dichlorobenzene	50.0	48.5		ug/L		97	80 - 120
Dichlorodifluoromethane	50.0	42.6		ug/L		85	51 - 140
1,1-Dichloroethane	50.0	45.2		ug/L		90	80 - 120
1,2-Dichloroethane	50.0	46.6		ug/L		93	75 - 130
cis-1,2-Dichloroethene	50.0	45.5		ug/L		91	80 - 122
trans-1,2-Dichloroethene	50.0	49.8		ug/L		100	78 - 123
1,1-Dichloroethene	50.0	44.5		ug/L		89	74 - 125
1,2-Dichloropropane	50.0	47.4		ug/L		95	80 - 123
cis-1,3-Dichloropropene	50.0	49.1		ug/L		98	80 - 133
trans-1,3-Dichloropropene	50.0	48.2		ug/L		96	74 - 140
Ethylbenzene	50.0	49.9		ug/L		100	80 - 120
2-Hexanone	250	205		ug/L		82	70 - 141
Isopropylbenzene	50.0	52.2		ug/L		104	80 - 120
Methylene Chloride	50.0	48.9		ug/L		98	76 - 129
4-Methyl-2-pentanone	250	204		ug/L		81	75 - 135
Methyl tert-butyl ether	50.0	46.6		ug/L		93	74 - 135
Styrene	50.0	50.0		ug/L		100	80 - 122
1,1,2,2-Tetrachloroethane	50.0	44.6		ug/L		89	72 - 128
Tetrachloroethene	50.0	51.2		ug/L		102	77 - 123
Toluene	50.0	49.1		ug/L		98	80 - 122
1,2,4-Trichlorobenzene	50.0	46.6		ug/L		93	77 - 131

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-406824/5
Matrix: Water
Analysis Batch: 406824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	48.8		ug/L		98	74 - 128
1,1,2-Trichloroethane	50.0	47.8		ug/L		96	79 - 125
Trichloroethene	50.0	50.5		ug/L		101	80 - 123
Trichlorofluoromethane	50.0	50.4		ug/L		101	58 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.8		ug/L		96	65 - 131
Vinyl chloride	50.0	41.1		ug/L		82	68 - 132
Xylenes, Total	100	99.5		ug/L		100	80 - 120
Cyclohexane	50.0	50.6		ug/L		101	69 - 130
Methyl acetate	250	190		ug/L		76	66 - 134
Methylcyclohexane	50.0	51.8		ug/L		104	75 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 680-406824/6
Matrix: Water
Analysis Batch: 406824

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	208		ug/L		83	60 - 154	3	40
Benzene	50.0	48.2		ug/L		96	73 - 131	0	30
Bromodichloromethane	50.0	49.2		ug/L		98	77 - 129	1	20
Bromoform	50.0	52.0		ug/L		104	69 - 135	1	20
Bromomethane	50.0	51.2		ug/L		102	20 - 180	13	40
2-Butanone	250	229		ug/L		92	75 - 133	2	30
Carbon disulfide	50.0	45.5		ug/L		91	73 - 127	3	20
Carbon tetrachloride	50.0	52.0		ug/L		104	75 - 130	1	20
Chlorobenzene	50.0	50.3		ug/L		101	80 - 120	1	20
Chloroethane	50.0	49.5		ug/L		99	50 - 151	4	30
Chloroform	50.0	49.2		ug/L		98	79 - 122	1	20
Chloromethane	50.0	47.2		ug/L		94	63 - 126	2	30
Dibromochloromethane	50.0	49.1		ug/L		98	71 - 136	1	20
1,2-Dibromo-3-Chloropropane	50.0	49.9		ug/L		100	59 - 141	5	30
1,2-Dibromoethane	50.0	49.9		ug/L		100	77 - 131	0	30
1,2-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 120	1	20
1,3-Dichlorobenzene	50.0	49.0		ug/L		98	80 - 120	1	20
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	80 - 120	1	20
Dichlorodifluoromethane	50.0	39.4		ug/L		79	51 - 140	8	40
1,1-Dichloroethane	50.0	45.7		ug/L		91	80 - 120	1	20
1,2-Dichloroethane	50.0	47.1		ug/L		94	75 - 130	1	20
cis-1,2-Dichloroethene	50.0	45.9		ug/L		92	80 - 122	1	20
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	78 - 123	0	20
1,1-Dichloroethene	50.0	46.0		ug/L		92	74 - 125	3	20
1,2-Dichloropropane	50.0	47.5		ug/L		95	80 - 123	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-406824/6
Matrix: Water
Analysis Batch: 406824

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	50.0	49.3		ug/L		99	80 - 133	0	20
trans-1,3-Dichloropropene	50.0	48.0		ug/L		96	74 - 140	0	20
Ethylbenzene	50.0	50.1		ug/L		100	80 - 120	1	20
2-Hexanone	250	203		ug/L		81	70 - 141	1	40
Isopropylbenzene	50.0	52.3		ug/L		105	80 - 120	0	20
Methylene Chloride	50.0	48.6		ug/L		97	76 - 129	0	20
4-Methyl-2-pentanone	250	208		ug/L		83	75 - 135	2	30
Methyl tert-butyl ether	50.0	47.8		ug/L		96	74 - 135	2	20
Styrene	50.0	50.1		ug/L		100	80 - 122	0	20
1,1,2,2-Tetrachloroethane	50.0	44.9		ug/L		90	72 - 128	1	20
Tetrachloroethene	50.0	50.0		ug/L		100	77 - 123	2	20
Toluene	50.0	49.0		ug/L		98	80 - 122	0	20
1,2,4-Trichlorobenzene	50.0	48.1		ug/L		96	77 - 131	3	20
1,1,1-Trichloroethane	50.0	49.2		ug/L		98	74 - 128	1	20
1,1,2-Trichloroethane	50.0	47.2		ug/L		94	79 - 125	1	20
Trichloroethene	50.0	50.8		ug/L		102	80 - 123	1	20
Trichlorofluoromethane	50.0	53.5		ug/L		107	58 - 145	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.9		ug/L		98	65 - 131	2	30
Vinyl chloride	50.0	40.4		ug/L		81	68 - 132	2	30
Xylenes, Total	100	100		ug/L		100	80 - 120	1	20
Cyclohexane	50.0	51.6		ug/L		103	69 - 130	2	30
Methyl acetate	250	190		ug/L		76	66 - 134	0	30
Methylcyclohexane	50.0	52.7		ug/L		105	75 - 127	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 680-406826/10
Matrix: Water
Analysis Batch: 406826

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 12:03	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 12:03	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 12:03	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 12:03	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 12:03	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 12:03	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 12:03	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 12:03	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 12:03	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 12:03	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 12:03	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 12:03	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-406826/10
Matrix: Water
Analysis Batch: 406826

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 12:03	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 12:03	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 12:03	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 12:03	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 12:03	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 12:03	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 12:03	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 12:03	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 12:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 12:03	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 12:03	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 12:03	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 12:03	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 12:03	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 12:03	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 12:03	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 12:03	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 12:03	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 12:03	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 12:03	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 12:03	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 12:03	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 12:03	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 12:03	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 12:03	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 12:03	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 12:03	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 12:03	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 12:03	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 12:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 12:03	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 12:03	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 12:03	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 12:03	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 12:03	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 12:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/22/15 12:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*10/22/15 12:03*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/22/15 12:03*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/22/15 12:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-406826/5
Matrix: Water
Analysis Batch: 406826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	195		ug/L		78	60 - 154
Benzene	50.0	50.2		ug/L		100	73 - 131
Bromodichloromethane	50.0	60.0		ug/L		120	77 - 129
Bromoform	50.0	62.5		ug/L		125	69 - 135
Bromomethane	50.0	55.1		ug/L		110	20 - 180
2-Butanone	250	206		ug/L		82	75 - 133
Carbon disulfide	50.0	50.6		ug/L		101	73 - 127
Carbon tetrachloride	50.0	70.3	*	ug/L		141	75 - 130
Chlorobenzene	50.0	50.3		ug/L		101	80 - 120
Chloroethane	50.0	57.7		ug/L		115	50 - 151
Chloroform	50.0	56.7		ug/L		113	79 - 122
Chloromethane	50.0	56.3		ug/L		113	63 - 126
Dibromochloromethane	50.0	60.5		ug/L		121	71 - 136
1,2-Dibromo-3-Chloropropane	50.0	48.3		ug/L		97	59 - 141
1,2-Dibromoethane	50.0	49.8		ug/L		100	77 - 131
1,2-Dichlorobenzene	50.0	51.0		ug/L		102	80 - 120
1,3-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120
1,4-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 120
Dichlorodifluoromethane	50.0	53.6		ug/L		107	51 - 140
1,1-Dichloroethane	50.0	52.4		ug/L		105	80 - 120
1,2-Dichloroethane	50.0	56.1		ug/L		112	75 - 130
cis-1,2-Dichloroethene	50.0	56.0		ug/L		112	80 - 122
trans-1,2-Dichloroethene	50.0	52.9		ug/L		106	78 - 123
1,1-Dichloroethene	50.0	52.3		ug/L		105	74 - 125
1,2-Dichloropropane	50.0	52.5		ug/L		105	80 - 123
cis-1,3-Dichloropropene	50.0	56.9		ug/L		114	80 - 133
trans-1,3-Dichloropropene	50.0	57.2		ug/L		114	74 - 140
Ethylbenzene	50.0	49.8		ug/L		100	80 - 120
2-Hexanone	250	213		ug/L		85	70 - 141
Isopropylbenzene	50.0	51.9		ug/L		104	80 - 120
Methylene Chloride	50.0	52.2		ug/L		104	76 - 129
4-Methyl-2-pentanone	250	215		ug/L		86	75 - 135
Methyl tert-butyl ether	50.0	49.0		ug/L		98	74 - 135
Styrene	50.0	51.3		ug/L		103	80 - 122
1,1,2,2-Tetrachloroethane	50.0	41.6		ug/L		83	72 - 128
Tetrachloroethene	50.0	53.2		ug/L		106	77 - 123
Toluene	50.0	50.9		ug/L		102	80 - 122
1,2,4-Trichlorobenzene	50.0	54.7		ug/L		109	77 - 131
1,1,1-Trichloroethane	50.0	61.7		ug/L		123	74 - 128
1,1,2-Trichloroethane	50.0	47.9		ug/L		96	79 - 125
Trichloroethene	50.0	55.1		ug/L		110	80 - 123
Trichlorofluoromethane	50.0	62.8		ug/L		126	58 - 145
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	54.8		ug/L		110	65 - 131
Vinyl chloride	50.0	56.1		ug/L		112	68 - 132
Xylenes, Total	100	103		ug/L		103	80 - 120
Cyclohexane	50.0	49.1		ug/L		98	69 - 130
Methyl acetate	250	204		ug/L		82	66 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-406826/5
Matrix: Water
Analysis Batch: 406826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylcyclohexane			50.0	49.7		ug/L		99	75 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*
Dibromofluoromethane (Surr)	*116*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-406826/6
Matrix: Water
Analysis Batch: 406826

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			250	194		ug/L		78	60 - 154	1	40
Benzene			50.0	51.2		ug/L		102	73 - 131	2	30
Bromodichloromethane			50.0	61.5		ug/L		123	77 - 129	2	20
Bromoform			50.0	62.6		ug/L		125	69 - 135	0	20
Bromomethane			50.0	62.5		ug/L		125	20 - 180	12	40
2-Butanone			250	206		ug/L		82	75 - 133	0	30
Carbon disulfide			50.0	52.1		ug/L		104	73 - 127	3	20
Carbon tetrachloride			50.0	71.5	*	ug/L		143	75 - 130	2	20
Chlorobenzene			50.0	50.6		ug/L		101	80 - 120	1	20
Chloroethane			50.0	60.2		ug/L		120	50 - 151	4	30
Chloroform			50.0	57.6		ug/L		115	79 - 122	1	20
Chloromethane			50.0	56.9		ug/L		114	63 - 126	1	30
Dibromochloromethane			50.0	61.3		ug/L		123	71 - 136	1	20
1,2-Dibromo-3-Chloropropane			50.0	49.8		ug/L		100	59 - 141	3	30
1,2-Dibromoethane			50.0	50.9		ug/L		102	77 - 131	2	30
1,2-Dichlorobenzene			50.0	52.6		ug/L		105	80 - 120	3	20
1,3-Dichlorobenzene			50.0	52.6		ug/L		105	80 - 120	4	20
1,4-Dichlorobenzene			50.0	51.2		ug/L		102	80 - 120	3	20
Dichlorodifluoromethane			50.0	54.0		ug/L		108	51 - 140	1	40
1,1-Dichloroethane			50.0	53.5		ug/L		107	80 - 120	2	20
1,2-Dichloroethane			50.0	56.4		ug/L		113	75 - 130	1	20
cis-1,2-Dichloroethene			50.0	57.2		ug/L		114	80 - 122	2	20
trans-1,2-Dichloroethene			50.0	53.9		ug/L		108	78 - 123	2	20
1,1-Dichloroethene			50.0	53.6		ug/L		107	74 - 125	3	20
1,2-Dichloropropane			50.0	54.5		ug/L		109	80 - 123	4	20
cis-1,3-Dichloropropene			50.0	58.0		ug/L		116	80 - 133	2	20
trans-1,3-Dichloropropene			50.0	58.0		ug/L		116	74 - 140	1	20
Ethylbenzene			50.0	49.4		ug/L		99	80 - 120	1	20
2-Hexanone			250	214		ug/L		85	70 - 141	0	40
Isopropylbenzene			50.0	51.7		ug/L		103	80 - 120	0	20
Methylene Chloride			50.0	52.9		ug/L		106	76 - 129	1	20
4-Methyl-2-pentanone			250	215		ug/L		86	75 - 135	0	30
Methyl tert-butyl ether			50.0	50.2		ug/L		100	74 - 135	2	20
Styrene			50.0	50.8		ug/L		102	80 - 122	1	20
1,1,2,2-Tetrachloroethane			50.0	41.7		ug/L		83	72 - 128	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-406826/6
Matrix: Water
Analysis Batch: 406826

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene			50.0	53.5		ug/L		107	77 - 123	1	20
Toluene			50.0	52.0		ug/L		104	80 - 122	2	20
1,2,4-Trichlorobenzene			50.0	55.3		ug/L		111	77 - 131	1	20
1,1,1-Trichloroethane			50.0	62.3		ug/L		125	74 - 128	1	20
1,1,2-Trichloroethane			50.0	48.8		ug/L		98	79 - 125	2	20
Trichloroethene			50.0	55.8		ug/L		112	80 - 123	1	20
Trichlorofluoromethane			50.0	63.9		ug/L		128	58 - 145	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	55.7		ug/L		111	65 - 131	2	30
Vinyl chloride			50.0	57.4		ug/L		115	68 - 132	2	30
Xylenes, Total			100	102		ug/L		102	80 - 120	0	20
Cyclohexane			50.0	51.3		ug/L		103	69 - 130	4	30
Methyl acetate			250	207		ug/L		83	66 - 134	1	30
Methylcyclohexane			50.0	50.5		ug/L		101	75 - 127	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*
Dibromofluoromethane (Surr)	*117*		*70 - 130*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 680-406835/9
Matrix: Water
Analysis Batch: 406835

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/22/15 12:17	1
Benzene	<0.43		1.0	0.43	ug/L			10/22/15 12:17	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/22/15 12:17	1
Bromoform	<0.43		1.0	0.43	ug/L			10/22/15 12:17	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/22/15 12:17	1
2-Butanone	<3.4		10	3.4	ug/L			10/22/15 12:17	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/22/15 12:17	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/22/15 12:17	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/22/15 12:17	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/22/15 12:17	1
Chloroform	<0.50		1.0	0.50	ug/L			10/22/15 12:17	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/22/15 12:17	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/15 12:17	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/22/15 12:17	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/22/15 12:17	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/22/15 12:17	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/22/15 12:17	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/22/15 12:17	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/22/15 12:17	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/22/15 12:17	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/22/15 12:17	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/22/15 12:17	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-406835/9
Matrix: Water
Analysis Batch: 406835

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/22/15 12:17	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/22/15 12:17	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/22/15 12:17	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/22/15 12:17	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/22/15 12:17	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/22/15 12:17	1
2-Hexanone	<2.0		10	2.0	ug/L			10/22/15 12:17	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/22/15 12:17	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/22/15 12:17	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/22/15 12:17	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/22/15 12:17	1
Styrene	<0.27		1.0	0.27	ug/L			10/22/15 12:17	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/22/15 12:17	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/22/15 12:17	1
Toluene	<0.48		1.0	0.48	ug/L			10/22/15 12:17	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/22/15 12:17	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/22/15 12:17	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/22/15 12:17	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/22/15 12:17	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/22/15 12:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/22/15 12:17	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/22/15 12:17	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/15 12:17	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/22/15 12:17	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/22/15 12:17	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/22/15 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/22/15 12:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/22/15 12:17*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/15 12:17*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/22/15 12:17*	*1*

Lab Sample ID: LCS 680-406835/4
Matrix: Water
Analysis Batch: 406835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	251		ug/L		101	60 - 154
Benzene	50.0	51.9		ug/L		104	73 - 131
Bromodichloromethane	50.0	54.2		ug/L		108	77 - 129
Bromoform	50.0	43.7		ug/L		87	69 - 135
Bromomethane	50.0	42.8		ug/L		86	20 - 180
2-Butanone	250	250		ug/L		100	75 - 133
Carbon disulfide	50.0	52.6		ug/L		105	73 - 127
Carbon tetrachloride	50.0	52.5		ug/L		105	75 - 130
Chlorobenzene	50.0	52.8		ug/L		106	80 - 120
Chloroethane	50.0	50.4		ug/L		101	50 - 151

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-406835/4
Matrix: Water
Analysis Batch: 406835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	51.2		ug/L		102	79 - 122
Chloromethane	50.0	44.1		ug/L		88	63 - 126
Dibromochloromethane	50.0	48.5		ug/L		97	71 - 136
1,2-Dibromo-3-Chloropropane	50.0	45.8		ug/L		92	59 - 141
1,2-Dibromoethane	50.0	55.6		ug/L		111	77 - 131
1,2-Dichlorobenzene	50.0	52.1		ug/L		104	80 - 120
1,3-Dichlorobenzene	50.0	53.8		ug/L		108	80 - 120
1,4-Dichlorobenzene	50.0	51.5		ug/L		103	80 - 120
Dichlorodifluoromethane	50.0	46.4		ug/L		93	51 - 140
1,1-Dichloroethane	50.0	51.5		ug/L		103	80 - 120
1,2-Dichloroethane	50.0	49.0		ug/L		98	75 - 130
cis-1,2-Dichloroethene	50.0	52.2		ug/L		104	80 - 122
trans-1,2-Dichloroethene	50.0	54.2		ug/L		108	78 - 123
1,1-Dichloroethene	50.0	56.6		ug/L		113	74 - 125
1,2-Dichloropropane	50.0	53.5		ug/L		107	80 - 123
cis-1,3-Dichloropropene	50.0	48.0		ug/L		96	80 - 133
trans-1,3-Dichloropropene	50.0	44.3		ug/L		89	74 - 140
Ethylbenzene	50.0	53.1		ug/L		106	80 - 120
2-Hexanone	250	262		ug/L		105	70 - 141
Isopropylbenzene	50.0	56.9		ug/L		114	80 - 120
Methylene Chloride	50.0	52.1		ug/L		104	76 - 129
4-Methyl-2-pentanone	250	259		ug/L		104	75 - 135
Methyl tert-butyl ether	50.0	52.5		ug/L		105	74 - 135
Styrene	50.0	55.0		ug/L		110	80 - 122
1,1,2,2-Tetrachloroethane	50.0	52.0		ug/L		104	72 - 128
Tetrachloroethene	50.0	54.1		ug/L		108	77 - 123
Toluene	50.0	52.4		ug/L		105	80 - 122
1,2,4-Trichlorobenzene	50.0	56.2		ug/L		112	77 - 131
1,1,1-Trichloroethane	50.0	55.8		ug/L		112	74 - 128
1,1,2-Trichloroethane	50.0	50.9		ug/L		102	79 - 125
Trichloroethene	50.0	54.5		ug/L		109	80 - 123
Trichlorofluoromethane	50.0	46.7		ug/L		93	58 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.1		ug/L		108	65 - 131
Vinyl chloride	50.0	49.3		ug/L		99	68 - 132
Xylenes, Total	100	107		ug/L		107	80 - 120
Cyclohexane	50.0	53.1		ug/L		106	69 - 130
Methyl acetate	250	254		ug/L		101	66 - 134
Methylcyclohexane	50.0	53.9		ug/L		108	75 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-406835/5
Matrix: Water
Analysis Batch: 406835

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	271		ug/L		108	60 - 154	7	40
Benzene	50.0	52.9		ug/L		106	73 - 131	2	30
Bromodichloromethane	50.0	55.6		ug/L		111	77 - 129	3	20
Bromoform	50.0	43.9		ug/L		88	69 - 135	0	20
Bromomethane	50.0	47.9		ug/L		96	20 - 180	11	40
2-Butanone	250	259		ug/L		104	75 - 133	4	30
Carbon disulfide	50.0	54.1		ug/L		108	73 - 127	3	20
Carbon tetrachloride	50.0	53.6		ug/L		107	75 - 130	2	20
Chlorobenzene	50.0	53.5		ug/L		107	80 - 120	1	20
Chloroethane	50.0	51.6		ug/L		103	50 - 151	2	30
Chloroform	50.0	52.9		ug/L		106	79 - 122	3	20
Chloromethane	50.0	45.5		ug/L		91	63 - 126	3	30
Dibromochloromethane	50.0	51.0		ug/L		102	71 - 136	5	20
1,2-Dibromo-3-Chloropropane	50.0	48.1		ug/L		96	59 - 141	5	30
1,2-Dibromoethane	50.0	57.2		ug/L		114	77 - 131	3	30
1,2-Dichlorobenzene	50.0	52.7		ug/L		105	80 - 120	1	20
1,3-Dichlorobenzene	50.0	53.8		ug/L		108	80 - 120	0	20
1,4-Dichlorobenzene	50.0	51.8		ug/L		104	80 - 120	1	20
Dichlorodifluoromethane	50.0	44.9		ug/L		90	51 - 140	3	40
1,1-Dichloroethane	50.0	52.4		ug/L		105	80 - 120	2	20
1,2-Dichloroethane	50.0	51.1		ug/L		102	75 - 130	4	20
cis-1,2-Dichloroethene	50.0	53.7		ug/L		107	80 - 122	3	20
trans-1,2-Dichloroethene	50.0	53.6		ug/L		107	78 - 123	1	20
1,1-Dichloroethene	50.0	54.1		ug/L		108	74 - 125	4	20
1,2-Dichloropropane	50.0	54.1		ug/L		108	80 - 123	1	20
cis-1,3-Dichloropropene	50.0	50.2		ug/L		100	80 - 133	5	20
trans-1,3-Dichloropropene	50.0	46.2		ug/L		92	74 - 140	4	20
Ethylbenzene	50.0	53.1		ug/L		106	80 - 120	0	20
2-Hexanone	250	272		ug/L		109	70 - 141	4	40
Isopropylbenzene	50.0	56.3		ug/L		113	80 - 120	1	20
Methylene Chloride	50.0	52.8		ug/L		106	76 - 129	1	20
4-Methyl-2-pentanone	250	268		ug/L		107	75 - 135	3	30
Methyl tert-butyl ether	50.0	55.2		ug/L		110	74 - 135	5	20
Styrene	50.0	55.3		ug/L		111	80 - 122	0	20
1,1,2,2-Tetrachloroethane	50.0	51.7		ug/L		103	72 - 128	1	20
Tetrachloroethene	50.0	55.2		ug/L		110	77 - 123	2	20
Toluene	50.0	53.6		ug/L		107	80 - 122	2	20
1,2,4-Trichlorobenzene	50.0	57.3		ug/L		115	77 - 131	2	20
1,1,1-Trichloroethane	50.0	56.9		ug/L		114	74 - 128	2	20
1,1,2-Trichloroethane	50.0	53.0		ug/L		106	79 - 125	4	20
Trichloroethene	50.0	56.2		ug/L		112	80 - 123	3	20
Trichlorofluoromethane	50.0	49.9		ug/L		100	58 - 145	7	30
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	54.5		ug/L		109	65 - 131	1	30
Vinyl chloride	50.0	50.4		ug/L		101	68 - 132	2	30
Xylenes, Total	100	107		ug/L		107	80 - 120	0	20
Cyclohexane	50.0	54.8		ug/L		110	69 - 130	3	30
Methyl acetate	250	264		ug/L		106	66 - 134	4	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-406835/5
Matrix: Water
Analysis Batch: 406835

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylcyclohexane			50.0	54.9		ug/L		110	75 - 127	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*110*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 680-407013/9
Matrix: Water
Analysis Batch: 407013

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/23/15 10:14	1
Benzene	<0.43		1.0	0.43	ug/L			10/23/15 10:14	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/23/15 10:14	1
Bromoform	<0.43		1.0	0.43	ug/L			10/23/15 10:14	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/23/15 10:14	1
2-Butanone	<3.4		10	3.4	ug/L			10/23/15 10:14	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/23/15 10:14	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/23/15 10:14	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/23/15 10:14	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/23/15 10:14	1
Chloroform	<0.50		1.0	0.50	ug/L			10/23/15 10:14	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/23/15 10:14	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/23/15 10:14	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/23/15 10:14	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/23/15 10:14	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/23/15 10:14	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/23/15 10:14	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/23/15 10:14	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/23/15 10:14	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/23/15 10:14	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/23/15 10:14	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/23/15 10:14	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/23/15 10:14	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/23/15 10:14	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/23/15 10:14	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/23/15 10:14	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/23/15 10:14	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/23/15 10:14	1
2-Hexanone	<2.0		10	2.0	ug/L			10/23/15 10:14	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/23/15 10:14	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/23/15 10:14	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/23/15 10:14	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/23/15 10:14	1
Styrene	<0.27		1.0	0.27	ug/L			10/23/15 10:14	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/23/15 10:14	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-407013/9
Matrix: Water
Analysis Batch: 407013

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/23/15 10:14	1
Toluene	<0.48		1.0	0.48	ug/L			10/23/15 10:14	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/23/15 10:14	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/23/15 10:14	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/23/15 10:14	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/23/15 10:14	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/23/15 10:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/23/15 10:14	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/23/15 10:14	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/23/15 10:14	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/23/15 10:14	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/23/15 10:14	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/23/15 10:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/23/15 10:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*10/23/15 10:14*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/23/15 10:14*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/23/15 10:14*	*1*

Lab Sample ID: LCS 680-407013/4
Matrix: Water
Analysis Batch: 407013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	278		ug/L		111	60 - 154
Benzene	50.0	52.6		ug/L		105	73 - 131
Bromodichloromethane	50.0	57.3		ug/L		115	77 - 129
Bromoform	50.0	46.2		ug/L		92	69 - 135
Bromomethane	50.0	43.5		ug/L		87	20 - 180
2-Butanone	250	281		ug/L		112	75 - 133
Carbon disulfide	50.0	50.8		ug/L		102	73 - 127
Carbon tetrachloride	50.0	49.8		ug/L		100	75 - 130
Chlorobenzene	50.0	52.8		ug/L		106	80 - 120
Chloroethane	50.0	49.9		ug/L		100	50 - 151
Chloroform	50.0	53.6		ug/L		107	79 - 122
Chloromethane	50.0	44.0		ug/L		88	63 - 126
Dibromochloromethane	50.0	52.6		ug/L		105	71 - 136
1,2-Dibromo-3-Chloropropane	50.0	48.3		ug/L		97	59 - 141
1,2-Dibromoethane	50.0	60.2		ug/L		120	77 - 131
1,2-Dichlorobenzene	50.0	52.5		ug/L		105	80 - 120
1,3-Dichlorobenzene	50.0	53.6		ug/L		107	80 - 120
1,4-Dichlorobenzene	50.0	51.7		ug/L		103	80 - 120
Dichlorodifluoromethane	50.0	42.6		ug/L		85	51 - 140
1,1-Dichloroethane	50.0	52.9		ug/L		106	80 - 120
1,2-Dichloroethane	50.0	53.6		ug/L		107	75 - 130
cis-1,2-Dichloroethene	50.0	54.2		ug/L		108	80 - 122
trans-1,2-Dichloroethene	50.0	52.4		ug/L		105	78 - 123

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-407013/4
Matrix: Water
Analysis Batch: 407013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	50.0	54.0		ug/L		108	74 - 125
1,2-Dichloropropane	50.0	55.4		ug/L		111	80 - 123
cis-1,3-Dichloropropene	50.0	50.4		ug/L		101	80 - 133
trans-1,3-Dichloropropene	50.0	47.4		ug/L		95	74 - 140
Ethylbenzene	50.0	51.9		ug/L		104	80 - 120
2-Hexanone	250	281		ug/L		112	70 - 141
Isopropylbenzene	50.0	54.7		ug/L		109	80 - 120
Methylene Chloride	50.0	55.3		ug/L		111	76 - 129
4-Methyl-2-pentanone	250	279		ug/L		112	75 - 135
Methyl tert-butyl ether	50.0	57.6		ug/L		115	74 - 135
Styrene	50.0	55.3		ug/L		111	80 - 122
1,1,2,2-Tetrachloroethane	50.0	53.7		ug/L		107	72 - 128
Tetrachloroethene	50.0	52.9		ug/L		106	77 - 123
Toluene	50.0	52.7		ug/L		105	80 - 122
1,2,4-Trichlorobenzene	50.0	57.3		ug/L		115	77 - 131
1,1,1-Trichloroethane	50.0	54.3		ug/L		109	74 - 128
1,1,2-Trichloroethane	50.0	54.3		ug/L		109	79 - 125
Trichloroethene	50.0	54.4		ug/L		109	80 - 123
Trichlorofluoromethane	50.0	45.5		ug/L		91	58 - 145
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	51.7		ug/L		103	65 - 131
Vinyl chloride	50.0	46.8		ug/L		94	68 - 132
Xylenes, Total	100	106		ug/L		106	80 - 120
Cyclohexane	50.0	50.7		ug/L		101	69 - 130
Methyl acetate	250	280		ug/L		112	66 - 134
Methylcyclohexane	50.0	50.1		ug/L		100	75 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
Dibromofluoromethane (Surr)	*112*		*70 - 130*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 680-407013/5
Matrix: Water
Analysis Batch: 407013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	271		ug/L		108	60 - 154	3	40
Benzene	50.0	50.7		ug/L		101	73 - 131	4	30
Bromodichloromethane	50.0	55.9		ug/L		112	77 - 129	2	20
Bromoform	50.0	48.5		ug/L		97	69 - 135	5	20
Bromomethane	50.0	43.4		ug/L		87	20 - 180	0	40
2-Butanone	250	266		ug/L		107	75 - 133	5	30
Carbon disulfide	50.0	50.2		ug/L		100	73 - 127	1	20
Carbon tetrachloride	50.0	49.8		ug/L		100	75 - 130	0	20
Chlorobenzene	50.0	51.8		ug/L		104	80 - 120	2	20
Chloroethane	50.0	47.9		ug/L		96	50 - 151	4	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-407013/5
Matrix: Water
Analysis Batch: 407013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform			50.0	51.8		ug/L		104	79 - 122	3	20
Chloromethane			50.0	42.7		ug/L		85	63 - 126	3	30
Dibromochloromethane			50.0	53.1		ug/L		106	71 - 136	1	20
1,2-Dibromo-3-Chloropropane			50.0	50.8		ug/L		102	59 - 141	5	30
1,2-Dibromoethane			50.0	57.7		ug/L		115	77 - 131	4	30
1,2-Dichlorobenzene			50.0	51.4		ug/L		103	80 - 120	2	20
1,3-Dichlorobenzene			50.0	52.3		ug/L		105	80 - 120	2	20
1,4-Dichlorobenzene			50.0	51.3		ug/L		103	80 - 120	1	20
Dichlorodifluoromethane			50.0	43.4		ug/L		87	51 - 140	2	40
1,1-Dichloroethane			50.0	49.7		ug/L		99	80 - 120	6	20
1,2-Dichloroethane			50.0	51.7		ug/L		103	75 - 130	4	20
cis-1,2-Dichloroethene			50.0	51.8		ug/L		104	80 - 122	5	20
trans-1,2-Dichloroethene			50.0	50.7		ug/L		101	78 - 123	3	20
1,1-Dichloroethene			50.0	51.2		ug/L		102	74 - 125	5	20
1,2-Dichloropropane			50.0	53.7		ug/L		107	80 - 123	3	20
cis-1,3-Dichloropropene			50.0	48.6		ug/L		97	80 - 133	4	20
trans-1,3-Dichloropropene			50.0	47.0		ug/L		94	74 - 140	1	20
Ethylbenzene			50.0	51.0		ug/L		102	80 - 120	2	20
2-Hexanone			250	269		ug/L		108	70 - 141	4	40
Isopropylbenzene			50.0	53.9		ug/L		108	80 - 120	1	20
Methylene Chloride			50.0	52.7		ug/L		105	76 - 129	5	20
4-Methyl-2-pentanone			250	256		ug/L		102	75 - 135	9	30
Methyl tert-butyl ether			50.0	56.3		ug/L		113	74 - 135	2	20
Styrene			50.0	54.4		ug/L		109	80 - 122	2	20
1,1,2,2-Tetrachloroethane			50.0	52.7		ug/L		105	72 - 128	2	20
Tetrachloroethene			50.0	51.0		ug/L		102	77 - 123	4	20
Toluene			50.0	50.4		ug/L		101	80 - 122	4	20
1,2,4-Trichlorobenzene			50.0	57.3		ug/L		115	77 - 131	0	20
1,1,1-Trichloroethane			50.0	53.2		ug/L		106	74 - 128	2	20
1,1,2-Trichloroethane			50.0	52.5		ug/L		105	79 - 125	3	20
Trichloroethene			50.0	53.2		ug/L		106	80 - 123	2	20
Trichlorofluoromethane			50.0	46.6		ug/L		93	58 - 145	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	49.3		ug/L		99	65 - 131	5	30
Vinyl chloride			50.0	46.2		ug/L		92	68 - 132	1	30
Xylenes, Total			100	103		ug/L		103	80 - 120	2	20
Cyclohexane			50.0	50.2		ug/L		100	69 - 130	1	30
Methyl acetate			250	271		ug/L		108	66 - 134	3	30
Methylcyclohexane			50.0	48.9		ug/L		98	75 - 127	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*

QC Association Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

GC/MS VOA

Analysis Batch: 406824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-117892-1	G-17	Total/NA	Water	8260B	
680-117892-21	MW-41D	Total/NA	Water	8260B	
680-117892-41	MW-U2	Total/NA	Water	8260B	
LCS 680-406824/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-406824/6	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-406824/10	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 406826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-117892-4	MW-2D	Total/NA	Water	8260B	
680-117892-20	MW-40S	Total/NA	Water	8260B	
680-117892-22	MW-42S	Total/NA	Water	8260B	
680-117892-23	MW-43D	Total/NA	Water	8260B	
680-117892-24	MW-44D	Total/NA	Water	8260B	
680-117892-25	MW-45S	Total/NA	Water	8260B	
680-117892-26	MW-46S	Total/NA	Water	8260B	
680-117892-27	MW-47D	Total/NA	Water	8260B	
680-117892-28	MW-48S	Total/NA	Water	8260B	
680-117892-32	MW-52D	Total/NA	Water	8260B	
680-117892-33	MW-53D	Total/NA	Water	8260B	
680-117892-34	MW-54D	Total/NA	Water	8260B	
680-117892-36	MW-56D	Total/NA	Water	8260B	
680-117892-37	PAW-3	Total/NA	Water	8260B	
680-117892-38	PAW-4	Total/NA	Water	8260B	
680-117892-39	RW-1	Total/NA	Water	8260B	
680-117892-40	RW-4	Total/NA	Water	8260B	
680-117892-43	Trip Blank	Total/NA	Water	8260B	
LCS 680-406826/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-406826/6	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-406826/10	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 406835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-117892-2	G-19	Total/NA	Water	8260B	
680-117892-3	G-22	Total/NA	Water	8260B	
680-117892-5	MW-2S	Total/NA	Water	8260B	
680-117892-7	MW-11D	Total/NA	Water	8260B	
680-117892-8	MW-14D	Total/NA	Water	8260B	
680-117892-9	MW-15S	Total/NA	Water	8260B	
680-117892-10	MW-26	Total/NA	Water	8260B	
680-117892-11	MW-29	Total/NA	Water	8260B	
680-117892-12	MW-31	Total/NA	Water	8260B	
680-117892-13	MW-32	Total/NA	Water	8260B	
680-117892-15	MW-35	Total/NA	Water	8260B	
680-117892-16	MW-36	Total/NA	Water	8260B	
680-117892-17	MW-37S	Total/NA	Water	8260B	
680-117892-18	MW-38D	Total/NA	Water	8260B	
680-117892-19	MW-39D	Total/NA	Water	8260B	
680-117892-29	MW-49D	Total/NA	Water	8260B	
680-117892-42	Trip Blank	Total/NA	Water	8260B	
LCS 680-406835/4	Lab Control Sample	Total/NA	Water	8260B	

QC Association Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

GC/MS VOA (Continued)

Analysis Batch: 406835 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-406835/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-406835/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 407013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-117892-6	MW-4S	Total/NA	Water	8260B	
680-117892-14	MW-33	Total/NA	Water	8260B	
680-117892-30	MW-50S	Total/NA	Water	8260B	
680-117892-31	MW-51D	Total/NA	Water	8260B	
680-117892-35	MW-55D	Total/NA	Water	8260B	
LCS 680-407013/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-407013/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-407013/9	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: G-17 — Lab Sample ID: 680-117892-1

Date Collected: 10/13/15 15:25
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406824	10/22/15 13:41	DJK	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: G-19 — Lab Sample ID: 680-117892-2

Date Collected: 10/14/15 11:43
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 13:04	DJK	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: G-22 — Lab Sample ID: 680-117892-3

Date Collected: 10/14/15 10:15
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 13:27	DJK	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-2D — Lab Sample ID: 680-117892-4

Date Collected: 10/12/15 16:39
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	5 mL	5 mL	406826	10/22/15 18:09	DJK	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-2S — Lab Sample ID: 680-117892-5

Date Collected: 10/12/15 13:24
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 13:50	DJK	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-4S — Lab Sample ID: 680-117892-6

Date Collected: 10/13/15 10:46
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	5 mL	5 mL	407013	10/23/15 13:55	CEJ	TAL SAV
	Instrument ID: CMSAC									

Lab Chronicle

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-11D — Lab Sample ID: 680-117892-7

Date Collected: 10/12/15 11:33
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 14:13	DJK	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-14D — Lab Sample ID: 680-117892-8

Date Collected: 10/14/15 12:49
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 14:36	DJK	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-15S — Lab Sample ID: 680-117892-9

Date Collected: 10/13/15 15:12
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 14:59	DJK	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-26 — Lab Sample ID: 680-117892-10

Date Collected: 10/13/15 16:29
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 15:22	DJK	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-29 — Lab Sample ID: 680-117892-11

Date Collected: 10/12/15 12:40
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 15:45	DJK	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-31 — Lab Sample ID: 680-117892-12

Date Collected: 10/14/15 11:55
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 16:08	DJK	TAL SAV
	Instrument ID: CMSAC									

Lab Chronicle

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-32
Date Collected: 10/14/15 09:42
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 16:31	DJK	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-33
Date Collected: 10/13/15 16:16
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	407013	10/23/15 13:09	CEJ	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-35
Date Collected: 10/13/15 17:20
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 16:54	DJK	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-36
Date Collected: 10/13/15 09:55
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 17:17	DJK	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-37S
Date Collected: 10/13/15 12:59
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 17:40	DJK	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-38D
Date Collected: 10/13/15 12:09
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 18:03	DJK	TAL SAV
	Instrument ID: CMSAC									

Lab Chronicle

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-39D — Lab Sample ID: 680-117892-19

Date Collected: 10/13/15 18:04
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 18:26	DJK	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-40S — Lab Sample ID: 680-117892-20

Date Collected: 10/13/15 17:15
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	5 mL	5 mL	406826	10/22/15 18:30	DJK	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-41D — Lab Sample ID: 680-117892-21

Date Collected: 10/12/15 11:50
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406824	10/22/15 13:20	DJK	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: MW-42S — Lab Sample ID: 680-117892-22

Date Collected: 10/12/15 18:36
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 12:46	DJK	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-43D — Lab Sample ID: 680-117892-23

Date Collected: 10/12/15 16:31
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 13:08	DJK	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-44D — Lab Sample ID: 680-117892-24

Date Collected: 10/12/15 12:50
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 13:29	DJK	TAL SAV
	Instrument ID: CMSP2									

Lab Chronicle

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-45S — Lab Sample ID: 680-117892-25

Date Collected: 10/12/15 13:34 — **Matrix: Water**
Date Received: 10/15/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 13:51	DJK	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-46S — Lab Sample ID: 680-117892-26

Date Collected: 10/12/15 12:28 — **Matrix: Water**
Date Received: 10/15/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 14:12	DJK	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-47D — Lab Sample ID: 680-117892-27

Date Collected: 10/12/15 11:13 — **Matrix: Water**
Date Received: 10/15/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 14:34	DJK	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-48S — Lab Sample ID: 680-117892-28

Date Collected: 10/12/15 11:47 — **Matrix: Water**
Date Received: 10/15/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 14:55	DJK	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-49D — Lab Sample ID: 680-117892-29

Date Collected: 10/14/15 15:38 — **Matrix: Water**
Date Received: 10/15/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	406835	10/22/15 19:59	DJK	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-50S — Lab Sample ID: 680-117892-30

Date Collected: 10/14/15 11:51 — **Matrix: Water**
Date Received: 10/15/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		25	5 mL	5 mL	407013	10/23/15 15:28	CEJ	TAL SAV
	Instrument ID: CMSAC									

Lab Chronicle

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: MW-51D — Lab Sample ID: 680-117892-31

Date Collected: 10/14/15 17:58
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	407013	10/23/15 13:32	CEJ	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-52D — Lab Sample ID: 680-117892-32

Date Collected: 10/13/15 18:45
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 15:16	DJK	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-53D — Lab Sample ID: 680-117892-33

Date Collected: 10/14/15 16:50
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 15:38	DJK	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-54D — Lab Sample ID: 680-117892-34

Date Collected: 10/14/15 15:49
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 16:00	DJK	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-55D — Lab Sample ID: 680-117892-35

Date Collected: 10/14/15 16:52
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	407013	10/23/15 11:14	CEJ	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-56D — Lab Sample ID: 680-117892-36

Date Collected: 10/14/15 13:04
Date Received: 10/15/15 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 16:21	DJK	TAL SAV
	Instrument ID: CMSP2									

Lab Chronicle

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: PAW-3
Date Collected: 10/12/15 18:25
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 16:43	DJK	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: PAW-4
Date Collected: 10/12/15 17:37
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 17:04	DJK	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: RW-1
Date Collected: 10/13/15 09:27
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-39
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 17:26	DJK	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: RW-4
Date Collected: 10/13/15 10:29
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-40
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 17:47	DJK	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-U2
Date Collected: 10/14/15 10:41
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-41
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406824	10/22/15 12:59	DJK	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: Trip Blank
Date Collected: 10/12/15 08:00
Date Received: 10/15/15 09:45

Lab Sample ID: 680-117892-42
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406835	10/22/15 12:40	DJK	TAL SAV
	Instrument ID: CMSAC									

Lab Chronicle

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Client Sample ID: Trip Blank

Lab Sample ID: 680-117892-43

Date Collected: 10/12/15 08:00
Matrix: Water
Date Received: 10/15/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	406826	10/22/15 12:25	DJK	TAL SAV
	Instrument ID: CMSP2									

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 101131

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: MTC - Savannah	PROJECT NO: 460009	PROJECT LOCATION (STATE): GA
TAL (LAB) PROJECT MANAGER: Sheila Hoffman	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Alan Sanders	CLIENT PHONE: ~~770~~ - 772-7100	CLIENT FAX:
CLIENT NAME: EIC	CLIENT E-MAIL: asanders@eicusa.com	
CLIENT ADDRESS: 161 Kimball Bridge Rd Alpharetta, GA 30009		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 1 OF 4

STANDARD REPORT DELIVERY ●
DATE DUE Oct 29th

EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

REQUIRED ANALYSIS: 8260B (HCl); PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	8260B (HCl)	REMARKS
10/13/15	15:25	G-17	G	✓				3	
10/14/15	11:43	G-19	G	✓				3	
10/14/15	10:15	G-22	G	✓				1	
10/12/15	16:39	MW-2D	G	✓				3	
10/12/15	13:24	MW-2S	G	✓				3	
10/13/15	10:46	MW-4S	G	✓				3	
10/12/15	11:33	MW-11D	G	✓				3	
10/14/15	12:49	MW-14D	G	✓				3	
10/13/15	15:12	MW-15S	G	✓				3	
10/13/15	16:29	MW-26	G	✓				3	
10/12/15	12:40	MW-29	G	✓				3	
10/14/15	11:55	MW-31	G	✓				3	

680-117892 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	10/15/15	9:45						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	10/15/15	9:45	YES ○ NO ○			35.12 / 5.66 C

TAL8240-680 (1008)

Page 89 of 94

10/27/2015

Serial Number 101130

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: MTL-Savannah	PROJECT NO.: 460009	PROJECT LOCATION (STATE): GA	PAGE 2 OF 4
TAL (LAB) PROJECT MANAGER: Sheila Hoffman	P.O. NUMBER: —	CONTRACT NO.: —	STANDARD REPORT DELIVERY ● DATE DUE Oct 29th
CLIENT (SITE) PM: alan Sanders	CLIENT PHONE: 770-772-7100	CLIENT FAX: —	EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE
CLIENT NAME: EIC	CLIENT E-MAIL: asanders@eicusa.com		NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2
CLIENT ADDRESS: 161 Kimball Bridge Rd			
COMPANY CONTRACTING THIS WORK (if applicable)			

REQUIRED ANALYSIS: HCl 8260B; PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED (HCl 8260B)	REMARKS
10/14/15	9:42	MW-32	G	✓				3	
10/13/15	16:16	MW-33	G	✓				3	
10/13/15	17:20	MW-35	G	✓				3	
10/13/15	9:55	MW-36	G	✓				3	
10/13/15	12:59	MW-37S	G	✓				3	
10/13/15	12:09	MW-38D	G	✓				3	
10/13/15	18:04	MW-39D	G	✓				3	
10/13/15	17:15	MW-40S	G	✓				3	
10/12/15	11:50	MW-41D	G	✓				3	
10/12/15	18:36	MW-42S	G	✓				3	
10/12/15	16:31	MW-43D	G	✓				3	
10/12/15	12:50	MW-44D	G	✓				3	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	10/15/15	9:45						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY. (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	10/15/15	9:45	YES ○ NO ○			3842/5.6 6.0

TAL8240-680 (1008)

Serial Number 101129

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: MTL- Savannah	PROJECT NO: 460009	PROJECT LOCATION (STATE): GA	PAGE 3 OF 4
TAL (LAB) PROJECT MANAGER: Sherla Hoffman	P.O. NUMBER: —	CONTRACT NO.: —	
CLIENT (SITE) PM: Alan Sanders	CLIENT PHONE: 770-772-7100	CLIENT FAX: —	
CLIENT NAME: EIC	CLIENT E-MAIL: asanders@eicusa.com		
CLIENT ADDRESS: 161 Kimball Bridge Rd Alpharetta GA 30009			
COMPANY CONTRACTING THIS WORK (if applicable):			

STANDARD REPORT DELIVERY ● DATE DUE Oct 29th

EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

REQUIRED ANALYSIS: HCl 8260B — PRESERVATIVE

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID	NUMBER OF CONTAINERS SUBMITTED (HCl 8260B)	REMARKS
10/12/15	13:34	MW-45S	G	✓				3	
10/12/15	12:28	MW-46S	G	✓				3	
10/12/15	11:13	MW-47D	G	✓				3	
10/12/15	11:47	MW-48S	G	✓				3	
10/14/15	15:38	MW-49D	G	✓				3	
10/14/15	11:51	MW-50S	G	✓				~~3~~ 2	
10/14/15	17:58	MW-51D	G	✓				3	
10/13/15	18:45	MW-52D	G	✓				3	
10/14/15	16:50	MW-53D	G	✓				3	
10/14/15	15:49	MW-54D	G	✓				3	
10/14/15	16:52	MW-55D	G	✓				3	
10/14/15	13:04	MW-56D	G	✓				3	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	10/15/15	9:45						

RECEIVED BY (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	10/15/15	9:45	YES ○ NO ○			3.8 4.2 / 5.6 6.0

TAL8240-680 (1008)

Page 91 of 94

10/27/2015

Serial Number 101128

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone.
Fax:

PROJECT REFERENCE: MTC - Savannah	PROJECT NO.: 460009	PROJECT LOCATION (STATE): GA
TAL (LAB) PROJECT MANAGER: Sheila Hoffman	P.O. NUMBER: —	CONTRACT NO.: —
CLIENT (SITE) PM: Alan Sanders	CLIENT PHONE: 770-772-7100	CLIENT FAX: —
CLIENT NAME: EIC	CLIENT E-MAIL: asanders@eicusa.com	
CLIENT ADDRESS: 161 Kimball Bridge Rd Alpharetta GA 30009		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 4 OF 4

STANDARD REPORT DELIVERY ●
DATE DUE: oct 29th

EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE: _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

REQUIRED ANALYSIS: 8260B

PRESERVATIVE: HCl

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
10/12/15	18:25	PAW-3	G	✓				3	
10/12/15	17:37	PAW-4	G	✓				3	
10/13/15	9:27	RW-1	G	✓				3	
10/13/15	10:29	RW-4	G	✓				3	
10/14/15	10:41	MW-02	G	✓				3	
10/12/15	8:00	Trip Blank	G	✓				2	
10/12/15	8:00	Trip Blank	G	✓				2	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	10/15/15	9:45						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	10/15/15	9:45	YES ○ NO ○			3.8 4.2 / 5.6 6.0

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: McKenzie Tank Lines, Inc

Job Number: 680-117892-1

Login Number: 117892
List Number: 1
Creator: Banda, Christy S

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Savannah/460009

TestAmerica Job ID: 680-117892-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-16
Arkansas DEQ	State Program	6	88-0692	01-31-16
California	State Program	9	2939	07-31-16
Colorado	State Program	8	N/A	12-31-15
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-16
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	803	06-30-16
Guam	State Program	9	14-004r	04-16-16
Hawaii	State Program	9	N/A	06-30-16
Illinois	NELAP	5	200022	11-30-15
Indiana	State Program	5	N/A	06-30-16
Iowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-15
Kentucky (UST)	State Program	4	18	06-30-16
Kentucky (WW)	State Program	4	90084	12-31-15
Louisiana	NELAP	6	30690	06-30-16
Louisiana (DW)	NELAP	6	LA150014	12-31-15
Maine	State Program	1	GA00006	09-24-16
Maryland	State Program	3	250	12-31-15
Massachusetts	State Program	1	M-GA006	06-30-16
Michigan	State Program	5	9925	03-05-16
Mississippi	State Program	4	N/A	06-30-15 *
Montana	State Program	8	CERT0081	12-31-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-16
New Jersey	NELAP	2	GA769	10-30-16 *
New Mexico	State Program	6	N/A	06-30-16
New York	NELAP	2	10842	03-31-16
North Carolina (DW)	State Program	4	13701	07-31-16
North Carolina (WW/SW)	State Program	4	269	12-31-15
Oklahoma	State Program	6	9984	08-31-16
Pennsylvania	NELAP	3	68-00474	06-30-16
Puerto Rico	State Program	2	GA00006	12-31-15
South Carolina	State Program	4	98001	06-30-15 *
Tennessee	State Program	4	TN02961	06-30-16
Texas	NELAP	6	T104704185-14-7	11-30-15
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-16
Washington	State Program	10	C805	06-10-16
West Virginia (DW)	State Program	3	9950C	12-31-15
West Virginia DEP	State Program	3	094	06-30-16
Wisconsin	State Program	5	999819810	08-31-16
Wyoming	State Program	8	8TMS-L	06-30-16

* Certification renewal pending - certification considered valid.

HSI SITE 10406, FORMER MCKENZIE TANK LINES SITE

FOURTH SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT 4-1 LABORATORY ANALYTICAL RESULS FOR SOIL DELINEATION SAMPLES, OCTOBER 2015, NOVEMBER 2015, & JANUARY 2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-118108-1
Client Project/Site: MTL - Port Wentworth/460009

For:
McKenzie Tank Lines, Inc
PO BOX 1200
Tallahassee, Florida 32302

Attn: Mr. Thomas F Panebianco

Authorized for release by:
10/30/2015 12:01:14 PM

Sheila Hoffman, Project Manager II
(912)354-7858 e.3004
sheila.hoffman@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Method Summary 3
Sample Summary 4
Case Narrative 5
Definitions/Glossary 7
Detection Summary 8
Client Sample Results 10
QC Sample Results 25
QC Association Summary 44
Lab Chronicle 46
Chain of Custody 51
Receipt Checklists 53
Certification Summary 54

Method Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-118108-1	AOC3-SB-E-SE (3.0-3.5)	Solid	10/20/15 09:15	10/22/15 08:15
680-118108-2	AOC3-SB-E-SE (4.5-4.0)	Solid	10/20/15 09:24	10/22/15 08:15
680-118108-4	AOC3-SB-E-SN (3.5-4.0)	Solid	10/20/15 10:20	10/22/15 08:15
680-118108-5	AOC3-SB-E-SS (3.0-3.5)	Solid	10/20/15 10:45	10/22/15 08:15
680-118108-6	AOC4-SB-C-SN (3.0-4.0)	Solid	10/20/15 12:00	10/22/15 08:15
680-118108-7	AOC4-SB-C-SS (4.5-5.0)	Solid	10/20/15 13:55	10/22/15 08:15
680-118108-8	AOC4-SB-C-SW- (4.5-5.0)	Solid	10/20/15 14:22	10/22/15 08:15
680-118108-9	AOC4-SB-BLD-NW-SE (3.0-3.5)	Solid	10/20/15 15:00	10/22/15 08:15
680-118108-10	AOC4-SB-BLD-NW-SE (4.5-5.0)	Solid	10/20/15 15:32	10/22/15 08:15
680-118108-11	AOC4-SB-BLD-NW-10E (3.0-3.5)	Solid	10/21/15 12:12	10/22/15 08:15
680-118108-12	AOC4-SB-BLD-NW-10E (4.5-5.0)	Solid	10/21/15 12:39	10/22/15 08:15
680-118108-13	Trip Blank	Water	10/21/15 00:00	10/22/15 08:15

Job ID: 680-118108-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: McKenzie Tank Lines, Inc

Project: MTL - Port Wentworth/460009

Report Number: 680-118108-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT
The samples were received on 10/22/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.2 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples AOC3-SB-E-SE (3.0-3.5) (680-118108-1), AOC3-SB-E-SE (4.5-4.0) (680-118108-2), AOC3-SB-E-SN (3.5-4.0) (680-118108-4), AOC3-SB-E-SS (3.0-3.5) (680-118108-5), AOC4-SB-C-SN (3.0-4.0) (680-118108-6), AOC4-SB-C-SS (4.5-5.0) (680-118108-7), AOC4-SB-C-SW- (4.5-5.0) (680-118108-8), AOC4-SB-BLD-NW-SE (3.0-3.5) (680-118108-9), AOC4-SB-BLD-NW-SE (4.5-5.0) (680-118108-10), AOC4-SB-BLD-NW-10E (3.0-3.5) (680-118108-11) and AOC4-SB-BLD-NW-10E (4.5-5.0) (680-118108-12) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 10/22/2015 and analyzed on 10/24/2015, 10/27/2015 and 10/28/2015.

1,2,4-Trichlorobenzene, 1,2-Dibromo-3-Chloropropane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene and 2-Hexanone exceeded the RPD limit for LCSD 680-407245/4. Results have been reported and qualified.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Sample Trip Blank (680-118108-13) was analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/28/2015.

Bromomethane failed the recovery criteria high for LCSD 680-407732/5. This is not indicative of a systematic control problem because this was a random marginal exceedances. Qualified results have been reported.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS/MOISTURE
Samples AOC3-SB-E-SE (3.0-3.5) (680-118108-1), AOC3-SB-E-SE (4.5-4.0) (680-118108-2), AOC3-SB-E-SN (3.5-4.0) (680-118108-4), AOC3-SB-E-SS (3.0-3.5) (680-118108-5), AOC4-SB-C-SN (3.0-4.0) (680-118108-6), AOC4-SB-C-SS (4.5-5.0) (680-118108-7), AOC4-SB-C-SW- (4.5-5.0) (680-118108-8), AOC4-SB-BLD-NW-SE (3.0-3.5) (680-118108-9), AOC4-SB-BLD-NW-SE (4.5-5.0) (680-118108-10), AOC4-SB-BLD-NW-10E (3.0-3.5) (680-118108-11) and AOC4-SB-BLD-NW-10E (4.5-5.0) (680-118108-12) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 10/22/2015.

Job ID: 680-118108-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC3-SB-E-SE (3.0-3.5) — Lab Sample ID: 680-118108-1

No Detections.

Client Sample ID: AOC3-SB-E-SE (4.5-4.0) — Lab Sample ID: 680-118108-2

No Detections.

Client Sample ID: AOC3-SB-E-SN (3.5-4.0) — Lab Sample ID: 680-118108-4

No Detections.

Client Sample ID: AOC3-SB-E-SS (3.0-3.5) — Lab Sample ID: 680-118108-5

No Detections.

Client Sample ID: AOC4-SB-C-SN (3.0-4.0) — Lab Sample ID: 680-118108-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	50	J	62	14	ug/Kg	1	☼	8260B	Total/NA
2-Butanone	11	J	31	3.0	ug/Kg	1	☼	8260B	Total/NA
cis-1,2-Dichloroethene	16		6.2	1.7	ug/Kg	1	☼	8260B	Total/NA
Vinyl chloride	2.5	J	6.2	1.9	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: AOC4-SB-C-SS (4.5-5.0) — Lab Sample ID: 680-118108-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	22	J	52	11	ug/Kg	1	☼	8260B	Total/NA
cis-1,2-Dichloroethene	9.0		5.2	1.4	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: AOC4-SB-C-SW- (4.5-5.0) — Lab Sample ID: 680-118108-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15	J	45	9.9	ug/Kg	1	☼	8260B	Total/NA
cis-1,2-Dichloroethene	2.0	J	4.5	1.3	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: AOC4-SB-BLD-NW-SE (3.0-3.5) — Lab Sample ID: 680-118108-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	33000		1100	300	ug/Kg	200	☼	8260B	Total/NA
trans-1,2-Dichloroethene	160	J	1100	130	ug/Kg	200	☼	8260B	Total/NA
Methylcyclohexane	690	J	1100	180	ug/Kg	200	☼	8260B	Total/NA

Client Sample ID: AOC4-SB-BLD-NW-SE (4.5-5.0) — Lab Sample ID: 680-118108-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	470000	J	500000	140000	ug/Kg	100000	☼	8260B	Total/NA
Tetrachloroethene	11000000		500000	190000	ug/Kg	100000	☼	8260B	Total/NA
Toluene	130000	J	500000	84000	ug/Kg	100000	☼	8260B	Total/NA
Trichloroethene	150000	J	500000	130000	ug/Kg	100000	☼	8260B	Total/NA

Client Sample ID: AOC4-SB-BLD-NW-10E (3.0-3.5) — Lab Sample ID: 680-118108-11

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC4-SB-BLD-NW-10E (3.0-3.5) (Continued) — Lab Sample ID: 680-118108-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.7	J	5.2	1.5	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: AOC4-SB-BLD-NW-10E (4.5-5.0) — Lab Sample ID: 680-118108-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.4	J	5.5	1.2	ug/Kg	1	☼	8260B	Total/NA
1,1-Dichloroethane	1.2	J	5.5	1.2	ug/Kg	1	☼	8260B	Total/NA
cis-1,2-Dichloroethene	64		5.5	1.5	ug/Kg	1	☼	8260B	Total/NA
trans-1,2-Dichloroethene	2.4	J	5.5	0.70	ug/Kg	1	☼	8260B	Total/NA
Vinyl chloride	33		5.5	1.7	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 680-118108-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC3-SB-E-SE (3.0-3.5)

Date Collected: 10/20/15 09:15
Date Received: 10/22/15 08:15

Lab Sample ID: 680-118108-1

Matrix: Solid
Percent Solids: 81.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<11		51	11	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Benzene	<0.74		5.1	0.74	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Bromodichloromethane	<0.98		5.1	0.98	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Bromoform	<1.5		5.1	1.5	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Bromomethane	<1.5		5.1	1.5	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
2-Butanone	<2.4		25	2.4	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Carbon disulfide	<1.1		5.1	1.1	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Carbon tetrachloride	<0.84		5.1	0.84	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Chlorobenzene	<0.97		5.1	0.97	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Chloroethane	<2.7		5.1	2.7	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Chloroform	<1.1		5.1	1.1	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Chloromethane	<1.0		5.1	1.0	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Dibromochloromethane	<1.7		5.1	1.7	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
1,2-Dibromo-3-Chloropropane	<4.5	*	10	4.5	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
1,2-Dibromoethane	<1.5		5.1	1.5	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
1,2-Dichlorobenzene	<1.3	*	5.1	1.3	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
1,3-Dichlorobenzene	<1.6	*	5.1	1.6	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
1,4-Dichlorobenzene	<0.75	*	5.1	0.75	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Dichlorodifluoromethane	<0.95		5.1	0.95	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
1,1-Dichloroethane	<1.1		5.1	1.1	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
1,2-Dichloroethane	<1.1		5.1	1.1	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
cis-1,2-Dichloroethene	<1.4		5.1	1.4	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
trans-1,2-Dichloroethene	<0.64		5.1	0.64	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
1,1-Dichloroethene	<1.5		5.1	1.5	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
1,2-Dichloropropane	<0.87		5.1	0.87	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
cis-1,3-Dichloropropene	<0.84		5.1	0.84	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
trans-1,3-Dichloropropene	<0.88		5.1	0.88	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Ethylbenzene	<1.3		5.1	1.3	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
2-Hexanone	<3.3	*	25	3.3	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Isopropylbenzene	<1.9		5.1	1.9	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Methylene Chloride	<0.99		5.1	0.99	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
4-Methyl-2-pentanone	<4.3		25	4.3	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Methyl tert-butyl ether	<1.0		5.1	1.0	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Styrene	<0.94		5.1	0.94	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
1,1,2,2-Tetrachloroethane	<1.6		5.1	1.6	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Tetrachloroethene	<1.9		5.1	1.9	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Toluene	<0.85		5.1	0.85	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
1,2,4-Trichlorobenzene	<0.90	*	5.1	0.90	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
1,1,1-Trichloroethane	<0.60		5.1	0.60	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
1,1,2-Trichloroethane	<1.3		5.1	1.3	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Trichloroethene	<1.3		5.1	1.3	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Trichlorofluoromethane	<1.2		5.1	1.2	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.1	1.3	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Vinyl chloride	<1.5		5.1	1.5	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Xylenes, Total	<1.1		10	1.1	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Cyclohexane	<1.3		5.1	1.3	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Methyl acetate	<5.1		25	5.1	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1
Methylcyclohexane	<0.87		5.1	0.87	ug/Kg	☼	10/22/15 14:19	10/24/15 15:25	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC3-SB-E-SE (3.0-3.5)

Lab Sample ID: 680-118108-1
Date Collected: 10/20/15 09:15
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 81.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*	*10/22/15 14:19*	*10/24/15 15:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*72*		*70 - 130*	*10/22/15 14:19*	*10/24/15 15:25*	*1*
Dibromofluoromethane (Surr)	*86*		*70 - 130*	*10/22/15 14:19*	*10/24/15 15:25*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*10/22/15 14:19*	*10/24/15 15:25*	*1*

Client Sample ID: AOC3-SB-E-SE (4.5-4.0)

Lab Sample ID: 680-118108-2
Date Collected: 10/20/15 09:24
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<9.4		43	9.4	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Benzene	<0.62		4.3	0.62	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Bromodichloromethane	<0.83		4.3	0.83	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Bromoform	<1.3		4.3	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Bromomethane	<1.3		4.3	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
2-Butanone	<2.1		21	2.1	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Carbon disulfide	<0.94		4.3	0.94	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Carbon tetrachloride	<0.71		4.3	0.71	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Chlorobenzene	<0.82		4.3	0.82	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Chloroethane	<2.3		4.3	2.3	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Chloroform	<0.94		4.3	0.94	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Chloromethane	<0.85		4.3	0.85	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Dibromochloromethane	<1.5		4.3	1.5	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
1,2-Dibromo-3-Chloropropane	<3.8		8.5	3.8	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
1,2-Dibromoethane	<1.3		4.3	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
1,2-Dichlorobenzene	<1.1		4.3	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
1,3-Dichlorobenzene	<1.4		4.3	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
1,4-Dichlorobenzene	<0.63		4.3	0.63	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Dichlorodifluoromethane	<0.80		4.3	0.80	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
1,1-Dichloroethane	<0.94		4.3	0.94	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
1,2-Dichloroethane	<0.94		4.3	0.94	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
cis-1,2-Dichloroethene	<1.2		4.3	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
trans-1,2-Dichloroethene	<0.54		4.3	0.54	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
1,1-Dichloroethene	<1.3		4.3	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
1,2-Dichloropropane	<0.74		4.3	0.74	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
cis-1,3-Dichloropropene	<0.71		4.3	0.71	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
trans-1,3-Dichloropropene	<0.74		4.3	0.74	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Ethylbenzene	<1.1		4.3	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
2-Hexanone	<2.8		21	2.8	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Isopropylbenzene	<1.6		4.3	1.6	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Methylene Chloride	<0.84		4.3	0.84	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
4-Methyl-2-pentanone	<3.6		21	3.6	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Methyl tert-butyl ether	<0.85		4.3	0.85	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Styrene	<0.79		4.3	0.79	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
1,1,2,2-Tetrachloroethane	<1.4		4.3	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Tetrachloroethene	<1.6		4.3	1.6	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Toluene	<0.72		4.3	0.72	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
1,2,4-Trichlorobenzene	<0.76		4.3	0.76	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
1,1,1-Trichloroethane	<0.50		4.3	0.50	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC3-SB-E-SE (4.5-4.0)

Lab Sample ID: 680-118108-2
Date Collected: 10/20/15 09:24
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<1.1		4.3	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Trichloroethene	<1.1		4.3	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Trichlorofluoromethane	<1.0		4.3	1.0	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.1		4.3	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Vinyl chloride	<1.3		4.3	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Xylenes, Total	<0.94		8.5	0.94	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Cyclohexane	<1.1		4.3	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Methyl acetate	<4.3		21	4.3	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1
Methylcyclohexane	<0.74		4.3	0.74	ug/Kg	☼	10/22/15 14:19	10/27/15 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*	*10/22/15 14:19*	*10/27/15 20:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*	*10/22/15 14:19*	*10/27/15 20:54*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*	*10/22/15 14:19*	*10/27/15 20:54*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*10/22/15 14:19*	*10/27/15 20:54*	*1*

Client Sample ID: AOC3-SB-E-SN (3.5-4.0)

Lab Sample ID: 680-118108-4
Date Collected: 10/20/15 10:20
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 78.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<9.8		44	9.8	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Benzene	<0.65		4.4	0.65	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Bromodichloromethane	<0.86		4.4	0.86	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Bromoform	<1.3		4.4	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Bromomethane	<1.3		4.4	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
2-Butanone	<2.1		22	2.1	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Carbon disulfide	<0.98		4.4	0.98	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Carbon tetrachloride	<0.74		4.4	0.74	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Chlorobenzene	<0.85		4.4	0.85	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Chloroethane	<2.4		4.4	2.4	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Chloroform	<0.98		4.4	0.98	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Chloromethane	<0.89		4.4	0.89	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Dibromochloromethane	<1.5		4.4	1.5	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
1,2-Dibromo-3-Chloropropane	<3.9		8.9	3.9	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
1,2-Dibromoethane	<1.3		4.4	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
1,2-Dichlorobenzene	<1.2		4.4	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
1,3-Dichlorobenzene	<1.4		4.4	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
1,4-Dichlorobenzene	<0.66		4.4	0.66	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Dichlorodifluoromethane	<0.83		4.4	0.83	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
1,1-Dichloroethane	<0.98		4.4	0.98	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
1,2-Dichloroethane	<0.98		4.4	0.98	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
cis-1,2-Dichloroethene	<1.2		4.4	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
trans-1,2-Dichloroethene	<0.56		4.4	0.56	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
1,1-Dichloroethene	<1.3		4.4	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
1,2-Dichloropropane	<0.76		4.4	0.76	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
cis-1,3-Dichloropropene	<0.74		4.4	0.74	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
trans-1,3-Dichloropropene	<0.77		4.4	0.77	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Ethylbenzene	<1.2		4.4	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1

Client Sample ID: AOC3-SB-E-SN (3.5-4.0)

Lab Sample ID: 680-118108-4
Date Collected: 10/20/15 10:20
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 78.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<2.9		22	2.9	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Isopropylbenzene	<1.7		4.4	1.7	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Methylene Chloride	<0.87		4.4	0.87	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
4-Methyl-2-pentanone	<3.7		22	3.7	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Methyl tert-butyl ether	<0.89		4.4	0.89	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Styrene	<0.82		4.4	0.82	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
1,1,2,2-Tetrachloroethane	<1.4		4.4	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Tetrachloroethene	<1.7		4.4	1.7	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Toluene	<0.74		4.4	0.74	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
1,2,4-Trichlorobenzene	<0.79		4.4	0.79	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
1,1,1-Trichloroethane	<0.52		4.4	0.52	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
1,1,2-Trichloroethane	<1.2		4.4	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Trichloroethene	<1.2		4.4	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Trichlorofluoromethane	<1.1		4.4	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.2		4.4	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Vinyl chloride	<1.3		4.4	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Xylenes, Total	<0.98		8.9	0.98	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Cyclohexane	<1.2		4.4	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Methyl acetate	<4.4		22	4.4	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1
Methylcyclohexane	<0.76		4.4	0.76	ug/Kg	☼	10/22/15 14:19	10/27/15 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*	*10/22/15 14:19*	*10/27/15 21:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*	*10/22/15 14:19*	*10/27/15 21:15*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*	*10/22/15 14:19*	*10/27/15 21:15*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*10/22/15 14:19*	*10/27/15 21:15*	*1*

Client Sample ID: AOC3-SB-E-SS (3.0-3.5)

Lab Sample ID: 680-118108-5
Date Collected: 10/20/15 10:45
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<12		53	12	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Benzene	<0.78		5.3	0.78	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Bromodichloromethane	<1.0		5.3	1.0	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Bromoform	<1.6		5.3	1.6	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Bromomethane	<1.6		5.3	1.6	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
2-Butanone	<2.6		27	2.6	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Carbon disulfide	<1.2		5.3	1.2	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Carbon tetrachloride	<0.88		5.3	0.88	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Chlorobenzene	<1.0		5.3	1.0	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Chloroethane	<2.9		5.3	2.9	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Chloroform	<1.2		5.3	1.2	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Chloromethane	<1.1		5.3	1.1	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Dibromochloromethane	<1.8		5.3	1.8	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
1,2-Dibromo-3-Chloropropane	<4.7	*	11	4.7	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
1,2-Dibromoethane	<1.6		5.3	1.6	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
1,2-Dichlorobenzene	<1.4	*	5.3	1.4	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
1,3-Dichlorobenzene	<1.7	*	5.3	1.7	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC3-SB-E-SS (3.0-3.5)

Lab Sample ID: 680-118108-5
Date Collected: 10/20/15 10:45
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.79	*	5.3	0.79	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Dichlorodifluoromethane	<1.0		5.3	1.0	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
1,1-Dichloroethane	<1.2		5.3	1.2	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
1,2-Dichloroethane	<1.2		5.3	1.2	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
cis-1,2-Dichloroethene	<1.5		5.3	1.5	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
trans-1,2-Dichloroethene	<0.67		5.3	0.67	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
1,1-Dichloroethene	<1.6		5.3	1.6	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
1,2-Dichloropropane	<0.92		5.3	0.92	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
cis-1,3-Dichloropropene	<0.88		5.3	0.88	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
trans-1,3-Dichloropropene	<0.93		5.3	0.93	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Ethylbenzene	<1.4		5.3	1.4	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
2-Hexanone	<3.5	*	27	3.5	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Isopropylbenzene	<2.0		5.3	2.0	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Methylene Chloride	<1.0		5.3	1.0	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
4-Methyl-2-pentanone	<4.5		27	4.5	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Methyl tert-butyl ether	<1.1		5.3	1.1	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Styrene	<0.99		5.3	0.99	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
1,1,2,2-Tetrachloroethane	<1.7		5.3	1.7	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Tetrachloroethene	<2.0		5.3	2.0	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Toluene	<0.89		5.3	0.89	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
1,2,4-Trichlorobenzene	<0.95	*	5.3	0.95	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
1,1,1-Trichloroethane	<0.63		5.3	0.63	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
1,1,2-Trichloroethane	<1.4		5.3	1.4	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Trichloroethene	<1.4		5.3	1.4	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Trichlorofluoromethane	<1.3		5.3	1.3	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.4		5.3	1.4	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Vinyl chloride	<1.6		5.3	1.6	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Xylenes, Total	<1.2		11	1.2	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Cyclohexane	<1.4		5.3	1.4	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Methyl acetate	<5.3		27	5.3	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1
Methylcyclohexane	<0.92		5.3	0.92	ug/Kg	☼	10/22/15 14:19	10/24/15 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*	*10/22/15 14:19*	*10/24/15 16:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*75*		*70 - 130*	*10/22/15 14:19*	*10/24/15 16:49*	*1*
Dibromofluoromethane (Surr)	*84*		*70 - 130*	*10/22/15 14:19*	*10/24/15 16:49*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/22/15 14:19*	*10/24/15 16:49*	*1*

Client Sample ID: AOC4-SB-C-SN (3.0-4.0)

Lab Sample ID: 680-118108-6
Date Collected: 10/20/15 12:00
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**50**	**J**	62	14	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Benzene	<0.90		6.2	0.90	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Bromodichloromethane	<1.2		6.2	1.2	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Bromoform	<1.9		6.2	1.9	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Bromomethane	<1.9		6.2	1.9	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
2-Butanone	**11**	**J**	31	3.0	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC4-SB-C-SN (3.0-4.0)

Date Collected: 10/20/15 12:00
Date Received: 10/22/15 08:15

Lab Sample ID: 680-118108-6

Matrix: Solid
Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.4		6.2	1.4	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Carbon tetrachloride	<1.0		6.2	1.0	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Chlorobenzene	<1.2		6.2	1.2	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Chloroethane	<3.3		6.2	3.3	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Chloroform	<1.4		6.2	1.4	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Chloromethane	<1.2		6.2	1.2	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Dibromochloromethane	<2.1		6.2	2.1	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
1,2-Dibromo-3-Chloropropane	<5.4	*	12	5.4	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
1,2-Dibromoethane	<1.9		6.2	1.9	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
1,2-Dichlorobenzene	<1.6	*	6.2	1.6	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
1,3-Dichlorobenzene	<2.0	*	6.2	2.0	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
1,4-Dichlorobenzene	<0.92	*	6.2	0.92	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Dichlorodifluoromethane	<1.2		6.2	1.2	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
1,1-Dichloroethane	<1.4		6.2	1.4	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
1,2-Dichloroethane	<1.4		6.2	1.4	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
cis-1,2-Dichloroethene	**16**		6.2	1.7	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
trans-1,2-Dichloroethene	<0.78		6.2	0.78	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
1,1-Dichloroethene	<1.9		6.2	1.9	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
1,2-Dichloropropane	<1.1		6.2	1.1	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
cis-1,3-Dichloropropene	<1.0		6.2	1.0	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
trans-1,3-Dichloropropene	<1.1		6.2	1.1	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Ethylbenzene	<1.6		6.2	1.6	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
2-Hexanone	<4.1	*	31	4.1	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Isopropylbenzene	<2.4		6.2	2.4	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Methylene Chloride	<1.2		6.2	1.2	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
4-Methyl-2-pentanone	<5.2		31	5.2	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Methyl tert-butyl ether	<1.2		6.2	1.2	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Styrene	<1.2		6.2	1.2	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
1,1,2,2-Tetrachloroethane	<2.0		6.2	2.0	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Tetrachloroethene	<2.4		6.2	2.4	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Toluene	<1.0		6.2	1.0	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
1,2,4-Trichlorobenzene	<1.1	*	6.2	1.1	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
1,1,1-Trichloroethane	<0.73		6.2	0.73	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
1,1,2-Trichloroethane	<1.6		6.2	1.6	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Trichloroethene	<1.6		6.2	1.6	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Trichlorofluoromethane	<1.5		6.2	1.5	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.6		6.2	1.6	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Vinyl chloride	**2.5**	**J**	6.2	1.9	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Xylenes, Total	<1.4		12	1.4	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Cyclohexane	<1.6		6.2	1.6	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Methyl acetate	<6.2		31	6.2	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1
Methylcyclohexane	<1.1		6.2	1.1	ug/Kg	☼	10/22/15 14:19	10/24/15 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*	*10/22/15 14:19*	*10/24/15 17:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*71*		*70 - 130*	*10/22/15 14:19*	*10/24/15 17:10*	*1*
Dibromofluoromethane (Surr)	*83*		*70 - 130*	*10/22/15 14:19*	*10/24/15 17:10*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*10/22/15 14:19*	*10/24/15 17:10*	*1*

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC4-SB-C-SS (4.5-5.0)

Date Collected: 10/20/15 13:55
Date Received: 10/22/15 08:15

Lab Sample ID: 680-118108-7

Matrix: Solid
Percent Solids: 79.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**22**	**J**	52	11	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Benzene	<0.75		5.2	0.75	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Bromodichloromethane	<1.0		5.2	1.0	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Bromoform	<1.5		5.2	1.5	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Bromomethane	<1.5		5.2	1.5	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
2-Butanone	<2.5		26	2.5	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Carbon disulfide	<1.1		5.2	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Carbon tetrachloride	<0.86		5.2	0.86	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Chlorobenzene	<0.99		5.2	0.99	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Chloroethane	<2.8		5.2	2.8	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Chloroform	<1.1		5.2	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Chloromethane	<1.0		5.2	1.0	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Dibromochloromethane	<1.8		5.2	1.8	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
1,2-Dibromo-3-Chloropropane	<4.5		10	4.5	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
1,2-Dibromoethane	<1.5		5.2	1.5	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
1,2-Dichlorobenzene	<1.3		5.2	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
1,3-Dichlorobenzene	<1.7		5.2	1.7	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
1,4-Dichlorobenzene	<0.76		5.2	0.76	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Dichlorodifluoromethane	<0.97		5.2	0.97	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
1,1-Dichloroethane	<1.1		5.2	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
1,2-Dichloroethane	<1.1		5.2	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
cis-1,2-Dichloroethene	**9.0**		5.2	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
trans-1,2-Dichloroethene	<0.65		5.2	0.65	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
1,1-Dichloroethene	<1.5		5.2	1.5	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
1,2-Dichloropropane	<0.89		5.2	0.89	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
cis-1,3-Dichloropropene	<0.86		5.2	0.86	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
trans-1,3-Dichloropropene	<0.90		5.2	0.90	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Ethylbenzene	<1.3		5.2	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
2-Hexanone	<3.4		26	3.4	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Isopropylbenzene	<2.0		5.2	2.0	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Methylene Chloride	<1.0		5.2	1.0	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
4-Methyl-2-pentanone	<4.3		26	4.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Methyl tert-butyl ether	<1.0		5.2	1.0	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Styrene	<0.96		5.2	0.96	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
1,1,2,2-Tetrachloroethane	<1.7		5.2	1.7	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Tetrachloroethene	<2.0		5.2	2.0	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Toluene	<0.87		5.2	0.87	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
1,2,4-Trichlorobenzene	<0.92		5.2	0.92	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
1,1,1-Trichloroethane	<0.61		5.2	0.61	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
1,1,2-Trichloroethane	<1.3		5.2	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Trichloroethene	<1.3		5.2	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Trichlorofluoromethane	<1.2		5.2	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.2	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Vinyl chloride	<1.5		5.2	1.5	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Xylenes, Total	<1.1		10	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Cyclohexane	<1.3		5.2	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Methyl acetate	<5.2		26	5.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1
Methylcyclohexane	<0.89		5.2	0.89	ug/Kg	☼	10/22/15 14:19	10/27/15 21:36	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC4-SB-C-SS (4.5-5.0)

Lab Sample ID: 680-118108-7
Date Collected: 10/20/15 13:55
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 79.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*	*10/22/15 14:19*	*10/27/15 21:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*77*		*70 - 130*	*10/22/15 14:19*	*10/27/15 21:36*	*1*
Dibromofluoromethane (Surr)	*86*		*70 - 130*	*10/22/15 14:19*	*10/27/15 21:36*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*10/22/15 14:19*	*10/27/15 21:36*	*1*

Client Sample ID: AOC4-SB-C-SW- (4.5-5.0)

Lab Sample ID: 680-118108-8
Date Collected: 10/20/15 14:22
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**15**	**J**	45	9.9	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Benzene	<0.66		4.5	0.66	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Bromodichloromethane	<0.87		4.5	0.87	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Bromoform	<1.3		4.5	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Bromomethane	<1.3		4.5	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
2-Butanone	<2.2		22	2.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Carbon disulfide	<0.99		4.5	0.99	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Carbon tetrachloride	<0.75		4.5	0.75	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Chlorobenzene	<0.86		4.5	0.86	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Chloroethane	<2.4		4.5	2.4	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Chloroform	<0.99		4.5	0.99	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Chloromethane	<0.90		4.5	0.90	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Dibromochloromethane	<1.5		4.5	1.5	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
1,2-Dibromo-3-Chloropropane	<4.0		9.0	4.0	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
1,2-Dibromoethane	<1.3		4.5	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
1,2-Dichlorobenzene	<1.2		4.5	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
1,3-Dichlorobenzene	<1.4		4.5	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
1,4-Dichlorobenzene	<0.67		4.5	0.67	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Dichlorodifluoromethane	<0.85		4.5	0.85	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
1,1-Dichloroethane	<0.99		4.5	0.99	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
1,2-Dichloroethane	<0.99		4.5	0.99	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
cis-1,2-Dichloroethene	**2.0**	**J**	4.5	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
trans-1,2-Dichloroethene	<0.57		4.5	0.57	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
1,1-Dichloroethene	<1.3		4.5	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
1,2-Dichloropropane	<0.77		4.5	0.77	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
cis-1,3-Dichloropropene	<0.75		4.5	0.75	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
trans-1,3-Dichloropropene	<0.78		4.5	0.78	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Ethylbenzene	<1.2		4.5	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
2-Hexanone	<3.0		22	3.0	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Isopropylbenzene	<1.7		4.5	1.7	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Methylene Chloride	<0.88		4.5	0.88	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
4-Methyl-2-pentanone	<3.8		22	3.8	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Methyl tert-butyl ether	<0.90		4.5	0.90	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Styrene	<0.84		4.5	0.84	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
1,1,2,2-Tetrachloroethane	<1.4		4.5	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Tetrachloroethene	<1.7		4.5	1.7	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Toluene	<0.76		4.5	0.76	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
1,2,4-Trichlorobenzene	<0.80		4.5	0.80	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
1,1,1-Trichloroethane	<0.53		4.5	0.53	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC4-SB-C-SW- (4.5-5.0)

Lab Sample ID: 680-118108-8
Date Collected: 10/20/15 14:22
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<1.2		4.5	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Trichloroethene	<1.2		4.5	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Trichlorofluoromethane	<1.1		4.5	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.2		4.5	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Vinyl chloride	<1.3		4.5	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Xylenes, Total	<0.99		9.0	0.99	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Cyclohexane	<1.2		4.5	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Methyl acetate	<4.5		22	4.5	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1
Methylcyclohexane	<0.77		4.5	0.77	ug/Kg	☼	10/22/15 14:19	10/27/15 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*	*10/22/15 14:19*	*10/27/15 21:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*	*10/22/15 14:19*	*10/27/15 21:57*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*	*10/22/15 14:19*	*10/27/15 21:57*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*10/22/15 14:19*	*10/27/15 21:57*	*1*

Client Sample ID: AOC4-SB-BLD-NW-SE (3.0-3.5)

Lab Sample ID: 680-118108-9
Date Collected: 10/20/15 15:00
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 79.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<2300		11000	2300	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Benzene	<150		1100	150	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Bromodichloromethane	<210		1100	210	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Bromoform	<320		1100	320	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Bromomethane	<320		1100	320	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
2-Butanone	<510		5300	510	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Carbon disulfide	<230		1100	230	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Carbon tetrachloride	<180		1100	180	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Chlorobenzene	<200		1100	200	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Chloroethane	<570		1100	570	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Chloroform	<230		1100	230	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Chloromethane	<210		1100	210	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Dibromochloromethane	<360		1100	360	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
1,2-Dibromo-3-Chloropropane	<930		2100	930	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
1,2-Dibromoethane	<320		1100	320	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
1,2-Dichlorobenzene	<280		1100	280	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
1,3-Dichlorobenzene	<340		1100	340	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
1,4-Dichlorobenzene	<160		1100	160	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Dichlorodifluoromethane	<200		1100	200	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
1,1-Dichloroethane	<230		1100	230	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
1,2-Dichloroethane	<230		1100	230	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
cis-1,2-Dichloroethene	**33000**		1100	300	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
trans-1,2-Dichloroethene	**160**	**J**	1100	130	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
1,1-Dichloroethene	<320		1100	320	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
1,2-Dichloropropane	<180		1100	180	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
cis-1,3-Dichloropropene	<180		1100	180	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
trans-1,3-Dichloropropene	<180		1100	180	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Ethylbenzene	<280		1100	280	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200

Client Sample ID: AOC4-SB-BLD-NW-SE (3.0-3.5)

Lab Sample ID: 680-118108-9
Date Collected: 10/20/15 15:00
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 79.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<700		5300	700	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Isopropylbenzene	<400		1100	400	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Methylene Chloride	<210		1100	210	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
4-Methyl-2-pentanone	<890		5300	890	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Methyl tert-butyl ether	<210		1100	210	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Styrene	<200		1100	200	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
1,1,2,2-Tetrachloroethane	<340		1100	340	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Tetrachloroethene	<400		1100	400	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Toluene	<180		1100	180	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
1,2,4-Trichlorobenzene	<190		1100	190	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
1,1,1-Trichloroethane	<130		1100	130	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
1,1,2-Trichloroethane	<280		1100	280	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Trichloroethene	<280		1100	280	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Trichlorofluoromethane	<250		1100	250	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
1,1,2-Trichloro-1,2,2-trifluoroethane	<280		1100	280	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Vinyl chloride	<320		1100	320	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Xylenes, Total	<230		2100	230	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Cyclohexane	<280		1100	280	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Methyl acetate	<1100		5300	1100	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200
Methylcyclohexane	**690**	**J**	1100	180	ug/Kg	☼	10/22/15 14:19	10/27/15 23:00	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*70 - 130*	*10/22/15 14:19*	*10/27/15 23:00*	*200*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*10/22/15 14:19*	*10/27/15 23:00*	*200*
Dibromofluoromethane (Surr)	*93*		*70 - 130*	*10/22/15 14:19*	*10/27/15 23:00*	*200*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*10/22/15 14:19*	*10/27/15 23:00*	*200*

Client Sample ID: AOC4-SB-BLD-NW-SE (4.5-5.0)

Lab Sample ID: 680-118108-10
Date Collected: 10/20/15 15:32
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 81.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1100000		5000000	1100000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Benzene	<73000		500000	73000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Bromodichloromethane	<98000		500000	98000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Bromoform	<150000		500000	150000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Bromomethane	<150000		500000	150000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
2-Butanone	<240000		2500000	240000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Carbon disulfide	<110000		500000	110000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Carbon tetrachloride	<83000		500000	83000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Chlorobenzene	<97000		500000	97000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Chloroethane	<270000		500000	270000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Chloroform	<110000		500000	110000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Chloromethane	<100000		500000	100000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Dibromochloromethane	<170000		500000	170000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
1,2-Dibromo-3-Chloropropane	<440000		1000000	440000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
1,2-Dibromoethane	<150000		500000	150000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
1,2-Dichlorobenzene	<130000		500000	130000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
1,3-Dichlorobenzene	<160000		500000	160000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC4-SB-BLD-NW-SE (4.5-5.0)

Lab Sample ID: 680-118108-10

Date Collected: 10/20/15 15:32
Date Received: 10/22/15 08:15

Matrix: Solid
Percent Solids: 81.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<74000		500000	74000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Dichlorodifluoromethane	<94000		500000	94000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
1,1-Dichloroethane	<110000		500000	110000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
1,2-Dichloroethane	<110000		500000	110000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
cis-1,2-Dichloroethene	**470000**	**J**	500000	140000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
trans-1,2-Dichloroethene	<63000		500000	63000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
1,1-Dichloroethene	<150000		500000	150000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
1,2-Dichloropropane	<86000		500000	86000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
cis-1,3-Dichloropropene	<83000		500000	83000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
trans-1,3-Dichloropropene	<87000		500000	87000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Ethylbenzene	<130000		500000	130000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
2-Hexanone	<330000		2500000	330000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Isopropylbenzene	<190000		500000	190000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Methylene Chloride	<99000		500000	99000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
4-Methyl-2-pentanone	<420000		2500000	420000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Methyl tert-butyl ether	<100000		500000	100000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Styrene	<93000		500000	93000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
1,1,2,2-Tetrachloroethane	<160000		500000	160000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Tetrachloroethene	**11000000**		500000	190000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Toluene	**130000**	**J**	500000	84000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
1,2,4-Trichlorobenzene	<89000		500000	89000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
1,1,1-Trichloroethane	<59000		500000	59000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
1,1,2-Trichloroethane	<130000		500000	130000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Trichloroethene	**150000**	**J**	500000	130000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Trichlorofluoromethane	<120000		500000	120000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
1,1,2-Trichloro-1,2,2-trifluoroethane	<130000		500000	130000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Vinyl chloride	<150000		500000	150000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Xylenes, Total	<110000		1000000	110000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Cyclohexane	<130000		500000	130000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Methyl acetate	<500000		2500000	500000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000
Methylcyclohexane	<86000		500000	86000	ug/Kg	☼	10/22/15 14:19	10/28/15 15:28	100000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*70 - 130*	*10/22/15 14:19*	*10/28/15 15:28*	*100000*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*10/22/15 14:19*	*10/28/15 15:28*	*100000*
Dibromofluoromethane (Surr)	*94*		*70 - 130*	*10/22/15 14:19*	*10/28/15 15:28*	*100000*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*10/22/15 14:19*	*10/28/15 15:28*	*100000*

Client Sample ID: AOC4-SB-BLD-NW-10E (3.0-3.5)

Lab Sample ID: 680-118108-11

Date Collected: 10/21/15 12:12
Date Received: 10/22/15 08:15

Matrix: Solid
Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<11		52	11	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Benzene	<0.76		5.2	0.76	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Bromodichloromethane	<1.0		5.2	1.0	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Bromoform	<1.6		5.2	1.6	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Bromomethane	<1.6		5.2	1.6	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
2-Butanone	<2.5		26	2.5	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1

Client Sample ID: AOC4-SB-BLD-NW-10E (3.0-3.5)

Lab Sample ID: 680-118108-11

Date Collected: 10/21/15 12:12
Date Received: 10/22/15 08:15

Matrix: Solid
Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.1		5.2	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Carbon tetrachloride	<0.87		5.2	0.87	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Chlorobenzene	<1.0		5.2	1.0	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Chloroethane	<2.8		5.2	2.8	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Chloroform	<1.1		5.2	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Chloromethane	<1.0		5.2	1.0	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Dibromochloromethane	<1.8		5.2	1.8	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
1,2-Dibromo-3-Chloropropane	<4.6		10	4.6	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
1,2-Dibromoethane	<1.6		5.2	1.6	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
1,2-Dichlorobenzene	<1.4		5.2	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
1,3-Dichlorobenzene	<1.7		5.2	1.7	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
1,4-Dichlorobenzene	<0.77		5.2	0.77	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Dichlorodifluoromethane	<0.98		5.2	0.98	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
1,1-Dichloroethane	<1.1		5.2	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
1,2-Dichloroethane	<1.1		5.2	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
cis-1,2-Dichloroethene	**3.7**	**J**	5.2	1.5	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
trans-1,2-Dichloroethene	<0.66		5.2	0.66	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
1,1-Dichloroethene	<1.6		5.2	1.6	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
1,2-Dichloropropane	<0.90		5.2	0.90	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
cis-1,3-Dichloropropene	<0.87		5.2	0.87	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
trans-1,3-Dichloropropene	<0.91		5.2	0.91	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Ethylbenzene	<1.4		5.2	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
2-Hexanone	<3.4		26	3.4	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Isopropylbenzene	<2.0		5.2	2.0	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Methylene Chloride	<1.0		5.2	1.0	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
4-Methyl-2-pentanone	<4.4		26	4.4	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Methyl tert-butyl ether	<1.0		5.2	1.0	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Styrene	<0.97		5.2	0.97	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
1,1,2,2-Tetrachloroethane	<1.7		5.2	1.7	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Tetrachloroethene	<2.0		5.2	2.0	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Toluene	<0.88		5.2	0.88	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
1,2,4-Trichlorobenzene	<0.93		5.2	0.93	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
1,1,1-Trichloroethane	<0.62		5.2	0.62	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
1,1,2-Trichloroethane	<1.4		5.2	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Trichloroethene	<1.4		5.2	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Trichlorofluoromethane	<1.3		5.2	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.4		5.2	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Vinyl chloride	<1.6		5.2	1.6	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Xylenes, Total	<1.1		10	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Cyclohexane	<1.4		5.2	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Methyl acetate	<5.2		26	5.2	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1
Methylcyclohexane	<0.90		5.2	0.90	ug/Kg	☼	10/22/15 14:19	10/27/15 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*	*10/22/15 14:19*	*10/27/15 22:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*	*10/22/15 14:19*	*10/27/15 22:18*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*	*10/22/15 14:19*	*10/27/15 22:18*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*10/22/15 14:19*	*10/27/15 22:18*	*1*

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC4-SB-BLD-NW-10E (4.5-5.0)

Lab Sample ID: 680-118108-12

Date Collected: 10/21/15 12:39
Date Received: 10/22/15 08:15

Matrix: Solid
Percent Solids: 82.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<12		55	12	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Benzene	<0.81		5.5	0.81	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Bromodichloromethane	<1.1		5.5	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Bromoform	<1.7		5.5	1.7	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Bromomethane	<1.7		5.5	1.7	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
2-Butanone	<2.7		28	2.7	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Carbon disulfide	**1.4**	**J**	5.5	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Carbon tetrachloride	<0.92		5.5	0.92	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Chlorobenzene	<1.1		5.5	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Chloroethane	<3.0		5.5	3.0	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Chloroform	<1.2		5.5	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Chloromethane	<1.1		5.5	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Dibromochloromethane	<1.9		5.5	1.9	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
1,2-Dibromo-3-Chloropropane	<4.9		11	4.9	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
1,2-Dibromoethane	<1.7		5.5	1.7	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
1,2-Dichlorobenzene	<1.4		5.5	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
1,3-Dichlorobenzene	<1.8		5.5	1.8	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
1,4-Dichlorobenzene	<0.82		5.5	0.82	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Dichlorodifluoromethane	<1.0		5.5	1.0	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
1,1-Dichloroethane	**1.2**	**J**	5.5	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
1,2-Dichloroethane	<1.2		5.5	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
cis-1,2-Dichloroethene	**64**		5.5	1.5	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
trans-1,2-Dichloroethene	**2.4**	**J**	5.5	0.70	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
1,1-Dichloroethene	<1.7		5.5	1.7	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
1,2-Dichloropropane	<0.95		5.5	0.95	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
cis-1,3-Dichloropropene	<0.92		5.5	0.92	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
trans-1,3-Dichloropropene	<0.96		5.5	0.96	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Ethylbenzene	<1.4		5.5	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
2-Hexanone	<3.6		28	3.6	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Isopropylbenzene	<2.1		5.5	2.1	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Methylene Chloride	<1.1		5.5	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
4-Methyl-2-pentanone	<4.6		28	4.6	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Methyl tert-butyl ether	<1.1		5.5	1.1	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Styrene	<1.0		5.5	1.0	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
1,1,2,2-Tetrachloroethane	<1.8		5.5	1.8	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Tetrachloroethene	<2.1		5.5	2.1	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Toluene	<0.93		5.5	0.93	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
1,2,4-Trichlorobenzene	<0.98		5.5	0.98	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
1,1,1-Trichloroethane	<0.65		5.5	0.65	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
1,1,2-Trichloroethane	<1.4		5.5	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Trichloroethene	<1.4		5.5	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Trichlorofluoromethane	<1.3		5.5	1.3	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.4		5.5	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Vinyl chloride	**33**		5.5	1.7	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Xylenes, Total	<1.2		11	1.2	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Cyclohexane	<1.4		5.5	1.4	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Methyl acetate	<5.5		28	5.5	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1
Methylcyclohexane	<0.95		5.5	0.95	ug/Kg	☼	10/22/15 14:19	10/27/15 22:39	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC4-SB-BLD-NW-10E (4.5-5.0)

Lab Sample ID: 680-118108-12

Date Collected: 10/21/15 12:39
Date Received: 10/22/15 08:15

Matrix: Solid
Percent Solids: 82.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*	*10/22/15 14:19*	*10/27/15 22:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*10/22/15 14:19*	*10/27/15 22:39*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*	*10/22/15 14:19*	*10/27/15 22:39*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*10/22/15 14:19*	*10/27/15 22:39*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 680-118108-13

Date Collected: 10/21/15 00:00
Date Received: 10/22/15 08:15

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/28/15 10:32	1
Benzene	<0.43		1.0	0.43	ug/L			10/28/15 10:32	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/28/15 10:32	1
Bromoform	<0.43		1.0	0.43	ug/L			10/28/15 10:32	1
Bromomethane	<2.5	*	5.0	2.5	ug/L			10/28/15 10:32	1
2-Butanone	<3.4		10	3.4	ug/L			10/28/15 10:32	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/28/15 10:32	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/28/15 10:32	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/28/15 10:32	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/28/15 10:32	1
Chloroform	<0.50		1.0	0.50	ug/L			10/28/15 10:32	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/28/15 10:32	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/28/15 10:32	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/28/15 10:32	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/28/15 10:32	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/28/15 10:32	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/28/15 10:32	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/28/15 10:32	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/28/15 10:32	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/28/15 10:32	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/28/15 10:32	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/28/15 10:32	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/28/15 10:32	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/28/15 10:32	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/28/15 10:32	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/28/15 10:32	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/28/15 10:32	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/28/15 10:32	1
2-Hexanone	<2.0		10	2.0	ug/L			10/28/15 10:32	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/28/15 10:32	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/28/15 10:32	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/28/15 10:32	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/28/15 10:32	1
Styrene	<0.27		1.0	0.27	ug/L			10/28/15 10:32	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/28/15 10:32	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/28/15 10:32	1
Toluene	<0.48		1.0	0.48	ug/L			10/28/15 10:32	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/28/15 10:32	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/28/15 10:32	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: Trip Blank

Lab Sample ID: 680-118108-13

Date Collected: 10/21/15 00:00

Matrix: Water

Date Received: 10/22/15 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/28/15 10:32	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/28/15 10:32	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/28/15 10:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/28/15 10:32	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/28/15 10:32	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/28/15 10:32	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/28/15 10:32	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/28/15 10:32	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/28/15 10:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*70 - 130*		*10/28/15 10:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*10/28/15 10:32*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/28/15 10:32*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/28/15 10:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-407245/6
Matrix: Solid
Analysis Batch: 407245

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<11		50	11	ug/Kg			10/24/15 12:58	1
Benzene	<0.73		5.0	0.73	ug/Kg			10/24/15 12:58	1
Bromodichloromethane	<0.97		5.0	0.97	ug/Kg			10/24/15 12:58	1
Bromoform	<1.5		5.0	1.5	ug/Kg			10/24/15 12:58	1
Bromomethane	<1.5		5.0	1.5	ug/Kg			10/24/15 12:58	1
2-Butanone	<2.4		25	2.4	ug/Kg			10/24/15 12:58	1
Carbon disulfide	<1.1		5.0	1.1	ug/Kg			10/24/15 12:58	1
Carbon tetrachloride	<0.83		5.0	0.83	ug/Kg			10/24/15 12:58	1
Chlorobenzene	<0.96		5.0	0.96	ug/Kg			10/24/15 12:58	1
Chloroethane	<2.7		5.0	2.7	ug/Kg			10/24/15 12:58	1
Chloroform	<1.1		5.0	1.1	ug/Kg			10/24/15 12:58	1
Chloromethane	<1.0		5.0	1.0	ug/Kg			10/24/15 12:58	1
Dibromochloromethane	<1.7		5.0	1.7	ug/Kg			10/24/15 12:58	1
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/Kg			10/24/15 12:58	1
1,2-Dibromoethane	<1.5		5.0	1.5	ug/Kg			10/24/15 12:58	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/Kg			10/24/15 12:58	1
1,3-Dichlorobenzene	<1.6		5.0	1.6	ug/Kg			10/24/15 12:58	1
1,4-Dichlorobenzene	<0.74		5.0	0.74	ug/Kg			10/24/15 12:58	1
Dichlorodifluoromethane	<0.94		5.0	0.94	ug/Kg			10/24/15 12:58	1
1,1-Dichloroethane	<1.1		5.0	1.1	ug/Kg			10/24/15 12:58	1
1,2-Dichloroethane	<1.1		5.0	1.1	ug/Kg			10/24/15 12:58	1
cis-1,2-Dichloroethene	<1.4		5.0	1.4	ug/Kg			10/24/15 12:58	1
trans-1,2-Dichloroethene	<0.63		5.0	0.63	ug/Kg			10/24/15 12:58	1
1,1-Dichloroethene	<1.5		5.0	1.5	ug/Kg			10/24/15 12:58	1
1,2-Dichloropropane	<0.86		5.0	0.86	ug/Kg			10/24/15 12:58	1
cis-1,3-Dichloropropene	<0.83		5.0	0.83	ug/Kg			10/24/15 12:58	1
trans-1,3-Dichloropropene	<0.87		5.0	0.87	ug/Kg			10/24/15 12:58	1
Ethylbenzene	<1.3		5.0	1.3	ug/Kg			10/24/15 12:58	1
2-Hexanone	<3.3		25	3.3	ug/Kg			10/24/15 12:58	1
Isopropylbenzene	<1.9		5.0	1.9	ug/Kg			10/24/15 12:58	1
Methylene Chloride	<0.98		5.0	0.98	ug/Kg			10/24/15 12:58	1
4-Methyl-2-pentanone	<4.2		25	4.2	ug/Kg			10/24/15 12:58	1
Methyl tert-butyl ether	<1.0		5.0	1.0	ug/Kg			10/24/15 12:58	1
Styrene	<0.93		5.0	0.93	ug/Kg			10/24/15 12:58	1
1,1,2,2-Tetrachloroethane	<1.6		5.0	1.6	ug/Kg			10/24/15 12:58	1
Tetrachloroethene	<1.9		5.0	1.9	ug/Kg			10/24/15 12:58	1
Toluene	<0.84		5.0	0.84	ug/Kg			10/24/15 12:58	1
1,2,4-Trichlorobenzene	<0.89		5.0	0.89	ug/Kg			10/24/15 12:58	1
1,1,1-Trichloroethane	<0.59		5.0	0.59	ug/Kg			10/24/15 12:58	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/Kg			10/24/15 12:58	1
Trichloroethene	<1.3		5.0	1.3	ug/Kg			10/24/15 12:58	1
Trichlorofluoromethane	<1.2		5.0	1.2	ug/Kg			10/24/15 12:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.0	1.3	ug/Kg			10/24/15 12:58	1
Vinyl chloride	<1.5		5.0	1.5	ug/Kg			10/24/15 12:58	1
Xylenes, Total	<1.1		10	1.1	ug/Kg			10/24/15 12:58	1
Cyclohexane	<1.3		5.0	1.3	ug/Kg			10/24/15 12:58	1
Methyl acetate	<5.0		25	5.0	ug/Kg			10/24/15 12:58	1
Methylcyclohexane	<0.86		5.0	0.86	ug/Kg			10/24/15 12:58	1

QC Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		10/24/15 12:58	1
1,2-Dichloroethane-d4 (Surr)	74		70 - 130		10/24/15 12:58	1
Dibromofluoromethane (Surr)	85		70 - 130		10/24/15 12:58	1
4-Bromofluorobenzene (Surr)	92		70 - 130		10/24/15 12:58	1

Lab Sample ID: LCS 680-407245/3
Matrix: Solid
Analysis Batch: 407245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	194		ug/Kg		78	40 - 160
Benzene	50.0	50.1		ug/Kg		100	70 - 130
Bromodichloromethane	50.0	43.0		ug/Kg		86	70 - 130
Bromoform	50.0	45.7		ug/Kg		91	70 - 130
Bromomethane	50.0	52.2		ug/Kg		104	40 - 160
2-Butanone	250	229		ug/Kg		92	40 - 160
Carbon disulfide	50.0	50.6		ug/Kg		101	40 - 160
Carbon tetrachloride	50.0	44.7		ug/Kg		89	70 - 130
Chlorobenzene	50.0	52.0		ug/Kg		104	70 - 130
Chloroethane	50.0	52.3		ug/Kg		105	40 - 160
Chloroform	50.0	43.4		ug/Kg		87	70 - 130
Chloromethane	50.0	46.5		ug/Kg		93	40 - 160
Dibromochloromethane	50.0	45.5		ug/Kg		91	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	36.2		ug/Kg		72	40 - 160
1,2-Dibromoethane	50.0	45.7		ug/Kg		91	70 - 130
1,2-Dichlorobenzene	50.0	40.7		ug/Kg		81	70 - 130
1,3-Dichlorobenzene	50.0	42.3		ug/Kg		85	70 - 130
1,4-Dichlorobenzene	50.0	42.2		ug/Kg		84	70 - 130
Dichlorodifluoromethane	50.0	46.1		ug/Kg		92	40 - 160
1,1-Dichloroethane	50.0	50.5		ug/Kg		101	70 - 130
1,2-Dichloroethane	50.0	42.4		ug/Kg		85	70 - 130
cis-1,2-Dichloroethene	50.0	46.2		ug/Kg		92	70 - 130
trans-1,2-Dichloroethene	50.0	48.8		ug/Kg		98	70 - 130
1,1-Dichloroethene	50.0	55.0		ug/Kg		110	70 - 130
1,2-Dichloropropane	50.0	47.6		ug/Kg		95	70 - 130
cis-1,3-Dichloropropene	50.0	46.7		ug/Kg		93	70 - 130
trans-1,3-Dichloropropene	50.0	44.7		ug/Kg		89	70 - 130
Ethylbenzene	50.0	52.5		ug/Kg		105	70 - 130
2-Hexanone	250	187		ug/Kg		75	40 - 160
Isopropylbenzene	50.0	50.2		ug/Kg		100	70 - 130
Methylene Chloride	50.0	52.0		ug/Kg		104	70 - 130
4-Methyl-2-pentanone	250	197		ug/Kg		79	40 - 160
Methyl tert-butyl ether	50.0	45.7		ug/Kg		91	70 - 130
Styrene	50.0	50.9		ug/Kg		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.5		ug/Kg		95	70 - 130
Tetrachloroethene	50.0	48.1		ug/Kg		96	70 - 130
Toluene	50.0	50.1		ug/Kg		100	70 - 130
1,2,4-Trichlorobenzene	50.0	37.9		ug/Kg		76	70 - 130
1,1,1-Trichloroethane	50.0	44.8		ug/Kg		90	70 - 130
1,1,2-Trichloroethane	50.0	46.7		ug/Kg		93	70 - 130
Trichloroethene	50.0	50.3		ug/Kg		101	70 - 130
Trichlorofluoromethane	50.0	46.1		ug/Kg		92	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	47.6		ug/Kg		95	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-407245/3
Matrix: Solid
Analysis Batch: 407245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	50.0	47.2		ug/Kg		94	70 - 130
Xylenes, Total	100	98.5		ug/Kg		99	70 - 130
Cyclohexane	50.0	49.8		ug/Kg		100	70 - 130
Methyl acetate	250	210		ug/Kg		84	70 - 130
Methylcyclohexane	50.0	48.5		ug/Kg		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*

Lab Sample ID: LCSD 680-407245/4
Matrix: Solid
Analysis Batch: 407245

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	212		ug/Kg		85	40 - 160	9	20
Benzene	50.0	53.1		ug/Kg		106	70 - 130	6	20
Bromodichloromethane	50.0	47.4		ug/Kg		95	70 - 130	10	20
Bromoform	50.0	50.4		ug/Kg		101	70 - 130	10	20
Bromomethane	50.0	54.0		ug/Kg		108	40 - 160	3	20
2-Butanone	250	266		ug/Kg		106	40 - 160	15	20
Carbon disulfide	50.0	55.1		ug/Kg		110	40 - 160	8	20
Carbon tetrachloride	50.0	48.4		ug/Kg		97	70 - 130	8	20
Chlorobenzene	50.0	57.7		ug/Kg		115	70 - 130	10	20
Chloroethane	50.0	48.6		ug/Kg		97	40 - 160	7	20
Chloroform	50.0	49.0		ug/Kg		98	70 - 130	12	20
Chloromethane	50.0	47.5		ug/Kg		95	40 - 160	2	20
Dibromochloromethane	50.0	48.9		ug/Kg		98	70 - 130	7	20
1,2-Dibromo-3-Chloropropane	50.0	50.6	*	ug/Kg		101	40 - 160	33	20
1,2-Dibromoethane	50.0	52.8		ug/Kg		106	70 - 130	15	20
1,2-Dichlorobenzene	50.0	55.3	*	ug/Kg		111	70 - 130	30	20
1,3-Dichlorobenzene	50.0	57.4	*	ug/Kg		115	70 - 130	30	20
1,4-Dichlorobenzene	50.0	58.0	*	ug/Kg		116	70 - 130	32	20
Dichlorodifluoromethane	50.0	44.7		ug/Kg		89	40 - 160	3	20
1,1-Dichloroethane	50.0	51.7		ug/Kg		103	70 - 130	2	20
1,2-Dichloroethane	50.0	46.9		ug/Kg		94	70 - 130	10	20
cis-1,2-Dichloroethene	50.0	49.0		ug/Kg		98	70 - 130	6	20
trans-1,2-Dichloroethene	50.0	54.3		ug/Kg		109	70 - 130	11	20
1,1-Dichloroethene	50.0	54.6		ug/Kg		109	70 - 130	1	20
1,2-Dichloropropane	50.0	54.0		ug/Kg		108	70 - 130	13	20
cis-1,3-Dichloropropene	50.0	49.9		ug/Kg		100	70 - 130	7	20
trans-1,3-Dichloropropene	50.0	48.7		ug/Kg		97	70 - 130	8	20
Ethylbenzene	50.0	57.4		ug/Kg		115	70 - 130	9	20
2-Hexanone	250	237	*	ug/Kg		95	40 - 160	24	20
Isopropylbenzene	50.0	56.5		ug/Kg		113	70 - 130	12	20
Methylene Chloride	50.0	56.1		ug/Kg		112	70 - 130	8	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-407245/4
Matrix: Solid
Analysis Batch: 407245

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone	250	241		ug/Kg		96	40 - 160	20	20
Methyl tert-butyl ether	50.0	49.5		ug/Kg		99	70 - 130	8	20
Styrene	50.0	58.0		ug/Kg		116	70 - 130	13	20
1,1,2,2-Tetrachloroethane	50.0	57.9		ug/Kg		116	70 - 130	20	20
Tetrachloroethene	50.0	53.3		ug/Kg		107	70 - 130	10	20
Toluene	50.0	55.0		ug/Kg		110	70 - 130	9	20
1,2,4-Trichlorobenzene	50.0	55.6	*	ug/Kg		111	70 - 130	38	20
1,1,1-Trichloroethane	50.0	47.6		ug/Kg		95	70 - 130	6	20
1,1,2-Trichloroethane	50.0	50.7		ug/Kg		101	70 - 130	8	20
Trichloroethene	50.0	55.1		ug/Kg		110	70 - 130	9	20
Trichlorofluoromethane	50.0	47.6		ug/Kg		95	40 - 160	3	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	51.6		ug/Kg		103	70 - 130	8	20
Vinyl chloride	50.0	50.7		ug/Kg		101	70 - 130	7	20
Xylenes, Total	100	110		ug/Kg		110	70 - 130	11	20
Cyclohexane	50.0	51.1		ug/Kg		102	70 - 130	3	20
Methyl acetate	250	225		ug/Kg		90	70 - 130	7	20
Methylcyclohexane	50.0	51.8		ug/Kg		104	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*112*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-407647/8
Matrix: Solid
Analysis Batch: 407647

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<11		50	11	ug/Kg			10/27/15 15:30	1
Benzene	<0.73		5.0	0.73	ug/Kg			10/27/15 15:30	1
Bromodichloromethane	<0.97		5.0	0.97	ug/Kg			10/27/15 15:30	1
Bromoform	<1.5		5.0	1.5	ug/Kg			10/27/15 15:30	1
Bromomethane	<1.5		5.0	1.5	ug/Kg			10/27/15 15:30	1
2-Butanone	<2.4		25	2.4	ug/Kg			10/27/15 15:30	1
Carbon disulfide	<1.1		5.0	1.1	ug/Kg			10/27/15 15:30	1
Carbon tetrachloride	<0.83		5.0	0.83	ug/Kg			10/27/15 15:30	1
Chlorobenzene	<0.96		5.0	0.96	ug/Kg			10/27/15 15:30	1
Chloroethane	<2.7		5.0	2.7	ug/Kg			10/27/15 15:30	1
Chloroform	<1.1		5.0	1.1	ug/Kg			10/27/15 15:30	1
Chloromethane	<1.0		5.0	1.0	ug/Kg			10/27/15 15:30	1
Dibromochloromethane	<1.7		5.0	1.7	ug/Kg			10/27/15 15:30	1
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/Kg			10/27/15 15:30	1
1,2-Dibromoethane	<1.5		5.0	1.5	ug/Kg			10/27/15 15:30	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/Kg			10/27/15 15:30	1
1,3-Dichlorobenzene	<1.6		5.0	1.6	ug/Kg			10/27/15 15:30	1
1,4-Dichlorobenzene	<0.74		5.0	0.74	ug/Kg			10/27/15 15:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-407647/8
Matrix: Solid
Analysis Batch: 407647

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.94		5.0	0.94	ug/Kg			10/27/15 15:30	1
1,1-Dichloroethane	<1.1		5.0	1.1	ug/Kg			10/27/15 15:30	1
1,2-Dichloroethane	<1.1		5.0	1.1	ug/Kg			10/27/15 15:30	1
cis-1,2-Dichloroethene	<1.4		5.0	1.4	ug/Kg			10/27/15 15:30	1
trans-1,2-Dichloroethene	<0.63		5.0	0.63	ug/Kg			10/27/15 15:30	1
1,1-Dichloroethene	<1.5		5.0	1.5	ug/Kg			10/27/15 15:30	1
1,2-Dichloropropane	<0.86		5.0	0.86	ug/Kg			10/27/15 15:30	1
cis-1,3-Dichloropropene	<0.83		5.0	0.83	ug/Kg			10/27/15 15:30	1
trans-1,3-Dichloropropene	<0.87		5.0	0.87	ug/Kg			10/27/15 15:30	1
Ethylbenzene	<1.3		5.0	1.3	ug/Kg			10/27/15 15:30	1
2-Hexanone	<3.3		25	3.3	ug/Kg			10/27/15 15:30	1
Isopropylbenzene	<1.9		5.0	1.9	ug/Kg			10/27/15 15:30	1
Methylene Chloride	<0.98		5.0	0.98	ug/Kg			10/27/15 15:30	1
4-Methyl-2-pentanone	<4.2		25	4.2	ug/Kg			10/27/15 15:30	1
Methyl tert-butyl ether	<1.0		5.0	1.0	ug/Kg			10/27/15 15:30	1
Styrene	<0.93		5.0	0.93	ug/Kg			10/27/15 15:30	1
1,1,2,2-Tetrachloroethane	<1.6		5.0	1.6	ug/Kg			10/27/15 15:30	1
Tetrachloroethene	<1.9		5.0	1.9	ug/Kg			10/27/15 15:30	1
Toluene	<0.84		5.0	0.84	ug/Kg			10/27/15 15:30	1
1,2,4-Trichlorobenzene	<0.89		5.0	0.89	ug/Kg			10/27/15 15:30	1
1,1,1-Trichloroethane	<0.59		5.0	0.59	ug/Kg			10/27/15 15:30	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/Kg			10/27/15 15:30	1
Trichloroethene	<1.3		5.0	1.3	ug/Kg			10/27/15 15:30	1
Trichlorofluoromethane	<1.2		5.0	1.2	ug/Kg			10/27/15 15:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.0	1.3	ug/Kg			10/27/15 15:30	1
Vinyl chloride	<1.5		5.0	1.5	ug/Kg			10/27/15 15:30	1
Xylenes, Total	<1.1		10	1.1	ug/Kg			10/27/15 15:30	1
Cyclohexane	<1.3		5.0	1.3	ug/Kg			10/27/15 15:30	1
Methyl acetate	<5.0		25	5.0	ug/Kg			10/27/15 15:30	1
Methylcyclohexane	<0.86		5.0	0.86	ug/Kg			10/27/15 15:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/27/15 15:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*10/27/15 15:30*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*10/27/15 15:30*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/27/15 15:30*	*1*

Lab Sample ID: MB 680-407647/9
Matrix: Solid
Analysis Batch: 407647

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<430		1900	430	ug/Kg			10/27/15 15:58	40
Benzene	<28		190	28	ug/Kg			10/27/15 15:58	40
Bromodichloromethane	<38		190	38	ug/Kg			10/27/15 15:58	40
Bromoform	<58		190	58	ug/Kg			10/27/15 15:58	40
Bromomethane	<58		190	58	ug/Kg			10/27/15 15:58	40
2-Butanone	<93		970	93	ug/Kg			10/27/15 15:58	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-407647/9
Matrix: Solid
Analysis Batch: 407647

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<43		190	43	ug/Kg			10/27/15 15:58	40
Carbon tetrachloride	<32		190	32	ug/Kg			10/27/15 15:58	40
Chlorobenzene	<37		190	37	ug/Kg			10/27/15 15:58	40
Chloroethane	<110		190	110	ug/Kg			10/27/15 15:58	40
Chloroform	<43		190	43	ug/Kg			10/27/15 15:58	40
Chloromethane	<39		190	39	ug/Kg			10/27/15 15:58	40
Dibromochloromethane	<66		190	66	ug/Kg			10/27/15 15:58	40
1,2-Dibromo-3-Chloropropane	<170		390	170	ug/Kg			10/27/15 15:58	40
1,2-Dibromoethane	<58		190	58	ug/Kg			10/27/15 15:58	40
1,2-Dichlorobenzene	<51		190	51	ug/Kg			10/27/15 15:58	40
1,3-Dichlorobenzene	<62		190	62	ug/Kg			10/27/15 15:58	40
1,4-Dichlorobenzene	<29		190	29	ug/Kg			10/27/15 15:58	40
Dichlorodifluoromethane	<37		190	37	ug/Kg			10/27/15 15:58	40
1,1-Dichloroethane	<43		190	43	ug/Kg			10/27/15 15:58	40
1,2-Dichloroethane	<43		190	43	ug/Kg			10/27/15 15:58	40
cis-1,2-Dichloroethene	<54		190	54	ug/Kg			10/27/15 15:58	40
trans-1,2-Dichloroethene	<25		190	25	ug/Kg			10/27/15 15:58	40
1,1-Dichloroethene	<58		190	58	ug/Kg			10/27/15 15:58	40
1,2-Dichloropropane	<33		190	33	ug/Kg			10/27/15 15:58	40
cis-1,3-Dichloropropene	<32		190	32	ug/Kg			10/27/15 15:58	40
trans-1,3-Dichloropropene	<34		190	34	ug/Kg			10/27/15 15:58	40
Ethylbenzene	<51		190	51	ug/Kg			10/27/15 15:58	40
2-Hexanone	<130		970	130	ug/Kg			10/27/15 15:58	40
Isopropylbenzene	<74		190	74	ug/Kg			10/27/15 15:58	40
Methylene Chloride	<38		190	38	ug/Kg			10/27/15 15:58	40
4-Methyl-2-pentanone	<160		970	160	ug/Kg			10/27/15 15:58	40
Methyl tert-butyl ether	<39		190	39	ug/Kg			10/27/15 15:58	40
Styrene	<36		190	36	ug/Kg			10/27/15 15:58	40
1,1,2,2-Tetrachloroethane	<62		190	62	ug/Kg			10/27/15 15:58	40
Tetrachloroethene	<74		190	74	ug/Kg			10/27/15 15:58	40
Toluene	<33		190	33	ug/Kg			10/27/15 15:58	40
1,2,4-Trichlorobenzene	<35		190	35	ug/Kg			10/27/15 15:58	40
1,1,1-Trichloroethane	<23		190	23	ug/Kg			10/27/15 15:58	40
1,1,2-Trichloroethane	<51		190	51	ug/Kg			10/27/15 15:58	40
Trichloroethene	<51		190	51	ug/Kg			10/27/15 15:58	40
Trichlorofluoromethane	<47		190	47	ug/Kg			10/27/15 15:58	40
1,1,2-Trichloro-1,2,2-trifluoroethane	<51		190	51	ug/Kg			10/27/15 15:58	40
Vinyl chloride	<58		190	58	ug/Kg			10/27/15 15:58	40
Xylenes, Total	<43		390	43	ug/Kg			10/27/15 15:58	40
Cyclohexane	<51		190	51	ug/Kg			10/27/15 15:58	40
Methyl acetate	<190		970	190	ug/Kg			10/27/15 15:58	40
Methylcyclohexane	<33		190	33	ug/Kg			10/27/15 15:58	40

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/27/15 15:58*	*40*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*10/27/15 15:58*	*40*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*10/27/15 15:58*	*40*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/27/15 15:58*	*40*

QC Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Lab Sample ID: LCS 680-407647/3
Matrix: Solid
Analysis Batch: 407647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	247	211		ug/Kg		86	40 - 160
Benzene	49.4	49.2		ug/Kg		100	70 - 130
Bromodichloromethane	49.4	48.6		ug/Kg		98	70 - 130
Bromoform	49.4	49.5		ug/Kg		100	70 - 130
Bromomethane	49.4	42.5		ug/Kg		86	40 - 160
2-Butanone	247	223		ug/Kg		90	40 - 160
Carbon disulfide	49.4	47.4		ug/Kg		96	40 - 160
Carbon tetrachloride	49.4	48.9		ug/Kg		99	70 - 130
Chlorobenzene	49.4	49.2		ug/Kg		100	70 - 130
Chloroethane	49.4	44.6		ug/Kg		90	40 - 160
Chloroform	49.4	47.7		ug/Kg		97	70 - 130
Chloromethane	49.4	52.9		ug/Kg		107	40 - 160
Dibromochloromethane	49.4	49.2		ug/Kg		100	70 - 130
1,2-Dibromo-3-Chloropropane	49.4	49.4		ug/Kg		100	40 - 160
1,2-Dibromoethane	49.4	47.1		ug/Kg		95	70 - 130
1,2-Dichlorobenzene	49.4	49.6		ug/Kg		100	70 - 130
1,3-Dichlorobenzene	49.4	48.2		ug/Kg		97	70 - 130
1,4-Dichlorobenzene	49.4	48.4		ug/Kg		98	70 - 130
Dichlorodifluoromethane	49.4	46.9		ug/Kg		95	40 - 160
1,1-Dichloroethane	49.4	47.4		ug/Kg		96	70 - 130
1,2-Dichloroethane	49.4	47.8		ug/Kg		97	70 - 130
cis-1,2-Dichloroethene	49.4	47.6		ug/Kg		96	70 - 130
trans-1,2-Dichloroethene	49.4	48.5		ug/Kg		98	70 - 130
1,1-Dichloroethene	49.4	46.0		ug/Kg		93	70 - 130
1,2-Dichloropropane	49.4	48.9		ug/Kg		99	70 - 130
cis-1,3-Dichloropropene	49.4	48.7		ug/Kg		99	70 - 130
trans-1,3-Dichloropropene	49.4	46.7		ug/Kg		94	70 - 130
Ethylbenzene	49.4	50.1		ug/Kg		101	70 - 130
2-Hexanone	247	227		ug/Kg		92	40 - 160
Isopropylbenzene	49.4	51.3		ug/Kg		104	70 - 130
Methylene Chloride	49.4	46.4		ug/Kg		94	70 - 130
4-Methyl-2-pentanone	247	223		ug/Kg		90	40 - 160
Methyl tert-butyl ether	49.4	45.8		ug/Kg		93	70 - 130
Styrene	49.4	50.8		ug/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	49.4	51.6		ug/Kg		104	70 - 130
Tetrachloroethene	49.4	49.9		ug/Kg		101	70 - 130
Toluene	49.4	49.4		ug/Kg		100	70 - 130
1,2,4-Trichlorobenzene	49.4	53.2		ug/Kg		108	70 - 130
1,1,1-Trichloroethane	49.4	50.0		ug/Kg		101	70 - 130
1,1,2-Trichloroethane	49.4	46.8		ug/Kg		95	70 - 130
Trichloroethene	49.4	48.7		ug/Kg		99	70 - 130
Trichlorofluoromethane	49.4	48.1		ug/Kg		97	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroetha ne	49.4	47.6		ug/Kg		96	70 - 130
Vinyl chloride	49.4	46.3		ug/Kg		94	70 - 130
Xylenes, Total	98.8	102		ug/Kg		103	70 - 130
Cyclohexane	49.4	48.5		ug/Kg		98	70 - 130
Methyl acetate	247	224		ug/Kg		91	70 - 130
Methylcyclohexane	49.4	49.9		ug/Kg		101	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-407647/3
Matrix: Solid
Analysis Batch: 407647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCS 680-407647/5
Matrix: Solid
Analysis Batch: 407647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	12200	10100		ug/Kg		83	40 - 160
Benzene	2450	2360		ug/Kg		97	70 - 130
Bromodichloromethane	2450	2300		ug/Kg		94	70 - 130
Bromoform	2450	2460		ug/Kg		101	70 - 130
Bromomethane	2450	1990		ug/Kg		81	40 - 160
2-Butanone	12200	11200		ug/Kg		91	40 - 160
Carbon disulfide	2450	2280		ug/Kg		93	40 - 160
Carbon tetrachloride	2450	2370		ug/Kg		97	70 - 130
Chlorobenzene	2450	2410		ug/Kg		98	70 - 130
Chloroethane	2450	2060		ug/Kg		84	40 - 160
Chloroform	2450	2290		ug/Kg		93	70 - 130
Chloromethane	2450	2500		ug/Kg		102	40 - 160
Dibromochloromethane	2450	2340		ug/Kg		96	70 - 130
1,2-Dibromo-3-Chloropropane	2450	2390		ug/Kg		98	40 - 160
1,2-Dibromoethane	2450	2310		ug/Kg		94	70 - 130
1,2-Dichlorobenzene	2450	2450		ug/Kg		100	70 - 130
1,3-Dichlorobenzene	2450	2400		ug/Kg		98	70 - 130
1,4-Dichlorobenzene	2450	2440		ug/Kg		100	70 - 130
Dichlorodifluoromethane	2450	2170		ug/Kg		89	40 - 160
1,1-Dichloroethane	2450	2300		ug/Kg		94	70 - 130
1,2-Dichloroethane	2450	2300		ug/Kg		94	70 - 130
cis-1,2-Dichloroethene	2450	2290		ug/Kg		94	70 - 130
trans-1,2-Dichloroethene	2450	2330		ug/Kg		95	70 - 130
1,1-Dichloroethene	2450	2170		ug/Kg		89	70 - 130
1,2-Dichloropropane	2450	2310		ug/Kg		95	70 - 130
cis-1,3-Dichloropropene	2450	2340		ug/Kg		96	70 - 130
trans-1,3-Dichloropropene	2450	2300		ug/Kg		94	70 - 130
Ethylbenzene	2450	2440		ug/Kg		100	70 - 130
2-Hexanone	12200	11400		ug/Kg		93	40 - 160
Isopropylbenzene	2450	2490		ug/Kg		102	70 - 130
Methylene Chloride	2450	2220		ug/Kg		91	70 - 130
4-Methyl-2-pentanone	12200	11000		ug/Kg		90	40 - 160
Methyl tert-butyl ether	2450	2200		ug/Kg		90	70 - 130
Styrene	2450	2510		ug/Kg		102	70 - 130
1,1,2,2-Tetrachloroethane	2450	2420		ug/Kg		99	70 - 130
Tetrachloroethene	2450	2390		ug/Kg		98	70 - 130
Toluene	2450	2390		ug/Kg		98	70 - 130
1,2,4-Trichlorobenzene	2450	2490		ug/Kg		102	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-407647/5
Matrix: Solid
Analysis Batch: 407647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2450	2380		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	2450	2290		ug/Kg		93	70 - 130
Trichloroethene	2450	2360		ug/Kg		97	70 - 130
Trichlorofluoromethane	2450	2280		ug/Kg		93	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroethane	2450	2280		ug/Kg		93	70 - 130
Vinyl chloride	2450	2200		ug/Kg		90	70 - 130
Xylenes, Total	4890	4990		ug/Kg		102	70 - 130
Cyclohexane	2450	2360		ug/Kg		96	70 - 130
Methyl acetate	12200	10800		ug/Kg		89	70 - 130
Methylcyclohexane	2450	2390		ug/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 680-407647/4
Matrix: Solid
Analysis Batch: 407647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	243	226		ug/Kg		93	40 - 160	7	20
Benzene	48.6	49.5		ug/Kg		102	70 - 130	1	20
Bromodichloromethane	48.6	49.2		ug/Kg		101	70 - 130	1	20
Bromoform	48.6	51.3		ug/Kg		105	70 - 130	4	20
Bromomethane	48.6	41.7		ug/Kg		86	40 - 160	2	20
2-Butanone	243	232		ug/Kg		95	40 - 160	4	20
Carbon disulfide	48.6	46.6		ug/Kg		96	40 - 160	2	20
Carbon tetrachloride	48.6	49.4		ug/Kg		102	70 - 130	1	20
Chlorobenzene	48.6	50.7		ug/Kg		104	70 - 130	3	20
Chloroethane	48.6	44.4		ug/Kg		91	40 - 160	0	20
Chloroform	48.6	48.3		ug/Kg		99	70 - 130	1	20
Chloromethane	48.6	53.0		ug/Kg		109	40 - 160	0	20
Dibromochloromethane	48.6	50.1		ug/Kg		103	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	48.6	53.4		ug/Kg		110	40 - 160	8	20
1,2-Dibromoethane	48.6	48.7		ug/Kg		100	70 - 130	3	20
1,2-Dichlorobenzene	48.6	53.2		ug/Kg		109	70 - 130	7	20
1,3-Dichlorobenzene	48.6	51.8		ug/Kg		107	70 - 130	7	20
1,4-Dichlorobenzene	48.6	52.9		ug/Kg		109	70 - 130	9	20
Dichlorodifluoromethane	48.6	46.7		ug/Kg		96	40 - 160	0	20
1,1-Dichloroethane	48.6	47.9		ug/Kg		98	70 - 130	1	20
1,2-Dichloroethane	48.6	47.5		ug/Kg		98	70 - 130	1	20
cis-1,2-Dichloroethene	48.6	48.3		ug/Kg		99	70 - 130	1	20
trans-1,2-Dichloroethene	48.6	48.8		ug/Kg		100	70 - 130	1	20
1,1-Dichloroethene	48.6	45.8		ug/Kg		94	70 - 130	1	20
1,2-Dichloropropane	48.6	48.9		ug/Kg		101	70 - 130	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-407647/4
Matrix: Solid
Analysis Batch: 407647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			48.6	49.6		ug/Kg		102	70 - 130	2	20
trans-1,3-Dichloropropene			48.6	48.2		ug/Kg		99	70 - 130	3	20
Ethylbenzene			48.6	51.3		ug/Kg		105	70 - 130	2	20
2-Hexanone			243	245		ug/Kg		101	40 - 160	8	20
Isopropylbenzene			48.6	52.3		ug/Kg		107	70 - 130	2	20
Methylene Chloride			48.6	46.7		ug/Kg		96	70 - 130	1	20
4-Methyl-2-pentanone			243	236		ug/Kg		97	40 - 160	6	20
Methyl tert-butyl ether			48.6	46.2		ug/Kg		95	70 - 130	1	20
Styrene			48.6	53.0		ug/Kg		109	70 - 130	4	20
1,1,2,2-Tetrachloroethane			48.6	52.4		ug/Kg		108	70 - 130	2	20
Tetrachloroethene			48.6	50.2		ug/Kg		103	70 - 130	1	20
Toluene			48.6	50.2		ug/Kg		103	70 - 130	2	20
1,2,4-Trichlorobenzene			48.6	54.8		ug/Kg		113	70 - 130	3	20
1,1,1-Trichloroethane			48.6	49.5		ug/Kg		102	70 - 130	1	20
1,1,2-Trichloroethane			48.6	47.1		ug/Kg		97	70 - 130	1	20
Trichloroethene			48.6	49.1		ug/Kg		101	70 - 130	1	20
Trichlorofluoromethane			48.6	48.2		ug/Kg		99	40 - 160	0	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne			48.6	47.8		ug/Kg		98	70 - 130	0	20
Vinyl chloride			48.6	46.9		ug/Kg		96	70 - 130	1	20
Xylenes, Total			97.3	103		ug/Kg		106	70 - 130	2	20
Cyclohexane			48.6	48.5		ug/Kg		100	70 - 130	0	20
Methyl acetate			243	226		ug/Kg		93	70 - 130	1	20
Methylcyclohexane			48.6	49.0		ug/Kg		101	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 680-407647/6
Matrix: Solid
Analysis Batch: 407647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			12500	10200		ug/Kg		82	40 - 160	1	20
Benzene			2490	2430		ug/Kg		98	70 - 130	3	20
Bromodichloromethane			2490	2360		ug/Kg		95	70 - 130	3	20
Bromoform			2490	2490		ug/Kg		100	70 - 130	1	20
Bromomethane			2490	2080		ug/Kg		83	40 - 160	4	20
2-Butanone			12500	11300		ug/Kg		91	40 - 160	1	20
Carbon disulfide			2490	2350		ug/Kg		95	40 - 160	3	20
Carbon tetrachloride			2490	2480		ug/Kg		100	70 - 130	5	20
Chlorobenzene			2490	2450		ug/Kg		98	70 - 130	2	20
Chloroethane			2490	2150		ug/Kg		86	40 - 160	5	20
Chloroform			2490	2370		ug/Kg		95	70 - 130	4	20
Chloromethane			2490	2590		ug/Kg		104	40 - 160	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-407647/6
Matrix: Solid
Analysis Batch: 407647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromochloromethane			2490	2400		ug/Kg		97	70 - 130	3	20
1,2-Dibromo-3-Chloropropane			2490	2470		ug/Kg		99	40 - 160	3	20
1,2-Dibromoethane			2490	2390		ug/Kg		96	70 - 130	3	20
1,2-Dichlorobenzene			2490	2400		ug/Kg		96	70 - 130	2	20
1,3-Dichlorobenzene			2490	2410		ug/Kg		97	70 - 130	1	20
1,4-Dichlorobenzene			2490	2440		ug/Kg		98	70 - 130	0	20
Dichlorodifluoromethane			2490	2360		ug/Kg		95	40 - 160	8	20
1,1-Dichloroethane			2490	2420		ug/Kg		97	70 - 130	5	20
1,2-Dichloroethane			2490	2320		ug/Kg		93	70 - 130	1	20
cis-1,2-Dichloroethene			2490	2360		ug/Kg		95	70 - 130	3	20
trans-1,2-Dichloroethene			2490	2420		ug/Kg		97	70 - 130	4	20
1,1-Dichloroethene			2490	2250		ug/Kg		90	70 - 130	4	20
1,2-Dichloropropane			2490	2400		ug/Kg		97	70 - 130	4	20
cis-1,3-Dichloropropene			2490	2380		ug/Kg		96	70 - 130	2	20
trans-1,3-Dichloropropene			2490	2350		ug/Kg		95	70 - 130	2	20
Ethylbenzene			2490	2490		ug/Kg		100	70 - 130	2	20
2-Hexanone			12500	11700		ug/Kg		94	40 - 160	3	20
Isopropylbenzene			2490	2520		ug/Kg		101	70 - 130	1	20
Methylene Chloride			2490	2290		ug/Kg		92	70 - 130	3	20
4-Methyl-2-pentanone			12500	11300		ug/Kg		91	40 - 160	3	20
Methyl tert-butyl ether			2490	2240		ug/Kg		90	70 - 130	2	20
Styrene			2490	2550		ug/Kg		102	70 - 130	2	20
1,1,2,2-Tetrachloroethane			2490	2380		ug/Kg		96	70 - 130	2	20
Tetrachloroethene			2490	2490		ug/Kg		100	70 - 130	4	20
Toluene			2490	2470		ug/Kg		99	70 - 130	4	20
1,2,4-Trichlorobenzene			2490	2490		ug/Kg		100	70 - 130	0	20
1,1,1-Trichloroethane			2490	2430		ug/Kg		98	70 - 130	2	20
1,1,2-Trichloroethane			2490	2250		ug/Kg		90	70 - 130	2	20
Trichloroethene			2490	2460		ug/Kg		99	70 - 130	4	20
Trichlorofluoromethane			2490	2400		ug/Kg		96	40 - 160	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane			2490	2380		ug/Kg		96	70 - 130	4	20
Vinyl chloride			2490	2310		ug/Kg		93	70 - 130	5	20
Xylenes, Total			4980	5000		ug/Kg		100	70 - 130	0	20
Cyclohexane			2490	2420		ug/Kg		97	70 - 130	3	20
Methyl acetate			12500	11100		ug/Kg		89	70 - 130	2	20
Methylcyclohexane			2490	2490		ug/Kg		100	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-407732/9
Matrix: Water
Analysis Batch: 407732

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			10/28/15 09:51	1
Benzene	<0.43		1.0	0.43	ug/L			10/28/15 09:51	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			10/28/15 09:51	1
Bromoform	<0.43		1.0	0.43	ug/L			10/28/15 09:51	1
Bromomethane	<2.5		5.0	2.5	ug/L			10/28/15 09:51	1
2-Butanone	<3.4		10	3.4	ug/L			10/28/15 09:51	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			10/28/15 09:51	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			10/28/15 09:51	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			10/28/15 09:51	1
Chloroethane	<2.5		5.0	2.5	ug/L			10/28/15 09:51	1
Chloroform	<0.50		1.0	0.50	ug/L			10/28/15 09:51	1
Chloromethane	<0.40		1.0	0.40	ug/L			10/28/15 09:51	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/28/15 09:51	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			10/28/15 09:51	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			10/28/15 09:51	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			10/28/15 09:51	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			10/28/15 09:51	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			10/28/15 09:51	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			10/28/15 09:51	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			10/28/15 09:51	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			10/28/15 09:51	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/28/15 09:51	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			10/28/15 09:51	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			10/28/15 09:51	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			10/28/15 09:51	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			10/28/15 09:51	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/28/15 09:51	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			10/28/15 09:51	1
2-Hexanone	<2.0		10	2.0	ug/L			10/28/15 09:51	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			10/28/15 09:51	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			10/28/15 09:51	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			10/28/15 09:51	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			10/28/15 09:51	1
Styrene	<0.27		1.0	0.27	ug/L			10/28/15 09:51	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			10/28/15 09:51	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			10/28/15 09:51	1
Toluene	<0.48		1.0	0.48	ug/L			10/28/15 09:51	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			10/28/15 09:51	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			10/28/15 09:51	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			10/28/15 09:51	1
Trichloroethene	<0.48		1.0	0.48	ug/L			10/28/15 09:51	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			10/28/15 09:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			10/28/15 09:51	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			10/28/15 09:51	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/28/15 09:51	1
Cyclohexane	<0.39		1.0	0.39	ug/L			10/28/15 09:51	1
Methyl acetate	<1.8		5.0	1.8	ug/L			10/28/15 09:51	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			10/28/15 09:51	1

QC Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	89		70 - 130		10/28/15 09:51	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		10/28/15 09:51	1
Dibromofluoromethane (Surr)	104		70 - 130		10/28/15 09:51	1
4-Bromofluorobenzene (Surr)	105		70 - 130		10/28/15 09:51	1

Lab Sample ID: LCS 680-407732/4
Matrix: Water
Analysis Batch: 407732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	269		ug/L		108	60 - 154
Benzene	50.0	48.9		ug/L		98	73 - 131
Bromodichloromethane	50.0	55.7		ug/L		111	77 - 129
Bromoform	50.0	56.1		ug/L		112	69 - 135
Bromomethane	50.0	87.0		ug/L		174	20 - 180
2-Butanone	250	323		ug/L		129	75 - 133
Carbon disulfide	50.0	46.7		ug/L		93	73 - 127
Carbon tetrachloride	50.0	51.7		ug/L		103	75 - 130
Chlorobenzene	50.0	48.9		ug/L		98	80 - 120
Chloroethane	50.0	58.8		ug/L		118	50 - 151
Chloroform	50.0	52.8		ug/L		106	79 - 122
Chloromethane	50.0	60.9		ug/L		122	63 - 126
Dibromochloromethane	50.0	53.0		ug/L		106	71 - 136
1,2-Dibromo-3-Chloropropane	50.0	54.0		ug/L		108	59 - 141
1,2-Dibromoethane	50.0	53.0		ug/L		106	77 - 131
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	80 - 120
1,3-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120
1,4-Dichlorobenzene	50.0	47.5		ug/L		95	80 - 120
Dichlorodifluoromethane	50.0	46.7		ug/L		93	51 - 140
1,1-Dichloroethane	50.0	53.9		ug/L		108	80 - 120
1,2-Dichloroethane	50.0	57.1		ug/L		114	75 - 130
cis-1,2-Dichloroethene	50.0	55.4		ug/L		111	80 - 122
trans-1,2-Dichloroethene	50.0	50.7		ug/L		101	78 - 123
1,1-Dichloroethene	50.0	46.4		ug/L		93	74 - 125
1,2-Dichloropropane	50.0	54.2		ug/L		108	80 - 123
cis-1,3-Dichloropropene	50.0	55.6		ug/L		111	80 - 133
trans-1,3-Dichloropropene	50.0	54.5		ug/L		109	74 - 140
Ethylbenzene	50.0	49.7		ug/L		99	80 - 120
2-Hexanone	250	263		ug/L		105	70 - 141
Isopropylbenzene	50.0	50.0		ug/L		100	80 - 120
Methylene Chloride	50.0	54.5		ug/L		109	76 - 129
4-Methyl-2-pentanone	250	274		ug/L		109	75 - 135
Methyl tert-butyl ether	50.0	57.4		ug/L		115	74 - 135
Styrene	50.0	51.0		ug/L		102	80 - 122
1,1,2,2-Tetrachloroethane	50.0	53.3		ug/L		107	72 - 128
Tetrachloroethene	50.0	48.6		ug/L		97	77 - 123
Toluene	50.0	47.7		ug/L		95	80 - 122
1,2,4-Trichlorobenzene	50.0	59.5		ug/L		119	77 - 131
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	74 - 128
1,1,2-Trichloroethane	50.0	51.9		ug/L		104	79 - 125
Trichloroethene	50.0	50.1		ug/L		100	80 - 123
Trichlorofluoromethane	50.0	60.5		ug/L		121	58 - 145
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	52.0		ug/L		104	65 - 131

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-407732/4
Matrix: Water
Analysis Batch: 407732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	50.0	53.8		ug/L		108	68 - 132
Xylenes, Total	100	99.3		ug/L		99	80 - 120
Cyclohexane	50.0	49.7		ug/L		99	69 - 130
Methyl acetate	250	269		ug/L		108	66 - 134
Methylcyclohexane	50.0	47.6		ug/L		95	75 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-407732/5
Matrix: Water
Analysis Batch: 407732

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	290		ug/L		116	60 - 154	7	40
Benzene	50.0	49.8		ug/L		100	73 - 131	2	30
Bromodichloromethane	50.0	56.0		ug/L		112	77 - 129	1	20
Bromoform	50.0	55.1		ug/L		110	69 - 135	2	20
Bromomethane	50.0	93.6	*	ug/L		187	20 - 180	7	40
2-Butanone	250	319		ug/L		128	75 - 133	1	30
Carbon disulfide	50.0	46.8		ug/L		94	73 - 127	0	20
Carbon tetrachloride	50.0	49.9		ug/L		100	75 - 130	4	20
Chlorobenzene	50.0	49.3		ug/L		99	80 - 120	1	20
Chloroethane	50.0	59.3		ug/L		119	50 - 151	1	30
Chloroform	50.0	53.9		ug/L		108	79 - 122	2	20
Chloromethane	50.0	62.7		ug/L		125	63 - 126	3	30
Dibromochloromethane	50.0	53.3		ug/L		107	71 - 136	0	20
1,2-Dibromo-3-Chloropropane	50.0	57.2		ug/L		114	59 - 141	6	30
1,2-Dibromoethane	50.0	53.5		ug/L		107	77 - 131	1	30
1,2-Dichlorobenzene	50.0	52.8		ug/L		106	80 - 120	3	20
1,3-Dichlorobenzene	50.0	49.3		ug/L		99	80 - 120	1	20
1,4-Dichlorobenzene	50.0	48.1		ug/L		96	80 - 120	1	20
Dichlorodifluoromethane	50.0	42.2		ug/L		84	51 - 140	10	40
1,1-Dichloroethane	50.0	47.6		ug/L		95	80 - 120	12	20
1,2-Dichloroethane	50.0	57.4		ug/L		115	75 - 130	1	20
cis-1,2-Dichloroethene	50.0	55.4		ug/L		111	80 - 122	0	20
trans-1,2-Dichloroethene	50.0	51.9		ug/L		104	78 - 123	2	20
1,1-Dichloroethene	50.0	45.2		ug/L		90	74 - 125	3	20
1,2-Dichloropropane	50.0	53.4		ug/L		107	80 - 123	1	20
cis-1,3-Dichloropropene	50.0	56.2		ug/L		112	80 - 133	1	20
trans-1,3-Dichloropropene	50.0	55.0		ug/L		110	74 - 140	1	20
Ethylbenzene	50.0	49.7		ug/L		99	80 - 120	0	20
2-Hexanone	250	273		ug/L		109	70 - 141	4	40
Isopropylbenzene	50.0	50.2		ug/L		100	80 - 120	0	20
Methylene Chloride	50.0	56.2		ug/L		112	76 - 129	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-407732/5
Matrix: Water
Analysis Batch: 407732

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone			250	284		ug/L		114	75 - 135	4	30
Methyl tert-butyl ether			50.0	59.4		ug/L		119	74 - 135	4	20
Styrene			50.0	51.9		ug/L		104	80 - 122	2	20
1,1,2,2-Tetrachloroethane			50.0	55.0		ug/L		110	72 - 128	3	20
Tetrachloroethene			50.0	47.3		ug/L		95	77 - 123	3	20
Toluene			50.0	47.9		ug/L		96	80 - 122	0	20
1,2,4-Trichlorobenzene			50.0	60.7		ug/L		121	77 - 131	2	20
1,1,1-Trichloroethane			50.0	49.8		ug/L		100	74 - 128	2	20
1,1,2-Trichloroethane			50.0	52.8		ug/L		106	79 - 125	2	20
Trichloroethene			50.0	48.7		ug/L		97	80 - 123	3	20
Trichlorofluoromethane			50.0	56.6		ug/L		113	58 - 145	7	30
1,1,2-Trichloro-1,2,2-trifluoroetha ne			50.0	47.5		ug/L		95	65 - 131	9	30
Vinyl chloride			50.0	53.1		ug/L		106	68 - 132	1	30
Xylenes, Total			100	100		ug/L		100	80 - 120	1	20
Cyclohexane			50.0	45.6		ug/L		91	69 - 130	8	30
Methyl acetate			250	278		ug/L		111	66 - 134	3	30
Methylcyclohexane			50.0	43.5		ug/L		87	75 - 127	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*
Dibromofluoromethane (Surr)	*111*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-407800/9
Matrix: Solid
Analysis Batch: 407800

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<440		2000	440	ug/Kg			10/28/15 14:46	40
Benzene	<29		200	29	ug/Kg			10/28/15 14:46	40
Bromodichloromethane	<39		200	39	ug/Kg			10/28/15 14:46	40
Bromoform	<60		200	60	ug/Kg			10/28/15 14:46	40
Bromomethane	<60		200	60	ug/Kg			10/28/15 14:46	40
2-Butanone	<96		1000	96	ug/Kg			10/28/15 14:46	40
Carbon disulfide	<44		200	44	ug/Kg			10/28/15 14:46	40
Carbon tetrachloride	<33		200	33	ug/Kg			10/28/15 14:46	40
Chlorobenzene	<38		200	38	ug/Kg			10/28/15 14:46	40
Chloroethane	<110		200	110	ug/Kg			10/28/15 14:46	40
Chloroform	<44		200	44	ug/Kg			10/28/15 14:46	40
Chloromethane	<40		200	40	ug/Kg			10/28/15 14:46	40
Dibromochloromethane	<68		200	68	ug/Kg			10/28/15 14:46	40
1,2-Dibromo-3-Chloropropane	<180		400	180	ug/Kg			10/28/15 14:46	40
1,2-Dibromoethane	<60		200	60	ug/Kg			10/28/15 14:46	40
1,2-Dichlorobenzene	<52		200	52	ug/Kg			10/28/15 14:46	40
1,3-Dichlorobenzene	<64		200	64	ug/Kg			10/28/15 14:46	40
1,4-Dichlorobenzene	<30		200	30	ug/Kg			10/28/15 14:46	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-407800/9
Matrix: Solid
Analysis Batch: 407800

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<38		200	38	ug/Kg			10/28/15 14:46	40
1,1-Dichloroethane	<44		200	44	ug/Kg			10/28/15 14:46	40
1,2-Dichloroethane	<44		200	44	ug/Kg			10/28/15 14:46	40
cis-1,2-Dichloroethene	<56		200	56	ug/Kg			10/28/15 14:46	40
trans-1,2-Dichloroethene	<25		200	25	ug/Kg			10/28/15 14:46	40
1,1-Dichloroethene	<60		200	60	ug/Kg			10/28/15 14:46	40
1,2-Dichloropropane	<34		200	34	ug/Kg			10/28/15 14:46	40
cis-1,3-Dichloropropene	<33		200	33	ug/Kg			10/28/15 14:46	40
trans-1,3-Dichloropropene	<35		200	35	ug/Kg			10/28/15 14:46	40
Ethylbenzene	<52		200	52	ug/Kg			10/28/15 14:46	40
2-Hexanone	<130		1000	130	ug/Kg			10/28/15 14:46	40
Isopropylbenzene	<76		200	76	ug/Kg			10/28/15 14:46	40
Methylene Chloride	<39		200	39	ug/Kg			10/28/15 14:46	40
4-Methyl-2-pentanone	<170		1000	170	ug/Kg			10/28/15 14:46	40
Methyl tert-butyl ether	<40		200	40	ug/Kg			10/28/15 14:46	40
Styrene	<37		200	37	ug/Kg			10/28/15 14:46	40
1,1,2,2-Tetrachloroethane	<64		200	64	ug/Kg			10/28/15 14:46	40
Tetrachloroethene	<76		200	76	ug/Kg			10/28/15 14:46	40
Toluene	<34		200	34	ug/Kg			10/28/15 14:46	40
1,2,4-Trichlorobenzene	<36		200	36	ug/Kg			10/28/15 14:46	40
1,1,1-Trichloroethane	<24		200	24	ug/Kg			10/28/15 14:46	40
1,1,2-Trichloroethane	<52		200	52	ug/Kg			10/28/15 14:46	40
Trichloroethene	<52		200	52	ug/Kg			10/28/15 14:46	40
Trichlorofluoromethane	<48		200	48	ug/Kg			10/28/15 14:46	40
1,1,2-Trichloro-1,2,2-trifluoroethane	<52		200	52	ug/Kg			10/28/15 14:46	40
Vinyl chloride	<60		200	60	ug/Kg			10/28/15 14:46	40
Xylenes, Total	<44		400	44	ug/Kg			10/28/15 14:46	40
Cyclohexane	<52		200	52	ug/Kg			10/28/15 14:46	40
Methyl acetate	<200		1000	200	ug/Kg			10/28/15 14:46	40
Methylcyclohexane	<34		200	34	ug/Kg			10/28/15 14:46	40

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/28/15 14:46*	*40*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/28/15 14:46*	*40*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*10/28/15 14:46*	*40*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/28/15 14:46*	*40*

Lab Sample ID: LCS 680-407800/5
Matrix: Solid
Analysis Batch: 407800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	12300	10800		ug/Kg		88	40 - 160
Benzene	2450	2510		ug/Kg		103	70 - 130
Bromodichloromethane	2450	2490		ug/Kg		102	70 - 130
Bromoform	2450	2620		ug/Kg		107	70 - 130
Bromomethane	2450	2220		ug/Kg		90	40 - 160
2-Butanone	12300	12000		ug/Kg		98	40 - 160

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-407800/5
Matrix: Solid
Analysis Batch: 407800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	2450	2370		ug/Kg		97	40 - 160
Carbon tetrachloride	2450	2540		ug/Kg		104	70 - 130
Chlorobenzene	2450	2540		ug/Kg		103	70 - 130
Chloroethane	2450	2250		ug/Kg		92	40 - 160
Chloroform	2450	2440		ug/Kg		100	70 - 130
Chloromethane	2450	2700		ug/Kg		110	40 - 160
Dibromochloromethane	2450	2500		ug/Kg		102	70 - 130
1,2-Dibromo-3-Chloropropane	2450	2500		ug/Kg		102	40 - 160
1,2-Dibromoethane	2450	2450		ug/Kg		100	70 - 130
1,2-Dichlorobenzene	2450	2470		ug/Kg		101	70 - 130
1,3-Dichlorobenzene	2450	2430		ug/Kg		99	70 - 130
1,4-Dichlorobenzene	2450	2460		ug/Kg		100	70 - 130
Dichlorodifluoromethane	2450	2460		ug/Kg		100	40 - 160
1,1-Dichloroethane	2450	2450		ug/Kg		100	70 - 130
1,2-Dichloroethane	2450	2510		ug/Kg		102	70 - 130
cis-1,2-Dichloroethene	2450	2440		ug/Kg		100	70 - 130
trans-1,2-Dichloroethene	2450	2430		ug/Kg		99	70 - 130
1,1-Dichloroethene	2450	2240		ug/Kg		92	70 - 130
1,2-Dichloropropane	2450	2560		ug/Kg		105	70 - 130
cis-1,3-Dichloropropene	2450	2500		ug/Kg		102	70 - 130
trans-1,3-Dichloropropene	2450	2460		ug/Kg		101	70 - 130
Ethylbenzene	2450	2580		ug/Kg		105	70 - 130
2-Hexanone	12300	12500		ug/Kg		102	40 - 160
Isopropylbenzene	2450	2590		ug/Kg		106	70 - 130
Methylene Chloride	2450	2380		ug/Kg		97	70 - 130
4-Methyl-2-pentanone	12300	12300		ug/Kg		101	40 - 160
Methyl tert-butyl ether	2450	2390		ug/Kg		97	70 - 130
Styrene	2450	2590		ug/Kg		106	70 - 130
1,1,2,2-Tetrachloroethane	2450	2540		ug/Kg		104	70 - 130
Tetrachloroethene	2450	2500		ug/Kg		102	70 - 130
Toluene	2450	2510		ug/Kg		102	70 - 130
1,2,4-Trichlorobenzene	2450	2590		ug/Kg		106	70 - 130
1,1,1-Trichloroethane	2450	2560		ug/Kg		104	70 - 130
1,1,2-Trichloroethane	2450	2420		ug/Kg		99	70 - 130
Trichloroethene	2450	2520		ug/Kg		103	70 - 130
Trichlorofluoromethane	2450	2440		ug/Kg		100	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroetha ne	2450	2410		ug/Kg		99	70 - 130
Vinyl chloride	2450	2390		ug/Kg		98	70 - 130
Xylenes, Total	4900	5180		ug/Kg		106	70 - 130
Cyclohexane	2450	2520		ug/Kg		103	70 - 130
Methyl acetate	12300	12000		ug/Kg		98	70 - 130
Methylcyclohexane	2450	2510		ug/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-407800/5
Matrix: Solid
Analysis Batch: 407800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 680-407800/6
Matrix: Solid
Analysis Batch: 407800

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	12300	10600		ug/Kg		86	40 - 160	3	20
Benzene	2470	2480		ug/Kg		101	70 - 130	1	20
Bromodichloromethane	2470	2460		ug/Kg		100	70 - 130	1	20
Bromoform	2470	2530		ug/Kg		103	70 - 130	3	20
Bromomethane	2470	2160		ug/Kg		87	40 - 160	3	20
2-Butanone	12300	11500		ug/Kg		93	40 - 160	4	20
Carbon disulfide	2470	2310		ug/Kg		94	40 - 160	3	20
Carbon tetrachloride	2470	2480		ug/Kg		100	70 - 130	2	20
Chlorobenzene	2470	2400		ug/Kg		98	70 - 130	5	20
Chloroethane	2470	2230		ug/Kg		90	40 - 160	1	20
Chloroform	2470	2440		ug/Kg		99	70 - 130	0	20
Chloromethane	2470	2650		ug/Kg		107	40 - 160	2	20
Dibromochloromethane	2470	2510		ug/Kg		102	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	2470	2410		ug/Kg		98	40 - 160	4	20
1,2-Dibromoethane	2470	2390		ug/Kg		97	70 - 130	3	20
1,2-Dichlorobenzene	2470	2400		ug/Kg		98	70 - 130	3	20
1,3-Dichlorobenzene	2470	2360		ug/Kg		96	70 - 130	3	20
1,4-Dichlorobenzene	2470	2390		ug/Kg		97	70 - 130	3	20
Dichlorodifluoromethane	2470	2380		ug/Kg		97	40 - 160	3	20
1,1-Dichloroethane	2470	2410		ug/Kg		98	70 - 130	2	20
1,2-Dichloroethane	2470	2450		ug/Kg		100	70 - 130	2	20
cis-1,2-Dichloroethene	2470	2400		ug/Kg		97	70 - 130	2	20
trans-1,2-Dichloroethene	2470	2410		ug/Kg		98	70 - 130	1	20
1,1-Dichloroethene	2470	2190		ug/Kg		89	70 - 130	3	20
1,2-Dichloropropane	2470	2430		ug/Kg		98	70 - 130	5	20
cis-1,3-Dichloropropene	2470	2460		ug/Kg		100	70 - 130	1	20
trans-1,3-Dichloropropene	2470	2430		ug/Kg		98	70 - 130	2	20
Ethylbenzene	2470	2430		ug/Kg		98	70 - 130	6	20
2-Hexanone	12300	12200		ug/Kg		99	40 - 160	3	20
Isopropylbenzene	2470	2470		ug/Kg		100	70 - 130	5	20
Methylene Chloride	2470	2320		ug/Kg		94	70 - 130	2	20
4-Methyl-2-pentanone	12300	12000		ug/Kg		98	40 - 160	2	20
Methyl tert-butyl ether	2470	2340		ug/Kg		95	70 - 130	2	20
Styrene	2470	2460		ug/Kg		100	70 - 130	5	20
1,1,2,2-Tetrachloroethane	2470	2450		ug/Kg		99	70 - 130	4	20
Tetrachloroethene	2470	2470		ug/Kg		100	70 - 130	1	20
Toluene	2470	2480		ug/Kg		100	70 - 130	1	20
1,2,4-Trichlorobenzene	2470	2470		ug/Kg		100	70 - 130	5	20
1,1,1-Trichloroethane	2470	2480		ug/Kg		101	70 - 130	3	20
1,1,2-Trichloroethane	2470	2400		ug/Kg		98	70 - 130	1	20
Trichloroethene	2470	2420		ug/Kg		98	70 - 130	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-407800/6
Matrix: Solid
Analysis Batch: 407800

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane			2470	2400		ug/Kg		97	40 - 160	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane			2470	2340		ug/Kg		95	70 - 130	3	20
Vinyl chloride			2470	2310		ug/Kg		94	70 - 130	3	20
Xylenes, Total			4930	4940		ug/Kg		100	70 - 130	5	20
Cyclohexane			2470	2420		ug/Kg		98	70 - 130	4	20
Methyl acetate			12300	11700		ug/Kg		95	70 - 130	2	20
Methylcyclohexane			2470	2440		ug/Kg		99	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

QC Association Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

GC/MS VOA

Prep Batch: 406947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118108-1	AOC3-SB-E-SE (3.0-3.5)	Total/NA	Solid	5035	
680-118108-2	AOC3-SB-E-SE (4.5-4.0)	Total/NA	Solid	5035	
680-118108-4	AOC3-SB-E-SN (3.5-4.0)	Total/NA	Solid	5035	
680-118108-5	AOC3-SB-E-SS (3.0-3.5)	Total/NA	Solid	5035	
680-118108-6	AOC4-SB-C-SN (3.0-4.0)	Total/NA	Solid	5035	
680-118108-7	AOC4-SB-C-SS (4.5-5.0)	Total/NA	Solid	5035	
680-118108-8	AOC4-SB-C-SW- (4.5-5.0)	Total/NA	Solid	5035	
680-118108-9	AOC4-SB-BLD-NW-SE (3.0-3.5)	Total/NA	Solid	5035	
680-118108-10	AOC4-SB-BLD-NW-SE (4.5-5.0)	Total/NA	Solid	5035	
680-118108-11	AOC4-SB-BLD-NW-10E (3.0-3.5)	Total/NA	Solid	5035	
680-118108-12	AOC4-SB-BLD-NW-10E (4.5-5.0)	Total/NA	Solid	5035	

Analysis Batch: 407245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118108-1	AOC3-SB-E-SE (3.0-3.5)	Total/NA	Solid	8260B	406947
680-118108-5	AOC3-SB-E-SS (3.0-3.5)	Total/NA	Solid	8260B	406947
680-118108-6	AOC4-SB-C-SN (3.0-4.0)	Total/NA	Solid	8260B	406947
LCS 680-407245/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-407245/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-407245/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 407647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118108-2	AOC3-SB-E-SE (4.5-4.0)	Total/NA	Solid	8260B	406947
680-118108-4	AOC3-SB-E-SN (3.5-4.0)	Total/NA	Solid	8260B	406947
680-118108-7	AOC4-SB-C-SS (4.5-5.0)	Total/NA	Solid	8260B	406947
680-118108-8	AOC4-SB-C-SW- (4.5-5.0)	Total/NA	Solid	8260B	406947
680-118108-9	AOC4-SB-BLD-NW-SE (3.0-3.5)	Total/NA	Solid	8260B	406947
680-118108-11	AOC4-SB-BLD-NW-10E (3.0-3.5)	Total/NA	Solid	8260B	406947
680-118108-12	AOC4-SB-BLD-NW-10E (4.5-5.0)	Total/NA	Solid	8260B	406947
LCS 680-407647/3	Lab Control Sample	Total/NA	Solid	8260B	
LCS 680-407647/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-407647/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 680-407647/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-407647/8	Method Blank	Total/NA	Solid	8260B	
MB 680-407647/9	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 407732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118108-13	Trip Blank	Total/NA	Water	8260B	
LCS 680-407732/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-407732/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-407732/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 407800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118108-10	AOC4-SB-BLD-NW-SE (4.5-5.0)	Total/NA	Solid	8260B	406947
LCS 680-407800/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-407800/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-407800/9	Method Blank	Total/NA	Solid	8260B	

QC Association Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

General Chemistry

Analysis Batch: 406857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118108-1	AOC3-SB-E-SE (3.0-3.5)	Total/NA	Solid	Moisture	
680-118108-2	AOC3-SB-E-SE (4.5-4.0)	Total/NA	Solid	Moisture	
680-118108-4	AOC3-SB-E-SN (3.5-4.0)	Total/NA	Solid	Moisture	
680-118108-5	AOC3-SB-E-SS (3.0-3.5)	Total/NA	Solid	Moisture	
680-118108-6	AOC4-SB-C-SN (3.0-4.0)	Total/NA	Solid	Moisture	
680-118108-7	AOC4-SB-C-SS (4.5-5.0)	Total/NA	Solid	Moisture	
680-118108-8	AOC4-SB-C-SW- (4.5-5.0)	Total/NA	Solid	Moisture	
680-118108-9	AOC4-SB-BLD-NW-SE (3.0-3.5)	Total/NA	Solid	Moisture	
680-118108-10	AOC4-SB-BLD-NW-SE (4.5-5.0)	Total/NA	Solid	Moisture	
680-118108-11	AOC4-SB-BLD-NW-10E (3.0-3.5)	Total/NA	Solid	Moisture	
680-118108-12	AOC4-SB-BLD-NW-10E (4.5-5.0)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC3-SB-E-SE (3.0-3.5)
Lab Sample ID: 680-118108-1
Date Collected: 10/20/15 09:15
Matrix: Solid
Date Received: 10/22/15 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			406857	10/22/15 09:47	FES	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC3-SB-E-SE (3.0-3.5)
Lab Sample ID: 680-118108-1
Date Collected: 10/20/15 09:15
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.079 g	5 mL	406947	10/22/15 14:19	FES	TAL SAV
Total/NA	Analysis	8260B		1	6.079 g	5 mL	407245	10/24/15 15:25	DJK	TAL SAV
	Instrument ID: CMSL									

Client Sample ID: AOC3-SB-E-SE (4.5-4.0)
Lab Sample ID: 680-118108-2
Date Collected: 10/20/15 09:24
Matrix: Solid
Date Received: 10/22/15 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			406857	10/22/15 09:47	FES	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC3-SB-E-SE (4.5-4.0)
Lab Sample ID: 680-118108-2
Date Collected: 10/20/15 09:24
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.229 g	5 mL	406947	10/22/15 14:19	FES	TAL SAV
Total/NA	Analysis	8260B		1	7.229 g	5 mL	407647	10/27/15 20:54	DJK	TAL SAV
	Instrument ID: CMSL									

Client Sample ID: AOC3-SB-E-SN (3.5-4.0)
Lab Sample ID: 680-118108-4
Date Collected: 10/20/15 10:20
Matrix: Solid
Date Received: 10/22/15 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			406857	10/22/15 09:47	FES	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC3-SB-E-SN (3.5-4.0)
Lab Sample ID: 680-118108-4
Date Collected: 10/20/15 10:20
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.151 g	5 mL	406947	10/22/15 14:19	FES	TAL SAV

Lab Chronicle

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC3-SB-E-SN (3.5-4.0)

Lab Sample ID: 680-118108-4
Date Collected: 10/20/15 10:20
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	7.151 g	5 mL	407647	10/27/15 21:15	DJK	TAL SAV
	Instrument ID: CMSL									

Client Sample ID: AOC3-SB-E-SS (3.0-3.5)

Lab Sample ID: 680-118108-5
Date Collected: 10/20/15 10:45
Matrix: Solid
Date Received: 10/22/15 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			406857	10/22/15 09:47	FES	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC3-SB-E-SS (3.0-3.5)

Lab Sample ID: 680-118108-5
Date Collected: 10/20/15 10:45
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.782 g	5 mL	406947	10/22/15 14:19	FES	TAL SAV
Total/NA	Analysis	8260B		1	5.782 g	5 mL	407245	10/24/15 16:49	DJK	TAL SAV
	Instrument ID: CMSL									

Client Sample ID: AOC4-SB-C-SN (3.0-4.0)

Lab Sample ID: 680-118108-6
Date Collected: 10/20/15 12:00
Matrix: Solid
Date Received: 10/22/15 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			406857	10/22/15 09:47	FES	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC4-SB-C-SN (3.0-4.0)

Lab Sample ID: 680-118108-6
Date Collected: 10/20/15 12:00
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.867 g	5 mL	406947	10/22/15 14:19	FES	TAL SAV
Total/NA	Analysis	8260B		1	4.867 g	5 mL	407245	10/24/15 17:10	DJK	TAL SAV
	Instrument ID: CMSL									

Client Sample ID: AOC4-SB-C-SS (4.5-5.0)

Lab Sample ID: 680-118108-7
Date Collected: 10/20/15 13:55
Matrix: Solid
Date Received: 10/22/15 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			406857	10/22/15 09:47	FES	TAL SAV

Lab Chronicle

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC4-SB-C-SS (4.5-5.0)
Lab Sample ID: 680-118108-7
Date Collected: 10/20/15 13:55
Matrix: Solid
Date Received: 10/22/15 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			406857	10/22/15 09:47	FES	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC4-SB-C-SS (4.5-5.0)
Lab Sample ID: 680-118108-7
Date Collected: 10/20/15 13:55
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.111 g	5 mL	406947	10/22/15 14:19	FES	TAL SAV
Total/NA	Analysis	8260B		1	6.111 g	5 mL	407647	10/27/15 21:36	DJK	TAL SAV
	Instrument ID: CMSL									

Client Sample ID: AOC4-SB-C-SW- (4.5-5.0)
Lab Sample ID: 680-118108-8
Date Collected: 10/20/15 14:22
Matrix: Solid
Date Received: 10/22/15 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			406857	10/22/15 09:47	FES	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC4-SB-C-SW- (4.5-5.0)
Lab Sample ID: 680-118108-8
Date Collected: 10/20/15 14:22
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.896 g	5 mL	406947	10/22/15 14:19	FES	TAL SAV
Total/NA	Analysis	8260B		1	6.896 g	5 mL	407647	10/27/15 21:57	DJK	TAL SAV
	Instrument ID: CMSL									

Client Sample ID: AOC4-SB-BLD-NW-SE (3.0-3.5)
Lab Sample ID: 680-118108-9
Date Collected: 10/20/15 15:00
Matrix: Solid
Date Received: 10/22/15 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			406857	10/22/15 09:47	FES	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC4-SB-BLD-NW-SE (3.0-3.5)
Lab Sample ID: 680-118108-9
Date Collected: 10/20/15 15:00
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.96 g	5 mL	406947	10/22/15 14:19	FES	TAL SAV

Lab Chronicle

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC4-SB-BLD-NW-SE (3.0-3.5) — Lab Sample ID: 680-118108-9

Date Collected: 10/20/15 15:00 — **Matrix: Solid**
Date Received: 10/22/15 08:15 — **Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	5.96 g	5 mL	407647	10/27/15 23:00	DJK	TAL SAV
	Instrument ID: CMSL									

Client Sample ID: AOC4-SB-BLD-NW-SE (4.5-5.0) — Lab Sample ID: 680-118108-10

Date Collected: 10/20/15 15:32 — **Matrix: Solid**
Date Received: 10/22/15 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			406857	10/22/15 09:47	FES	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC4-SB-BLD-NW-SE (4.5-5.0) — Lab Sample ID: 680-118108-10

Date Collected: 10/20/15 15:32 — **Matrix: Solid**
Date Received: 10/22/15 08:15 — **Percent Solids: 81.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.137 g	5 mL	406947	10/22/15 14:19	FES	TAL SAV
Total/NA	Analysis	8260B		100000	6.137 g	5 mL	407800	10/28/15 15:28	DJK	TAL SAV
	Instrument ID: CMSL									

Client Sample ID: AOC4-SB-BLD-NW-10E (3.0-3.5) — Lab Sample ID: 680-118108-11

Date Collected: 10/21/15 12:12 — **Matrix: Solid**
Date Received: 10/22/15 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			406857	10/22/15 09:47	FES	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC4-SB-BLD-NW-10E (3.0-3.5) — Lab Sample ID: 680-118108-11

Date Collected: 10/21/15 12:12 — **Matrix: Solid**
Date Received: 10/22/15 08:15 — **Percent Solids: 81.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.845 g	5 mL	406947	10/22/15 14:19	FES	TAL SAV
Total/NA	Analysis	8260B		1	5.845 g	5 mL	407647	10/27/15 22:18	DJK	TAL SAV
	Instrument ID: CMSL									

Client Sample ID: AOC4-SB-BLD-NW-10E (4.5-5.0) — Lab Sample ID: 680-118108-12

Date Collected: 10/21/15 12:39 — **Matrix: Solid**
Date Received: 10/22/15 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			406857	10/22/15 09:47	FES	TAL SAV

Lab Chronicle

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Client Sample ID: AOC4-SB-BLD-NW-10E (4.5-5.0)

Lab Sample ID: 680-118108-12
Date Collected: 10/21/15 12:39
Matrix: Solid
Date Received: 10/22/15 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			406857	10/22/15 09:47	FES	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC4-SB-BLD-NW-10E (4.5-5.0)

Lab Sample ID: 680-118108-12
Date Collected: 10/21/15 12:39
Matrix: Solid
Date Received: 10/22/15 08:15
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.456 g	5 mL	406947	10/22/15 14:19	FES	TAL SAV
Total/NA	Analysis	8260B		1	5.456 g	5 mL	407647	10/27/15 22:39	DJK	TAL SAV
	Instrument ID: CMSL									

Client Sample ID: Trip Blank

Lab Sample ID: 680-118108-13
Date Collected: 10/21/15 00:00
Matrix: Water
Date Received: 10/22/15 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	407732	10/28/15 10:32	CEJ	TAL SAV
	Instrument ID: CMSA2									

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 101132

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING (as)

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: MTL - Port Wentworth	PROJECT NO.: 4X60009	PROJECT LOCATION (STATE): GA	PAGE 1 OF 2
TAL (LAB) PROJECT MANAGER: Sheila Hoffman	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY
CLIENT (SITE) PM: Alan Sanders	CLIENT PHONE: 770-772-7100	CLIENT FAX	DATE DUE: After 10 days
CLIENT NAME: EIC	CLIENT E-MAIL: asanders@eicusa.com		EXPEDITED REPORT DELIVERY (SURCHARGE)
CLIENT ADDRESS: 161 Kimball Bridge Rd., Alpharetta, GA 30009			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: 8260B; Methanol Dilution

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
10/20/15	9:15	AOC3-SB-E-5E (3.0-3.5)	G		X			4	
10/20/15	9:24	AOC3-SB-E-5E (4.5-4.0)	G		X			4	
10/20/15	10:16	AOC3-SB-E-5N (3.0-3.5)	G		X			4	(Hold)
10/20/15	10:20	AOC3-SB-E-5N (3.5-4.0)	G		X			4	
10/20/15	10:45	AOC3-SB-E-5S (3.0-3.5)	G		X			4	
10/20/15	12:00	AOC4-SB-C-5N (3.0-4.0)	G		X			4	
10/20/15	13:55	AOC4-SB-C-5S (4.5-5.0)	G		X			4	
10/20/15	14:22	AOC4-SB-C-5W (4.5-5.0)	G		X			4	
10/20/15	15:00	AOC4-SB-BLD-NW-5E (3.0-3.5)	G		X			4	
10/20/15	15:32	AOC4-SB-BLD-NW-5E (4.5-5.0)	G		X			4	
10/21/15	12:12	AOC4-SB-BLD-NW-10E (3.0-3.5)	G		X			4	
10/21/15	12:39	AOC4-SB-BLD-NW-10E (4.5-5.0)	G		X			4	

680-118108 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Alan Sanders	10/22/2015	8:15	5.0 (as)					

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	10/22/15	8:15	YES / NO			4.8/5.2

TAL8240-680 (1008)

Serial Number 100448

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: MTL - Port Wentworth	PROJECT NO.: 460009	PROJECT LOCATION (STATE): GA	PAGE 2 OF 2
TAL (LAB) PROJECT MANAGER: Sheila Hoffman	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY [redacted] DATE DUE: After 10 days
CLIENT (SITE) PM: EIC Alan Sanders	CLIENT PHONE: 770-772-7100	CLIENT FAX	
CLIENT NAME: EIC	CLIENT E-MAIL: asanders@eicusa.com		EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE
CLIENT ADDRESS: 161 Kimball Bridge Rd, Alpharetta, GA 30009			
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: 8260B

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED (8260B)	REMARKS
		Trip Blank		X				3	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Alan Sanders	10/22/2015	8:15						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	10/22/15	8:15	YES ☒ NO ☐			4.8/S2 680-118108

TAL8240-680 (1008)

Page 52 of 54

10/30/15

1 2 3 4 5 6 7 8 9 10 11 12 13

Login Sample Receipt Checklist

Client: McKenzie Tank Lines, Inc

Job Number: 680-118108-1

Login Number: 118108
List Number: 1
Creator: White, Menica R

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460009

TestAmerica Job ID: 680-118108-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-16
Arkansas DEQ	State Program	6	88-0692	01-31-16
California	State Program	9	2939	07-31-16
Colorado	State Program	8	N/A	12-31-15
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-16
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	803	06-30-16
Guam	State Program	9	14-004r	04-16-16
Hawaii	State Program	9	N/A	06-30-16
Illinois	NELAP	5	200022	11-30-15 *
Indiana	State Program	5	N/A	06-30-16
Iowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-15
Kentucky (UST)	State Program	4	18	06-30-16
Kentucky (WW)	State Program	4	90084	12-31-15
Louisiana	NELAP	6	30690	06-30-16
Louisiana (DW)	NELAP	6	LA150014	12-31-15
Maine	State Program	1	GA00006	09-24-16
Maryland	State Program	3	250	12-31-15
Massachusetts	State Program	1	M-GA006	06-30-16
Michigan	State Program	5	9925	03-05-16
Mississippi	State Program	4	N/A	06-30-15 *
Montana	State Program	8	CERT0081	12-31-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-16
New Jersey	NELAP	2	GA769	10-30-16 *
New Mexico	State Program	6	N/A	06-30-16
New York	NELAP	2	10842	03-31-16
North Carolina (DW)	State Program	4	13701	07-31-16
North Carolina (WW/SW)	State Program	4	269	12-31-15
Oklahoma	State Program	6	9984	08-31-16
Pennsylvania	NELAP	3	68-00474	06-30-16
Puerto Rico	State Program	2	GA00006	12-31-15
South Carolina	State Program	4	98001	06-30-15 *
Tennessee	State Program	4	TN02961	06-30-16
Texas	NELAP	6	T104704185-14-7	11-30-15 *
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-16
Washington	State Program	10	C805	06-10-16
West Virginia (DW)	State Program	3	9950C	12-31-15
West Virginia DEP	State Program	3	094	06-30-16
Wisconsin	State Program	5	999819810	08-31-16
Wyoming	State Program	8	8TMS-L	06-30-16

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-118842-1
Client Project/Site: MTL - Port Wentworth/460007

For:
McKenzie Tank Lines, Inc
PO BOX 1200
Tallahassee, Florida 32302

Attn: Mr. Thomas F Panebianco

Authorized for release by:
11/18/2015 3:50:16 PM

Sheila Hoffman, Project Manager II
(912)354-7858 e.3004
sheila.hoffman@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Method Summary 3
Sample Summary 4
Case Narrative 5
Definitions/Glossary 7
Detection Summary 8
Client Sample Results 9
QC Sample Results 17
QC Association Summary 29
Lab Chronicle 30
Chain of Custody 32
Receipt Checklists 33
Certification Summary 34

Method Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-118842-1	AOC6-SD-3-5E	Solid	11/09/15 15:37	11/10/15 12:45
680-118842-2	AOC6-SD-3-10N	Solid	11/09/15 15:44	11/10/15 12:45
680-118842-3	AOC6-SD-3-10S	Solid	11/09/15 16:00	11/10/15 12:45
680-118842-4	AOC6-SD-3-5W	Solid	11/09/15 16:16	11/10/15 12:45
680-118842-5	Equipment Rinsate	Water	11/09/15 16:28	11/10/15 12:45
680-118842-6	Trip Blank	Water	11/09/15 11:17	11/10/15 12:45

Job ID: 680-118842-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: McKenzie Tank Lines, Inc

Project: MTL - Port Wentworth/460007

Report Number: 680-118842-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT
The samples were received on 11/10/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples AOC6-SD-3-5E (680-118842-1), AOC6-SD-3-10N (680-118842-2), AOC6-SD-3-10S (680-118842-3) and AOC6-SD-3-5W (680-118842-4) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 11/11/2015 and analyzed on 11/16/2015.

Toluene was detected in method blank MB 680-410506/10 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Toluene was detected in method blank MB 680-410506/9 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples Equipment Rinsate (680-118842-5) and Trip Blank (680-118842-6) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/16/2015.

4-Methyl-2-pentanone failed the recovery criteria low for LCS 680-410482/4. This is not indicative of a systematic control problem because this was a random marginal exceedances. Qualified results have been reported.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS/MOISTURE
Samples AOC6-SD-3-5E (680-118842-1), AOC6-SD-3-10N (680-118842-2), AOC6-SD-3-10S (680-118842-3) and AOC6-SD-3-5W (680-118842-4) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 11/11/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 680-118842-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Definitions/Glossary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

Client Sample ID: AOC6-SD-3-5E — Lab Sample ID: 680-118842-1

No Detections.

Client Sample ID: AOC6-SD-3-10N — Lab Sample ID: 680-118842-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6300		270	75	ug/Kg	100	☼	8260B	Total/NA
Ethylbenzene	150	J	270	70	ug/Kg	100	☼	8260B	Total/NA
Toluene	110	J B	270	45	ug/Kg	100	☼	8260B	Total/NA
Trichloroethene	130	J	270	70	ug/Kg	100	☼	8260B	Total/NA
Vinyl chloride	400		270	80	ug/Kg	100	☼	8260B	Total/NA
Xylenes, Total	450	J	530	59	ug/Kg	100	☼	8260B	Total/NA
Methylcyclohexane	330		270	46	ug/Kg	100	☼	8260B	Total/NA

Client Sample ID: AOC6-SD-3-10S — Lab Sample ID: 680-118842-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	47	J	91	24	ug/Kg	40	☼	8260B	Total/NA
Toluene	20	J B	91	15	ug/Kg	40	☼	8260B	Total/NA
Xylenes, Total	48	J	180	20	ug/Kg	40	☼	8260B	Total/NA
Methyl acetate	190	J	450	91	ug/Kg	40	☼	8260B	Total/NA
Methylcyclohexane	250		91	16	ug/Kg	40	☼	8260B	Total/NA

Client Sample ID: AOC6-SD-3-5W — Lab Sample ID: 680-118842-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4100		260	72	ug/Kg	100	☼	8260B	Total/NA
trans-1,2-Dichloroethene	160	J	260	32	ug/Kg	100	☼	8260B	Total/NA
Tetrachloroethene	5000		260	97	ug/Kg	100	☼	8260B	Total/NA
Toluene	100	J B	260	43	ug/Kg	100	☼	8260B	Total/NA
Trichloroethene	1400		260	67	ug/Kg	100	☼	8260B	Total/NA

Client Sample ID: Equipment Rinsate — Lab Sample ID: 680-118842-5

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 680-118842-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

Client Sample ID: AOC6-SD-3-5E

Date Collected: 11/09/15 15:37
Date Received: 11/10/15 12:45

Lab Sample ID: 680-118842-1

Matrix: Solid
Percent Solids: 67.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<4.2		19	4.2	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Benzene	<0.28		1.9	0.28	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Bromodichloromethane	<0.37		1.9	0.37	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Bromoform	<0.57		1.9	0.57	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Bromomethane	<0.57		1.9	0.57	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
2-Butanone	<0.91		9.5	0.91	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Carbon disulfide	<0.42		1.9	0.42	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Carbon tetrachloride	<0.31		1.9	0.31	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Chlorobenzene	<0.36		1.9	0.36	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Chloroethane	<1.0		1.9	1.0	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Chloroform	<0.42		1.9	0.42	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Chloromethane	<0.38		1.9	0.38	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Dibromochloromethane	<0.64		1.9	0.64	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
1,2-Dibromo-3-Chloropropane	<1.7		3.8	1.7	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
1,2-Dibromoethane	<0.57		1.9	0.57	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
1,2-Dichlorobenzene	<0.49		1.9	0.49	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
1,3-Dichlorobenzene	<0.61		1.9	0.61	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
1,4-Dichlorobenzene	<0.28		1.9	0.28	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Dichlorodifluoromethane	<0.36		1.9	0.36	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
1,1-Dichloroethane	<0.42		1.9	0.42	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
1,2-Dichloroethane	<0.42		1.9	0.42	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
cis-1,2-Dichloroethene	<0.53		1.9	0.53	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
trans-1,2-Dichloroethene	<0.24		1.9	0.24	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
1,1-Dichloroethene	<0.57		1.9	0.57	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
1,2-Dichloropropane	<0.33		1.9	0.33	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
cis-1,3-Dichloropropene	<0.31		1.9	0.31	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
trans-1,3-Dichloropropene	<0.33		1.9	0.33	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Ethylbenzene	<0.49		1.9	0.49	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
2-Hexanone	<1.3		9.5	1.3	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Isopropylbenzene	<0.72		1.9	0.72	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Methylene Chloride	<0.37		1.9	0.37	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
4-Methyl-2-pentanone	<1.6		9.5	1.6	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Methyl tert-butyl ether	<0.38		1.9	0.38	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Styrene	<0.35		1.9	0.35	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
1,1,2,2-Tetrachloroethane	<0.61		1.9	0.61	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Tetrachloroethene	<0.72		1.9	0.72	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Toluene	<0.32		1.9	0.32	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
1,2,4-Trichlorobenzene	<0.34		1.9	0.34	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
1,1,1-Trichloroethane	<0.22		1.9	0.22	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
1,1,2-Trichloroethane	<0.49		1.9	0.49	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Trichloroethene	<0.49		1.9	0.49	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Trichlorofluoromethane	<0.45		1.9	0.45	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.49		1.9	0.49	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Vinyl chloride	<0.57		1.9	0.57	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Xylenes, Total	<0.42		3.8	0.42	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Cyclohexane	<0.49		1.9	0.49	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Methyl acetate	<1.9		9.5	1.9	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1
Methylcyclohexane	<0.33		1.9	0.33	ug/Kg	☼	11/11/15 10:03	11/16/15 17:44	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

Client Sample ID: AOC6-SD-3-5E

Lab Sample ID: 680-118842-1
Date Collected: 11/09/15 15:37
Matrix: Solid
Date Received: 11/10/15 12:45
Percent Solids: 67.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*	*11/11/15 10:03*	*11/16/15 17:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*11/11/15 10:03*	*11/16/15 17:44*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*	*11/11/15 10:03*	*11/16/15 17:44*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*11/11/15 10:03*	*11/16/15 17:44*	*1*

Client Sample ID: AOC6-SD-3-10N

Lab Sample ID: 680-118842-2
Date Collected: 11/09/15 15:44
Matrix: Solid
Date Received: 11/10/15 12:45
Percent Solids: 72.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<590		2700	590	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Benzene	<39		270	39	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Bromodichloromethane	<52		270	52	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Bromoform	<80		270	80	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Bromomethane	<80		270	80	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
2-Butanone	<130		1300	130	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Carbon disulfide	<59		270	59	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Carbon tetrachloride	<44		270	44	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Chlorobenzene	<51		270	51	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Chloroethane	<140		270	140	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Chloroform	<59		270	59	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Chloromethane	<53		270	53	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Dibromochloromethane	<91		270	91	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
1,2-Dibromo-3-Chloropropane	<240		530	240	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
1,2-Dibromoethane	<80		270	80	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
1,2-Dichlorobenzene	<70		270	70	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
1,3-Dichlorobenzene	<86		270	86	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
1,4-Dichlorobenzene	<40		270	40	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Dichlorodifluoromethane	<50		270	50	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
1,1-Dichloroethane	<59		270	59	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
1,2-Dichloroethane	<59		270	59	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
cis-1,2-Dichloroethene	**6300**		270	75	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
trans-1,2-Dichloroethene	<34		270	34	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
1,1-Dichloroethene	<80		270	80	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
1,2-Dichloropropane	<46		270	46	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
cis-1,3-Dichloropropene	<44		270	44	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
trans-1,3-Dichloropropene	<47		270	47	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Ethylbenzene	**150**	**J**	270	70	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
2-Hexanone	<180		1300	180	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Isopropylbenzene	<100		270	100	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Methylene Chloride	<52		270	52	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
4-Methyl-2-pentanone	<220		1300	220	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Methyl tert-butyl ether	<53		270	53	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Styrene	<50		270	50	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
1,1,2,2-Tetrachloroethane	<86		270	86	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Tetrachloroethene	<100		270	100	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Toluene	**110**	**J B**	270	45	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
1,2,4-Trichlorobenzene	<48		270	48	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
1,1,1-Trichloroethane	<32		270	32	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

Client Sample ID: AOC6-SD-3-10N

Lab Sample ID: 680-118842-2
Date Collected: 11/09/15 15:44
Matrix: Solid
Date Received: 11/10/15 12:45
Percent Solids: 72.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<70		270	70	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Trichloroethene	**130**	**J**	270	70	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Trichlorofluoromethane	<64		270	64	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
1,1,2-Trichloro-1,2,2-trifluoroethane	<70		270	70	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Vinyl chloride	**400**		270	80	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Xylenes, Total	**450**	**J**	530	59	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Cyclohexane	<70		270	70	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Methyl acetate	<270		1300	270	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100
Methylcyclohexane	**330**		270	46	ug/Kg	☼	11/11/15 10:03	11/16/15 17:02	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*70 - 130*	*11/11/15 10:03*	*11/16/15 17:02*	*100*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*11/11/15 10:03*	*11/16/15 17:02*	*100*
Dibromofluoromethane (Surr)	*93*		*70 - 130*	*11/11/15 10:03*	*11/16/15 17:02*	*100*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*11/11/15 10:03*	*11/16/15 17:02*	*100*

Client Sample ID: AOC6-SD-3-10S

Lab Sample ID: 680-118842-3
Date Collected: 11/09/15 16:00
Matrix: Solid
Date Received: 11/10/15 12:45
Percent Solids: 65.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<200		910	200	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Benzene	<13		91	13	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Bromodichloromethane	<18		91	18	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Bromoform	<27		91	27	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Bromomethane	<27		91	27	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
2-Butanone	<44		450	44	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Carbon disulfide	<20		91	20	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Carbon tetrachloride	<15		91	15	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Chlorobenzene	<17		91	17	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Chloroethane	<49		91	49	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Chloroform	<20		91	20	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Chloromethane	<18		91	18	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Dibromochloromethane	<31		91	31	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
1,2-Dibromo-3-Chloropropane	<80		180	80	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
1,2-Dibromoethane	<27		91	27	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
1,2-Dichlorobenzene	<24		91	24	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
1,3-Dichlorobenzene	<29		91	29	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
1,4-Dichlorobenzene	<13		91	13	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Dichlorodifluoromethane	<17		91	17	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
1,1-Dichloroethane	<20		91	20	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
1,2-Dichloroethane	<20		91	20	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
cis-1,2-Dichloroethene	<25		91	25	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
trans-1,2-Dichloroethene	<11		91	11	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
1,1-Dichloroethene	<27		91	27	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
1,2-Dichloropropane	<16		91	16	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
cis-1,3-Dichloropropene	<15		91	15	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
trans-1,3-Dichloropropene	<16		91	16	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Ethylbenzene	**47**	**J**	91	24	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

Client Sample ID: AOC6-SD-3-10S

Lab Sample ID: 680-118842-3
Date Collected: 11/09/15 16:00
Matrix: Solid
Date Received: 11/10/15 12:45
Percent Solids: 65.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<60		450	60	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Isopropylbenzene	<35		91	35	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Methylene Chloride	<18		91	18	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
4-Methyl-2-pentanone	<76		450	76	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Methyl tert-butyl ether	<18		91	18	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Styrene	<17		91	17	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
1,1,2,2-Tetrachloroethane	<29		91	29	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Tetrachloroethene	<35		91	35	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Toluene	**20**	**J B**	91	15	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
1,2,4-Trichlorobenzene	<16		91	16	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
1,1,1-Trichloroethane	<11		91	11	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
1,1,2-Trichloroethane	<24		91	24	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Trichloroethene	<24		91	24	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Trichlorofluoromethane	<22		91	22	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
1,1,2-Trichloro-1,2,2-trifluoroethane	<24		91	24	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Vinyl chloride	<27		91	27	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Xylenes, Total	**48**	**J**	180	20	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Cyclohexane	<24		91	24	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Methyl acetate	**190**	**J**	450	91	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40
Methylcyclohexane	**250**		91	16	ug/Kg	☼	11/11/15 10:03	11/16/15 17:23	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*70 - 130*	*11/11/15 10:03*	*11/16/15 17:23*	*40*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*11/11/15 10:03*	*11/16/15 17:23*	*40*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*11/11/15 10:03*	*11/16/15 17:23*	*40*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*11/11/15 10:03*	*11/16/15 17:23*	*40*

Client Sample ID: AOC6-SD-3-5W

Lab Sample ID: 680-118842-4
Date Collected: 11/09/15 16:16
Matrix: Solid
Date Received: 11/10/15 12:45
Percent Solids: 66.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<560		2600	560	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Benzene	<37		260	37	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Bromodichloromethane	<50		260	50	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Bromoform	<77		260	77	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Bromomethane	<77		260	77	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
2-Butanone	<120		1300	120	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Carbon disulfide	<56		260	56	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Carbon tetrachloride	<42		260	42	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Chlorobenzene	<49		260	49	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Chloroethane	<140		260	140	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Chloroform	<56		260	56	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Chloromethane	<51		260	51	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Dibromochloromethane	<87		260	87	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
1,2-Dibromo-3-Chloropropane	<230		510	230	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
1,2-Dibromoethane	<77		260	77	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
1,2-Dichlorobenzene	<67		260	67	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
1,3-Dichlorobenzene	<82		260	82	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100

Client Sample ID: AOC6-SD-3-5W

Lab Sample ID: 680-118842-4
Date Collected: 11/09/15 16:16
Matrix: Solid
Date Received: 11/10/15 12:45
Percent Solids: 66.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<38		260	38	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Dichlorodifluoromethane	<48		260	48	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
1,1-Dichloroethane	<56		260	56	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
1,2-Dichloroethane	<56		260	56	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
cis-1,2-Dichloroethene	**4100**		260	72	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
trans-1,2-Dichloroethene	**160**	**J**	260	32	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
1,1-Dichloroethene	<77		260	77	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
1,2-Dichloropropane	<44		260	44	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
cis-1,3-Dichloropropene	<42		260	42	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
trans-1,3-Dichloropropene	<45		260	45	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Ethylbenzene	<67		260	67	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
2-Hexanone	<170		1300	170	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Isopropylbenzene	<97		260	97	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Methylene Chloride	<50		260	50	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
4-Methyl-2-pentanone	<210		1300	210	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Methyl tert-butyl ether	<51		260	51	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Styrene	<48		260	48	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
1,1,2,2-Tetrachloroethane	<82		260	82	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Tetrachloroethene	**5000**		260	97	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Toluene	**100**	**J B**	260	43	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
1,2,4-Trichlorobenzene	<46		260	46	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
1,1,1-Trichloroethane	<30		260	30	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
1,1,2-Trichloroethane	<67		260	67	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Trichloroethene	**1400**		260	67	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Trichlorofluoromethane	<61		260	61	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
1,1,2-Trichloro-1,2,2-trifluoroethane	<67		260	67	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Vinyl chloride	<77		260	77	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Xylenes, Total	<56		510	56	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Cyclohexane	<67		260	67	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Methyl acetate	<260		1300	260	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100
Methylcyclohexane	<44		260	44	ug/Kg	☼	11/11/15 10:03	11/16/15 16:19	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*70 - 130*	*11/11/15 10:03*	*11/16/15 16:19*	*100*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*11/11/15 10:03*	*11/16/15 16:19*	*100*
Dibromofluoromethane (Surr)	*94*		*70 - 130*	*11/11/15 10:03*	*11/16/15 16:19*	*100*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*11/11/15 10:03*	*11/16/15 16:19*	*100*

Client Sample ID: Equipment Rinsate

Lab Sample ID: 680-118842-5
Date Collected: 11/09/15 16:28
Matrix: Water
Date Received: 11/10/15 12:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			11/16/15 14:03	1
Benzene	<0.43		1.0	0.43	ug/L			11/16/15 14:03	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			11/16/15 14:03	1
Bromoform	<0.43		1.0	0.43	ug/L			11/16/15 14:03	1
Bromomethane	<2.5		5.0	2.5	ug/L			11/16/15 14:03	1
2-Butanone	<3.4		10	3.4	ug/L			11/16/15 14:03	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

Client Sample ID: Equipment Rinsate

Lab Sample ID: 680-118842-5

Date Collected: 11/09/15 16:28
Matrix: Water
Date Received: 11/10/15 12:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.0		2.0	1.0	ug/L			11/16/15 14:03	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			11/16/15 14:03	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			11/16/15 14:03	1
Chloroethane	<2.5		5.0	2.5	ug/L			11/16/15 14:03	1
Chloroform	<0.50		1.0	0.50	ug/L			11/16/15 14:03	1
Chloromethane	<0.40		1.0	0.40	ug/L			11/16/15 14:03	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/16/15 14:03	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			11/16/15 14:03	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			11/16/15 14:03	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			11/16/15 14:03	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			11/16/15 14:03	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			11/16/15 14:03	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			11/16/15 14:03	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			11/16/15 14:03	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			11/16/15 14:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/16/15 14:03	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			11/16/15 14:03	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			11/16/15 14:03	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			11/16/15 14:03	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			11/16/15 14:03	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/16/15 14:03	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			11/16/15 14:03	1
2-Hexanone	<2.0		10	2.0	ug/L			11/16/15 14:03	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			11/16/15 14:03	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			11/16/15 14:03	1
4-Methyl-2-pentanone	<2.1	*	10	2.1	ug/L			11/16/15 14:03	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			11/16/15 14:03	1
Styrene	<0.27		1.0	0.27	ug/L			11/16/15 14:03	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			11/16/15 14:03	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			11/16/15 14:03	1
Toluene	<0.48		1.0	0.48	ug/L			11/16/15 14:03	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			11/16/15 14:03	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			11/16/15 14:03	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			11/16/15 14:03	1
Trichloroethene	<0.48		1.0	0.48	ug/L			11/16/15 14:03	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			11/16/15 14:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			11/16/15 14:03	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			11/16/15 14:03	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/16/15 14:03	1
Cyclohexane	<0.39		1.0	0.39	ug/L			11/16/15 14:03	1
Methyl acetate	<1.8		5.0	1.8	ug/L			11/16/15 14:03	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			11/16/15 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*11/16/15 14:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*		*11/16/15 14:03*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*11/16/15 14:03*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/16/15 14:03*	*1*

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

Client Sample ID: Trip Blank

Lab Sample ID: 680-118842-6

Date Collected: 11/09/15 11:17
Matrix: Water
Date Received: 11/10/15 12:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			11/16/15 17:26	1
Benzene	<0.43		1.0	0.43	ug/L			11/16/15 17:26	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			11/16/15 17:26	1
Bromoform	<0.43		1.0	0.43	ug/L			11/16/15 17:26	1
Bromomethane	<2.5		5.0	2.5	ug/L			11/16/15 17:26	1
2-Butanone	<3.4		10	3.4	ug/L			11/16/15 17:26	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			11/16/15 17:26	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			11/16/15 17:26	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			11/16/15 17:26	1
Chloroethane	<2.5		5.0	2.5	ug/L			11/16/15 17:26	1
Chloroform	<0.50		1.0	0.50	ug/L			11/16/15 17:26	1
Chloromethane	<0.40		1.0	0.40	ug/L			11/16/15 17:26	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/16/15 17:26	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			11/16/15 17:26	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			11/16/15 17:26	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			11/16/15 17:26	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			11/16/15 17:26	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			11/16/15 17:26	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			11/16/15 17:26	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			11/16/15 17:26	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			11/16/15 17:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/16/15 17:26	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			11/16/15 17:26	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			11/16/15 17:26	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			11/16/15 17:26	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			11/16/15 17:26	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/16/15 17:26	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			11/16/15 17:26	1
2-Hexanone	<2.0		10	2.0	ug/L			11/16/15 17:26	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			11/16/15 17:26	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			11/16/15 17:26	1
4-Methyl-2-pentanone	<2.1	*	10	2.1	ug/L			11/16/15 17:26	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			11/16/15 17:26	1
Styrene	<0.27		1.0	0.27	ug/L			11/16/15 17:26	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			11/16/15 17:26	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			11/16/15 17:26	1
Toluene	<0.48		1.0	0.48	ug/L			11/16/15 17:26	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			11/16/15 17:26	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			11/16/15 17:26	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			11/16/15 17:26	1
Trichloroethene	<0.48		1.0	0.48	ug/L			11/16/15 17:26	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			11/16/15 17:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			11/16/15 17:26	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			11/16/15 17:26	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/16/15 17:26	1
Cyclohexane	<0.39		1.0	0.39	ug/L			11/16/15 17:26	1
Methyl acetate	<1.8		5.0	1.8	ug/L			11/16/15 17:26	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			11/16/15 17:26	1

Client Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

Client Sample ID: Trip Blank

Lab Sample ID: 680-118842-6

Date Collected: 11/09/15 11:17

Matrix: Water

Date Received: 11/10/15 12:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		11/16/15 17:26	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 130		11/16/15 17:26	1
Dibromofluoromethane (Surr)	92		70 - 130		11/16/15 17:26	1
4-Bromofluorobenzene (Surr)	95		70 - 130		11/16/15 17:26	1

QC Sample Results

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-410482/9
Matrix: Water
Analysis Batch: 410482

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.0		10	7.0	ug/L			11/16/15 12:33	1
Benzene	<0.43		1.0	0.43	ug/L			11/16/15 12:33	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			11/16/15 12:33	1
Bromoform	<0.43		1.0	0.43	ug/L			11/16/15 12:33	1
Bromomethane	<2.5		5.0	2.5	ug/L			11/16/15 12:33	1
2-Butanone	<3.4		10	3.4	ug/L			11/16/15 12:33	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			11/16/15 12:33	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			11/16/15 12:33	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			11/16/15 12:33	1
Chloroethane	<2.5		5.0	2.5	ug/L			11/16/15 12:33	1
Chloroform	<0.50		1.0	0.50	ug/L			11/16/15 12:33	1
Chloromethane	<0.40		1.0	0.40	ug/L			11/16/15 12:33	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/16/15 12:33	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			11/16/15 12:33	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			11/16/15 12:33	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			11/16/15 12:33	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			11/16/15 12:33	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			11/16/15 12:33	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			11/16/15 12:33	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			11/16/15 12:33	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			11/16/15 12:33	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/16/15 12:33	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			11/16/15 12:33	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			11/16/15 12:33	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			11/16/15 12:33	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			11/16/15 12:33	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/16/15 12:33	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			11/16/15 12:33	1
2-Hexanone	<2.0		10	2.0	ug/L			11/16/15 12:33	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			11/16/15 12:33	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			11/16/15 12:33	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			11/16/15 12:33	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			11/16/15 12:33	1
Styrene	<0.27		1.0	0.27	ug/L			11/16/15 12:33	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			11/16/15 12:33	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			11/16/15 12:33	1
Toluene	<0.48		1.0	0.48	ug/L			11/16/15 12:33	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			11/16/15 12:33	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			11/16/15 12:33	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			11/16/15 12:33	1
Trichloroethene	<0.48		1.0	0.48	ug/L			11/16/15 12:33	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			11/16/15 12:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			11/16/15 12:33	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			11/16/15 12:33	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/16/15 12:33	1
Cyclohexane	<0.39		1.0	0.39	ug/L			11/16/15 12:33	1
Methyl acetate	<1.8		5.0	1.8	ug/L			11/16/15 12:33	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			11/16/15 12:33	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-410482/9
Matrix: Water
Analysis Batch: 410482

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		11/16/15 12:33	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		11/16/15 12:33	1
Dibromofluoromethane (Surr)	94		70 - 130		11/16/15 12:33	1
4-Bromofluorobenzene (Surr)	100		70 - 130		11/16/15 12:33	1

Lab Sample ID: LCS 680-410482/4
Matrix: Water
Analysis Batch: 410482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	166		ug/L		66	60 - 154
Benzene	50.0	49.2		ug/L		98	73 - 131
Bromodichloromethane	50.0	48.9		ug/L		98	77 - 129
Bromoform	50.0	48.3		ug/L		97	69 - 135
Bromomethane	50.0	75.6		ug/L		151	20 - 180
2-Butanone	250	187		ug/L		75	75 - 133
Carbon disulfide	50.0	51.8		ug/L		104	73 - 127
Carbon tetrachloride	50.0	52.9		ug/L		106	75 - 130
Chlorobenzene	50.0	46.4		ug/L		93	80 - 120
Chloroethane	50.0	54.8		ug/L		110	50 - 151
Chloroform	50.0	49.3		ug/L		99	79 - 122
Chloromethane	50.0	50.8		ug/L		102	63 - 126
Dibromochloromethane	50.0	45.0		ug/L		90	71 - 136
1,2-Dibromo-3-Chloropropane	50.0	41.6		ug/L		83	59 - 141
1,2-Dibromoethane	50.0	40.4		ug/L		81	77 - 131
1,2-Dichlorobenzene	50.0	47.4		ug/L		95	80 - 120
1,3-Dichlorobenzene	50.0	49.8		ug/L		100	80 - 120
1,4-Dichlorobenzene	50.0	48.8		ug/L		98	80 - 120
Dichlorodifluoromethane	50.0	57.4		ug/L		115	51 - 140
1,1-Dichloroethane	50.0	49.6		ug/L		99	80 - 120
1,2-Dichloroethane	50.0	43.7		ug/L		87	75 - 130
cis-1,2-Dichloroethene	50.0	50.1		ug/L		100	80 - 122
trans-1,2-Dichloroethene	50.0	52.1		ug/L		104	78 - 123
1,1-Dichloroethene	50.0	51.2		ug/L		102	74 - 125
1,2-Dichloropropane	50.0	48.6		ug/L		97	80 - 123
cis-1,3-Dichloropropene	50.0	54.7		ug/L		109	80 - 133
trans-1,3-Dichloropropene	50.0	46.9		ug/L		94	74 - 140
Ethylbenzene	50.0	50.9		ug/L		102	80 - 120
2-Hexanone	250	177		ug/L		71	70 - 141
Isopropylbenzene	50.0	52.4		ug/L		105	80 - 120
Methylene Chloride	50.0	46.2		ug/L		92	76 - 129
4-Methyl-2-pentanone	250	184	*	ug/L		74	75 - 135
Methyl tert-butyl ether	50.0	38.8		ug/L		78	74 - 135
Styrene	50.0	50.6		ug/L		101	80 - 122
1,1,2,2-Tetrachloroethane	50.0	38.4		ug/L		77	72 - 128
Tetrachloroethene	50.0	47.3		ug/L		95	77 - 123
Toluene	50.0	48.6		ug/L		97	80 - 122
1,2,4-Trichlorobenzene	50.0	51.2		ug/L		102	77 - 131

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-410482/4
Matrix: Water
Analysis Batch: 410482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	52.2		ug/L		104	74 - 128
1,1,2-Trichloroethane	50.0	41.5		ug/L		83	79 - 125
Trichloroethene	50.0	48.0		ug/L		96	80 - 123
Trichlorofluoromethane	50.0	52.7		ug/L		105	58 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.3		ug/L		97	65 - 131
Vinyl chloride	50.0	51.7		ug/L		103	68 - 132
Xylenes, Total	100	101		ug/L		101	80 - 120
Cyclohexane	50.0	50.8		ug/L		102	69 - 130
Methyl acetate	250	182		ug/L		73	66 - 134
Methylcyclohexane	50.0	50.7		ug/L		101	75 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 680-410482/5
Matrix: Water
Analysis Batch: 410482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	176		ug/L		70	60 - 154	5	40
Benzene	50.0	49.5		ug/L		99	73 - 131	1	30
Bromodichloromethane	50.0	50.0		ug/L		100	77 - 129	2	20
Bromoform	50.0	48.8		ug/L		98	69 - 135	1	20
Bromomethane	50.0	78.2		ug/L		156	20 - 180	3	40
2-Butanone	250	201		ug/L		81	75 - 133	7	30
Carbon disulfide	50.0	51.2		ug/L		102	73 - 127	1	20
Carbon tetrachloride	50.0	52.1		ug/L		104	75 - 130	1	20
Chlorobenzene	50.0	46.4		ug/L		93	80 - 120	0	20
Chloroethane	50.0	54.5		ug/L		109	50 - 151	1	30
Chloroform	50.0	50.4		ug/L		101	79 - 122	2	20
Chloromethane	50.0	50.4		ug/L		101	63 - 126	1	30
Dibromochloromethane	50.0	46.9		ug/L		94	71 - 136	4	20
1,2-Dibromo-3-Chloropropane	50.0	46.6		ug/L		93	59 - 141	12	30
1,2-Dibromoethane	50.0	42.5		ug/L		85	77 - 131	5	30
1,2-Dichlorobenzene	50.0	48.2		ug/L		96	80 - 120	2	20
1,3-Dichlorobenzene	50.0	49.8		ug/L		100	80 - 120	0	20
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120	1	20
Dichlorodifluoromethane	50.0	55.3		ug/L		111	51 - 140	4	40
1,1-Dichloroethane	50.0	50.2		ug/L		100	80 - 120	1	20
1,2-Dichloroethane	50.0	45.7		ug/L		91	75 - 130	5	20
cis-1,2-Dichloroethene	50.0	50.8		ug/L		102	80 - 122	1	20
trans-1,2-Dichloroethene	50.0	52.0		ug/L		104	78 - 123	0	20
1,1-Dichloroethene	50.0	50.4		ug/L		101	74 - 125	2	20
1,2-Dichloropropane	50.0	49.9		ug/L		100	80 - 123	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-410482/5
Matrix: Water
Analysis Batch: 410482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	50.0	56.9		ug/L		114	80 - 133	4	20
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	74 - 140	5	20
Ethylbenzene	50.0	50.4		ug/L		101	80 - 120	1	20
2-Hexanone	250	185		ug/L		74	70 - 141	4	40
Isopropylbenzene	50.0	50.9		ug/L		102	80 - 120	3	20
Methylene Chloride	50.0	48.0		ug/L		96	76 - 129	4	20
4-Methyl-2-pentanone	250	192		ug/L		77	75 - 135	4	30
Methyl tert-butyl ether	50.0	40.9		ug/L		82	74 - 135	5	20
Styrene	50.0	49.9		ug/L		100	80 - 122	1	20
1,1,2,2-Tetrachloroethane	50.0	40.0		ug/L		80	72 - 128	4	20
Tetrachloroethene	50.0	47.1		ug/L		94	77 - 123	0	20
Toluene	50.0	48.6		ug/L		97	80 - 122	0	20
1,2,4-Trichlorobenzene	50.0	55.9		ug/L		112	77 - 131	9	20
1,1,1-Trichloroethane	50.0	51.7		ug/L		103	74 - 128	1	20
1,1,2-Trichloroethane	50.0	43.1		ug/L		86	79 - 125	4	20
Trichloroethene	50.0	47.0		ug/L		94	80 - 123	2	20
Trichlorofluoromethane	50.0	51.0		ug/L		102	58 - 145	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.0		ug/L		96	65 - 131	1	30
Vinyl chloride	50.0	50.9		ug/L		102	68 - 132	2	30
Xylenes, Total	100	97.9		ug/L		98	80 - 120	3	20
Cyclohexane	50.0	50.6		ug/L		101	69 - 130	0	30
Methyl acetate	250	196		ug/L		78	66 - 134	8	30
Methylcyclohexane	50.0	49.5		ug/L		99	75 - 127	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 680-410506/10
Matrix: Solid
Analysis Batch: 410506

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<440		2000	440	ug/Kg			11/16/15 14:18	40
Benzene	<29		200	29	ug/Kg			11/16/15 14:18	40
Bromodichloromethane	<39		200	39	ug/Kg			11/16/15 14:18	40
Bromoform	<60		200	60	ug/Kg			11/16/15 14:18	40
Bromomethane	<60		200	60	ug/Kg			11/16/15 14:18	40
2-Butanone	<96		1000	96	ug/Kg			11/16/15 14:18	40
Carbon disulfide	<44		200	44	ug/Kg			11/16/15 14:18	40
Carbon tetrachloride	<33		200	33	ug/Kg			11/16/15 14:18	40
Chlorobenzene	<38		200	38	ug/Kg			11/16/15 14:18	40
Chloroethane	<110		200	110	ug/Kg			11/16/15 14:18	40
Chloroform	<44		200	44	ug/Kg			11/16/15 14:18	40
Chloromethane	<40		200	40	ug/Kg			11/16/15 14:18	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-410506/10
Matrix: Solid
Analysis Batch: 410506

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<68		200	68	ug/Kg			11/16/15 14:18	40
1,2-Dibromo-3-Chloropropane	<180		400	180	ug/Kg			11/16/15 14:18	40
1,2-Dibromoethane	<60		200	60	ug/Kg			11/16/15 14:18	40
1,2-Dichlorobenzene	<52		200	52	ug/Kg			11/16/15 14:18	40
1,3-Dichlorobenzene	<64		200	64	ug/Kg			11/16/15 14:18	40
1,4-Dichlorobenzene	<30		200	30	ug/Kg			11/16/15 14:18	40
Dichlorodifluoromethane	<38		200	38	ug/Kg			11/16/15 14:18	40
1,1-Dichloroethane	<44		200	44	ug/Kg			11/16/15 14:18	40
1,2-Dichloroethane	<44		200	44	ug/Kg			11/16/15 14:18	40
cis-1,2-Dichloroethene	<56		200	56	ug/Kg			11/16/15 14:18	40
trans-1,2-Dichloroethene	<25		200	25	ug/Kg			11/16/15 14:18	40
1,1-Dichloroethene	<60		200	60	ug/Kg			11/16/15 14:18	40
1,2-Dichloropropane	<34		200	34	ug/Kg			11/16/15 14:18	40
cis-1,3-Dichloropropene	<33		200	33	ug/Kg			11/16/15 14:18	40
trans-1,3-Dichloropropene	<35		200	35	ug/Kg			11/16/15 14:18	40
Ethylbenzene	<52		200	52	ug/Kg			11/16/15 14:18	40
2-Hexanone	<130		1000	130	ug/Kg			11/16/15 14:18	40
Isopropylbenzene	<76		200	76	ug/Kg			11/16/15 14:18	40
Methylene Chloride	<39		200	39	ug/Kg			11/16/15 14:18	40
4-Methyl-2-pentanone	<170		1000	170	ug/Kg			11/16/15 14:18	40
Methyl tert-butyl ether	<40		200	40	ug/Kg			11/16/15 14:18	40
Styrene	<37		200	37	ug/Kg			11/16/15 14:18	40
1,1,2,2-Tetrachloroethane	<64		200	64	ug/Kg			11/16/15 14:18	40
Tetrachloroethene	<76		200	76	ug/Kg			11/16/15 14:18	40
Toluene	40.3	J	200	34	ug/Kg			11/16/15 14:18	40
1,2,4-Trichlorobenzene	<36		200	36	ug/Kg			11/16/15 14:18	40
1,1,1-Trichloroethane	<24		200	24	ug/Kg			11/16/15 14:18	40
1,1,2-Trichloroethane	<52		200	52	ug/Kg			11/16/15 14:18	40
Trichloroethene	<52		200	52	ug/Kg			11/16/15 14:18	40
Trichlorofluoromethane	<48		200	48	ug/Kg			11/16/15 14:18	40
1,1,2-Trichloro-1,2,2-trifluoroethane	<52		200	52	ug/Kg			11/16/15 14:18	40
Vinyl chloride	<60		200	60	ug/Kg			11/16/15 14:18	40
Xylenes, Total	<44		400	44	ug/Kg			11/16/15 14:18	40
Cyclohexane	<52		200	52	ug/Kg			11/16/15 14:18	40
Methyl acetate	<200		1000	200	ug/Kg			11/16/15 14:18	40
Methylcyclohexane	<34		200	34	ug/Kg			11/16/15 14:18	40

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/16/15 14:18*	*40*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*11/16/15 14:18*	*40*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*11/16/15 14:18*	*40*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*11/16/15 14:18*	*40*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-410506/9
Matrix: Solid
Analysis Batch: 410506

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<11		49	11	ug/Kg			11/16/15 13:57	1
Benzene	<0.72		4.9	0.72	ug/Kg			11/16/15 13:57	1
Bromodichloromethane	<0.95		4.9	0.95	ug/Kg			11/16/15 13:57	1
Bromoform	<1.5		4.9	1.5	ug/Kg			11/16/15 13:57	1
Bromomethane	<1.5		4.9	1.5	ug/Kg			11/16/15 13:57	1
2-Butanone	<2.4		25	2.4	ug/Kg			11/16/15 13:57	1
Carbon disulfide	<1.1		4.9	1.1	ug/Kg			11/16/15 13:57	1
Carbon tetrachloride	<0.82		4.9	0.82	ug/Kg			11/16/15 13:57	1
Chlorobenzene	<0.94		4.9	0.94	ug/Kg			11/16/15 13:57	1
Chloroethane	<2.7		4.9	2.7	ug/Kg			11/16/15 13:57	1
Chloroform	<1.1		4.9	1.1	ug/Kg			11/16/15 13:57	1
Chloromethane	<0.98		4.9	0.98	ug/Kg			11/16/15 13:57	1
Dibromochloromethane	<1.7		4.9	1.7	ug/Kg			11/16/15 13:57	1
1,2-Dibromo-3-Chloropropane	<4.3		9.8	4.3	ug/Kg			11/16/15 13:57	1
1,2-Dibromoethane	<1.5		4.9	1.5	ug/Kg			11/16/15 13:57	1
1,2-Dichlorobenzene	<1.3		4.9	1.3	ug/Kg			11/16/15 13:57	1
1,3-Dichlorobenzene	<1.6		4.9	1.6	ug/Kg			11/16/15 13:57	1
1,4-Dichlorobenzene	<0.73		4.9	0.73	ug/Kg			11/16/15 13:57	1
Dichlorodifluoromethane	<0.93		4.9	0.93	ug/Kg			11/16/15 13:57	1
1,1-Dichloroethane	<1.1		4.9	1.1	ug/Kg			11/16/15 13:57	1
1,2-Dichloroethane	<1.1		4.9	1.1	ug/Kg			11/16/15 13:57	1
cis-1,2-Dichloroethene	<1.4		4.9	1.4	ug/Kg			11/16/15 13:57	1
trans-1,2-Dichloroethene	<0.62		4.9	0.62	ug/Kg			11/16/15 13:57	1
1,1-Dichloroethene	<1.5		4.9	1.5	ug/Kg			11/16/15 13:57	1
1,2-Dichloropropane	<0.85		4.9	0.85	ug/Kg			11/16/15 13:57	1
cis-1,3-Dichloropropene	<0.82		4.9	0.82	ug/Kg			11/16/15 13:57	1
trans-1,3-Dichloropropene	<0.86		4.9	0.86	ug/Kg			11/16/15 13:57	1
Ethylbenzene	<1.3		4.9	1.3	ug/Kg			11/16/15 13:57	1
2-Hexanone	<3.2		25	3.2	ug/Kg			11/16/15 13:57	1
Isopropylbenzene	<1.9		4.9	1.9	ug/Kg			11/16/15 13:57	1
Methylene Chloride	<0.96		4.9	0.96	ug/Kg			11/16/15 13:57	1
4-Methyl-2-pentanone	<4.1		25	4.1	ug/Kg			11/16/15 13:57	1
Methyl tert-butyl ether	<0.98		4.9	0.98	ug/Kg			11/16/15 13:57	1
Styrene	<0.92		4.9	0.92	ug/Kg			11/16/15 13:57	1
1,1,2,2-Tetrachloroethane	<1.6		4.9	1.6	ug/Kg			11/16/15 13:57	1
Tetrachloroethene	<1.9		4.9	1.9	ug/Kg			11/16/15 13:57	1
Toluene	1.35	J	4.9	0.83	ug/Kg			11/16/15 13:57	1
1,2,4-Trichlorobenzene	<0.88		4.9	0.88	ug/Kg			11/16/15 13:57	1
1,1,1-Trichloroethane	<0.58		4.9	0.58	ug/Kg			11/16/15 13:57	1
1,1,2-Trichloroethane	<1.3		4.9	1.3	ug/Kg			11/16/15 13:57	1
Trichloroethene	<1.3		4.9	1.3	ug/Kg			11/16/15 13:57	1
Trichlorofluoromethane	<1.2		4.9	1.2	ug/Kg			11/16/15 13:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		4.9	1.3	ug/Kg			11/16/15 13:57	1
Vinyl chloride	<1.5		4.9	1.5	ug/Kg			11/16/15 13:57	1
Xylenes, Total	<1.1		9.8	1.1	ug/Kg			11/16/15 13:57	1
Cyclohexane	<1.3		4.9	1.3	ug/Kg			11/16/15 13:57	1
Methyl acetate	<4.9		25	4.9	ug/Kg			11/16/15 13:57	1
Methylcyclohexane	<0.85		4.9	0.85	ug/Kg			11/16/15 13:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-410506/9
Matrix: Solid
Analysis Batch: 410506

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*11/16/15 13:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*11/16/15 13:57*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*11/16/15 13:57*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*11/16/15 13:57*	*1*

Lab Sample ID: LCS 680-410506/4
Matrix: Solid
Analysis Batch: 410506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	282		ug/Kg		113	40 - 160
Benzene	50.0	56.1		ug/Kg		112	70 - 130
Bromodichloromethane	50.0	55.5		ug/Kg		111	70 - 130
Bromoform	50.0	47.7		ug/Kg		95	70 - 130
Bromomethane	50.0	49.9		ug/Kg		100	40 - 160
2-Butanone	250	295		ug/Kg		118	40 - 160
Carbon disulfide	50.0	51.2		ug/Kg		102	40 - 160
Carbon tetrachloride	50.0	54.7		ug/Kg		109	70 - 130
Chlorobenzene	50.0	47.7		ug/Kg		95	70 - 130
Chloroethane	50.0	49.3		ug/Kg		99	40 - 160
Chloroform	50.0	55.3		ug/Kg		111	70 - 130
Chloromethane	50.0	58.2		ug/Kg		116	40 - 160
Dibromochloromethane	50.0	57.3		ug/Kg		115	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.6		ug/Kg		99	40 - 160
1,2-Dibromoethane	50.0	56.2		ug/Kg		112	70 - 130
1,2-Dichlorobenzene	50.0	48.5		ug/Kg		97	70 - 130
1,3-Dichlorobenzene	50.0	47.1		ug/Kg		94	70 - 130
1,4-Dichlorobenzene	50.0	47.7		ug/Kg		95	70 - 130
Dichlorodifluoromethane	50.0	54.7		ug/Kg		109	40 - 160
1,1-Dichloroethane	50.0	55.4		ug/Kg		111	70 - 130
1,2-Dichloroethane	50.0	57.6		ug/Kg		115	70 - 130
cis-1,2-Dichloroethene	50.0	55.5		ug/Kg		111	70 - 130
trans-1,2-Dichloroethene	50.0	50.4		ug/Kg		101	70 - 130
1,1-Dichloroethene	50.0	51.4		ug/Kg		103	70 - 130
1,2-Dichloropropane	50.0	56.2		ug/Kg		112	70 - 130
cis-1,3-Dichloropropene	50.0	58.6		ug/Kg		117	70 - 130
trans-1,3-Dichloropropene	50.0	57.3		ug/Kg		115	70 - 130
Ethylbenzene	50.0	48.6		ug/Kg		97	70 - 130
2-Hexanone	250	304		ug/Kg		122	40 - 160
Isopropylbenzene	50.0	47.1		ug/Kg		94	70 - 130
Methylene Chloride	50.0	53.9		ug/Kg		108	70 - 130
4-Methyl-2-pentanone	250	296		ug/Kg		118	40 - 160
Methyl tert-butyl ether	50.0	56.8		ug/Kg		114	70 - 130
Styrene	50.0	48.0		ug/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.1		ug/Kg		104	70 - 130
Tetrachloroethene	50.0	53.8		ug/Kg		108	70 - 130
Toluene	50.0	55.2		ug/Kg		110	70 - 130
1,2,4-Trichlorobenzene	50.0	51.1		ug/Kg		102	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-410506/4
Matrix: Solid
Analysis Batch: 410506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	56.7		ug/Kg		113	70 - 130
1,1,2-Trichloroethane	50.0	57.0		ug/Kg		114	70 - 130
Trichloroethene	50.0	52.6		ug/Kg		105	70 - 130
Trichlorofluoromethane	50.0	51.6		ug/Kg		103	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.5		ug/Kg		105	70 - 130
Vinyl chloride	50.0	51.0		ug/Kg		102	70 - 130
Xylenes, Total	100	97.8		ug/Kg		98	70 - 130
Cyclohexane	50.0	52.6		ug/Kg		105	70 - 130
Methyl acetate	250	304		ug/Kg		122	70 - 130
Methylcyclohexane	50.0	56.0		ug/Kg		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*91*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*
Dibromofluoromethane (Surr)	*111*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCS 680-410506/6
Matrix: Solid
Analysis Batch: 410506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	12200	13500		ug/Kg		111	40 - 160
Benzene	2430	2730		ug/Kg		112	70 - 130
Bromodichloromethane	2430	2730		ug/Kg		112	70 - 130
Bromoform	2430	2630		ug/Kg		108	70 - 130
Bromomethane	2430	2740		ug/Kg		112	40 - 160
2-Butanone	12200	14100		ug/Kg		116	40 - 160
Carbon disulfide	2430	2570		ug/Kg		106	40 - 160
Carbon tetrachloride	2430	2740		ug/Kg		113	70 - 130
Chlorobenzene	2430	2420		ug/Kg		99	70 - 130
Chloroethane	2430	2550		ug/Kg		105	40 - 160
Chloroform	2430	2630		ug/Kg		108	70 - 130
Chloromethane	2430	3160		ug/Kg		130	40 - 160
Dibromochloromethane	2430	2890		ug/Kg		119	70 - 130
1,2-Dibromo-3-Chloropropane	2430	2440		ug/Kg		100	40 - 160
1,2-Dibromoethane	2430	2800		ug/Kg		115	70 - 130
1,2-Dichlorobenzene	2430	2580		ug/Kg		106	70 - 130
1,3-Dichlorobenzene	2430	2510		ug/Kg		103	70 - 130
1,4-Dichlorobenzene	2430	2550		ug/Kg		105	70 - 130
Dichlorodifluoromethane	2430	3040		ug/Kg		125	40 - 160
1,1-Dichloroethane	2430	2710		ug/Kg		112	70 - 130
1,2-Dichloroethane	2430	2800		ug/Kg		115	70 - 130
cis-1,2-Dichloroethene	2430	2680		ug/Kg		110	70 - 130
trans-1,2-Dichloroethene	2430	2580		ug/Kg		106	70 - 130
1,1-Dichloroethene	2430	2530		ug/Kg		104	70 - 130
1,2-Dichloropropane	2430	2820		ug/Kg		116	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-410506/6
Matrix: Solid
Analysis Batch: 410506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	2430	2720		ug/Kg		112	70 - 130
trans-1,3-Dichloropropene	2430	2840		ug/Kg		117	70 - 130
Ethylbenzene	2430	2510		ug/Kg		103	70 - 130
2-Hexanone	12200	15000		ug/Kg		123	40 - 160
Isopropylbenzene	2430	2620		ug/Kg		108	70 - 130
Methylene Chloride	2430	2550		ug/Kg		105	70 - 130
4-Methyl-2-pentanone	12200	14600		ug/Kg		120	40 - 160
Methyl tert-butyl ether	2430	2610		ug/Kg		107	70 - 130
Styrene	2430	2610		ug/Kg		107	70 - 130
1,1,2,2-Tetrachloroethane	2430	2800		ug/Kg		115	70 - 130
Tetrachloroethene	2430	2720		ug/Kg		112	70 - 130
Toluene	2430	2800		ug/Kg		115	70 - 130
1,2,4-Trichlorobenzene	2430	2640		ug/Kg		109	70 - 130
1,1,1-Trichloroethane	2430	2770		ug/Kg		114	70 - 130
1,1,2-Trichloroethane	2430	2770		ug/Kg		114	70 - 130
Trichloroethene	2430	2670		ug/Kg		110	70 - 130
Trichlorofluoromethane	2430	2740		ug/Kg		113	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroetha ne	2430	2660		ug/Kg		109	70 - 130
Vinyl chloride	2430	2780		ug/Kg		114	70 - 130
Xylenes, Total	4860	5080		ug/Kg		104	70 - 130
Cyclohexane	2430	2680		ug/Kg		110	70 - 130
Methyl acetate	12200	14100		ug/Kg		116	70 - 130
Methylcyclohexane	2430	2800		ug/Kg		115	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*
Dibromofluoromethane (Surr)	*110*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-410506/5
Matrix: Solid
Analysis Batch: 410506

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	282		ug/Kg		113	40 - 160	0	20
Benzene	50.0	53.8		ug/Kg		108	70 - 130	4	20
Bromodichloromethane	50.0	53.3		ug/Kg		107	70 - 130	4	20
Bromoform	50.0	53.3		ug/Kg		107	70 - 130	11	20
Bromomethane	50.0	55.8		ug/Kg		112	40 - 160	11	20
2-Butanone	250	291		ug/Kg		116	40 - 160	1	20
Carbon disulfide	50.0	52.6		ug/Kg		105	40 - 160	3	20
Carbon tetrachloride	50.0	55.5		ug/Kg		111	70 - 130	2	20
Chlorobenzene	50.0	48.0		ug/Kg		96	70 - 130	1	20
Chloroethane	50.0	52.1		ug/Kg		104	40 - 160	5	20
Chloroform	50.0	53.2		ug/Kg		106	70 - 130	4	20
Chloromethane	50.0	67.0		ug/Kg		134	40 - 160	14	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-410506/5
Matrix: Solid
Analysis Batch: 410506

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromochloromethane			50.0	54.5		ug/Kg		109	70 - 130	5	20
1,2-Dibromo-3-Chloropropane			50.0	56.2		ug/Kg		112	40 - 160	12	20
1,2-Dibromoethane			50.0	54.3		ug/Kg		109	70 - 130	3	20
1,2-Dichlorobenzene			50.0	51.3		ug/Kg		103	70 - 130	6	20
1,3-Dichlorobenzene			50.0	50.1		ug/Kg		100	70 - 130	6	20
1,4-Dichlorobenzene			50.0	51.0		ug/Kg		102	70 - 130	7	20
Dichlorodifluoromethane			50.0	62.5		ug/Kg		125	40 - 160	13	20
1,1-Dichloroethane			50.0	53.8		ug/Kg		108	70 - 130	3	20
1,2-Dichloroethane			50.0	55.5		ug/Kg		111	70 - 130	4	20
cis-1,2-Dichloroethene			50.0	54.5		ug/Kg		109	70 - 130	2	20
trans-1,2-Dichloroethene			50.0	53.7		ug/Kg		107	70 - 130	6	20
1,1-Dichloroethene			50.0	51.3		ug/Kg		103	70 - 130	0	20
1,2-Dichloropropane			50.0	58.0		ug/Kg		116	70 - 130	3	20
cis-1,3-Dichloropropene			50.0	53.8		ug/Kg		108	70 - 130	9	20
trans-1,3-Dichloropropene			50.0	54.1		ug/Kg		108	70 - 130	6	20
Ethylbenzene			50.0	50.0		ug/Kg		100	70 - 130	3	20
2-Hexanone			250	314		ug/Kg		126	40 - 160	3	20
Isopropylbenzene			50.0	50.5		ug/Kg		101	70 - 130	7	20
Methylene Chloride			50.0	52.0		ug/Kg		104	70 - 130	4	20
4-Methyl-2-pentanone			250	304		ug/Kg		121	40 - 160	3	20
Methyl tert-butyl ether			50.0	53.1		ug/Kg		106	70 - 130	7	20
Styrene			50.0	50.4		ug/Kg		101	70 - 130	5	20
1,1,2,2-Tetrachloroethane			50.0	56.7		ug/Kg		113	70 - 130	8	20
Tetrachloroethene			50.0	55.3		ug/Kg		111	70 - 130	3	20
Toluene			50.0	56.4		ug/Kg		113	70 - 130	2	20
1,2,4-Trichlorobenzene			50.0	54.2		ug/Kg		108	70 - 130	6	20
1,1,1-Trichloroethane			50.0	56.3		ug/Kg		113	70 - 130	1	20
1,1,2-Trichloroethane			50.0	54.2		ug/Kg		108	70 - 130	5	20
Trichloroethene			50.0	55.2		ug/Kg		110	70 - 130	5	20
Trichlorofluoromethane			50.0	55.4		ug/Kg		111	40 - 160	7	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	54.4		ug/Kg		109	70 - 130	4	20
Vinyl chloride			50.0	56.1		ug/Kg		112	70 - 130	10	20
Xylenes, Total			100	101		ug/Kg		101	70 - 130	3	20
Cyclohexane			50.0	54.0		ug/Kg		108	70 - 130	3	20
Methyl acetate			250	291		ug/Kg		116	70 - 130	4	20
Methylcyclohexane			50.0	59.9		ug/Kg		120	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-410506/7
Matrix: Solid
Analysis Batch: 410506

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	12400	13300		ug/Kg		108	40 - 160	1	20
Benzene	2470	2730		ug/Kg		111	70 - 130	0	20
Bromodichloromethane	2470	2690		ug/Kg		109	70 - 130	1	20
Bromoform	2470	2570		ug/Kg		104	70 - 130	2	20
Bromomethane	2470	2690		ug/Kg		109	40 - 160	2	20
2-Butanone	12400	14000		ug/Kg		113	40 - 160	1	20
Carbon disulfide	2470	2570		ug/Kg		104	40 - 160	0	20
Carbon tetrachloride	2470	2700		ug/Kg		109	70 - 130	1	20
Chlorobenzene	2470	2340		ug/Kg		95	70 - 130	3	20
Chloroethane	2470	2530		ug/Kg		103	40 - 160	1	20
Chloroform	2470	2640		ug/Kg		107	70 - 130	0	20
Chloromethane	2470	3130		ug/Kg		127	40 - 160	1	20
Dibromochloromethane	2470	2790		ug/Kg		113	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	2470	2590		ug/Kg		105	40 - 160	6	20
1,2-Dibromoethane	2470	2750		ug/Kg		111	70 - 130	2	20
1,2-Dichlorobenzene	2470	2520		ug/Kg		102	70 - 130	2	20
1,3-Dichlorobenzene	2470	2410		ug/Kg		98	70 - 130	4	20
1,4-Dichlorobenzene	2470	2460		ug/Kg		100	70 - 130	3	20
Dichlorodifluoromethane	2470	3090		ug/Kg		125	40 - 160	2	20
1,1-Dichloroethane	2470	2660		ug/Kg		108	70 - 130	2	20
1,2-Dichloroethane	2470	2790		ug/Kg		113	70 - 130	0	20
cis-1,2-Dichloroethene	2470	2710		ug/Kg		110	70 - 130	1	20
trans-1,2-Dichloroethene	2470	2610		ug/Kg		106	70 - 130	1	20
1,1-Dichloroethene	2470	2540		ug/Kg		103	70 - 130	0	20
1,2-Dichloropropane	2470	2820		ug/Kg		114	70 - 130	0	20
cis-1,3-Dichloropropene	2470	2790		ug/Kg		113	70 - 130	3	20
trans-1,3-Dichloropropene	2470	2700		ug/Kg		109	70 - 130	5	20
Ethylbenzene	2470	2460		ug/Kg		100	70 - 130	2	20
2-Hexanone	12400	15200		ug/Kg		123	40 - 160	2	20
Isopropylbenzene	2470	2530		ug/Kg		103	70 - 130	3	20
Methylene Chloride	2470	2590		ug/Kg		105	70 - 130	2	20
4-Methyl-2-pentanone	12400	14900		ug/Kg		121	40 - 160	2	20
Methyl tert-butyl ether	2470	2620		ug/Kg		106	70 - 130	0	20
Styrene	2470	2580		ug/Kg		105	70 - 130	1	20
1,1,2,2-Tetrachloroethane	2470	2750		ug/Kg		111	70 - 130	2	20
Tetrachloroethene	2470	2770		ug/Kg		112	70 - 130	2	20
Toluene	2470	2880		ug/Kg		117	70 - 130	3	20
1,2,4-Trichlorobenzene	2470	2700		ug/Kg		109	70 - 130	2	20
1,1,1-Trichloroethane	2470	2780		ug/Kg		112	70 - 130	0	20
1,1,2-Trichloroethane	2470	2690		ug/Kg		109	70 - 130	3	20
Trichloroethene	2470	2640		ug/Kg		107	70 - 130	1	20
Trichlorofluoromethane	2470	2750		ug/Kg		111	40 - 160	0	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne	2470	2670		ug/Kg		108	70 - 130	0	20
Vinyl chloride	2470	2740		ug/Kg		111	70 - 130	1	20
Xylenes, Total	4940	5030		ug/Kg		102	70 - 130	1	20
Cyclohexane	2470	2690		ug/Kg		109	70 - 130	0	20
Methyl acetate	12400	14600		ug/Kg		118	70 - 130	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-410506/7
Matrix: Solid
Analysis Batch: 410506

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylcyclohexane			2470	2800		ug/Kg		113	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*

QC Association Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

GC/MS VOA

Prep Batch: 409876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118842-1	AOC6-SD-3-5E	Total/NA	Solid	5035	
680-118842-2	AOC6-SD-3-10N	Total/NA	Solid	5035	
680-118842-3	AOC6-SD-3-10S	Total/NA	Solid	5035	
680-118842-4	AOC6-SD-3-5W	Total/NA	Solid	5035	

Analysis Batch: 410482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118842-5	Equipment Rinsate	Total/NA	Water	8260B	
680-118842-6	Trip Blank	Total/NA	Water	8260B	
LCS 680-410482/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-410482/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-410482/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 410506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118842-1	AOC6-SD-3-5E	Total/NA	Solid	8260B	409876
680-118842-2	AOC6-SD-3-10N	Total/NA	Solid	8260B	409876
680-118842-3	AOC6-SD-3-10S	Total/NA	Solid	8260B	409876
680-118842-4	AOC6-SD-3-5W	Total/NA	Solid	8260B	409876
LCS 680-410506/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 680-410506/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-410506/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 680-410506/7	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-410506/10	Method Blank	Total/NA	Solid	8260B	
MB 680-410506/9	Method Blank	Total/NA	Solid	8260B	

General Chemistry

Analysis Batch: 409850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118842-1	AOC6-SD-3-5E	Total/NA	Solid	Moisture	
680-118842-2	AOC6-SD-3-10N	Total/NA	Solid	Moisture	
680-118842-3	AOC6-SD-3-10S	Total/NA	Solid	Moisture	
680-118842-4	AOC6-SD-3-5W	Total/NA	Solid	Moisture	

Lab Chronicle

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

Client Sample ID: AOC6-SD-3-5E — Lab Sample ID: 680-118842-1

Date Collected: 11/09/15 15:37 — **Matrix: Solid**
Date Received: 11/10/15 12:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			409850	11/11/15 09:25	FES	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC6-SD-3-5E — Lab Sample ID: 680-118842-1

Date Collected: 11/09/15 15:37 — **Matrix: Solid**
Date Received: 11/10/15 12:45 — **Percent Solids: 67.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			19.521 g	5 mL	409876	11/11/15 10:03	FES	TAL SAV
Total/NA	Analysis	8260B		1	19.521 g	5 mL	410506	11/16/15 17:44	DJK	TAL SAV
	Instrument ID: CMSL									

Client Sample ID: AOC6-SD-3-10N — Lab Sample ID: 680-118842-2

Date Collected: 11/09/15 15:44 — **Matrix: Solid**
Date Received: 11/10/15 12:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			409850	11/11/15 09:25	FES	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC6-SD-3-10N — Lab Sample ID: 680-118842-2

Date Collected: 11/09/15 15:44 — **Matrix: Solid**
Date Received: 11/10/15 12:45 — **Percent Solids: 72.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12.953 g	5 mL	409876	11/11/15 10:03	FES	TAL SAV
Total/NA	Analysis	8260B		100	12.953 g	5 mL	410506	11/16/15 17:02	DJK	TAL SAV
	Instrument ID: CMSL									

Client Sample ID: AOC6-SD-3-10S — Lab Sample ID: 680-118842-3

Date Collected: 11/09/15 16:00 — **Matrix: Solid**
Date Received: 11/10/15 12:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			409850	11/11/15 09:25	FES	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC6-SD-3-10S — Lab Sample ID: 680-118842-3

Date Collected: 11/09/15 16:00 — **Matrix: Solid**
Date Received: 11/10/15 12:45 — **Percent Solids: 65.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16.828 g	5 mL	409876	11/11/15 10:03	FES	TAL SAV

Lab Chronicle

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

Client Sample ID: AOC6-SD-3-10S — Lab Sample ID: 680-118842-3

Date Collected: 11/09/15 16:00 — **Matrix: Solid**
Date Received: 11/10/15 12:45 — **Percent Solids: 65.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		40	16.828 g	5 mL	410506	11/16/15 17:23	DJK	TAL SAV
	Instrument ID: CMSL									

Client Sample ID: AOC6-SD-3-5W — Lab Sample ID: 680-118842-4

Date Collected: 11/09/15 16:16 — **Matrix: Solid**
Date Received: 11/10/15 12:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			409850	11/11/15 09:25	FES	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC6-SD-3-5W — Lab Sample ID: 680-118842-4

Date Collected: 11/09/15 16:16 — **Matrix: Solid**
Date Received: 11/10/15 12:45 — **Percent Solids: 66.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14.687 g	5 mL	409876	11/11/15 10:03	FES	TAL SAV
Total/NA	Analysis	8260B		100	14.687 g	5 mL	410506	11/16/15 16:19	DJK	TAL SAV
	Instrument ID: CMSL									

Client Sample ID: Equipment Rinsate — Lab Sample ID: 680-118842-5

Date Collected: 11/09/15 16:28 — **Matrix: Water**
Date Received: 11/10/15 12:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	410482	11/16/15 14:03	CEJ	TAL SAV
	Instrument ID: CMSS									

Client Sample ID: Trip Blank — Lab Sample ID: 680-118842-6

Date Collected: 11/09/15 11:17 — **Matrix: Water**
Date Received: 11/10/15 12:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	410482	11/16/15 17:26	CEJ	TAL SAV
	Instrument ID: CMSS									

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 101527

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
MTL- Port Wentworth	460007	GA
TAL (LAB) PROJECT MANAGER: Sheila Hoffman	P.O. NUMBER:	CONTRACT NO:
CLIENT (SITE) PM: Alan Sanders	CLIENT PHONE: 770-772-7100	CLIENT FAX:
CLIENT NAME: EIC	CLIENT E-MAIL: asanders@eicusa.com	
CLIENT ADDRESS: 161 Kimball Bridge Rd Alpharetta, GA 30009		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: 8260B; None, HCl, MeOH, H2O

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
11/9/15	15:37	A0C6-SD-3-5E	G		✓			4	
11/9/15	15:44	A0C6-SD-3-10N	G		✓			4	
11/9/15	16:00	A0C6-SD-3-10S	G		✓			4	
11/9/15	16:16	A0C6-SD-3-5W	G		✓			4	
11/9/15	16:28	Equipment Rinsate	G	✓				3	
11/9/15	11:17	Trip Blank	G	✓				3	

680-118842 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Amelia	11.10.15	12:00						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY. (SIGNATURE)	DATE	TIME
L. E	11.10.15	12:00						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	11-10-15	12:45	YES ○ NO ○			5.4/5.8 CF

11/18/2015

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: McKenzie Tank Lines, Inc

Job Number: 680-118842-1

Login Number: 118842
List Number: 1
Creator: White, Menica R

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: McKenzie Tank Lines, Inc
Project/Site: MTL - Port Wentworth/460007

TestAmerica Job ID: 680-118842-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-16
Arkansas DEQ	State Program	6	88-0692	01-31-16 *
California	State Program	9	2939	07-31-16
Colorado	State Program	8	N/A	12-31-15 *
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-16
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	803	06-30-16
Guam	State Program	9	14-004r	04-16-16
Hawaii	State Program	9	N/A	06-30-16
Illinois	NELAP	5	200022	11-30-15 *
Indiana	State Program	5	N/A	06-30-16
Iowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-15 *
Kentucky (UST)	State Program	4	18	06-30-16
Kentucky (WW)	State Program	4	90084	12-31-15 *
Louisiana	NELAP	6	30690	06-30-16
Louisiana (DW)	NELAP	6	LA150014	12-31-15 *
Maine	State Program	1	GA00006	09-24-16
Maryland	State Program	3	250	12-31-15 *
Massachusetts	State Program	1	M-GA006	06-30-16
Michigan	State Program	5	9925	03-05-16
Mississippi	State Program	4	N/A	06-30-15 *
Montana	State Program	8	CERT0081	12-31-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-16
New Jersey	NELAP	2	GA769	10-31-15 *
New Mexico	State Program	6	N/A	06-30-16
New York	NELAP	2	10842	03-31-16
North Carolina (DW)	State Program	4	13701	07-31-16
North Carolina (WW/SW)	State Program	4	269	12-31-15 *
Oklahoma	State Program	6	9984	08-31-16
Pennsylvania	NELAP	3	68-00474	06-30-16
Puerto Rico	State Program	2	GA00006	12-31-15 *
South Carolina	State Program	4	98001	06-30-15 *
Tennessee	State Program	4	TN02961	06-30-16
Texas	NELAP	6	T104704185-14-7	11-30-15 *
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-16
Washington	State Program	10	C805	06-10-16
West Virginia (DW)	State Program	3	9950C	12-31-15 *
West Virginia DEP	State Program	3	094	06-30-16
Wisconsin	State Program	5	999819810	08-31-16
Wyoming	State Program	8	8TMS-L	06-30-16

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-120732-1
Client Project/Site: MTL - Port Wentworth

For:
Environmental International Corporation
161 Kimball Bridge Road
Suite 100
Alpharetta, Georgia 30009

Attn: Amelia Grant

Authorized for release by:
1/18/2016 3:23:33 PM

Sheila Hoffman, Project Manager II
(912)354-7858 e.3004
sheila.hoffman@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Sample Summary

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-120732-1	AOC4-SB-BLD-NW-15N(4.5-5.0)	Solid	01/07/16 16:20	01/08/16 11:09
680-120732-2	AOC4-SB-C-NW-10E(4.5-5.0)	Solid	01/06/16 17:02	01/08/16 11:09
680-120732-3	AOC6-SD-3-10N-E-Bank(2.5-3.0)	Solid	01/07/16 10:12	01/08/16 11:09
680-120732-4	AOC6-SD-3-10N-W-Bank(1.5-2.0)	Solid	01/07/16 12:07	01/08/16 11:09
680-120732-5	AOC6-SD-3-20W-(2.0-2.5)	Solid	01/07/16 11:40	01/08/16 11:09
680-120732-6	AOC6-SD-3-25N-(1.0-2.0)	Solid	01/07/16 09:27	01/08/16 11:09
680-120732-7	AOC6-SD-3-25N-E-Bank(2.0-2.5)	Solid	01/07/16 10:25	01/08/16 11:09
680-120732-8	AOC6-SD-3-25N-W-Bank(2.0-2.5)	Solid	01/07/16 12:20	01/08/16 11:09
680-120732-9	AOC6-SD-3-55N(1.0-2.0)	Solid	01/07/16 09:50	01/08/16 11:09
680-120732-10	AOC6-SD-3-55N-E-Bank(1.0-2.0)	Solid	01/07/16 10:48	01/08/16 11:09
680-120732-11	AOC6-SD-3-55N-W-Bank(1.0-2.0)	Solid	01/07/16 12:37	01/08/16 11:09
680-120732-12	Equipment Rinsate	Water	01/07/16 17:10	01/08/16 11:09
680-120732-13	Trip Blank	Water	01/06/16 12:00	01/08/16 11:09

Method Summary

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 680-120732-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Environmental International Corporation

Project: MTL - Port Wentworth

Report Number: 680-120732-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT
The samples were received on 01/08/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples AOC4-SB-BLD-NW-15N(4.5-5.0) (680-120732-1), AOC4-SB-C-NW-10E(4.5-5.0) (680-120732-2), AOC6-SD-3-10N-E-Bank(2.5-3.0) (680-120732-3), AOC6-SD-3-10N-W-Bank(1.5-2.0) (680-120732-4), AOC6-SD-3-20W-(2.0-2.5) (680-120732-5), AOC6-SD-3-25N-(1.0-2.0) (680-120732-6), AOC6-SD-3-25N-E-Bank(2.0-2.5) (680-120732-7), AOC6-SD-3-25N-W-Bank(2.0-2.5) (680-120732-8), AOC6-SD-3-55N(1.0-2.0) (680-120732-9), AOC6-SD-3-55N-E-Bank(1.0-2.0) (680-120732-10) and AOC6-SD-3-55N-W-Bank(1.0-2.0) (680-120732-11) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 01/08/2016 and analyzed on 01/13/2016 and 01/14/2016.

Chloroethane exceeded the RPD limit for LCSD 680-418123/5. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples Equipment Rinsate (680-120732-12) and Trip Blank (680-120732-13) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 01/11/2016.

Carbon disulfide and Methylene Chloride failed the recovery criteria high for LCS 680-417650/4. Methylene Chloride failed the recovery criteria high for LCSD 680-417650/5. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS/MOISTURE
Samples AOC4-SB-BLD-NW-15N(4.5-5.0) (680-120732-1), AOC4-SB-C-NW-10E(4.5-5.0) (680-120732-2), AOC6-SD-3-10N-E-Bank(2.5-3.0) (680-120732-3), AOC6-SD-3-10N-W-Bank(1.5-2.0) (680-120732-4), AOC6-SD-3-20W-(2.0-2.5) (680-120732-5), AOC6-SD-3-25N-(1.0-2.0) (680-120732-6), AOC6-SD-3-25N-E-Bank(2.0-2.5) (680-120732-7), AOC6-SD-3-25N-W-Bank(2.0-2.5) (680-120732-8), AOC6-SD-3-55N(1.0-2.0) (680-120732-9), AOC6-SD-3-55N-E-Bank(1.0-2.0) (680-120732-10) and AOC6-SD-3-55N-W-Bank(1.0-2.0) (680-120732-11) were analyzed for Percent Solids/Moisture in accordance with

Job ID: 680-120732-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

TestAmerica SOP. The samples were analyzed on 01/12/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC4-SB-BLD-NW-15N(4.5-5.0) — Lab Sample ID: 680-120732-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	J	29	6.4	ug/Kg	1	☼	8260B	Total/NA
1,1-Dichloroethane	1.1	J	2.9	0.64	ug/Kg	1	☼	8260B	Total/NA
cis-1,2-Dichloroethene	11		2.9	0.82	ug/Kg	1	☼	8260B	Total/NA
Vinyl chloride	2.1	J	2.9	0.88	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: AOC4-SB-C-NW-10E(4.5-5.0) — Lab Sample ID: 680-120732-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	37		26	5.8	ug/Kg	1	☼	8260B	Total/NA
2-Butanone	7.7	J	13	1.3	ug/Kg	1	☼	8260B	Total/NA
Carbon disulfide	2.6		2.6	0.58	ug/Kg	1	☼	8260B	Total/NA
cis-1,2-Dichloroethene	5.7		2.6	0.74	ug/Kg	1	☼	8260B	Total/NA
Vinyl chloride	5.7		2.6	0.79	ug/Kg	1	☼	8260B	Total/NA
Methylcyclohexane	1.6	J	2.6	0.45	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: AOC6-SD-3-10N-E-Bank(2.5-3.0) — Lab Sample ID: 680-120732-3

No Detections.

Client Sample ID: AOC6-SD-3-10N-W-Bank(1.5-2.0) — Lab Sample ID: 680-120732-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7800		2000	560	ug/Kg	1000	☼	8260B	Total/NA
Tetrachloroethene	30000		2000	760	ug/Kg	1000	☼	8260B	Total/NA
Trichloroethene	8200		2000	520	ug/Kg	1000	☼	8260B	Total/NA

Client Sample ID: AOC6-SD-3-20W-(2.0-2.5) — Lab Sample ID: 680-120732-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	27		2.5	0.70	ug/Kg	1	☼	8260B	Total/NA
trans-1,2-Dichloroethene	0.59	J	2.5	0.31	ug/Kg	1	☼	8260B	Total/NA
Tetrachloroethene	65		2.5	0.95	ug/Kg	1	☼	8260B	Total/NA
Trichloroethene	20		2.5	0.65	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: AOC6-SD-3-25N-(1.0-2.0) — Lab Sample ID: 680-120732-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	10000		10000	2900	ug/Kg	5000	☼	8260B	Total/NA
Tetrachloroethene	240000		10000	3900	ug/Kg	5000	☼	8260B	Total/NA
Trichloroethene	16000		10000	2700	ug/Kg	5000	☼	8260B	Total/NA

Client Sample ID: AOC6-SD-3-25N-E-Bank(2.0-2.5) — Lab Sample ID: 680-120732-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	45		36	7.9	ug/Kg	1	☼	8260B	Total/NA
2-Butanone	7.2	J	18	1.7	ug/Kg	1	☼	8260B	Total/NA
cis-1,2-Dichloroethene	3.8		3.6	1.0	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: AOC6-SD-3-25N-W-Bank(2.0-2.5) — Lab Sample ID: 680-120732-8

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC6-SD-3-25N-W-Bank(2.0-2.5) (Continued) — Lab Sample ID: 680-120732-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2900		460	130	ug/Kg	250	☼	8260B	Total/NA
Tetrachloroethene	11000		460	180	ug/Kg	250	☼	8260B	Total/NA
Trichloroethene	1300		460	120	ug/Kg	250	☼	8260B	Total/NA

Client Sample ID: AOC6-SD-3-55N(1.0-2.0) — Lab Sample ID: 680-120732-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	270		110	30	ug/Kg	40	☼	8260B	Total/NA

Client Sample ID: AOC6-SD-3-55N-E-Bank(1.0-2.0) — Lab Sample ID: 680-120732-10

No Detections.

Client Sample ID: AOC6-SD-3-55N-W-Bank(1.0-2.0) — Lab Sample ID: 680-120732-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	58		2.2	0.61	ug/Kg	1	☼	8260B	Total/NA
trans-1,2-Dichloroethene	6.3		2.2	0.27	ug/Kg	1	☼	8260B	Total/NA
Styrene	26		2.2	0.40	ug/Kg	1	☼	8260B	Total/NA
Tetrachloroethene	3.4		2.2	0.82	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: Equipment Rinsate — Lab Sample ID: 680-120732-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.4		1.0	0.48	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 680-120732-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC4-SB-BLD-NW-15N(4.5-5.0)

Date Collected: 01/07/16 16:20
Date Received: 01/08/16 11:09

Lab Sample ID: 680-120732-1
Matrix: Solid
Percent Solids: 84.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**11**	**J**	29	6.4	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Benzene	<0.43		2.9	0.43	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Bromodichloromethane	<0.57		2.9	0.57	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Bromoform	<0.88		2.9	0.88	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Bromomethane	<0.88		2.9	0.88	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
2-Butanone	<1.4		15	1.4	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Carbon disulfide	<0.64		2.9	0.64	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Carbon tetrachloride	<0.48		2.9	0.48	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Chlorobenzene	<0.56		2.9	0.56	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Chloroethane	<1.6		2.9	1.6	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Chloroform	<0.64		2.9	0.64	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Chloromethane	<0.58		2.9	0.58	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Dibromochloromethane	<0.99		2.9	0.99	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
1,2-Dibromo-3-Chloropropane	<2.6		5.8	2.6	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
1,2-Dibromoethane	<0.88		2.9	0.88	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
1,2-Dichlorobenzene	<0.76		2.9	0.76	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
1,3-Dichlorobenzene	<0.93		2.9	0.93	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
1,4-Dichlorobenzene	<0.43		2.9	0.43	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Dichlorodifluoromethane	<0.55		2.9	0.55	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
1,1-Dichloroethane	**1.1**	**J**	2.9	0.64	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
1,2-Dichloroethane	<0.64		2.9	0.64	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
cis-1,2-Dichloroethene	**11**		2.9	0.82	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
trans-1,2-Dichloroethene	<0.37		2.9	0.37	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
1,1-Dichloroethene	<0.88		2.9	0.88	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
1,2-Dichloropropane	<0.50		2.9	0.50	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
cis-1,3-Dichloropropene	<0.48		2.9	0.48	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
trans-1,3-Dichloropropene	<0.51		2.9	0.51	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Ethylbenzene	<0.76		2.9	0.76	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
2-Hexanone	<1.9		15	1.9	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Isopropylbenzene	<1.1		2.9	1.1	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Methylene Chloride	<0.57		2.9	0.57	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
4-Methyl-2-pentanone	<2.5		15	2.5	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Methyl tert-butyl ether	<0.58		2.9	0.58	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Styrene	<0.54		2.9	0.54	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
1,1,2,2-Tetrachloroethane	<0.93		2.9	0.93	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Tetrachloroethene	<1.1		2.9	1.1	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Toluene	<0.49		2.9	0.49	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
1,2,4-Trichlorobenzene	<0.52		2.9	0.52	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
1,1,1-Trichloroethane	<0.34		2.9	0.34	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
1,1,2-Trichloroethane	<0.76		2.9	0.76	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Trichloroethene	<0.76		2.9	0.76	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Trichlorofluoromethane	<0.70		2.9	0.70	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.76		2.9	0.76	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Vinyl chloride	**2.1**	**J**	2.9	0.88	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Xylenes, Total	<0.64		5.8	0.64	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Cyclohexane	<0.76		2.9	0.76	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Methyl acetate	<2.9		15	2.9	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1
Methylcyclohexane	<0.50		2.9	0.50	ug/Kg	☼	01/08/16 13:20	01/13/16 17:19	1

Client Sample Results

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC4-SB-BLD-NW-15N(4.5-5.0)

Lab Sample ID: 680-120732-1
Date Collected: 01/07/16 16:20
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 84.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*	*01/08/16 13:20*	*01/13/16 17:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*70 - 130*	*01/08/16 13:20*	*01/13/16 17:19*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*	*01/08/16 13:20*	*01/13/16 17:19*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/08/16 13:20*	*01/13/16 17:19*	*1*

Client Sample ID: AOC4-SB-C-NW-10E(4.5-5.0)

Lab Sample ID: 680-120732-2
Date Collected: 01/06/16 17:02
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**37**		26	5.8	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Benzene	<0.38		2.6	0.38	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Bromodichloromethane	<0.51		2.6	0.51	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Bromoform	<0.79		2.6	0.79	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Bromomethane	<0.79		2.6	0.79	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
2-Butanone	**7.7**	**J**	13	1.3	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Carbon disulfide	**2.6**		2.6	0.58	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Carbon tetrachloride	<0.44		2.6	0.44	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Chlorobenzene	<0.51		2.6	0.51	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Chloroethane	<1.4		2.6	1.4	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Chloroform	<0.58		2.6	0.58	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Chloromethane	<0.53		2.6	0.53	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Dibromochloromethane	<0.90		2.6	0.90	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
1,2-Dibromo-3-Chloropropane	<2.3		5.3	2.3	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
1,2-Dibromoethane	<0.79		2.6	0.79	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
1,2-Dichlorobenzene	<0.69		2.6	0.69	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
1,3-Dichlorobenzene	<0.84		2.6	0.84	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
1,4-Dichlorobenzene	<0.39		2.6	0.39	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Dichlorodifluoromethane	<0.50		2.6	0.50	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
1,1-Dichloroethane	<0.58		2.6	0.58	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
1,2-Dichloroethane	<0.58		2.6	0.58	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
cis-1,2-Dichloroethene	**5.7**		2.6	0.74	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
trans-1,2-Dichloroethene	<0.33		2.6	0.33	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
1,1-Dichloroethene	<0.79		2.6	0.79	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
1,2-Dichloropropane	<0.45		2.6	0.45	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
cis-1,3-Dichloropropene	<0.44		2.6	0.44	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
trans-1,3-Dichloropropene	<0.46		2.6	0.46	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Ethylbenzene	<0.69		2.6	0.69	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
2-Hexanone	<1.7		13	1.7	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Isopropylbenzene	<1.0		2.6	1.0	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Methylene Chloride	<0.52		2.6	0.52	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
4-Methyl-2-pentanone	<2.2		13	2.2	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Methyl tert-butyl ether	<0.53		2.6	0.53	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Styrene	<0.49		2.6	0.49	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
1,1,2,2-Tetrachloroethane	<0.84		2.6	0.84	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Tetrachloroethene	<1.0		2.6	1.0	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Toluene	<0.44		2.6	0.44	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
1,2,4-Trichlorobenzene	<0.47		2.6	0.47	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
1,1,1-Trichloroethane	<0.31		2.6	0.31	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1

Client Sample ID: AOC4-SB-C-NW-10E(4.5-5.0)

Lab Sample ID: 680-120732-2
Date Collected: 01/06/16 17:02
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.69		2.6	0.69	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Trichloroethene	<0.69		2.6	0.69	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Trichlorofluoromethane	<0.63		2.6	0.63	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.69		2.6	0.69	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Vinyl chloride	**5.7**		2.6	0.79	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Xylenes, Total	<0.58		5.3	0.58	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Cyclohexane	<0.69		2.6	0.69	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Methyl acetate	<2.6		13	2.6	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1
Methylcyclohexane	**1.6**	**J**	2.6	0.45	ug/Kg	☼	01/08/16 13:20	01/13/16 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*	*01/08/16 13:20*	*01/13/16 17:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*01/08/16 13:20*	*01/13/16 17:43*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*	*01/08/16 13:20*	*01/13/16 17:43*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/08/16 13:20*	*01/13/16 17:43*	*1*

Client Sample ID: AOC6-SD-3-10N-E-Bank(2.5-3.0)

Lab Sample ID: 680-120732-3
Date Collected: 01/07/16 10:12
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.2		28	6.2	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Benzene	<0.41		2.8	0.41	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Bromodichloromethane	<0.54		2.8	0.54	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Bromoform	<0.84		2.8	0.84	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Bromomethane	<0.84		2.8	0.84	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
2-Butanone	<1.3		14	1.3	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Carbon disulfide	<0.62		2.8	0.62	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Carbon tetrachloride	<0.47		2.8	0.47	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Chlorobenzene	<0.54		2.8	0.54	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Chloroethane	<1.5		2.8	1.5	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Chloroform	<0.62		2.8	0.62	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Chloromethane	<0.56		2.8	0.56	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Dibromochloromethane	<0.95		2.8	0.95	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
1,2-Dibromo-3-Chloropropane	<2.5		5.6	2.5	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
1,2-Dibromoethane	<0.84		2.8	0.84	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
1,2-Dichlorobenzene	<0.73		2.8	0.73	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
1,3-Dichlorobenzene	<0.90		2.8	0.90	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
1,4-Dichlorobenzene	<0.42		2.8	0.42	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Dichlorodifluoromethane	<0.53		2.8	0.53	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
1,1-Dichloroethane	<0.62		2.8	0.62	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
1,2-Dichloroethane	<0.62		2.8	0.62	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
cis-1,2-Dichloroethene	<0.79		2.8	0.79	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
trans-1,2-Dichloroethene	<0.35		2.8	0.35	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
1,1-Dichloroethene	<0.84		2.8	0.84	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
1,2-Dichloropropane	<0.48		2.8	0.48	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
cis-1,3-Dichloropropene	<0.47		2.8	0.47	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
trans-1,3-Dichloropropene	<0.49		2.8	0.49	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Ethylbenzene	<0.73		2.8	0.73	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1

Client Sample Results

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC6-SD-3-10N-E-Bank(2.5-3.0)

Lab Sample ID: 680-120732-3
Date Collected: 01/07/16 10:12
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<1.9		14	1.9	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Isopropylbenzene	<1.1		2.8	1.1	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Methylene Chloride	<0.55		2.8	0.55	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
4-Methyl-2-pentanone	<2.4		14	2.4	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Methyl tert-butyl ether	<0.56		2.8	0.56	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Styrene	<0.52		2.8	0.52	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
1,1,2,2-Tetrachloroethane	<0.90		2.8	0.90	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Tetrachloroethene	<1.1		2.8	1.1	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Toluene	<0.47		2.8	0.47	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
1,2,4-Trichlorobenzene	<0.50		2.8	0.50	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
1,1,1-Trichloroethane	<0.33		2.8	0.33	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
1,1,2-Trichloroethane	<0.73		2.8	0.73	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Trichloroethene	<0.73		2.8	0.73	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Trichlorofluoromethane	<0.67		2.8	0.67	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.73		2.8	0.73	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Vinyl chloride	<0.84		2.8	0.84	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Xylenes, Total	<0.62		5.6	0.62	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Cyclohexane	<0.73		2.8	0.73	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Methyl acetate	<2.8		14	2.8	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1
Methylcyclohexane	<0.48		2.8	0.48	ug/Kg	☼	01/08/16 13:20	01/13/16 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*	*01/08/16 13:20*	*01/13/16 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*	*01/08/16 13:20*	*01/13/16 18:06*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*	*01/08/16 13:20*	*01/13/16 18:06*	*1*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*01/08/16 13:20*	*01/13/16 18:06*	*1*

Client Sample ID: AOC6-SD-3-10N-W-Bank(1.5-2.0)

Lab Sample ID: 680-120732-4
Date Collected: 01/07/16 12:07
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 84.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<4400		20000	4400	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Benzene	<290		2000	290	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Bromodichloromethane	<390		2000	390	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Bromoform	<600		2000	600	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Bromomethane	<600		2000	600	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
2-Butanone	<960		10000	960	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Carbon disulfide	<440		2000	440	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Carbon tetrachloride	<330		2000	330	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Chlorobenzene	<380		2000	380	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Chloroethane	<1100		2000	1100	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Chloroform	<440		2000	440	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Chloromethane	<400		2000	400	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Dibromochloromethane	<680		2000	680	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
1,2-Dibromo-3-Chloropropane	<1800		4000	1800	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
1,2-Dibromoethane	<600		2000	600	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
1,2-Dichlorobenzene	<520		2000	520	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
1,3-Dichlorobenzene	<640		2000	640	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000

Client Sample Results

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC6-SD-3-10N-W-Bank(1.5-2.0)

Lab Sample ID: 680-120732-4
Date Collected: 01/07/16 12:07
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 84.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<300		2000	300	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Dichlorodifluoromethane	<380		2000	380	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
1,1-Dichloroethane	<440		2000	440	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
1,2-Dichloroethane	<440		2000	440	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
cis-1,2-Dichloroethene	**7800**		2000	560	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
trans-1,2-Dichloroethene	<250		2000	250	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
1,1-Dichloroethene	<600		2000	600	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
1,2-Dichloropropane	<340		2000	340	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
cis-1,3-Dichloropropene	<330		2000	330	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
trans-1,3-Dichloropropene	<350		2000	350	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Ethylbenzene	<520		2000	520	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
2-Hexanone	<1300		10000	1300	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Isopropylbenzene	<760		2000	760	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Methylene Chloride	<390		2000	390	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
4-Methyl-2-pentanone	<1700		10000	1700	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Methyl tert-butyl ether	<400		2000	400	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Styrene	<370		2000	370	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
1,1,2,2-Tetrachloroethane	<640		2000	640	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Tetrachloroethene	**30000**		2000	760	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Toluene	<340		2000	340	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
1,2,4-Trichlorobenzene	<360		2000	360	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
1,1,1-Trichloroethane	<240		2000	240	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
1,1,2-Trichloroethane	<520		2000	520	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Trichloroethene	**8200**		2000	520	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Trichlorofluoromethane	<480		2000	480	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
1,1,2-Trichloro-1,2,2-trifluoroethane	<520		2000	520	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Vinyl chloride	<600		2000	600	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Xylenes, Total	<440		4000	440	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Cyclohexane	<520		2000	520	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Methyl acetate	<2000		10000	2000	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000
Methylcyclohexane	<340		2000	340	ug/Kg	☼	01/08/16 13:20	01/14/16 16:50	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*70 - 130*	*01/08/16 13:20*	*01/14/16 16:50*	*1000*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*	*01/08/16 13:20*	*01/14/16 16:50*	*1000*
Dibromofluoromethane (Surr)	*85*		*70 - 130*	*01/08/16 13:20*	*01/14/16 16:50*	*1000*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*01/08/16 13:20*	*01/14/16 16:50*	*1000*

Client Sample ID: AOC6-SD-3-20W-(2.0-2.5)

Lab Sample ID: 680-120732-5
Date Collected: 01/07/16 11:40
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.5		25	5.5	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Benzene	<0.36		2.5	0.36	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Bromodichloromethane	<0.48		2.5	0.48	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Bromoform	<0.75		2.5	0.75	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Bromomethane	<0.75		2.5	0.75	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
2-Butanone	<1.2		12	1.2	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1

Client Sample Results

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC6-SD-3-20W-(2.0-2.5)

Date Collected: 01/07/16 11:40
Date Received: 01/08/16 11:09

Lab Sample ID: 680-120732-5

Matrix: Solid
Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<0.55		2.5	0.55	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Carbon tetrachloride	<0.41		2.5	0.41	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Chlorobenzene	<0.48		2.5	0.48	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Chloroethane	<1.3	*	2.5	1.3	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Chloroform	<0.55		2.5	0.55	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Chloromethane	<0.50		2.5	0.50	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Dibromochloromethane	<0.85		2.5	0.85	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
1,2-Dibromo-3-Chloropropane	<2.2		5.0	2.2	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
1,2-Dibromoethane	<0.75		2.5	0.75	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
1,2-Dichlorobenzene	<0.65		2.5	0.65	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
1,3-Dichlorobenzene	<0.80		2.5	0.80	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
1,4-Dichlorobenzene	<0.37		2.5	0.37	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Dichlorodifluoromethane	<0.47		2.5	0.47	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
1,1-Dichloroethane	<0.55		2.5	0.55	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
1,2-Dichloroethane	<0.55		2.5	0.55	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
cis-1,2-Dichloroethene	**27**		2.5	0.70	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
trans-1,2-Dichloroethene	**0.59**	**J**	2.5	0.31	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
1,1-Dichloroethene	<0.75		2.5	0.75	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
1,2-Dichloropropane	<0.43		2.5	0.43	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
cis-1,3-Dichloropropene	<0.41		2.5	0.41	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
trans-1,3-Dichloropropene	<0.43		2.5	0.43	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Ethylbenzene	<0.65		2.5	0.65	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
2-Hexanone	<1.6		12	1.6	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Isopropylbenzene	<0.95		2.5	0.95	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Methylene Chloride	<0.49		2.5	0.49	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
4-Methyl-2-pentanone	<2.1		12	2.1	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Methyl tert-butyl ether	<0.50		2.5	0.50	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Styrene	<0.46		2.5	0.46	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
1,1,2,2-Tetrachloroethane	<0.80		2.5	0.80	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Tetrachloroethene	**65**		2.5	0.95	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Toluene	<0.42		2.5	0.42	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
1,2,4-Trichlorobenzene	<0.44		2.5	0.44	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
1,1,1-Trichloroethane	<0.29		2.5	0.29	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
1,1,2-Trichloroethane	<0.65		2.5	0.65	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Trichloroethene	**20**		2.5	0.65	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Trichlorofluoromethane	<0.60		2.5	0.60	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.65		2.5	0.65	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Vinyl chloride	<0.75		2.5	0.75	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Xylenes, Total	<0.55		5.0	0.55	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Cyclohexane	<0.65		2.5	0.65	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Methyl acetate	<2.5		12	2.5	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1
Methylcyclohexane	<0.43		2.5	0.43	ug/Kg	☼	01/08/16 13:20	01/14/16 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*	*01/08/16 13:20*	*01/14/16 16:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*70 - 130*	*01/08/16 13:20*	*01/14/16 16:03*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*	*01/08/16 13:20*	*01/14/16 16:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/08/16 13:20*	*01/14/16 16:03*	*1*

Client Sample Results

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC6-SD-3-25N-(1.0-2.0)

Date Collected: 01/07/16 09:27
Date Received: 01/08/16 11:09

Lab Sample ID: 680-120732-6

Matrix: Solid
Percent Solids: 79.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23000		100000	23000	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Benzene	<1500		10000	1500	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Bromodichloromethane	<2000		10000	2000	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Bromoform	<3100		10000	3100	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Bromomethane	<3100		10000	3100	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
2-Butanone	<4900		51000	4900	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Carbon disulfide	<2300		10000	2300	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Carbon tetrachloride	<1700		10000	1700	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Chlorobenzene	<2000		10000	2000	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Chloroethane	<5600		10000	5600	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Chloroform	<2300		10000	2300	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Chloromethane	<2100		10000	2100	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Dibromochloromethane	<3500		10000	3500	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
1,2-Dibromo-3-Chloropropane	<9100		21000	9100	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
1,2-Dibromoethane	<3100		10000	3100	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
1,2-Dichlorobenzene	<2700		10000	2700	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
1,3-Dichlorobenzene	<3300		10000	3300	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
1,4-Dichlorobenzene	<1500		10000	1500	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Dichlorodifluoromethane	<1900		10000	1900	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
1,1-Dichloroethane	<2300		10000	2300	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
1,2-Dichloroethane	<2300		10000	2300	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
cis-1,2-Dichloroethene	**10000**		10000	2900	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
trans-1,2-Dichloroethene	<1300		10000	1300	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
1,1-Dichloroethene	<3100		10000	3100	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
1,2-Dichloropropane	<1800		10000	1800	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
cis-1,3-Dichloropropene	<1700		10000	1700	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
trans-1,3-Dichloropropene	<1800		10000	1800	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Ethylbenzene	<2700		10000	2700	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
2-Hexanone	<6800		51000	6800	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Isopropylbenzene	<3900		10000	3900	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Methylene Chloride	<2000		10000	2000	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
4-Methyl-2-pentanone	<8600		51000	8600	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Methyl tert-butyl ether	<2100		10000	2100	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Styrene	<1900		10000	1900	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
1,1,2,2-Tetrachloroethane	<3300		10000	3300	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Tetrachloroethene	**240000**		10000	3900	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Toluene	<1700		10000	1700	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
1,2,4-Trichlorobenzene	<1800		10000	1800	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
1,1,1-Trichloroethane	<1200		10000	1200	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
1,1,2-Trichloroethane	<2700		10000	2700	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Trichloroethene	**16000**		10000	2700	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Trichlorofluoromethane	<2500		10000	2500	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
1,1,2-Trichloro-1,2,2-trifluoroethane	<2700		10000	2700	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Vinyl chloride	<3100		10000	3100	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Xylenes, Total	<2300		21000	2300	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Cyclohexane	<2700		10000	2700	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Methyl acetate	<10000		51000	10000	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000
Methylcyclohexane	<1800		10000	1800	ug/Kg	☼	01/08/16 13:20	01/14/16 17:13	5000

Client Sample Results

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC6-SD-3-25N-(1.0-2.0)

Lab Sample ID: 680-120732-6
Date Collected: 01/07/16 09:27
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 79.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*70 - 130*	*01/08/16 13:20*	*01/14/16 17:13*	*5000*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*	*01/08/16 13:20*	*01/14/16 17:13*	*5000*
Dibromofluoromethane (Surr)	*85*		*70 - 130*	*01/08/16 13:20*	*01/14/16 17:13*	*5000*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*01/08/16 13:20*	*01/14/16 17:13*	*5000*

Client Sample ID: AOC6-SD-3-25N-E-Bank(2.0-2.5)

Lab Sample ID: 680-120732-7
Date Collected: 01/07/16 10:25
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 79.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**45**		36	7.9	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Benzene	<0.53		3.6	0.53	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Bromodichloromethane	<0.70		3.6	0.70	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Bromoform	<1.1		3.6	1.1	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Bromomethane	<1.1		3.6	1.1	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
2-Butanone	**7.2**	**J**	18	1.7	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Carbon disulfide	<0.79		3.6	0.79	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Carbon tetrachloride	<0.60		3.6	0.60	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Chlorobenzene	<0.69		3.6	0.69	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Chloroethane	<1.9	*	3.6	1.9	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Chloroform	<0.79		3.6	0.79	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Chloromethane	<0.72		3.6	0.72	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Dibromochloromethane	<1.2		3.6	1.2	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
1,2-Dibromo-3-Chloropropane	<3.2		7.2	3.2	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
1,2-Dibromoethane	<1.1		3.6	1.1	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
1,2-Dichlorobenzene	<0.94		3.6	0.94	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
1,3-Dichlorobenzene	<1.2		3.6	1.2	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
1,4-Dichlorobenzene	<0.53		3.6	0.53	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Dichlorodifluoromethane	<0.68		3.6	0.68	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
1,1-Dichloroethane	<0.79		3.6	0.79	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
1,2-Dichloroethane	<0.79		3.6	0.79	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
cis-1,2-Dichloroethene	**3.8**		3.6	1.0	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
trans-1,2-Dichloroethene	<0.45		3.6	0.45	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
1,1-Dichloroethene	<1.1		3.6	1.1	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
1,2-Dichloropropane	<0.62		3.6	0.62	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
cis-1,3-Dichloropropene	<0.60		3.6	0.60	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
trans-1,3-Dichloropropene	<0.63		3.6	0.63	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Ethylbenzene	<0.94		3.6	0.94	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
2-Hexanone	<2.4		18	2.4	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Isopropylbenzene	<1.4		3.6	1.4	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Methylene Chloride	<0.71		3.6	0.71	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
4-Methyl-2-pentanone	<3.0		18	3.0	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Methyl tert-butyl ether	<0.72		3.6	0.72	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Styrene	<0.67		3.6	0.67	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
1,1,2,2-Tetrachloroethane	<1.2		3.6	1.2	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Tetrachloroethene	<1.4		3.6	1.4	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Toluene	<0.61		3.6	0.61	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
1,2,4-Trichlorobenzene	<0.64		3.6	0.64	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
1,1,1-Trichloroethane	<0.43		3.6	0.43	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1

Client Sample Results

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC6-SD-3-25N-E-Bank(2.0-2.5)

Lab Sample ID: 680-120732-7
Date Collected: 01/07/16 10:25
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 79.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.94		3.6	0.94	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Trichloroethene	<0.94		3.6	0.94	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Trichlorofluoromethane	<0.87		3.6	0.87	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.94		3.6	0.94	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Vinyl chloride	<1.1		3.6	1.1	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Xylenes, Total	<0.79		7.2	0.79	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Cyclohexane	<0.94		3.6	0.94	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Methyl acetate	<3.6		18	3.6	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1
Methylcyclohexane	<0.62		3.6	0.62	ug/Kg	☼	01/08/16 13:20	01/14/16 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*70 - 130*	*01/08/16 13:20*	*01/14/16 16:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*76*		*70 - 130*	*01/08/16 13:20*	*01/14/16 16:26*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*	*01/08/16 13:20*	*01/14/16 16:26*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*01/08/16 13:20*	*01/14/16 16:26*	*1*

Client Sample ID: AOC6-SD-3-25N-W-Bank(2.0-2.5)

Lab Sample ID: 680-120732-8
Date Collected: 01/07/16 12:20
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1000		4600	1000	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Benzene	<68		460	68	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Bromodichloromethane	<90		460	90	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Bromoform	<140		460	140	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Bromomethane	<140		460	140	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
2-Butanone	<220		2300	220	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Carbon disulfide	<100		460	100	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Carbon tetrachloride	<77		460	77	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Chlorobenzene	<89		460	89	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Chloroethane	<250		460	250	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Chloroform	<100		460	100	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Chloromethane	<93		460	93	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Dibromochloromethane	<160		460	160	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
1,2-Dibromo-3-Chloropropane	<410		930	410	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
1,2-Dibromoethane	<140		460	140	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
1,2-Dichlorobenzene	<120		460	120	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
1,3-Dichlorobenzene	<150		460	150	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
1,4-Dichlorobenzene	<69		460	69	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Dichlorodifluoromethane	<87		460	87	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
1,1-Dichloroethane	<100		460	100	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
1,2-Dichloroethane	<100		460	100	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
cis-1,2-Dichloroethene	**2900**		460	130	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
trans-1,2-Dichloroethene	<58		460	58	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
1,1-Dichloroethene	<140		460	140	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
1,2-Dichloropropane	<80		460	80	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
cis-1,3-Dichloropropene	<77		460	77	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
trans-1,3-Dichloropropene	<81		460	81	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Ethylbenzene	<120		460	120	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250

Client Sample ID: AOC6-SD-3-25N-W-Bank(2.0-2.5)

Lab Sample ID: 680-120732-8
Date Collected: 01/07/16 12:20
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 87.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<310		2300	310	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Isopropylbenzene	<180		460	180	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Methylene Chloride	<91		460	91	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
4-Methyl-2-pentanone	<390		2300	390	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Methyl tert-butyl ether	<93		460	93	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Styrene	<86		460	86	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
1,1,2,2-Tetrachloroethane	<150		460	150	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Tetrachloroethene	**11000**		460	180	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Toluene	<78		460	78	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
1,2,4-Trichlorobenzene	<82		460	82	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
1,1,1-Trichloroethane	<55		460	55	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
1,1,2-Trichloroethane	<120		460	120	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Trichloroethene	**1300**		460	120	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Trichlorofluoromethane	<110		460	110	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
1,1,2-Trichloro-1,2,2-trifluoroethane	<120		460	120	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Vinyl chloride	<140		460	140	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Xylenes, Total	<100		930	100	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Cyclohexane	<120		460	120	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Methyl acetate	<460		2300	460	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250
Methylcyclohexane	<80		460	80	ug/Kg	☼	01/08/16 13:20	01/14/16 18:53	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*70 - 130*	*01/08/16 13:20*	*01/14/16 18:53*	*250*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*	*01/08/16 13:20*	*01/14/16 18:53*	*250*
Dibromofluoromethane (Surr)	*84*		*70 - 130*	*01/08/16 13:20*	*01/14/16 18:53*	*250*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*01/08/16 13:20*	*01/14/16 18:53*	*250*

Client Sample ID: AOC6-SD-3-55N(1.0-2.0)

Lab Sample ID: 680-120732-9
Date Collected: 01/07/16 09:50
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<230		1100	230	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Benzene	<15		110	15	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Bromodichloromethane	<21		110	21	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Bromoform	<32		110	32	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Bromomethane	<32		110	32	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
2-Butanone	<51		530	51	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Carbon disulfide	<23		110	23	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Carbon tetrachloride	<18		110	18	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Chlorobenzene	<20		110	20	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Chloroethane	<57		110	57	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Chloroform	<23		110	23	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Chloromethane	<21		110	21	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Dibromochloromethane	<36		110	36	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
1,2-Dibromo-3-Chloropropane	<93		210	93	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
1,2-Dibromoethane	<32		110	32	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
1,2-Dichlorobenzene	<27		110	27	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
1,3-Dichlorobenzene	<34		110	34	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40

Client Sample Results

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC6-SD-3-55N(1.0-2.0)

Lab Sample ID: 680-120732-9
Date Collected: 01/07/16 09:50
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<16		110	16	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Dichlorodifluoromethane	<20		110	20	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
1,1-Dichloroethane	<23		110	23	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
1,2-Dichloroethane	<23		110	23	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
cis-1,2-Dichloroethene	**270**		110	30	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
trans-1,2-Dichloroethene	<13		110	13	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
1,1-Dichloroethene	<32		110	32	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
1,2-Dichloropropane	<18		110	18	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
cis-1,3-Dichloropropene	<18		110	18	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
trans-1,3-Dichloropropene	<18		110	18	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Ethylbenzene	<27		110	27	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
2-Hexanone	<70		530	70	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Isopropylbenzene	<40		110	40	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Methylene Chloride	<21		110	21	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
4-Methyl-2-pentanone	<89		530	89	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Methyl tert-butyl ether	<21		110	21	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Styrene	<20		110	20	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
1,1,2,2-Tetrachloroethane	<34		110	34	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Tetrachloroethene	<40		110	40	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Toluene	<18		110	18	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
1,2,4-Trichlorobenzene	<19		110	19	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
1,1,1-Trichloroethane	<12		110	12	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
1,1,2-Trichloroethane	<27		110	27	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Trichloroethene	<27		110	27	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Trichlorofluoromethane	<25		110	25	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
1,1,2-Trichloro-1,2,2-trifluoroethane	<27		110	27	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Vinyl chloride	<32		110	32	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Xylenes, Total	<23		210	23	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Cyclohexane	<27		110	27	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Methyl acetate	<110		530	110	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40
Methylcyclohexane	<18		110	18	ug/Kg	☼	01/08/16 13:20	01/14/16 20:28	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*	*01/08/16 13:20*	*01/14/16 20:28*	*40*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*	*01/08/16 13:20*	*01/14/16 20:28*	*40*
Dibromofluoromethane (Surr)	*87*		*70 - 130*	*01/08/16 13:20*	*01/14/16 20:28*	*40*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*01/08/16 13:20*	*01/14/16 20:28*	*40*

Client Sample ID: AOC6-SD-3-55N-E-Bank(1.0-2.0)

Lab Sample ID: 680-120732-10
Date Collected: 01/07/16 10:48
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 82.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		45	10	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Benzene	<0.66		4.5	0.66	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Bromodichloromethane	<0.88		4.5	0.88	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Bromoform	<1.4		4.5	1.4	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Bromomethane	<1.4		4.5	1.4	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
2-Butanone	<2.2		23	2.2	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1

Client Sample Results

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC6-SD-3-55N-E-Bank(1.0-2.0)

Lab Sample ID: 680-120732-10

Date Collected: 01/07/16 10:48
Date Received: 01/08/16 11:09

Matrix: Solid
Percent Solids: 82.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.0		4.5	1.0	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Carbon tetrachloride	<0.75		4.5	0.75	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Chlorobenzene	<0.87		4.5	0.87	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Chloroethane	<2.4	*	4.5	2.4	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Chloroform	<1.0		4.5	1.0	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Chloromethane	<0.91		4.5	0.91	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Dibromochloromethane	<1.5		4.5	1.5	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
1,2-Dibromo-3-Chloropropane	<4.0		9.1	4.0	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
1,2-Dibromoethane	<1.4		4.5	1.4	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
1,2-Dichlorobenzene	<1.2		4.5	1.2	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
1,3-Dichlorobenzene	<1.4		4.5	1.4	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
1,4-Dichlorobenzene	<0.67		4.5	0.67	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Dichlorodifluoromethane	<0.85		4.5	0.85	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
1,1-Dichloroethane	<1.0		4.5	1.0	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
1,2-Dichloroethane	<1.0		4.5	1.0	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
cis-1,2-Dichloroethene	<1.3		4.5	1.3	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
trans-1,2-Dichloroethene	<0.57		4.5	0.57	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
1,1-Dichloroethene	<1.4		4.5	1.4	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
1,2-Dichloropropane	<0.78		4.5	0.78	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
cis-1,3-Dichloropropene	<0.75		4.5	0.75	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
trans-1,3-Dichloropropene	<0.79		4.5	0.79	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Ethylbenzene	<1.2		4.5	1.2	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
2-Hexanone	<3.0		23	3.0	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Isopropylbenzene	<1.7		4.5	1.7	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Methylene Chloride	<0.89		4.5	0.89	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
4-Methyl-2-pentanone	<3.8		23	3.8	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Methyl tert-butyl ether	<0.91		4.5	0.91	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Styrene	<0.84		4.5	0.84	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
1,1,2,2-Tetrachloroethane	<1.4		4.5	1.4	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Tetrachloroethene	<1.7		4.5	1.7	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Toluene	<0.76		4.5	0.76	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
1,2,4-Trichlorobenzene	<0.81		4.5	0.81	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
1,1,1-Trichloroethane	<0.53		4.5	0.53	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
1,1,2-Trichloroethane	<1.2		4.5	1.2	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Trichloroethene	<1.2		4.5	1.2	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Trichlorofluoromethane	<1.1		4.5	1.1	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.2		4.5	1.2	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Vinyl chloride	<1.4		4.5	1.4	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Xylenes, Total	<1.0		9.1	1.0	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Cyclohexane	<1.2		4.5	1.2	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Methyl acetate	<4.5		23	4.5	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1
Methylcyclohexane	<0.78		4.5	0.78	ug/Kg	☼	01/08/16 13:20	01/14/16 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*	*01/08/16 13:20*	*01/14/16 20:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*75*		*70 - 130*	*01/08/16 13:20*	*01/14/16 20:04*	*1*
Dibromofluoromethane (Surr)	*86*		*70 - 130*	*01/08/16 13:20*	*01/14/16 20:04*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/08/16 13:20*	*01/14/16 20:04*	*1*

Client Sample Results

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC6-SD-3-55N-W-Bank(1.0-2.0)

Lab Sample ID: 680-120732-11

Date Collected: 01/07/16 12:37
Date Received: 01/08/16 11:09

Matrix: Solid
Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<4.8		22	4.8	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Benzene	<0.32		2.2	0.32	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Bromodichloromethane	<0.42		2.2	0.42	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Bromoform	<0.65		2.2	0.65	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Bromomethane	<0.65		2.2	0.65	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
2-Butanone	<1.0		11	1.0	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Carbon disulfide	<0.48		2.2	0.48	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Carbon tetrachloride	<0.36		2.2	0.36	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Chlorobenzene	<0.42		2.2	0.42	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Chloroethane	<1.2	*	2.2	1.2	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Chloroform	<0.48		2.2	0.48	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Chloromethane	<0.43		2.2	0.43	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Dibromochloromethane	<0.74		2.2	0.74	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
1,2-Dibromo-3-Chloropropane	<1.9		4.3	1.9	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
1,2-Dibromoethane	<0.65		2.2	0.65	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
1,2-Dichlorobenzene	<0.56		2.2	0.56	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
1,3-Dichlorobenzene	<0.69		2.2	0.69	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
1,4-Dichlorobenzene	<0.32		2.2	0.32	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Dichlorodifluoromethane	<0.41		2.2	0.41	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
1,1-Dichloroethane	<0.48		2.2	0.48	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
1,2-Dichloroethane	<0.48		2.2	0.48	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
cis-1,2-Dichloroethene	**58**		2.2	0.61	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
trans-1,2-Dichloroethene	**6.3**		2.2	0.27	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
1,1-Dichloroethene	<0.65		2.2	0.65	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
1,2-Dichloropropane	<0.37		2.2	0.37	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
cis-1,3-Dichloropropene	<0.36		2.2	0.36	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
trans-1,3-Dichloropropene	<0.38		2.2	0.38	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Ethylbenzene	<0.56		2.2	0.56	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
2-Hexanone	<1.4		11	1.4	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Isopropylbenzene	<0.82		2.2	0.82	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Methylene Chloride	<0.42		2.2	0.42	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
4-Methyl-2-pentanone	<1.8		11	1.8	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Methyl tert-butyl ether	<0.43		2.2	0.43	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Styrene	**26**		2.2	0.40	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
1,1,2,2-Tetrachloroethane	<0.69		2.2	0.69	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Tetrachloroethene	**3.4**		2.2	0.82	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Toluene	<0.36		2.2	0.36	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
1,2,4-Trichlorobenzene	<0.39		2.2	0.39	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
1,1,1-Trichloroethane	<0.26		2.2	0.26	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
1,1,2-Trichloroethane	<0.56		2.2	0.56	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Trichloroethene	<0.56		2.2	0.56	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Trichlorofluoromethane	<0.52		2.2	0.52	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.56		2.2	0.56	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Vinyl chloride	<0.65		2.2	0.65	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Xylenes, Total	<0.48		4.3	0.48	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Cyclohexane	<0.56		2.2	0.56	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Methyl acetate	<2.2		11	2.2	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1
Methylcyclohexane	<0.37		2.2	0.37	ug/Kg	☼	01/08/16 13:20	01/14/16 19:41	1

Client Sample Results

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC6-SD-3-55N-W-Bank(1.0-2.0)

Lab Sample ID: 680-120732-11

Date Collected: 01/07/16 12:37
Date Received: 01/08/16 11:09

Matrix: Solid
Percent Solids: 86.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*	*01/08/16 13:20*	*01/14/16 19:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*	*01/08/16 13:20*	*01/14/16 19:41*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*	*01/08/16 13:20*	*01/14/16 19:41*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/08/16 13:20*	*01/14/16 19:41*	*1*

Client Sample ID: Equipment Rinsate

Lab Sample ID: 680-120732-12

Date Collected: 01/07/16 17:10
Date Received: 01/08/16 11:09

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			01/11/16 11:19	1
Chloromethane	<0.40		1.0	0.40	ug/L			01/11/16 11:19	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			01/11/16 11:19	1
Bromomethane	<2.5		5.0	2.5	ug/L			01/11/16 11:19	1
Chloroethane	<2.5		5.0	2.5	ug/L			01/11/16 11:19	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			01/11/16 11:19	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			01/11/16 11:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			01/11/16 11:19	1
Acetone	<7.0		10	7.0	ug/L			01/11/16 11:19	1
Carbon disulfide	<1.0	*	2.0	1.0	ug/L			01/11/16 11:19	1
Methyl acetate	<1.8		5.0	1.8	ug/L			01/11/16 11:19	1
Methylene Chloride	<2.5	*	5.0	2.5	ug/L			01/11/16 11:19	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			01/11/16 11:19	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			01/11/16 11:19	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			01/11/16 11:19	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/11/16 11:19	1
2-Butanone	<3.4		10	3.4	ug/L			01/11/16 11:19	1
Chloroform	<0.50		1.0	0.50	ug/L			01/11/16 11:19	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			01/11/16 11:19	1
Cyclohexane	<0.39		1.0	0.39	ug/L			01/11/16 11:19	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			01/11/16 11:19	1
Benzene	<0.43		1.0	0.43	ug/L			01/11/16 11:19	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			01/11/16 11:19	1
Trichloroethene	<0.48		1.0	0.48	ug/L			01/11/16 11:19	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			01/11/16 11:19	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			01/11/16 11:19	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			01/11/16 11:19	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			01/11/16 11:19	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			01/11/16 11:19	1
Toluene	**2.4**		1.0	0.48	ug/L			01/11/16 11:19	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/11/16 11:19	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			01/11/16 11:19	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			01/11/16 11:19	1
2-Hexanone	<2.0		10	2.0	ug/L			01/11/16 11:19	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			01/11/16 11:19	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			01/11/16 11:19	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			01/11/16 11:19	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			01/11/16 11:19	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			01/11/16 11:19	1

Client Sample ID: Equipment Rinsate

Lab Sample ID: 680-120732-12

Date Collected: 01/07/16 17:10

Matrix: Water

Date Received: 01/08/16 11:09

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.27		1.0	0.27	ug/L			01/11/16 11:19	1
Bromoform	<0.43		1.0	0.43	ug/L			01/11/16 11:19	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			01/11/16 11:19	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			01/11/16 11:19	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			01/11/16 11:19	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			01/11/16 11:19	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			01/11/16 11:19	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			01/11/16 11:19	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			01/11/16 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*01/11/16 11:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*01/11/16 11:19*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*01/11/16 11:19*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*01/11/16 11:19*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 680-120732-13

Date Collected: 01/06/16 12:00

Matrix: Water

Date Received: 01/08/16 11:09

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			01/11/16 10:58	1
Chloromethane	<0.40		1.0	0.40	ug/L			01/11/16 10:58	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			01/11/16 10:58	1
Bromomethane	<2.5		5.0	2.5	ug/L			01/11/16 10:58	1
Chloroethane	<2.5		5.0	2.5	ug/L			01/11/16 10:58	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			01/11/16 10:58	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			01/11/16 10:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			01/11/16 10:58	1
Acetone	<7.0		10	7.0	ug/L			01/11/16 10:58	1
Carbon disulfide	<1.0	*	2.0	1.0	ug/L			01/11/16 10:58	1
Methyl acetate	<1.8		5.0	1.8	ug/L			01/11/16 10:58	1
Methylene Chloride	<2.5	*	5.0	2.5	ug/L			01/11/16 10:58	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			01/11/16 10:58	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			01/11/16 10:58	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			01/11/16 10:58	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/11/16 10:58	1
2-Butanone	<3.4		10	3.4	ug/L			01/11/16 10:58	1
Chloroform	<0.50		1.0	0.50	ug/L			01/11/16 10:58	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			01/11/16 10:58	1
Cyclohexane	<0.39		1.0	0.39	ug/L			01/11/16 10:58	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			01/11/16 10:58	1
Benzene	<0.43		1.0	0.43	ug/L			01/11/16 10:58	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			01/11/16 10:58	1
Trichloroethene	<0.48		1.0	0.48	ug/L			01/11/16 10:58	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			01/11/16 10:58	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			01/11/16 10:58	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			01/11/16 10:58	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			01/11/16 10:58	1

Client Sample Results

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: Trip Blank

Lab Sample ID: 680-120732-13

Date Collected: 01/06/16 12:00
Matrix: Water
Date Received: 01/08/16 11:09

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			01/11/16 10:58	1
Toluene	<0.48		1.0	0.48	ug/L			01/11/16 10:58	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/11/16 10:58	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			01/11/16 10:58	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			01/11/16 10:58	1
2-Hexanone	<2.0		10	2.0	ug/L			01/11/16 10:58	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			01/11/16 10:58	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			01/11/16 10:58	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			01/11/16 10:58	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			01/11/16 10:58	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			01/11/16 10:58	1
Styrene	<0.27		1.0	0.27	ug/L			01/11/16 10:58	1
Bromoform	<0.43		1.0	0.43	ug/L			01/11/16 10:58	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			01/11/16 10:58	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			01/11/16 10:58	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			01/11/16 10:58	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			01/11/16 10:58	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			01/11/16 10:58	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			01/11/16 10:58	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			01/11/16 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*01/11/16 10:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*01/11/16 10:58*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*01/11/16 10:58*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*01/11/16 10:58*	*1*

Surrogate Summary

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
680-120732-1	AOC4-SB-BLD-NW-15N(4.5-5.0	95	79	92	97
680-120732-2	AOC4-SB-C-NW-10E(4.5-5.0)	102	91	93	99
680-120732-3	AOC6-SD-3-10N-E-Bank(2.5-3.0)	97	84	92	85
680-120732-4	AOC6-SD-3-10N-W-Bank(1.5-2.0)	89	84	85	88
680-120732-5	AOC6-SD-3-20W-(2.0-2.5)	94	78	88	97
680-120732-6	AOC6-SD-3-25N-(1.0-2.0)	92	84	85	87
680-120732-7	AOC6-SD-3-25N-E-Bank(2.0-2.5)	90	76	88	90
680-120732-8	AOC6-SD-3-25N-W-Bank(2.0-2.5)	89	82	84	80
680-120732-9	AOC6-SD-3-55N(1.0-2.0)	93	82	87	88
680-120732-10	AOC6-SD-3-55N-E-Bank(1.0-2.0)	98	75	86	97
680-120732-11	AOC6-SD-3-55N-W-Bank(1.0-2.0)	94	86	92	103
LCS 680-417977/4	Lab Control Sample	106	92	98	91
LCS 680-418123/4	Lab Control Sample	101	93	97	94
LCS 680-418123/6	Lab Control Sample	124	117	123	108
LCSD 680-417977/5	Lab Control Sample Dup	108	99	106	92
LCSD 680-418123/5	Lab Control Sample Dup	109	89	91	90
LCSD 680-418123/7	Lab Control Sample Dup	117	113	115	121
MB 680-417977/9	Method Blank	91	84	86	85
MB 680-418123/10	Method Blank	93	83	83	90
MB 680-418123/9	Method Blank	100	88	88	86

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
680-120732-12	Equipment Rinsate	102	106	103	99
680-120732-13	Trip Blank	99	105	102	102
LCS 680-417650/4	Lab Control Sample	110	107	105	97
LCSD 680-417650/5	Lab Control Sample Dup	109	108	104	98
MB 680-417650/9	Method Blank	100	103	101	101

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-417650/9
Matrix: Water
Analysis Batch: 417650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<2.5		5.0	2.5	ug/L			01/11/16 09:37	1
Acetone	<7.0		10	7.0	ug/L			01/11/16 09:37	1
Carbon disulfide	<1.0		2.0	1.0	ug/L			01/11/16 09:37	1
Chloroethane	<2.5		5.0	2.5	ug/L			01/11/16 09:37	1
Chloromethane	<0.40		1.0	0.40	ug/L			01/11/16 09:37	1
2-Butanone	<3.4		10	3.4	ug/L			01/11/16 09:37	1
Chloroform	<0.50		1.0	0.50	ug/L			01/11/16 09:37	1
Dichlorodifluoromethane	<0.60		1.0	0.60	ug/L			01/11/16 09:37	1
1,1-Dichloroethane	<0.38		1.0	0.38	ug/L			01/11/16 09:37	1
Carbon tetrachloride	<0.33		1.0	0.33	ug/L			01/11/16 09:37	1
Benzene	<0.43		1.0	0.43	ug/L			01/11/16 09:37	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			01/11/16 09:37	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			01/11/16 09:37	1
trans-1,2-Dichloroethene	<0.37		1.0	0.37	ug/L			01/11/16 09:37	1
1,1-Dichloroethene	<0.36		1.0	0.36	ug/L			01/11/16 09:37	1
1,2-Dichloropropane	<0.67		1.0	0.67	ug/L			01/11/16 09:37	1
Bromodichloromethane	<0.44		1.0	0.44	ug/L			01/11/16 09:37	1
cis-1,3-Dichloropropene	<0.40		1.0	0.40	ug/L			01/11/16 09:37	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			01/11/16 09:37	1
trans-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			01/11/16 09:37	1
4-Methyl-2-pentanone	<2.1		10	2.1	ug/L			01/11/16 09:37	1
Methyl tert-butyl ether	<0.30		10	0.30	ug/L			01/11/16 09:37	1
2-Hexanone	<2.0		10	2.0	ug/L			01/11/16 09:37	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			01/11/16 09:37	1
1,2-Dibromoethane	<0.44		1.0	0.44	ug/L			01/11/16 09:37	1
Tetrachloroethene	<0.74		1.0	0.74	ug/L			01/11/16 09:37	1
Chlorobenzene	<0.26		1.0	0.26	ug/L			01/11/16 09:37	1
Toluene	<0.48		1.0	0.48	ug/L			01/11/16 09:37	1
Ethylbenzene	<0.33		1.0	0.33	ug/L			01/11/16 09:37	1
1,1,1-Trichloroethane	<0.37		1.0	0.37	ug/L			01/11/16 09:37	1
1,1,2-Trichloroethane	<0.33		1.0	0.33	ug/L			01/11/16 09:37	1
Styrene	<0.27		1.0	0.27	ug/L			01/11/16 09:37	1
Bromoform	<0.43		1.0	0.43	ug/L			01/11/16 09:37	1
Trichloroethene	<0.48		1.0	0.48	ug/L			01/11/16 09:37	1
Isopropylbenzene	<0.35		1.0	0.35	ug/L			01/11/16 09:37	1
Trichlorofluoromethane	<0.42		1.0	0.42	ug/L			01/11/16 09:37	1
1,1,2,2-Tetrachloroethane	<0.62		1.0	0.62	ug/L			01/11/16 09:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.36		1.0	0.36	ug/L			01/11/16 09:37	1
1,3-Dichlorobenzene	<0.43		1.0	0.43	ug/L			01/11/16 09:37	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			01/11/16 09:37	1
1,4-Dichlorobenzene	<0.46		1.0	0.46	ug/L			01/11/16 09:37	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			01/11/16 09:37	1
1,2-Dichlorobenzene	<0.37		1.0	0.37	ug/L			01/11/16 09:37	1
1,2-Dibromo-3-Chloropropane	<1.1		5.0	1.1	ug/L			01/11/16 09:37	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/L			01/11/16 09:37	1
Cyclohexane	<0.39		1.0	0.39	ug/L			01/11/16 09:37	1
Methyl acetate	<1.8		5.0	1.8	ug/L			01/11/16 09:37	1
Methylcyclohexane	<0.43		1.0	0.43	ug/L			01/11/16 09:37	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-417650/9
Matrix: Water
Analysis Batch: 417650

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		01/11/16 09:37	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		01/11/16 09:37	1
Dibromofluoromethane (Surr)	101		70 - 130		01/11/16 09:37	1
4-Bromofluorobenzene (Surr)	101		70 - 130		01/11/16 09:37	1

Lab Sample ID: LCS 680-417650/4
Matrix: Water
Analysis Batch: 417650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	50.0	65.7		ug/L		131	20 - 180
Acetone	250	298		ug/L		119	60 - 154
Carbon disulfide	50.0	64.9	*	ug/L		130	73 - 127
Chloroethane	50.0	62.6		ug/L		125	50 - 151
Chloromethane	50.0	36.5		ug/L		73	63 - 126
2-Butanone	250	255		ug/L		102	75 - 133
Chloroform	50.0	51.3		ug/L		103	79 - 122
Dichlorodifluoromethane	50.0	59.9		ug/L		120	51 - 140
1,1-Dichloroethane	50.0	53.2		ug/L		106	80 - 120
Carbon tetrachloride	50.0	56.9		ug/L		114	75 - 130
Benzene	50.0	49.4		ug/L		99	73 - 131
cis-1,2-Dichloroethene	50.0	53.8		ug/L		108	80 - 122
1,2-Dichloroethane	50.0	52.5		ug/L		105	75 - 130
trans-1,2-Dichloroethene	50.0	55.5		ug/L		111	78 - 123
1,1-Dichloroethene	50.0	56.2		ug/L		112	74 - 125
1,2-Dichloropropane	50.0	51.8		ug/L		104	80 - 123
Bromodichloromethane	50.0	55.6		ug/L		111	77 - 129
cis-1,3-Dichloropropene	50.0	56.2		ug/L		112	80 - 133
Methylene Chloride	50.0	66.7	*	ug/L		133	76 - 129
trans-1,3-Dichloropropene	50.0	59.1		ug/L		118	74 - 140
4-Methyl-2-pentanone	250	300		ug/L		120	75 - 135
Methyl tert-butyl ether	50.0	57.7		ug/L		115	74 - 135
2-Hexanone	250	303		ug/L		121	70 - 141
Dibromochloromethane	50.0	48.7		ug/L		97	71 - 136
1,2-Dibromoethane	50.0	53.8		ug/L		108	77 - 131
Tetrachloroethene	50.0	51.2		ug/L		102	77 - 123
Chlorobenzene	50.0	47.0		ug/L		94	80 - 120
Toluene	50.0	52.9		ug/L		106	80 - 122
Ethylbenzene	50.0	49.6		ug/L		99	80 - 120
1,1,1-Trichloroethane	50.0	54.5		ug/L		109	74 - 128
1,1,2-Trichloroethane	50.0	54.2		ug/L		108	79 - 125
Styrene	50.0	51.7		ug/L		103	80 - 122
Bromoform	50.0	43.0		ug/L		86	69 - 135
Trichloroethene	50.0	50.5		ug/L		101	80 - 123
Isopropylbenzene	50.0	52.4		ug/L		105	80 - 120
Trichlorofluoromethane	50.0	62.0		ug/L		124	58 - 145
1,1,2,2-Tetrachloroethane	50.0	51.1		ug/L		102	72 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-417650/4
Matrix: Water
Analysis Batch: 417650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.8		ug/L		108	65 - 131
1,3-Dichlorobenzene	50.0	47.5		ug/L		95	80 - 120
Vinyl chloride	50.0	62.9		ug/L		126	68 - 132
1,4-Dichlorobenzene	50.0	46.2		ug/L		92	80 - 120
Xylenes, Total	100	103		ug/L		103	80 - 120
1,2-Dichlorobenzene	50.0	48.5		ug/L		97	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	39.6		ug/L		79	59 - 141
1,2,4-Trichlorobenzene	50.0	39.3		ug/L		79	77 - 131
Cyclohexane	50.0	50.3		ug/L		101	69 - 130
Methyl acetate	250	290		ug/L		116	66 - 134
Methylcyclohexane	50.0	54.5		ug/L		109	75 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*110*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 680-417650/5
Matrix: Water
Analysis Batch: 417650

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	50.0	65.3		ug/L		131	20 - 180	1	40
Acetone	250	294		ug/L		118	60 - 154	1	40
Carbon disulfide	50.0	63.6		ug/L		127	73 - 127	2	20
Chloroethane	50.0	60.6		ug/L		121	50 - 151	3	30
Chloromethane	50.0	40.8		ug/L		82	63 - 126	11	30
2-Butanone	250	264		ug/L		106	75 - 133	4	30
Chloroform	50.0	50.8		ug/L		102	79 - 122	1	20
Dichlorodifluoromethane	50.0	60.5		ug/L		121	51 - 140	1	40
1,1-Dichloroethane	50.0	51.3		ug/L		103	80 - 120	4	20
Carbon tetrachloride	50.0	55.4		ug/L		111	75 - 130	3	20
Benzene	50.0	50.1		ug/L		100	73 - 131	2	30
cis-1,2-Dichloroethene	50.0	54.0		ug/L		108	80 - 122	0	20
1,2-Dichloroethane	50.0	52.9		ug/L		106	75 - 130	1	20
trans-1,2-Dichloroethene	50.0	55.2		ug/L		110	78 - 123	0	20
1,1-Dichloroethene	50.0	54.9		ug/L		110	74 - 125	2	20
1,2-Dichloropropane	50.0	53.0		ug/L		106	80 - 123	2	20
Bromodichloromethane	50.0	54.5		ug/L		109	77 - 129	2	20
cis-1,3-Dichloropropene	50.0	56.1		ug/L		112	80 - 133	0	20
Methylene Chloride	50.0	66.1	*	ug/L		132	76 - 129	1	20
trans-1,3-Dichloropropene	50.0	59.7		ug/L		119	74 - 140	1	20
4-Methyl-2-pentanone	250	309		ug/L		123	75 - 135	3	30
Methyl tert-butyl ether	50.0	58.4		ug/L		117	74 - 135	1	20
2-Hexanone	250	307		ug/L		123	70 - 141	1	40
Dibromochloromethane	50.0	48.6		ug/L		97	71 - 136	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-417650/5
Matrix: Water
Analysis Batch: 417650

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane	50.0	54.7		ug/L		109	77 - 131	2	30
Tetrachloroethene	50.0	51.5		ug/L		103	77 - 123	0	20
Chlorobenzene	50.0	46.9		ug/L		94	80 - 120	0	20
Toluene	50.0	53.2		ug/L		106	80 - 122	1	20
Ethylbenzene	50.0	49.3		ug/L		99	80 - 120	1	20
1,1,1-Trichloroethane	50.0	52.8		ug/L		106	74 - 128	3	20
1,1,2-Trichloroethane	50.0	54.4		ug/L		109	79 - 125	0	20
Styrene	50.0	50.8		ug/L		102	80 - 122	2	20
Bromoform	50.0	42.8		ug/L		86	69 - 135	0	20
Trichloroethene	50.0	50.8		ug/L		102	80 - 123	1	20
Isopropylbenzene	50.0	51.6		ug/L		103	80 - 120	2	20
Trichlorofluoromethane	50.0	59.8		ug/L		120	58 - 145	4	30
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/L		103	72 - 128	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.4		ug/L		105	65 - 131	3	30
1,3-Dichlorobenzene	50.0	47.4		ug/L		95	80 - 120	0	20
Vinyl chloride	50.0	50.5		ug/L		101	68 - 132	22	30
1,4-Dichlorobenzene	50.0	45.6		ug/L		91	80 - 120	1	20
Xylenes, Total	100	103		ug/L		103	80 - 120	1	20
1,2-Dichlorobenzene	50.0	48.1		ug/L		96	80 - 120	1	20
1,2-Dibromo-3-Chloropropane	50.0	39.0		ug/L		78	59 - 141	1	30
1,2,4-Trichlorobenzene	50.0	39.6		ug/L		79	77 - 131	1	20
Cyclohexane	50.0	51.2		ug/L		102	69 - 130	2	30
Methyl acetate	250	294		ug/L		118	66 - 134	1	30
Methylcyclohexane	50.0	54.2		ug/L		108	75 - 127	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*109*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 680-417977/9
Matrix: Solid
Analysis Batch: 417977

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<1.5		5.0	1.5	ug/Kg			01/13/16 14:08	1
Acetone	<11		50	11	ug/Kg			01/13/16 14:08	1
Carbon disulfide	<1.1		5.0	1.1	ug/Kg			01/13/16 14:08	1
Chloroethane	<2.7		5.0	2.7	ug/Kg			01/13/16 14:08	1
Chloromethane	<1.0		5.0	1.0	ug/Kg			01/13/16 14:08	1
2-Butanone	<2.4		25	2.4	ug/Kg			01/13/16 14:08	1
Chloroform	<1.1		5.0	1.1	ug/Kg			01/13/16 14:08	1
Dichlorodifluoromethane	<0.94		5.0	0.94	ug/Kg			01/13/16 14:08	1
1,1-Dichloroethane	<1.1		5.0	1.1	ug/Kg			01/13/16 14:08	1
Carbon tetrachloride	<0.83		5.0	0.83	ug/Kg			01/13/16 14:08	1
Benzene	<0.73		5.0	0.73	ug/Kg			01/13/16 14:08	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-417977/9
Matrix: Solid
Analysis Batch: 417977

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.4		5.0	1.4	ug/Kg			01/13/16 14:08	1
1,2-Dichloroethane	<1.1		5.0	1.1	ug/Kg			01/13/16 14:08	1
trans-1,2-Dichloroethene	<0.63		5.0	0.63	ug/Kg			01/13/16 14:08	1
1,1-Dichloroethene	<1.5		5.0	1.5	ug/Kg			01/13/16 14:08	1
1,2-Dichloropropane	<0.86		5.0	0.86	ug/Kg			01/13/16 14:08	1
Bromodichloromethane	<0.97		5.0	0.97	ug/Kg			01/13/16 14:08	1
cis-1,3-Dichloropropene	<0.83		5.0	0.83	ug/Kg			01/13/16 14:08	1
Methylene Chloride	<0.98		5.0	0.98	ug/Kg			01/13/16 14:08	1
trans-1,3-Dichloropropene	<0.87		5.0	0.87	ug/Kg			01/13/16 14:08	1
4-Methyl-2-pentanone	<4.2		25	4.2	ug/Kg			01/13/16 14:08	1
Methyl tert-butyl ether	<1.0		5.0	1.0	ug/Kg			01/13/16 14:08	1
2-Hexanone	<3.3		25	3.3	ug/Kg			01/13/16 14:08	1
Dibromochloromethane	<1.7		5.0	1.7	ug/Kg			01/13/16 14:08	1
1,2-Dibromoethane	<1.5		5.0	1.5	ug/Kg			01/13/16 14:08	1
Tetrachloroethene	<1.9		5.0	1.9	ug/Kg			01/13/16 14:08	1
Chlorobenzene	<0.96		5.0	0.96	ug/Kg			01/13/16 14:08	1
Toluene	<0.84		5.0	0.84	ug/Kg			01/13/16 14:08	1
Ethylbenzene	<1.3		5.0	1.3	ug/Kg			01/13/16 14:08	1
1,1,1-Trichloroethane	<0.59		5.0	0.59	ug/Kg			01/13/16 14:08	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/Kg			01/13/16 14:08	1
Styrene	<0.93		5.0	0.93	ug/Kg			01/13/16 14:08	1
Bromoform	<1.5		5.0	1.5	ug/Kg			01/13/16 14:08	1
Trichloroethene	<1.3		5.0	1.3	ug/Kg			01/13/16 14:08	1
Isopropylbenzene	<1.9		5.0	1.9	ug/Kg			01/13/16 14:08	1
Trichlorofluoromethane	<1.2		5.0	1.2	ug/Kg			01/13/16 14:08	1
1,1,2,2-Tetrachloroethane	<1.6		5.0	1.6	ug/Kg			01/13/16 14:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.0	1.3	ug/Kg			01/13/16 14:08	1
1,3-Dichlorobenzene	<1.6		5.0	1.6	ug/Kg			01/13/16 14:08	1
Vinyl chloride	<1.5		5.0	1.5	ug/Kg			01/13/16 14:08	1
1,4-Dichlorobenzene	<0.74		5.0	0.74	ug/Kg			01/13/16 14:08	1
Xylenes, Total	<1.1		10	1.1	ug/Kg			01/13/16 14:08	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/Kg			01/13/16 14:08	1
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/Kg			01/13/16 14:08	1
1,2,4-Trichlorobenzene	<0.89		5.0	0.89	ug/Kg			01/13/16 14:08	1
Cyclohexane	<1.3		5.0	1.3	ug/Kg			01/13/16 14:08	1
Methyl acetate	<5.0		25	5.0	ug/Kg			01/13/16 14:08	1
Methylcyclohexane	<0.86		5.0	0.86	ug/Kg			01/13/16 14:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*70 - 130*		*01/13/16 14:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*		*01/13/16 14:08*	*1*
Dibromofluoromethane (Surr)	*86*		*70 - 130*		*01/13/16 14:08*	*1*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*01/13/16 14:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-417977/4
Matrix: Solid
Analysis Batch: 417977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	48.8	42.7		ug/Kg		87	40 - 160
Acetone	244	195		ug/Kg		80	40 - 160
Carbon disulfide	48.8	46.8		ug/Kg		96	40 - 160
Chloroethane	48.8	45.5		ug/Kg		93	40 - 160
Chloromethane	48.8	44.7		ug/Kg		91	40 - 160
2-Butanone	244	205		ug/Kg		84	40 - 160
Chloroform	48.8	46.8		ug/Kg		96	70 - 130
Dichlorodifluoromethane	48.8	49.0		ug/Kg		100	40 - 160
1,1-Dichloroethane	48.8	46.1		ug/Kg		94	70 - 130
Carbon tetrachloride	48.8	48.3		ug/Kg		99	70 - 130
Benzene	48.8	48.4		ug/Kg		99	70 - 130
cis-1,2-Dichloroethene	48.8	46.3		ug/Kg		95	70 - 130
1,2-Dichloroethane	48.8	45.4		ug/Kg		93	70 - 130
trans-1,2-Dichloroethene	48.8	47.9		ug/Kg		98	70 - 130
1,1-Dichloroethene	48.8	47.1		ug/Kg		96	70 - 130
1,2-Dichloropropane	48.8	45.6		ug/Kg		93	70 - 130
Bromodichloromethane	48.8	45.0		ug/Kg		92	70 - 130
cis-1,3-Dichloropropene	48.8	45.8		ug/Kg		94	70 - 130
Methylene Chloride	48.8	44.8		ug/Kg		92	70 - 130
trans-1,3-Dichloropropene	48.8	43.8		ug/Kg		90	70 - 130
4-Methyl-2-pentanone	244	198		ug/Kg		81	40 - 160
Methyl tert-butyl ether	48.8	44.4		ug/Kg		91	70 - 130
2-Hexanone	244	193		ug/Kg		79	40 - 160
Dibromochloromethane	48.8	42.8		ug/Kg		88	70 - 130
1,2-Dibromoethane	48.8	44.4		ug/Kg		91	70 - 130
Tetrachloroethene	48.8	49.3		ug/Kg		101	70 - 130
Chlorobenzene	48.8	49.6		ug/Kg		101	70 - 130
Toluene	48.8	48.1		ug/Kg		98	70 - 130
Ethylbenzene	48.8	50.6		ug/Kg		104	70 - 130
1,1,1-Trichloroethane	48.8	47.7		ug/Kg		98	70 - 130
1,1,2-Trichloroethane	48.8	43.8		ug/Kg		90	70 - 130
Styrene	48.8	48.3		ug/Kg		99	70 - 130
Bromoform	48.8	45.4		ug/Kg		93	70 - 130
Trichloroethene	48.8	47.0		ug/Kg		96	70 - 130
Isopropylbenzene	48.8	49.9		ug/Kg		102	70 - 130
Trichlorofluoromethane	48.8	48.0		ug/Kg		98	40 - 160
1,1,2,2-Tetrachloroethane	48.8	45.4		ug/Kg		93	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	48.8	48.8		ug/Kg		100	70 - 130
1,3-Dichlorobenzene	48.8	46.1		ug/Kg		94	70 - 130
Vinyl chloride	48.8	46.0		ug/Kg		94	70 - 130
1,4-Dichlorobenzene	48.8	46.6		ug/Kg		95	70 - 130
Xylenes, Total	97.7	99.5		ug/Kg		102	70 - 130
1,2-Dichlorobenzene	48.8	45.9		ug/Kg		94	70 - 130
1,2-Dibromo-3-Chloropropane	48.8	39.0		ug/Kg		80	40 - 160
1,2,4-Trichlorobenzene	48.8	45.4		ug/Kg		93	70 - 130
Cyclohexane	48.8	48.3		ug/Kg		99	70 - 130
Methyl acetate	244	210		ug/Kg		86	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-417977/4
Matrix: Solid
Analysis Batch: 417977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylcyclohexane			48.8	48.6		ug/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 680-417977/5
Matrix: Solid
Analysis Batch: 417977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane			49.2	45.3		ug/Kg		92	40 - 160	6	20
Acetone			246	209		ug/Kg		85	40 - 160	7	20
Carbon disulfide			49.2	50.7		ug/Kg		103	40 - 160	8	20
Chloroethane			49.2	52.2		ug/Kg		106	40 - 160	14	20
Chloromethane			49.2	48.4		ug/Kg		98	40 - 160	8	20
2-Butanone			246	231		ug/Kg		94	40 - 160	12	20
Chloroform			49.2	49.4		ug/Kg		100	70 - 130	5	20
Dichlorodifluoromethane			49.2	52.2		ug/Kg		106	40 - 160	6	20
1,1-Dichloroethane			49.2	49.8		ug/Kg		101	70 - 130	8	20
Carbon tetrachloride			49.2	50.9		ug/Kg		103	70 - 130	5	20
Benzene			49.2	51.6		ug/Kg		105	70 - 130	7	20
cis-1,2-Dichloroethene			49.2	49.2		ug/Kg		100	70 - 130	6	20
1,2-Dichloroethane			49.2	48.7		ug/Kg		99	70 - 130	7	20
trans-1,2-Dichloroethene			49.2	50.9		ug/Kg		103	70 - 130	6	20
1,1-Dichloroethene			49.2	49.9		ug/Kg		101	70 - 130	6	20
1,2-Dichloropropane			49.2	49.6		ug/Kg		101	70 - 130	9	20
Bromodichloromethane			49.2	48.0		ug/Kg		97	70 - 130	6	20
cis-1,3-Dichloropropene			49.2	49.3		ug/Kg		100	70 - 130	7	20
Methylene Chloride			49.2	49.3		ug/Kg		100	70 - 130	9	20
trans-1,3-Dichloropropene			49.2	47.9		ug/Kg		97	70 - 130	9	20
4-Methyl-2-pentanone			246	227		ug/Kg		92	40 - 160	13	20
Methyl tert-butyl ether			49.2	49.2		ug/Kg		100	70 - 130	10	20
2-Hexanone			246	224		ug/Kg		91	40 - 160	15	20
Dibromochloromethane			49.2	47.9		ug/Kg		97	70 - 130	11	20
1,2-Dibromoethane			49.2	49.4		ug/Kg		100	70 - 130	11	20
Tetrachloroethene			49.2	53.8		ug/Kg		109	70 - 130	9	20
Chlorobenzene			49.2	52.5		ug/Kg		107	70 - 130	6	20
Toluene			49.2	52.0		ug/Kg		106	70 - 130	8	20
Ethylbenzene			49.2	52.3		ug/Kg		106	70 - 130	3	20
1,1,1-Trichloroethane			49.2	51.6		ug/Kg		105	70 - 130	8	20
1,1,2-Trichloroethane			49.2	49.1		ug/Kg		100	70 - 130	11	20
Styrene			49.2	50.7		ug/Kg		103	70 - 130	5	20
Bromoform			49.2	48.9		ug/Kg		99	70 - 130	7	20
Trichloroethene			49.2	51.2		ug/Kg		104	70 - 130	9	20
Isopropylbenzene			49.2	52.9		ug/Kg		107	70 - 130	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-417977/5
Matrix: Solid
Analysis Batch: 417977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	49.2	52.7		ug/Kg		107	40 - 160	9	20
1,1,2,2-Tetrachloroethane	49.2	48.4		ug/Kg		98	70 - 130	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	49.2	50.6		ug/Kg		103	70 - 130	4	20
1,3-Dichlorobenzene	49.2	47.4		ug/Kg		96	70 - 130	3	20
Vinyl chloride	49.2	50.7		ug/Kg		103	70 - 130	10	20
1,4-Dichlorobenzene	49.2	47.9		ug/Kg		97	70 - 130	3	20
Xylenes, Total	98.4	105		ug/Kg		107	70 - 130	6	20
1,2-Dichlorobenzene	49.2	47.3		ug/Kg		96	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	49.2	40.4		ug/Kg		82	40 - 160	3	20
1,2,4-Trichlorobenzene	49.2	45.4		ug/Kg		92	70 - 130	0	20
Cyclohexane	49.2	51.6		ug/Kg		105	70 - 130	7	20
Methyl acetate	246	234		ug/Kg		95	70 - 130	11	20
Methylcyclohexane	49.2	52.9		ug/Kg		107	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: MB 680-418123/10
Matrix: Solid
Analysis Batch: 418123

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<60		200	60	ug/Kg			01/14/16 14:05	40
Acetone	<440		2000	440	ug/Kg			01/14/16 14:05	40
Carbon disulfide	<44		200	44	ug/Kg			01/14/16 14:05	40
Chloroethane	<110		200	110	ug/Kg			01/14/16 14:05	40
Chloromethane	<40		200	40	ug/Kg			01/14/16 14:05	40
2-Butanone	<96		1000	96	ug/Kg			01/14/16 14:05	40
Chloroform	<44		200	44	ug/Kg			01/14/16 14:05	40
Dichlorodifluoromethane	<38		200	38	ug/Kg			01/14/16 14:05	40
1,1-Dichloroethane	<44		200	44	ug/Kg			01/14/16 14:05	40
Carbon tetrachloride	<33		200	33	ug/Kg			01/14/16 14:05	40
Benzene	<29		200	29	ug/Kg			01/14/16 14:05	40
cis-1,2-Dichloroethene	<56		200	56	ug/Kg			01/14/16 14:05	40
1,2-Dichloroethane	<44		200	44	ug/Kg			01/14/16 14:05	40
trans-1,2-Dichloroethene	<25		200	25	ug/Kg			01/14/16 14:05	40
1,1-Dichloroethene	<60		200	60	ug/Kg			01/14/16 14:05	40
1,2-Dichloropropane	<34		200	34	ug/Kg			01/14/16 14:05	40
Bromodichloromethane	<39		200	39	ug/Kg			01/14/16 14:05	40
cis-1,3-Dichloropropene	<33		200	33	ug/Kg			01/14/16 14:05	40
Methylene Chloride	<39		200	39	ug/Kg			01/14/16 14:05	40
trans-1,3-Dichloropropene	<35		200	35	ug/Kg			01/14/16 14:05	40
4-Methyl-2-pentanone	<170		1000	170	ug/Kg			01/14/16 14:05	40
Methyl tert-butyl ether	<40		200	40	ug/Kg			01/14/16 14:05	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-418123/10
Matrix: Solid
Analysis Batch: 418123

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<130		1000	130	ug/Kg			01/14/16 14:05	40
Dibromochloromethane	<68		200	68	ug/Kg			01/14/16 14:05	40
1,2-Dibromoethane	<60		200	60	ug/Kg			01/14/16 14:05	40
Tetrachloroethene	<76		200	76	ug/Kg			01/14/16 14:05	40
Chlorobenzene	<38		200	38	ug/Kg			01/14/16 14:05	40
Toluene	<34		200	34	ug/Kg			01/14/16 14:05	40
Ethylbenzene	<52		200	52	ug/Kg			01/14/16 14:05	40
1,1,1-Trichloroethane	<24		200	24	ug/Kg			01/14/16 14:05	40
1,1,2-Trichloroethane	<52		200	52	ug/Kg			01/14/16 14:05	40
Styrene	<37		200	37	ug/Kg			01/14/16 14:05	40
Bromoform	<60		200	60	ug/Kg			01/14/16 14:05	40
Trichloroethene	<52		200	52	ug/Kg			01/14/16 14:05	40
Isopropylbenzene	<76		200	76	ug/Kg			01/14/16 14:05	40
Trichlorofluoromethane	<48		200	48	ug/Kg			01/14/16 14:05	40
1,1,2,2-Tetrachloroethane	<64		200	64	ug/Kg			01/14/16 14:05	40
1,1,2-Trichloro-1,2,2-trifluoroethane	<52		200	52	ug/Kg			01/14/16 14:05	40
1,3-Dichlorobenzene	<64		200	64	ug/Kg			01/14/16 14:05	40
Vinyl chloride	<60		200	60	ug/Kg			01/14/16 14:05	40
1,4-Dichlorobenzene	<30		200	30	ug/Kg			01/14/16 14:05	40
Xylenes, Total	<44		400	44	ug/Kg			01/14/16 14:05	40
1,2-Dichlorobenzene	<52		200	52	ug/Kg			01/14/16 14:05	40
1,2-Dibromo-3-Chloropropane	<180		400	180	ug/Kg			01/14/16 14:05	40
1,2,4-Trichlorobenzene	<36		200	36	ug/Kg			01/14/16 14:05	40
Cyclohexane	<52		200	52	ug/Kg			01/14/16 14:05	40
Methyl acetate	<200		1000	200	ug/Kg			01/14/16 14:05	40
Methylcyclohexane	<34		200	34	ug/Kg			01/14/16 14:05	40

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*01/14/16 14:05*	*40*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*		*01/14/16 14:05*	*40*
Dibromofluoromethane (Surr)	*83*		*70 - 130*		*01/14/16 14:05*	*40*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*01/14/16 14:05*	*40*

Lab Sample ID: MB 680-418123/9
Matrix: Solid
Analysis Batch: 418123

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<1.5		4.9	1.5	ug/Kg			01/14/16 13:41	1
Acetone	<11		49	11	ug/Kg			01/14/16 13:41	1
Carbon disulfide	<1.1		4.9	1.1	ug/Kg			01/14/16 13:41	1
Chloroethane	<2.7		4.9	2.7	ug/Kg			01/14/16 13:41	1
Chloromethane	<0.98		4.9	0.98	ug/Kg			01/14/16 13:41	1
2-Butanone	<2.4		25	2.4	ug/Kg			01/14/16 13:41	1
Chloroform	<1.1		4.9	1.1	ug/Kg			01/14/16 13:41	1
Dichlorodifluoromethane	<0.93		4.9	0.93	ug/Kg			01/14/16 13:41	1
1,1-Dichloroethane	<1.1		4.9	1.1	ug/Kg			01/14/16 13:41	1
Carbon tetrachloride	<0.82		4.9	0.82	ug/Kg			01/14/16 13:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-418123/9
Matrix: Solid
Analysis Batch: 418123

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.72		4.9	0.72	ug/Kg			01/14/16 13:41	1
cis-1,2-Dichloroethene	<1.4		4.9	1.4	ug/Kg			01/14/16 13:41	1
1,2-Dichloroethane	<1.1		4.9	1.1	ug/Kg			01/14/16 13:41	1
trans-1,2-Dichloroethene	<0.62		4.9	0.62	ug/Kg			01/14/16 13:41	1
1,1-Dichloroethene	<1.5		4.9	1.5	ug/Kg			01/14/16 13:41	1
1,2-Dichloropropane	<0.85		4.9	0.85	ug/Kg			01/14/16 13:41	1
Bromodichloromethane	<0.95		4.9	0.95	ug/Kg			01/14/16 13:41	1
cis-1,3-Dichloropropene	<0.82		4.9	0.82	ug/Kg			01/14/16 13:41	1
Methylene Chloride	<0.96		4.9	0.96	ug/Kg			01/14/16 13:41	1
trans-1,3-Dichloropropene	<0.86		4.9	0.86	ug/Kg			01/14/16 13:41	1
4-Methyl-2-pentanone	<4.1		25	4.1	ug/Kg			01/14/16 13:41	1
Methyl tert-butyl ether	<0.98		4.9	0.98	ug/Kg			01/14/16 13:41	1
2-Hexanone	<3.2		25	3.2	ug/Kg			01/14/16 13:41	1
Dibromochloromethane	<1.7		4.9	1.7	ug/Kg			01/14/16 13:41	1
1,2-Dibromoethane	<1.5		4.9	1.5	ug/Kg			01/14/16 13:41	1
Tetrachloroethene	<1.9		4.9	1.9	ug/Kg			01/14/16 13:41	1
Chlorobenzene	<0.94		4.9	0.94	ug/Kg			01/14/16 13:41	1
Toluene	<0.83		4.9	0.83	ug/Kg			01/14/16 13:41	1
Ethylbenzene	<1.3		4.9	1.3	ug/Kg			01/14/16 13:41	1
1,1,1-Trichloroethane	<0.58		4.9	0.58	ug/Kg			01/14/16 13:41	1
1,1,2-Trichloroethane	<1.3		4.9	1.3	ug/Kg			01/14/16 13:41	1
Styrene	<0.92		4.9	0.92	ug/Kg			01/14/16 13:41	1
Bromoform	<1.5		4.9	1.5	ug/Kg			01/14/16 13:41	1
Trichloroethene	<1.3		4.9	1.3	ug/Kg			01/14/16 13:41	1
Isopropylbenzene	<1.9		4.9	1.9	ug/Kg			01/14/16 13:41	1
Trichlorofluoromethane	<1.2		4.9	1.2	ug/Kg			01/14/16 13:41	1
1,1,2,2-Tetrachloroethane	<1.6		4.9	1.6	ug/Kg			01/14/16 13:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		4.9	1.3	ug/Kg			01/14/16 13:41	1
1,3-Dichlorobenzene	<1.6		4.9	1.6	ug/Kg			01/14/16 13:41	1
Vinyl chloride	<1.5		4.9	1.5	ug/Kg			01/14/16 13:41	1
1,4-Dichlorobenzene	<0.73		4.9	0.73	ug/Kg			01/14/16 13:41	1
Xylenes, Total	<1.1		9.8	1.1	ug/Kg			01/14/16 13:41	1
1,2-Dichlorobenzene	<1.3		4.9	1.3	ug/Kg			01/14/16 13:41	1
1,2-Dibromo-3-Chloropropane	<4.3		9.8	4.3	ug/Kg			01/14/16 13:41	1
1,2,4-Trichlorobenzene	<0.88		4.9	0.88	ug/Kg			01/14/16 13:41	1
Cyclohexane	<1.3		4.9	1.3	ug/Kg			01/14/16 13:41	1
Methyl acetate	<4.9		25	4.9	ug/Kg			01/14/16 13:41	1
Methylcyclohexane	<0.85		4.9	0.85	ug/Kg			01/14/16 13:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*01/14/16 13:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*01/14/16 13:41*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*01/14/16 13:41*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*01/14/16 13:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-418123/4
Matrix: Solid
Analysis Batch: 418123

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	49.0	48.3		ug/Kg		99	40 - 160
Acetone	245	208		ug/Kg		85	40 - 160
Carbon disulfide	49.0	46.9		ug/Kg		96	40 - 160
Chloroethane	49.0	54.4		ug/Kg		111	40 - 160
Chloromethane	49.0	50.0		ug/Kg		102	40 - 160
2-Butanone	245	216		ug/Kg		88	40 - 160
Chloroform	49.0	45.0		ug/Kg		92	70 - 130
Dichlorodifluoromethane	49.0	50.0		ug/Kg		102	40 - 160
1,1-Dichloroethane	49.0	45.8		ug/Kg		93	70 - 130
Carbon tetrachloride	49.0	44.1		ug/Kg		90	70 - 130
Benzene	49.0	47.7		ug/Kg		97	70 - 130
cis-1,2-Dichloroethene	49.0	46.5		ug/Kg		95	70 - 130
1,2-Dichloroethane	49.0	44.6		ug/Kg		91	70 - 130
trans-1,2-Dichloroethene	49.0	44.2		ug/Kg		90	70 - 130
1,1-Dichloroethene	49.0	45.5		ug/Kg		93	70 - 130
1,2-Dichloropropane	49.0	45.9		ug/Kg		94	70 - 130
Bromodichloromethane	49.0	44.0		ug/Kg		90	70 - 130
cis-1,3-Dichloropropene	49.0	45.3		ug/Kg		92	70 - 130
Methylene Chloride	49.0	44.5		ug/Kg		91	70 - 130
trans-1,3-Dichloropropene	49.0	43.9		ug/Kg		89	70 - 130
4-Methyl-2-pentanone	245	213		ug/Kg		87	40 - 160
Methyl tert-butyl ether	49.0	43.9		ug/Kg		90	70 - 130
2-Hexanone	245	208		ug/Kg		85	40 - 160
Dibromochloromethane	49.0	41.8		ug/Kg		85	70 - 130
1,2-Dibromoethane	49.0	42.1		ug/Kg		86	70 - 130
Tetrachloroethene	49.0	45.5		ug/Kg		93	70 - 130
Chlorobenzene	49.0	47.6		ug/Kg		97	70 - 130
Toluene	49.0	46.0		ug/Kg		94	70 - 130
Ethylbenzene	49.0	49.4		ug/Kg		101	70 - 130
1,1,1-Trichloroethane	49.0	46.1		ug/Kg		94	70 - 130
1,1,2-Trichloroethane	49.0	43.7		ug/Kg		89	70 - 130
Styrene	49.0	47.3		ug/Kg		97	70 - 130
Bromoform	49.0	42.7		ug/Kg		87	70 - 130
Trichloroethene	49.0	45.8		ug/Kg		93	70 - 130
Isopropylbenzene	49.0	48.0		ug/Kg		98	70 - 130
Trichlorofluoromethane	49.0	46.6		ug/Kg		95	40 - 160
1,1,2,2-Tetrachloroethane	49.0	47.1		ug/Kg		96	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	49.0	43.6		ug/Kg		89	70 - 130
1,3-Dichlorobenzene	49.0	48.7		ug/Kg		99	70 - 130
Vinyl chloride	49.0	51.4		ug/Kg		105	70 - 130
1,4-Dichlorobenzene	49.0	48.8		ug/Kg		99	70 - 130
Xylenes, Total	98.0	96.9		ug/Kg		99	70 - 130
1,2-Dichlorobenzene	49.0	48.3		ug/Kg		98	70 - 130
1,2-Dibromo-3-Chloropropane	49.0	44.0		ug/Kg		90	40 - 160
1,2,4-Trichlorobenzene	49.0	47.8		ug/Kg		97	70 - 130
Cyclohexane	49.0	47.6		ug/Kg		97	70 - 130
Methyl acetate	245	215		ug/Kg		88	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-418123/4
Matrix: Solid
Analysis Batch: 418123

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylcyclohexane	49.0	48.4		ug/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCS 680-418123/6
Matrix: Solid
Analysis Batch: 418123

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	1950	2040		ug/Kg		105	40 - 160
Acetone	9730	10500		ug/Kg		108	40 - 160
Carbon disulfide	1950	2160		ug/Kg		111	40 - 160
Chloroethane	1950	2200		ug/Kg		113	40 - 160
Chloromethane	1950	2140		ug/Kg		110	40 - 160
2-Butanone	9730	11200		ug/Kg		115	40 - 160
Chloroform	1950	2100		ug/Kg		108	70 - 130
Dichlorodifluoromethane	1950	2010		ug/Kg		103	40 - 160
1,1-Dichloroethane	1950	2250		ug/Kg		115	70 - 130
Carbon tetrachloride	1950	2110		ug/Kg		108	70 - 130
Benzene	1950	2360		ug/Kg		121	70 - 130
cis-1,2-Dichloroethene	1950	2090		ug/Kg		108	70 - 130
1,2-Dichloroethane	1950	2110		ug/Kg		109	70 - 130
trans-1,2-Dichloroethene	1950	2110		ug/Kg		108	70 - 130
1,1-Dichloroethene	1950	2140		ug/Kg		110	70 - 130
1,2-Dichloropropane	1950	2120		ug/Kg		109	70 - 130
Bromodichloromethane	1950	2050		ug/Kg		105	70 - 130
cis-1,3-Dichloropropene	1950	2170		ug/Kg		111	70 - 130
Methylene Chloride	1950	2190		ug/Kg		112	70 - 130
trans-1,3-Dichloropropene	1950	2240		ug/Kg		115	70 - 130
4-Methyl-2-pentanone	9730	10800		ug/Kg		111	40 - 160
Methyl tert-butyl ether	1950	2050		ug/Kg		106	70 - 130
2-Hexanone	9730	10500		ug/Kg		108	40 - 160
Dibromochloromethane	1950	1940		ug/Kg		100	70 - 130
1,2-Dibromoethane	1950	2080		ug/Kg		107	70 - 130
Tetrachloroethene	1950	2260		ug/Kg		116	70 - 130
Chlorobenzene	1950	2330		ug/Kg		120	70 - 130
Toluene	1950	2340		ug/Kg		120	70 - 130
Ethylbenzene	1950	2410		ug/Kg		124	70 - 130
1,1,1-Trichloroethane	1950	2320		ug/Kg		119	70 - 130
1,1,2-Trichloroethane	1950	2120		ug/Kg		109	70 - 130
Styrene	1950	1990		ug/Kg		102	70 - 130
Bromoform	1950	1870		ug/Kg		96	70 - 130
Trichloroethene	1950	2220		ug/Kg		114	70 - 130
Isopropylbenzene	1950	2030		ug/Kg		104	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-418123/6
Matrix: Solid
Analysis Batch: 418123

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	1950	2090		ug/Kg		108	40 - 160
1,1,2,2-Tetrachloroethane	1950	2090		ug/Kg		107	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	1950	2140		ug/Kg		110	70 - 130
1,3-Dichlorobenzene	1950	2260		ug/Kg		116	70 - 130
Vinyl chloride	1950	2150		ug/Kg		111	70 - 130
1,4-Dichlorobenzene	1950	2250		ug/Kg		116	70 - 130
Xylenes, Total	3890	4450		ug/Kg		114	70 - 130
1,2-Dichlorobenzene	1950	2240		ug/Kg		115	70 - 130
1,2-Dibromo-3-Chloropropane	1950	2200		ug/Kg		113	40 - 160
1,2,4-Trichlorobenzene	1950	2280		ug/Kg		117	70 - 130
Cyclohexane	1950	2380		ug/Kg		123	70 - 130
Methyl acetate	9730	10900		ug/Kg		112	70 - 130
Methylcyclohexane	1950	2260		ug/Kg		116	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*124*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*
Dibromofluoromethane (Surr)	*123*		*70 - 130*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 680-418123/5
Matrix: Solid
Analysis Batch: 418123

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	49.8	40.4		ug/Kg		81	40 - 160	18	20
Acetone	249	190		ug/Kg		76	40 - 160	9	20
Carbon disulfide	49.8	43.6		ug/Kg		88	40 - 160	7	20
Chloroethane	49.8	43.8	*	ug/Kg		88	40 - 160	22	20
Chloromethane	49.8	43.2		ug/Kg		87	40 - 160	14	20
2-Butanone	249	193		ug/Kg		78	40 - 160	11	20
Chloroform	49.8	42.4		ug/Kg		85	70 - 130	6	20
Dichlorodifluoromethane	49.8	44.5		ug/Kg		89	40 - 160	12	20
1,1-Dichloroethane	49.8	44.2		ug/Kg		89	70 - 130	3	20
Carbon tetrachloride	49.8	43.4		ug/Kg		87	70 - 130	2	20
Benzene	49.8	46.6		ug/Kg		94	70 - 130	2	20
cis-1,2-Dichloroethene	49.8	43.0		ug/Kg		86	70 - 130	8	20
1,2-Dichloroethane	49.8	42.0		ug/Kg		84	70 - 130	6	20
trans-1,2-Dichloroethene	49.8	44.9		ug/Kg		90	70 - 130	2	20
1,1-Dichloroethene	49.8	42.6		ug/Kg		85	70 - 130	7	20
1,2-Dichloropropane	49.8	45.2		ug/Kg		91	70 - 130	2	20
Bromodichloromethane	49.8	41.6		ug/Kg		84	70 - 130	6	20
cis-1,3-Dichloropropene	49.8	44.7		ug/Kg		90	70 - 130	1	20
Methylene Chloride	49.8	41.3		ug/Kg		83	70 - 130	7	20
trans-1,3-Dichloropropene	49.8	43.2		ug/Kg		87	70 - 130	1	20
4-Methyl-2-pentanone	249	215		ug/Kg		86	40 - 160	1	20
Methyl tert-butyl ether	49.8	42.5		ug/Kg		85	70 - 130	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-418123/5
Matrix: Solid
Analysis Batch: 418123

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone	249	204		ug/Kg		82	40 - 160	2	20
Dibromochloromethane	49.8	40.7		ug/Kg		82	70 - 130	3	20
1,2-Dibromoethane	49.8	41.3		ug/Kg		83	70 - 130	2	20
Tetrachloroethene	49.8	46.3		ug/Kg		93	70 - 130	2	20
Chlorobenzene	49.8	49.3		ug/Kg		99	70 - 130	3	20
Toluene	49.8	47.0		ug/Kg		94	70 - 130	2	20
Ethylbenzene	49.8	52.3		ug/Kg		105	70 - 130	6	20
1,1,1-Trichloroethane	49.8	44.5		ug/Kg		89	70 - 130	4	20
1,1,2-Trichloroethane	49.8	43.1		ug/Kg		87	70 - 130	1	20
Styrene	49.8	52.8		ug/Kg		106	70 - 130	11	20
Bromoform	49.8	45.3		ug/Kg		91	70 - 130	6	20
Trichloroethene	49.8	46.0		ug/Kg		92	70 - 130	0	20
Isopropylbenzene	49.8	52.3		ug/Kg		105	70 - 130	9	20
Trichlorofluoromethane	49.8	43.4		ug/Kg		87	40 - 160	7	20
1,1,2,2-Tetrachloroethane	49.8	47.3		ug/Kg		95	70 - 130	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	49.8	42.2		ug/Kg		85	70 - 130	3	20
1,3-Dichlorobenzene	49.8	46.0		ug/Kg		92	70 - 130	6	20
Vinyl chloride	49.8	42.6		ug/Kg		85	70 - 130	19	20
1,4-Dichlorobenzene	49.8	47.1		ug/Kg		95	70 - 130	3	20
Xylenes, Total	99.6	106		ug/Kg		107	70 - 130	9	20
1,2-Dichlorobenzene	49.8	46.1		ug/Kg		93	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	49.8	42.1		ug/Kg		84	40 - 160	5	20
1,2,4-Trichlorobenzene	49.8	39.8		ug/Kg		80	70 - 130	18	20
Cyclohexane	49.8	45.9		ug/Kg		92	70 - 130	4	20
Methyl acetate	249	205		ug/Kg		82	70 - 130	5	20
Methylcyclohexane	49.8	48.3		ug/Kg		97	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*109*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*91*		*70 - 130*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 680-418123/7
Matrix: Solid
Analysis Batch: 418123

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	1970	2290		ug/Kg		116	40 - 160	11	20
Acetone	9840	9470		ug/Kg		96	40 - 160	11	20
Carbon disulfide	1970	2200		ug/Kg		112	40 - 160	2	20
Chloroethane	1970	2580		ug/Kg		131	40 - 160	16	20
Chloromethane	1970	2280		ug/Kg		116	40 - 160	6	20
2-Butanone	9840	10900		ug/Kg		110	40 - 160	3	20
Chloroform	1970	2150		ug/Kg		109	70 - 130	3	20
Dichlorodifluoromethane	1970	2420		ug/Kg		123	40 - 160	18	20
1,1-Dichloroethane	1970	2190		ug/Kg		111	70 - 130	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-418123/7
Matrix: Solid
Analysis Batch: 418123

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon tetrachloride	1970	2130		ug/Kg		108	70 - 130	1	20
Benzene	1970	2320		ug/Kg		118	70 - 130	2	20
cis-1,2-Dichloroethene	1970	2220		ug/Kg		113	70 - 130	6	20
1,2-Dichloroethane	1970	2160		ug/Kg		110	70 - 130	2	20
trans-1,2-Dichloroethene	1970	2240		ug/Kg		114	70 - 130	6	20
1,1-Dichloroethene	1970	2110		ug/Kg		107	70 - 130	1	20
1,2-Dichloropropane	1970	2290		ug/Kg		116	70 - 130	7	20
Bromodichloromethane	1970	2240		ug/Kg		114	70 - 130	9	20
cis-1,3-Dichloropropene	1970	2290		ug/Kg		116	70 - 130	5	20
Methylene Chloride	1970	2150		ug/Kg		109	70 - 130	2	20
trans-1,3-Dichloropropene	1970	2350		ug/Kg		119	70 - 130	5	20
4-Methyl-2-pentanone	9840	11000		ug/Kg		112	40 - 160	2	20
Methyl tert-butyl ether	1970	2190		ug/Kg		111	70 - 130	7	20
2-Hexanone	9840	11100		ug/Kg		113	40 - 160	6	20
Dibromochloromethane	1970	2200		ug/Kg		112	70 - 130	13	20
1,2-Dibromoethane	1970	2320		ug/Kg		118	70 - 130	11	20
Tetrachloroethene	1970	2400		ug/Kg		122	70 - 130	6	20
Chlorobenzene	1970	2310		ug/Kg		117	70 - 130	1	20
Toluene	1970	2400		ug/Kg		122	70 - 130	2	20
Ethylbenzene	1970	2350		ug/Kg		119	70 - 130	2	20
1,1,1-Trichloroethane	1970	2230		ug/Kg		113	70 - 130	4	20
1,1,2-Trichloroethane	1970	2350		ug/Kg		119	70 - 130	10	20
Styrene	1970	2250		ug/Kg		114	70 - 130	12	20
Bromoform	1970	2130		ug/Kg		108	70 - 130	13	20
Trichloroethene	1970	2260		ug/Kg		115	70 - 130	2	20
Isopropylbenzene	1970	2320		ug/Kg		118	70 - 130	14	20
Trichlorofluoromethane	1970	2240		ug/Kg		114	40 - 160	7	20
1,1,2,2-Tetrachloroethane	1970	2290		ug/Kg		116	70 - 130	9	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne	1970	2120		ug/Kg		108	70 - 130	1	20
1,3-Dichlorobenzene	1970	2440		ug/Kg		124	70 - 130	8	20
Vinyl chloride	1970	2310		ug/Kg		117	70 - 130	7	20
1,4-Dichlorobenzene	1970	2200		ug/Kg		112	70 - 130	2	20
Xylenes, Total	3940	4570		ug/Kg		116	70 - 130	3	20
1,2-Dichlorobenzene	1970	2490		ug/Kg		127	70 - 130	11	20
1,2-Dibromo-3-Chloropropane	1970	2210		ug/Kg		112	40 - 160	1	20
1,2,4-Trichlorobenzene	1970	2260		ug/Kg		115	70 - 130	1	20
Cyclohexane	1970	2260		ug/Kg		115	70 - 130	5	20
Methyl acetate	9840	10800		ug/Kg		110	70 - 130	1	20
Methylcyclohexane	1970	2380		ug/Kg		121	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*117*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*
Dibromofluoromethane (Surr)	*115*		*70 - 130*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*

QC Association Summary

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

GC/MS VOA

Prep Batch: 417575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-120732-1	AOC4-SB-BLD-NW-15N(4.5-5.0)	Total/NA	Solid	5035	
680-120732-2	AOC4-SB-C-NW-10E(4.5-5.0)	Total/NA	Solid	5035	
680-120732-3	AOC6-SD-3-10N-E-Bank(2.5-3.0)	Total/NA	Solid	5035	
680-120732-4	AOC6-SD-3-10N-W-Bank(1.5-2.0)	Total/NA	Solid	5035	
680-120732-5	AOC6-SD-3-20W-(2.0-2.5)	Total/NA	Solid	5035	
680-120732-6	AOC6-SD-3-25N-(1.0-2.0)	Total/NA	Solid	5035	
680-120732-7	AOC6-SD-3-25N-E-Bank(2.0-2.5)	Total/NA	Solid	5035	
680-120732-8	AOC6-SD-3-25N-W-Bank(2.0-2.5)	Total/NA	Solid	5035	
680-120732-9	AOC6-SD-3-55N(1.0-2.0)	Total/NA	Solid	5035	
680-120732-10	AOC6-SD-3-55N-E-Bank(1.0-2.0)	Total/NA	Solid	5035	
680-120732-11	AOC6-SD-3-55N-W-Bank(1.0-2.0)	Total/NA	Solid	5035	

Analysis Batch: 417650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-120732-12	Equipment Rinsate	Total/NA	Water	8260B	
680-120732-13	Trip Blank	Total/NA	Water	8260B	
LCS 680-417650/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-417650/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-417650/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 417977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-120732-1	AOC4-SB-BLD-NW-15N(4.5-5.0)	Total/NA	Solid	8260B	417575
680-120732-2	AOC4-SB-C-NW-10E(4.5-5.0)	Total/NA	Solid	8260B	417575
680-120732-3	AOC6-SD-3-10N-E-Bank(2.5-3.0)	Total/NA	Solid	8260B	417575
LCS 680-417977/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-417977/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-417977/9	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 418123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-120732-4	AOC6-SD-3-10N-W-Bank(1.5-2.0)	Total/NA	Solid	8260B	417575
680-120732-5	AOC6-SD-3-20W-(2.0-2.5)	Total/NA	Solid	8260B	417575
680-120732-6	AOC6-SD-3-25N-(1.0-2.0)	Total/NA	Solid	8260B	417575
680-120732-7	AOC6-SD-3-25N-E-Bank(2.0-2.5)	Total/NA	Solid	8260B	417575
680-120732-8	AOC6-SD-3-25N-W-Bank(2.0-2.5)	Total/NA	Solid	8260B	417575
680-120732-9	AOC6-SD-3-55N(1.0-2.0)	Total/NA	Solid	8260B	417575
680-120732-10	AOC6-SD-3-55N-E-Bank(1.0-2.0)	Total/NA	Solid	8260B	417575
680-120732-11	AOC6-SD-3-55N-W-Bank(1.0-2.0)	Total/NA	Solid	8260B	417575
LCS 680-418123/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 680-418123/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-418123/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 680-418123/7	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-418123/10	Method Blank	Total/NA	Solid	8260B	
MB 680-418123/9	Method Blank	Total/NA	Solid	8260B	

QC Association Summary

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

General Chemistry

Analysis Batch: 417842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-120732-1	AOC4-SB-BLD-NW-15N(4.5-5.0)	Total/NA	Solid	Moisture	
680-120732-2	AOC4-SB-C-NW-10E(4.5-5.0)	Total/NA	Solid	Moisture	
680-120732-3	AOC6-SD-3-10N-E-Bank(2.5-3.0)	Total/NA	Solid	Moisture	
680-120732-4	AOC6-SD-3-10N-W-Bank(1.5-2.0)	Total/NA	Solid	Moisture	
680-120732-5	AOC6-SD-3-20W-(2.0-2.5)	Total/NA	Solid	Moisture	
680-120732-6	AOC6-SD-3-25N-(1.0-2.0)	Total/NA	Solid	Moisture	
680-120732-7	AOC6-SD-3-25N-E-Bank(2.0-2.5)	Total/NA	Solid	Moisture	
680-120732-8	AOC6-SD-3-25N-W-Bank(2.0-2.5)	Total/NA	Solid	Moisture	
680-120732-9	AOC6-SD-3-55N(1.0-2.0)	Total/NA	Solid	Moisture	
680-120732-10	AOC6-SD-3-55N-E-Bank(1.0-2.0)	Total/NA	Solid	Moisture	
680-120732-11	AOC6-SD-3-55N-W-Bank(1.0-2.0)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC4-SB-BLD-NW-15N(4.5-5.0)
Lab Sample ID: 680-120732-1
Date Collected: 01/07/16 16:20
Matrix: Solid
Date Received: 01/08/16 11:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			417842	01/12/16 12:15	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC4-SB-BLD-NW-15N(4.5-5.0)
Lab Sample ID: 680-120732-1
Date Collected: 01/07/16 16:20
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.184 g	5 mL	417575	01/08/16 13:20	FES	TAL SAV
Total/NA	Analysis	8260B		1	10.184 g	5 mL	417977	01/13/16 17:19	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: AOC4-SB-C-NW-10E(4.5-5.0)
Lab Sample ID: 680-120732-2
Date Collected: 01/06/16 17:02
Matrix: Solid
Date Received: 01/08/16 11:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			417842	01/12/16 12:15	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC4-SB-C-NW-10E(4.5-5.0)
Lab Sample ID: 680-120732-2
Date Collected: 01/06/16 17:02
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11.211 g	5 mL	417575	01/08/16 13:20	FES	TAL SAV
Total/NA	Analysis	8260B		1	11.211 g	5 mL	417977	01/13/16 17:43	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: AOC6-SD-3-10N-E-Bank(2.5-3.0)
Lab Sample ID: 680-120732-3
Date Collected: 01/07/16 10:12
Matrix: Solid
Date Received: 01/08/16 11:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			417842	01/12/16 12:15	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC6-SD-3-10N-E-Bank(2.5-3.0)
Lab Sample ID: 680-120732-3
Date Collected: 01/07/16 10:12
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.87 g	5 mL	417575	01/08/16 13:20	FES	TAL SAV

Lab Chronicle

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC6-SD-3-10N-E-Bank(2.5-3.0) — Lab Sample ID: 680-120732-3

Date Collected: 01/07/16 10:12 — **Matrix: Solid**
Date Received: 01/08/16 11:09 — **Percent Solids: 81.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10.87 g	5 mL	417977	01/13/16 18:06	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: AOC6-SD-3-10N-W-Bank(1.5-2.0) — Lab Sample ID: 680-120732-4

Date Collected: 01/07/16 12:07 — **Matrix: Solid**
Date Received: 01/08/16 11:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			417842	01/12/16 12:15	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC6-SD-3-10N-W-Bank(1.5-2.0) — Lab Sample ID: 680-120732-4

Date Collected: 01/07/16 12:07 — **Matrix: Solid**
Date Received: 01/08/16 11:09 — **Percent Solids: 84.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14.905 g	5 mL	417575	01/08/16 13:20	FES	TAL SAV
Total/NA	Analysis	8260B		1000	14.905 g	5 mL	418123	01/14/16 16:50	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: AOC6-SD-3-20W-(2.0-2.5) — Lab Sample ID: 680-120732-5

Date Collected: 01/07/16 11:40 — **Matrix: Solid**
Date Received: 01/08/16 11:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			417842	01/12/16 12:15	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC6-SD-3-20W-(2.0-2.5) — Lab Sample ID: 680-120732-5

Date Collected: 01/07/16 11:40 — **Matrix: Solid**
Date Received: 01/08/16 11:09 — **Percent Solids: 83.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12.048 g	5 mL	417575	01/08/16 13:20	FES	TAL SAV
Total/NA	Analysis	8260B		1	12.048 g	5 mL	418123	01/14/16 16:03	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: AOC6-SD-3-25N-(1.0-2.0) — Lab Sample ID: 680-120732-6

Date Collected: 01/07/16 09:27 — **Matrix: Solid**
Date Received: 01/08/16 11:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			417842	01/12/16 12:15	RAB	TAL SAV

Client Sample ID: AOC6-SD-3-25N-(1.0-2.0) — Lab Sample ID: 680-120732-6

Date Collected: 01/07/16 09:27 — **Matrix: Solid**
Date Received: 01/08/16 11:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			417842	01/12/16 12:15	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC6-SD-3-25N-(1.0-2.0) — Lab Sample ID: 680-120732-6

Date Collected: 01/07/16 09:27 — **Matrix: Solid**
Date Received: 01/08/16 11:09 — **Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15.357 g	5 mL	417575	01/08/16 13:20	FES	TAL SAV
Total/NA	Analysis	8260B		5000	15.357 g	5 mL	418123	01/14/16 17:13	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: AOC6-SD-3-25N-E-Bank(2.0-2.5) — Lab Sample ID: 680-120732-7

Date Collected: 01/07/16 10:25 — **Matrix: Solid**
Date Received: 01/08/16 11:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			417842	01/12/16 12:15	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC6-SD-3-25N-E-Bank(2.0-2.5) — Lab Sample ID: 680-120732-7

Date Collected: 01/07/16 10:25 — **Matrix: Solid**
Date Received: 01/08/16 11:09 — **Percent Solids: 79.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.736 g	5 mL	417575	01/08/16 13:20	FES	TAL SAV
Total/NA	Analysis	8260B		1	8.736 g	5 mL	418123	01/14/16 16:26	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: AOC6-SD-3-25N-W-Bank(2.0-2.5) — Lab Sample ID: 680-120732-8

Date Collected: 01/07/16 12:20 — **Matrix: Solid**
Date Received: 01/08/16 11:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			417842	01/12/16 12:15	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC6-SD-3-25N-W-Bank(2.0-2.5) — Lab Sample ID: 680-120732-8

Date Collected: 01/07/16 12:20 — **Matrix: Solid**
Date Received: 01/08/16 11:09 — **Percent Solids: 87.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15.493 g	5 mL	417575	01/08/16 13:20	FES	TAL SAV

Lab Chronicle

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC6-SD-3-25N-W-Bank(2.0-2.5) — Lab Sample ID: 680-120732-8

Date Collected: 01/07/16 12:20 — **Matrix: Solid**
Date Received: 01/08/16 11:09 — **Percent Solids: 87.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		250	15.493 g	5 mL	418123	01/14/16 18:53	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: AOC6-SD-3-55N(1.0-2.0) — Lab Sample ID: 680-120732-9

Date Collected: 01/07/16 09:50 — **Matrix: Solid**
Date Received: 01/08/16 11:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			417842	01/12/16 12:15	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC6-SD-3-55N(1.0-2.0) — Lab Sample ID: 680-120732-9

Date Collected: 01/07/16 09:50 — **Matrix: Solid**
Date Received: 01/08/16 11:09 — **Percent Solids: 80.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11.716 g	5 mL	417575	01/08/16 13:20	FES	TAL SAV
Total/NA	Analysis	8260B		40	11.716 g	5 mL	418123	01/14/16 20:28	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: AOC6-SD-3-55N-E-Bank(1.0-2.0) — Lab Sample ID: 680-120732-10

Date Collected: 01/07/16 10:48 — **Matrix: Solid**
Date Received: 01/08/16 11:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			417842	01/12/16 12:15	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC6-SD-3-55N-E-Bank(1.0-2.0) — Lab Sample ID: 680-120732-10

Date Collected: 01/07/16 10:48 — **Matrix: Solid**
Date Received: 01/08/16 11:09 — **Percent Solids: 82.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.696 g	5 mL	417575	01/08/16 13:20	FES	TAL SAV
Total/NA	Analysis	8260B		1	6.696 g	5 mL	418123	01/14/16 20:04	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: AOC6-SD-3-55N-W-Bank(1.0-2.0) — Lab Sample ID: 680-120732-11

Date Collected: 01/07/16 12:37 — **Matrix: Solid**
Date Received: 01/08/16 11:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			417842	01/12/16 12:15	RAB	TAL SAV

Lab Chronicle

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Client Sample ID: AOC6-SD-3-55N-W-Bank(1.0-2.0)

Lab Sample ID: 680-120732-11
Date Collected: 01/07/16 12:37
Matrix: Solid
Date Received: 01/08/16 11:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			417842	01/12/16 12:15	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOC6-SD-3-55N-W-Bank(1.0-2.0)

Lab Sample ID: 680-120732-11
Date Collected: 01/07/16 12:37
Matrix: Solid
Date Received: 01/08/16 11:09
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13.287 g	5 mL	417575	01/08/16 13:20	FES	TAL SAV
Total/NA	Analysis	8260B		1	13.287 g	5 mL	418123	01/14/16 19:41	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: Equipment Rinsate

Lab Sample ID: 680-120732-12
Date Collected: 01/07/16 17:10
Matrix: Water
Date Received: 01/08/16 11:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	417650	01/11/16 11:19	JLK	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: Trip Blank

Lab Sample ID: 680-120732-13
Date Collected: 01/06/16 12:00
Matrix: Water
Date Received: 01/08/16 11:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	417650	01/11/16 10:58	JLK	TAL SAV
	Instrument ID: CMSA2									

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☑

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: EIC	Project Manager: Alan Sanders	Date: 1/18/16	Chain of Custody Number: 187048
Address: 161 Kimball Bridge Rd Alpharetta, GA 30009	Telephone Number (Area Code)/Fax Number: 770-772-7100	Lab Number	Page 1 of 2
City: Alpharetta; State: GA; Zip Code: 30009	Site Contact	Lab Contact: Sheila Hoffman	
Project Name and Location (State): MTL- Portwentworth	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 460012			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	MeOH	8260B
AOC4-SB-BLD-NW-15N (4.5-5.0)	1/7/16	16:20				✓		1			2			1	✓
AOC4-SB-C-10E (4.5-5.0)	1/6/16	17:02				✓		1			2			1	✓
AOC6-SD-3-10N-E-Bank (2.5-3.0)	1/7/16	10:12				✓		1			2			1	✓
AOC6-SD-3-10N-W-Bank (1.5-2.0)	1/7/16	12:07				✓		1			2			1	✓
AOC6-SD-3-20W (2.0-2.5)	1/7/16	11:40				✓		1			2			1	✓
AOC6-SD-3-25N (1.0-2.0)	1/7/16	9:27			✓			1			2			1	✓
AOC6-SD-3-25N-E-Bank (2.0-2.5)	1/7/16	10:25				✓		1			2			1	✓
AOC6-SD-3-25N-W-Bank (2.0-2.5)	1/7/16	12:20				✓		1			2			1	✓
AOC6-SD-3-55N (1.0-2.0)	1/7/16	9:50			✓			1			2			1	✓
AOC6-SD-3-55N-E-Bank (1.0-2.0)	1/7/16	10:48				✓		1			2			1	✓
AOC6-SD-3-55N-W-Bank (2.0-2.5)	1/7/16	12:37				✓		1			2			1	✓
ADG ~~Rinsate~~ Equipment Rinsate	1/7/16	17:10		✓					3						✓

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

680-120732 Chain of Custody

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☑ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify): 0.8/1.2 680-120732

	Date	Time		Date	Time
1. Relinquished By: Amelia Grant	1/8/16	9:17	1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By	1-8-16	09:17

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Serial Number 104535

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax.

PROJECT REFERENCE: MTL Port Wentworth	PROJECT NO.: 460012	PROJECT LOCATION (STATE): GA
TAL (LAB) PROJECT MANAGER: Sheila Hoffman	P.O. NUMBER: —	CONTRACT NO: —
CLIENT (SITE) PM: Alan Sanders	CLIENT PHONE: 773-772-7100	CLIENT FAX: —
CLIENT NAME: EIC	CLIENT E-MAIL: asanders@eic usa.com	
CLIENT ADDRESS: 161 Kimball Bridge Rd, Alpharetta GA 30004		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT.

REQUIRED ANALYSIS: HCl 8260B

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1/6/16	12:00	Trip Blank	G	✓				3	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	1/8/16	9:17						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	1-8-16	09:17	YES ✓ NO ○			

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Environmental International Corporation

Job Number: 680-120732-1

Login Number: 120732
List Number: 1
Creator: Kicklighter, Marilyn D

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental International Corporation
Project/Site: MTL - Port Wentworth

TestAmerica Job ID: 680-120732-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	803	06-30-16

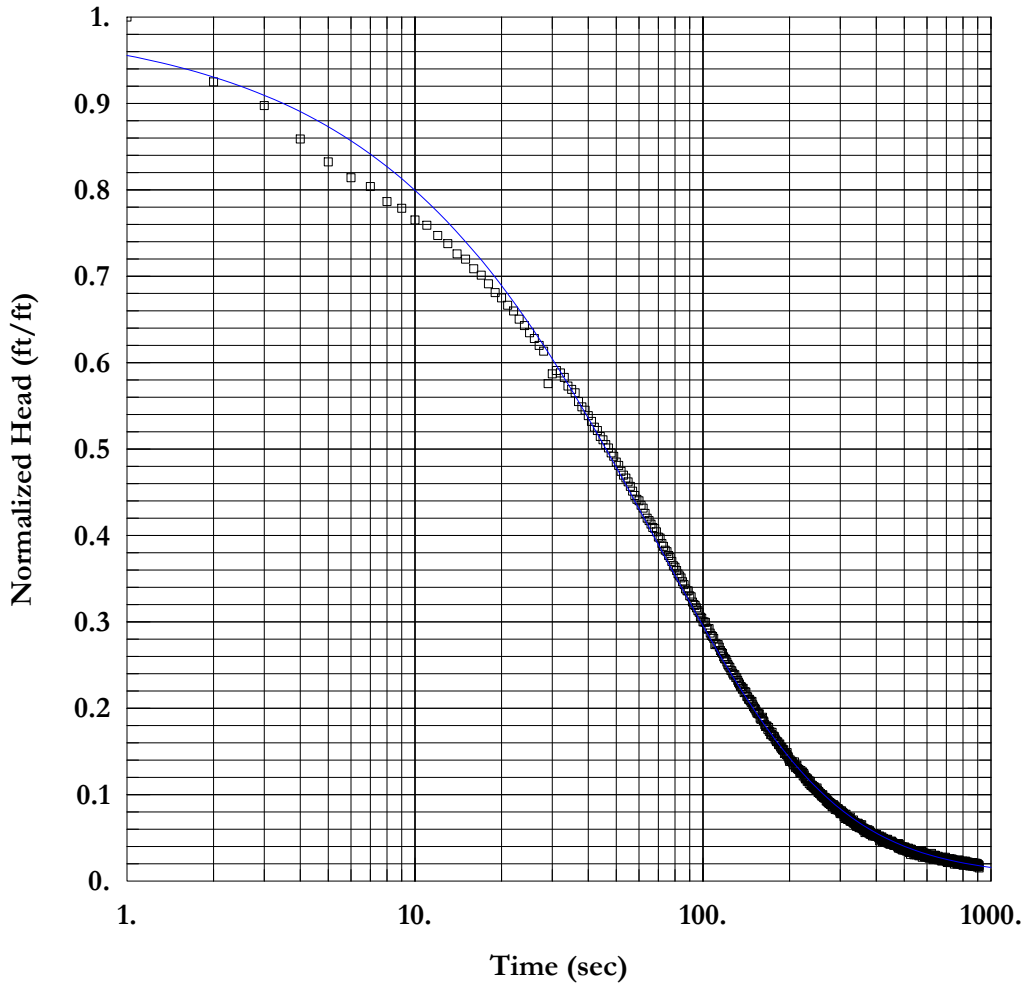
HSI SITE 10406, FORMER MCKENZIE TANK LINES SITE

FOURTH SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT 6-1
RW-8 FALLING HEAD TEST NO. 1 KGS MODEL ANALYSIS AND FIELD DATA TABLE

RW-8 Falling Head Test No. 1

Prepared By:	Prepared For:
EIC	McKenzie Tank Lines
Project:	Location:
460010	Port Wentworth, GA



SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.000873 cm/sec Ss = 0.0004901 ft^{-1}
Kz/Kr = 0.01

AQUIFER DATA

Saturated Thickness: 50. ft

WELL DATA (RW-8)

Initial Displacement: 1.784 ft
Static Water Column Height: 29.14 ft
Total Well Penetration Depth: 29.14 ft
Screen Length: 20. ft
Casing Radius: 0.1667 ft
Well Radius: 0.1667 ft
Gravel Pack Porosity: 0.3

Data Set: \\EICSERVER\Company Files\projects\1910 project-GA\460000 McKenzie Tank Lines\460001, 002 Preliminary Evaluation, VIRP\120 draft EIC rep
Title: RW-8 Falling Head Test No. 1
Date: 05/11/16
Time: 18:05:17

PROJECT INFORMATION

Company: EIC
Client: McKenzie Tank Lines
Project: 460010
Location: Port Wentworth, GA
Test Date: 1/5/16
Test Well: RW-8

AQUIFER DATA

Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 0.01

SLUG TEST WELL DATA

Test Well: RW-8

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.784 ft
Static Water Column Height: 29.14 ft
Casing Radius: 0.1667 ft
Well Radius: 0.1667 ft
Well Skin Radius: 0.1667 ft
Screen Length: 20. ft
Total Well Penetration Depth: 29.14 ft
Corrected Casing Radius (Butler Method): 0.174 ft
Expected Initial Displacement: 1.99 ft

No. of Observations: 910

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.	1.784	456.	0.077
2.	1.65	457.	0.079
3.	1.601	458.	0.077
4.	1.532	459.	0.074
5.	1.485	460.	0.076
6.	1.452	461.	0.076
7.	1.434	462.	0.074
8.	1.403	463.	0.075
9.	1.389	464.	0.075
10.	1.365	465.	0.074
11.	1.354	466.	0.076
12.	1.333	467.	0.074
13.	1.316	468.	0.076
14.	1.295	469.	0.074
15.	1.284	470.	0.076
16.	1.264	471.	0.076
17.	1.251	472.	0.077
18.	1.233	473.	0.072
19.	1.215	474.	0.075
20.	1.204	475.	0.077
21.	1.189	476.	0.07
22.	1.177	477.	0.068
23.	1.16	478.	0.077
24.	1.147	479.	0.071
25.	1.132	480.	0.073
26.	1.12	481.	0.076
27.	1.106	482.	0.07
28.	1.094	483.	0.067
29.	1.027	484.	0.071
30.	1.047	485.	0.072
31.	1.054	486.	0.069

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
32.	1.049	487.	0.068
33.	1.04	488.	0.066
34.	1.022	489.	0.07
35.	1.015	490.	0.069
36.	1.008	491.	0.071
37.	0.99	492.	0.067
38.	0.979	493.	0.064
39.	0.972	494.	0.068
40.	0.961	495.	0.07
41.	0.949	496.	0.07
42.	0.937	497.	0.068
43.	0.93	498.	0.068
44.	0.918	499.	0.064
45.	0.911	500.	0.066
46.	0.901	501.	0.066
47.	0.894	502.	0.07
48.	0.884	503.	0.07
49.	0.877	504.	0.068
50.	0.865	505.	0.064
51.	0.858	506.	0.065
52.	0.846	507.	0.064
53.	0.838	508.	0.062
54.	0.832	509.	0.066
55.	0.824	510.	0.065
56.	0.815	511.	0.066
57.	0.805	512.	0.064
58.	0.796	513.	0.063
59.	0.788	514.	0.066
60.	0.785	515.	0.061
61.	0.776	516.	0.066
62.	0.77	517.	0.068
63.	0.759	518.	0.066
64.	0.749	519.	0.063
65.	0.744	520.	0.064
66.	0.737	521.	0.059
67.	0.73	522.	0.062
68.	0.728	523.	0.06
69.	0.721	524.	0.063
70.	0.71	525.	0.063
71.	0.708	526.	0.055
72.	0.697	527.	0.063
73.	0.691	528.	0.066
74.	0.683	529.	0.064
75.	0.68	530.	0.065
76.	0.672	531.	0.059
77.	0.668	532.	0.062
78.	0.66	533.	0.059
79.	0.651	534.	0.059
80.	0.648	535.	0.06
81.	0.641	536.	0.062
82.	0.634	537.	0.061
83.	0.63	538.	0.058
84.	0.626	539.	0.063
85.	0.618	540.	0.054
86.	0.612	541.	0.059
87.	0.603	542.	0.06
88.	0.599	543.	0.058
89.	0.599	544.	0.057
90.	0.589	545.	0.058
91.	0.587	546.	0.059
92.	0.576	547.	0.059
93.	0.571	548.	0.059
94.	0.569	549.	0.054
95.	0.564	550.	0.058
96.	0.558	551.	0.059
97.	0.555	552.	0.059
98.	0.545	553.	0.057
99.	0.543	554.	0.058
100.	0.535	555.	0.059
101.	0.535	556.	0.058

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
102.	0.534	557.	0.057
103.	0.522	558.	0.056
104.	0.52	559.	0.056
105.	0.521	560.	0.059
106.	0.512	561.	0.061
107.	0.507	562.	0.052
108.	0.505	563.	0.057
109.	0.501	564.	0.055
110.	0.488	565.	0.056
111.	0.49	566.	0.06
112.	0.488	567.	0.054
113.	0.488	568.	0.053
114.	0.483	569.	0.056
115.	0.476	570.	0.056
116.	0.472	571.	0.053
117.	0.47	572.	0.058
118.	0.463	573.	0.056
119.	0.459	574.	0.061
120.	0.458	575.	0.057
121.	0.452	576.	0.056
122.	0.447	577.	0.049
123.	0.444	578.	0.053
124.	0.441	579.	0.06
125.	0.435	580.	0.054
126.	0.434	581.	0.055
127.	0.429	582.	0.053
128.	0.425	583.	0.054
129.	0.426	584.	0.055
130.	0.42	585.	0.054
131.	0.42	586.	0.058
132.	0.414	587.	0.053
133.	0.41	588.	0.05
134.	0.407	589.	0.054
135.	0.402	590.	0.05
136.	0.401	591.	0.053
137.	0.396	592.	0.05
138.	0.398	593.	0.055
139.	0.389	594.	0.052
140.	0.391	595.	0.051
141.	0.39	596.	0.051
142.	0.381	597.	0.054
143.	0.38	598.	0.05
144.	0.375	599.	0.056
145.	0.375	600.	0.053
146.	0.372	601.	0.051
147.	0.369	602.	0.05
148.	0.371	603.	0.05
149.	0.364	604.	0.051
150.	0.36	605.	0.052
151.	0.357	606.	0.049
152.	0.355	607.	0.051
153.	0.351	608.	0.053
154.	0.347	609.	0.049
155.	0.346	610.	0.047
156.	0.345	611.	0.053
157.	0.345	612.	0.052
158.	0.336	613.	0.05
159.	0.334	614.	0.049
160.	0.336	615.	0.051
161.	0.338	616.	0.05
162.	0.331	617.	0.049
163.	0.329	618.	0.051
164.	0.323	619.	0.051
165.	0.319	620.	0.054
166.	0.32	621.	0.048
167.	0.32	622.	0.057
168.	0.313	623.	0.049
169.	0.317	624.	0.05
170.	0.309	625.	0.048
171.	0.308	626.	0.052

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
172.	0.302	627.	0.052
173.	0.303	628.	0.052
174.	0.307	629.	0.044
175.	0.299	630.	0.051
176.	0.299	631.	0.047
177.	0.298	632.	0.052
178.	0.294	633.	0.048
179.	0.291	634.	0.048
180.	0.288	635.	0.047
181.	0.288	636.	0.052
182.	0.287	637.	0.051
183.	0.282	638.	0.047
184.	0.281	639.	0.053
185.	0.283	640.	0.049
186.	0.277	641.	0.047
187.	0.274	642.	0.053
188.	0.276	643.	0.047
189.	0.271	644.	0.047
190.	0.27	645.	0.048
191.	0.271	646.	0.049
192.	0.263	647.	0.045
193.	0.265	648.	0.045
194.	0.263	649.	0.048
195.	0.261	650.	0.046
196.	0.265	651.	0.048
197.	0.258	652.	0.048
198.	0.256	653.	0.048
199.	0.252	654.	0.044
200.	0.247	655.	0.048
201.	0.25	656.	0.051
202.	0.247	657.	0.044
203.	0.247	658.	0.046
204.	0.247	659.	0.046
205.	0.244	660.	0.047
206.	0.24	661.	0.044
207.	0.241	662.	0.045
208.	0.246	663.	0.047
209.	0.237	664.	0.045
210.	0.234	665.	0.047
211.	0.237	666.	0.044
212.	0.239	667.	0.048
213.	0.232	668.	0.044
214.	0.231	669.	0.046
215.	0.23	670.	0.044
216.	0.229	671.	0.046
217.	0.224	672.	0.047
218.	0.223	673.	0.046
219.	0.228	674.	0.045
220.	0.224	675.	0.041
221.	0.224	676.	0.043
222.	0.225	677.	0.043
223.	0.217	678.	0.043
224.	0.222	679.	0.049
225.	0.219	680.	0.045
226.	0.214	681.	0.043
227.	0.211	682.	0.046
228.	0.214	683.	0.046
229.	0.211	684.	0.043
230.	0.206	685.	0.047
231.	0.211	686.	0.046
232.	0.206	687.	0.043
233.	0.207	688.	0.045
234.	0.201	689.	0.044
235.	0.206	690.	0.043
236.	0.206	691.	0.043
237.	0.198	692.	0.042
238.	0.197	693.	0.046
239.	0.198	694.	0.044
240.	0.197	695.	0.049
241.	0.194	696.	0.046

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
242.	0.195	697.	0.047
243.	0.192	698.	0.042
244.	0.194	699.	0.041
245.	0.192	700.	0.044
246.	0.19	701.	0.042
247.	0.189	702.	0.042
248.	0.188	703.	0.043
249.	0.192	704.	0.041
250.	0.187	705.	0.042
251.	0.183	706.	0.038
252.	0.185	707.	0.041
253.	0.184	708.	0.04
254.	0.181	709.	0.042
255.	0.181	710.	0.04
256.	0.181	711.	0.042
257.	0.178	712.	0.043
258.	0.177	713.	0.041
259.	0.175	714.	0.043
260.	0.178	715.	0.042
261.	0.178	716.	0.043
262.	0.173	717.	0.04
263.	0.172	718.	0.043
264.	0.173	719.	0.045
265.	0.171	720.	0.044
266.	0.172	721.	0.046
267.	0.171	722.	0.04
268.	0.165	723.	0.042
269.	0.168	724.	0.038
270.	0.167	725.	0.038
271.	0.163	726.	0.04
272.	0.165	727.	0.038
273.	0.161	728.	0.044
274.	0.163	729.	0.043
275.	0.16	730.	0.038
276.	0.162	731.	0.045
277.	0.158	732.	0.04
278.	0.16	733.	0.038
279.	0.159	734.	0.045
280.	0.157	735.	0.042
281.	0.153	736.	0.038
282.	0.154	737.	0.043
283.	0.157	738.	0.044
284.	0.157	739.	0.039
285.	0.157	740.	0.04
286.	0.155	741.	0.042
287.	0.152	742.	0.039
288.	0.148	743.	0.04
289.	0.153	744.	0.041
290.	0.148	745.	0.042
291.	0.149	746.	0.043
292.	0.147	747.	0.035
293.	0.149	748.	0.038
294.	0.149	749.	0.042
295.	0.149	750.	0.041
296.	0.146	751.	0.042
297.	0.147	752.	0.038
298.	0.144	753.	0.04
299.	0.14	754.	0.039
300.	0.145	755.	0.042
301.	0.139	756.	0.042
302.	0.141	757.	0.039
303.	0.145	758.	0.038
304.	0.141	759.	0.042
305.	0.142	760.	0.038
306.	0.139	761.	0.04
307.	0.139	762.	0.037
308.	0.14	763.	0.035
309.	0.133	764.	0.039
310.	0.136	765.	0.038
311.	0.137	766.	0.036

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
312.	0.129	767.	0.04
313.	0.132	768.	0.039
314.	0.138	769.	0.037
315.	0.131	770.	0.037
316.	0.133	771.	0.042
317.	0.132	772.	0.043
318.	0.127	773.	0.038
319.	0.132	774.	0.036
320.	0.13	775.	0.039
321.	0.129	776.	0.038
322.	0.129	777.	0.043
323.	0.129	778.	0.037
324.	0.124	779.	0.036
325.	0.132	780.	0.039
326.	0.123	781.	0.037
327.	0.125	782.	0.039
328.	0.125	783.	0.036
329.	0.123	784.	0.039
330.	0.122	785.	0.038
331.	0.122	786.	0.035
332.	0.122	787.	0.04
333.	0.126	788.	0.038
334.	0.119	789.	0.039
335.	0.121	790.	0.039
336.	0.12	791.	0.039
337.	0.121	792.	0.038
338.	0.118	793.	0.037
339.	0.116	794.	0.034
340.	0.119	795.	0.038
341.	0.113	796.	0.037
342.	0.114	797.	0.038
343.	0.113	798.	0.038
344.	0.116	799.	0.041
345.	0.119	800.	0.033
346.	0.119	801.	0.038
347.	0.114	802.	0.033
348.	0.111	803.	0.036
349.	0.116	804.	0.037
350.	0.11	805.	0.037
351.	0.112	806.	0.038
352.	0.116	807.	0.037
353.	0.112	808.	0.037
354.	0.112	809.	0.036
355.	0.11	810.	0.037
356.	0.116	811.	0.035
357.	0.108	812.	0.04
358.	0.109	813.	0.035
359.	0.109	814.	0.036
360.	0.109	815.	0.038
361.	0.105	816.	0.041
362.	0.109	817.	0.037
363.	0.108	818.	0.035
364.	0.106	819.	0.04
365.	0.1	820.	0.035
366.	0.104	821.	0.033
367.	0.107	822.	0.039
368.	0.102	823.	0.038
369.	0.106	824.	0.033
370.	0.101	825.	0.035
371.	0.104	826.	0.034
372.	0.102	827.	0.037
373.	0.101	828.	0.038
374.	0.106	829.	0.037
375.	0.101	830.	0.037
376.	0.099	831.	0.035
377.	0.1	832.	0.034
378.	0.102	833.	0.039
379.	0.104	834.	0.036
380.	0.097	835.	0.036
381.	0.1	836.	0.033

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
382.	0.101	837.	0.034
383.	0.096	838.	0.038
384.	0.097	839.	0.037
385.	0.096	840.	0.034
386.	0.096	841.	0.033
387.	0.096	842.	0.033
388.	0.093	843.	0.034
389.	0.095	844.	0.031
390.	0.098	845.	0.034
391.	0.095	846.	0.034
392.	0.096	847.	0.034
393.	0.098	848.	0.034
394.	0.096	849.	0.038
395.	0.093	850.	0.034
396.	0.096	851.	0.034
397.	0.093	852.	0.036
398.	0.095	853.	0.033
399.	0.094	854.	0.033
400.	0.095	855.	0.035
401.	0.096	856.	0.032
402.	0.092	857.	0.034
403.	0.092	858.	0.035
404.	0.092	859.	0.032
405.	0.092	860.	0.035
406.	0.092	861.	0.032
407.	0.091	862.	0.031
408.	0.089	863.	0.037
409.	0.09	864.	0.036
410.	0.093	865.	0.036
411.	0.083	866.	0.038
412.	0.087	867.	0.033
413.	0.088	868.	0.034
414.	0.088	869.	0.037
415.	0.086	870.	0.033
416.	0.09	871.	0.036
417.	0.086	872.	0.031
418.	0.091	873.	0.036
419.	0.087	874.	0.036
420.	0.081	875.	0.036
421.	0.086	876.	0.037
422.	0.087	877.	0.033
423.	0.083	878.	0.03
424.	0.088	879.	0.033
425.	0.085	880.	0.036
426.	0.085	881.	0.033
427.	0.081	882.	0.036
428.	0.085	883.	0.032
429.	0.081	884.	0.03
430.	0.084	885.	0.032
431.	0.084	886.	0.034
432.	0.083	887.	0.031
433.	0.086	888.	0.037
434.	0.083	889.	0.033
435.	0.082	890.	0.036
436.	0.08	891.	0.032
437.	0.083	892.	0.03
438.	0.086	893.	0.034
439.	0.078	894.	0.034
440.	0.082	895.	0.035
441.	0.079	896.	0.029
442.	0.079	897.	0.03
443.	0.08	898.	0.035
444.	0.08	899.	0.035
445.	0.076	900.	0.035
446.	0.079	901.	0.034
447.	0.079	902.	0.032
448.	0.076	903.	0.033
449.	0.078	904.	0.032
450.	0.082	905.	0.032
451.	0.08	906.	0.033

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
452.	0.08	907.	0.03
453.	0.082	908.	0.033
454.	0.079	909.	0.032
455.	0.076	910.	0.027

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	0.000873	cm/sec
Ss	0.0004901	ft^{-1}
Kz/Kr	0.01	

T = K*b = 1.331 cm^2/sec

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	0.000873	4.234E-6	+/- 8.311E-6	206.2	cm/sec
Ss	0.0004901	1.378E-5	+/- 2.705E-5	35.57	ft^{-1}
Kz/Kr	0.01	not estimated			

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

T = K*b = 1.331 cm^2/sec

Parameter Correlations

	Kr	Ss
Kr	1.00	-0.95
Ss	-0.95	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.09379 ft^2
Variance . . . . . 0.0001033 ft^2
Std. Deviation . . . . . 0.01016 ft
Mean . . . . . -0.002174 ft
No. of Residuals 910
No. of Estimates. 2

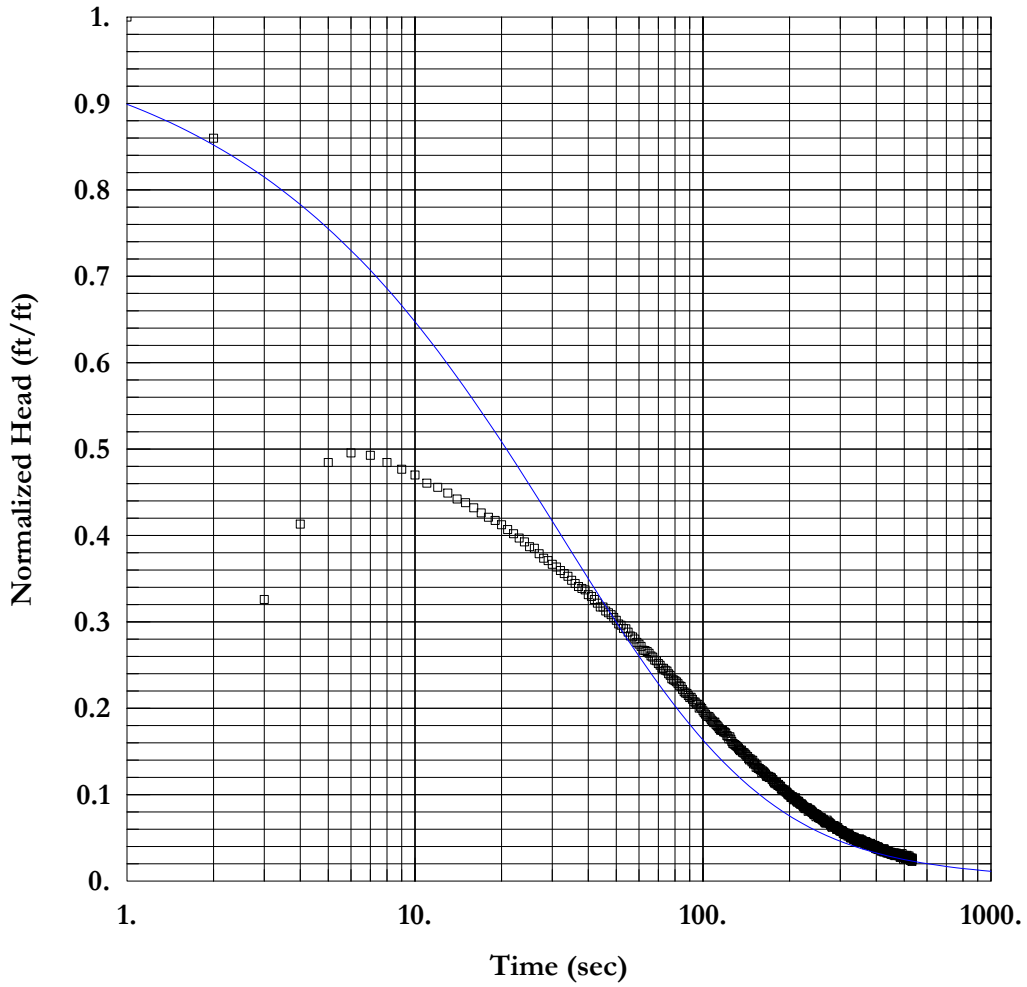
HSI SITE 10406, FORMER MCKENZIE TANK LINES SITE

FOURTH SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT 6-2
RW-8 FALLING HEAD TEST NO. 2 KGS MODEL ANALYSIS AND FIELD DATA TABLE

RW-8 Falling Head Test No. 2

Prepared By:	Prepared For:
EIC	McKenzie Tank Lines
Project:	Location:
460010	Port Wentworth, GA



SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.0007083 cm/sec Ss = 0.002 ft^{-1}
Kz/Kr = 0.001

AQUIFER DATA

Saturated Thickness: 50. ft

WELL DATA (RW-8)

Initial Displacement: 2.864 ft
Static Water Column Height: 29.14 ft
Total Well Penetration Depth: 29.14 ft
Screen Length: 20. ft
Casing Radius: 0.1667 ft
Well Radius: 0.1667 ft
Gravel Pack Porosity: 0.3

Data Set: \\EICSERVER\Company Files\projects\1910 project-GA\460000 McKenzie Tank Lines\460001, 002 Preliminary Evaluation, VIRP\120 draft EIC rep
Title: RW-8 Falling Head Test No. 2
Date: 05/11/16
Time: 18:05:47

PROJECT INFORMATION

Company: EIC
Client: McKenzie Tank Lines
Project: 460010
Location: Port Wentworth, GA
Test Date: 1/5/16
Test Well: RW-8

AQUIFER DATA

Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 0.001

SLUG TEST WELL DATA

Test Well: RW-8

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 2.864 ft
Static Water Column Height: 29.14 ft
Casing Radius: 0.1667 ft
Well Radius: 0.1667 ft
Well Skin Radius: 0.1667 ft
Screen Length: 20. ft
Total Well Penetration Depth: 29.14 ft
Corrected Casing Radius (Butler Method): 0.1374 ft
Expected Initial Displacement: 1.99 ft

No. of Observations: 534

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.	2.864	268.	0.193
2.	2.462	269.	0.196
3.	0.933	270.	0.202
4.	1.183	271.	0.193
5.	1.387	272.	0.196
6.	1.419	273.	0.195
7.	1.411	274.	0.193
8.	1.387	275.	0.192
9.	1.365	276.	0.191
10.	1.346	277.	0.186
11.	1.319	278.	0.189
12.	1.305	279.	0.182
13.	1.286	280.	0.182
14.	1.266	281.	0.178
15.	1.254	282.	0.184
16.	1.237	283.	0.184
17.	1.22	284.	0.184
18.	1.206	285.	0.183
19.	1.195	286.	0.181
20.	1.181	287.	0.18
21.	1.165	288.	0.182
22.	1.151	289.	0.178
23.	1.137	290.	0.178
24.	1.124	291.	0.171
25.	1.108	292.	0.174
26.	1.103	293.	0.173
27.	1.085	294.	0.177
28.	1.07	295.	0.171
29.	1.062	296.	0.17
30.	1.05	297.	0.17
31.	1.041	298.	0.169

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
32.	1.029	299.	0.166
33.	1.019	300.	0.167
34.	1.01	301.	0.166
35.	0.997	302.	0.166
36.	0.986	303.	0.165
37.	0.976	304.	0.167
38.	0.97	305.	0.165
39.	0.965	306.	0.163
40.	0.949	307.	0.158
41.	0.943	308.	0.161
42.	0.933	309.	0.16
43.	0.921	310.	0.157
44.	0.908	311.	0.158
45.	0.908	312.	0.154
46.	0.895	313.	0.159
47.	0.889	314.	0.155
48.	0.883	315.	0.153
49.	0.874	316.	0.154
50.	0.864	317.	0.156
51.	0.852	318.	0.154
52.	0.848	319.	0.149
53.	0.837	320.	0.153
54.	0.836	321.	0.157
55.	0.825	322.	0.15
56.	0.812	323.	0.152
57.	0.809	324.	0.15
58.	0.802	325.	0.143
59.	0.791	326.	0.145
60.	0.785	327.	0.143
61.	0.778	328.	0.147
62.	0.765	329.	0.144
63.	0.764	330.	0.145
64.	0.761	331.	0.145
65.	0.755	332.	0.145
66.	0.746	333.	0.14
67.	0.742	334.	0.137
68.	0.732	335.	0.145
69.	0.73	336.	0.139
70.	0.721	337.	0.142
71.	0.715	338.	0.141
72.	0.705	339.	0.137
73.	0.705	340.	0.135
74.	0.699	341.	0.133
75.	0.696	342.	0.139
76.	0.687	343.	0.132
77.	0.682	344.	0.134
78.	0.67	345.	0.131
79.	0.667	346.	0.137
80.	0.664	347.	0.138
81.	0.66	348.	0.136
82.	0.654	349.	0.133
83.	0.647	350.	0.14
84.	0.645	351.	0.133
85.	0.635	352.	0.137
86.	0.627	353.	0.132
87.	0.623	354.	0.132
88.	0.622	355.	0.132
89.	0.615	356.	0.136
90.	0.608	357.	0.128
91.	0.609	358.	0.129
92.	0.602	359.	0.133
93.	0.594	360.	0.131
94.	0.593	361.	0.13
95.	0.587	362.	0.127
96.	0.586	363.	0.126
97.	0.573	364.	0.126
98.	0.577	365.	0.129
99.	0.572	366.	0.125
100.	0.564	367.	0.127
101.	0.558	368.	0.131

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
102.	0.553	369.	0.125
103.	0.546	370.	0.12
104.	0.546	371.	0.126
105.	0.545	372.	0.127
106.	0.54	373.	0.125
107.	0.534	374.	0.121
108.	0.53	375.	0.122
109.	0.525	376.	0.124
110.	0.527	377.	0.119
111.	0.519	378.	0.124
112.	0.515	379.	0.124
113.	0.511	380.	0.12
114.	0.505	381.	0.119
115.	0.5	382.	0.125
116.	0.5	383.	0.119
117.	0.499	384.	0.12
118.	0.494	385.	0.119
119.	0.494	386.	0.118
120.	0.491	387.	0.12
121.	0.482	388.	0.118
122.	0.48	389.	0.116
123.	0.471	390.	0.119
124.	0.478	391.	0.115
125.	0.47	392.	0.113
126.	0.463	393.	0.117
127.	0.456	394.	0.114
128.	0.454	395.	0.117
129.	0.452	396.	0.118
130.	0.449	397.	0.111
131.	0.447	398.	0.108
132.	0.444	399.	0.107
133.	0.44	400.	0.114
134.	0.435	401.	0.111
135.	0.432	402.	0.11
136.	0.434	403.	0.11
137.	0.427	404.	0.114
138.	0.425	405.	0.104
139.	0.425	406.	0.108
140.	0.421	407.	0.112
141.	0.418	408.	0.11
142.	0.413	409.	0.106
143.	0.413	410.	0.106
144.	0.406	411.	0.104
145.	0.401	412.	0.106
146.	0.405	413.	0.105
147.	0.401	414.	0.103
148.	0.395	415.	0.104
149.	0.4	416.	0.099
150.	0.388	417.	0.103
151.	0.391	418.	0.106
152.	0.387	419.	0.105
153.	0.377	420.	0.104
154.	0.385	421.	0.102
155.	0.375	422.	0.097
156.	0.373	423.	0.106
157.	0.373	424.	0.104
158.	0.369	425.	0.105
159.	0.369	426.	0.107
160.	0.359	427.	0.096
161.	0.365	428.	0.098
162.	0.362	429.	0.102
163.	0.361	430.	0.099
164.	0.357	431.	0.099
165.	0.354	432.	0.099
166.	0.347	433.	0.098
167.	0.348	434.	0.099
168.	0.346	435.	0.093
169.	0.347	436.	0.099
170.	0.343	437.	0.094
171.	0.344	438.	0.101

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
172.	0.344	439.	0.093
173.	0.342	440.	0.096
174.	0.336	441.	0.093
175.	0.336	442.	0.097
176.	0.33	443.	0.095
177.	0.325	444.	0.094
178.	0.327	445.	0.095
179.	0.322	446.	0.094
180.	0.327	447.	0.09
181.	0.321	448.	0.092
182.	0.317	449.	0.094
183.	0.32	450.	0.095
184.	0.316	451.	0.092
185.	0.313	452.	0.088
186.	0.314	453.	0.09
187.	0.307	454.	0.091
188.	0.302	455.	0.091
189.	0.305	456.	0.091
190.	0.302	457.	0.087
191.	0.301	458.	0.087
192.	0.299	459.	0.091
193.	0.302	460.	0.093
194.	0.295	461.	0.09
195.	0.295	462.	0.09
196.	0.293	463.	0.084
197.	0.288	464.	0.088
198.	0.288	465.	0.093
199.	0.285	466.	0.088
200.	0.285	467.	0.086
201.	0.285	468.	0.086
202.	0.277	469.	0.087
203.	0.28	470.	0.09
204.	0.277	471.	0.092
205.	0.279	472.	0.088
206.	0.271	473.	0.085
207.	0.269	474.	0.088
208.	0.273	475.	0.086
209.	0.274	476.	0.084
210.	0.276	477.	0.087
211.	0.267	478.	0.086
212.	0.263	479.	0.087
213.	0.261	480.	0.085
214.	0.265	481.	0.088
215.	0.264	482.	0.084
216.	0.258	483.	0.087
217.	0.258	484.	0.079
218.	0.255	485.	0.079
219.	0.255	486.	0.082
220.	0.256	487.	0.081
221.	0.253	488.	0.083
222.	0.251	489.	0.086
223.	0.248	490.	0.083
224.	0.245	491.	0.08
225.	0.246	492.	0.091
226.	0.24	493.	0.084
227.	0.242	494.	0.078
228.	0.24	495.	0.077
229.	0.242	496.	0.084
230.	0.242	497.	0.071
231.	0.242	498.	0.078
232.	0.231	499.	0.084
233.	0.236	500.	0.085
234.	0.238	501.	0.081
235.	0.233	502.	0.078
236.	0.235	503.	0.075
237.	0.235	504.	0.083
238.	0.229	505.	0.076
239.	0.231	506.	0.079
240.	0.227	507.	0.079
241.	0.226	508.	0.083

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
242.	0.223	509.	0.081
243.	0.22	510.	0.078
244.	0.222	511.	0.079
245.	0.223	512.	0.085
246.	0.221	513.	0.077
247.	0.213	514.	0.079
248.	0.22	515.	0.074
249.	0.219	516.	0.078
250.	0.216	517.	0.079
251.	0.214	518.	0.077
252.	0.21	519.	0.077
253.	0.213	520.	0.083
254.	0.21	521.	0.074
255.	0.207	522.	0.076
256.	0.21	523.	0.077
257.	0.208	524.	0.074
258.	0.21	525.	0.074
259.	0.204	526.	0.068
260.	0.203	527.	0.076
261.	0.202	528.	0.07
262.	0.205	529.	0.071
263.	0.201	530.	0.067
264.	0.196	531.	0.074
265.	0.199	532.	0.065
266.	0.193	533.	0.076
267.	0.193	534.	0.071

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	0.0007083	cm/sec
Ss	0.002	ft^{-1}
Kz/Kr	0.001	

T = K*b = 1.079 cm^2/sec

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	0.0007083	6.76E-5	+/- 0.0001328	10.48	cm/sec
Ss	0.002	0.0006191	+/- 0.001216	3.23	ft^{-1}
Kz/Kr	0.001	0.1624	+/- 0.3189	0.006159	

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

T = K*b = 1.079 cm^2/sec

Parameter Correlations

	Kr	Ss	Kz/Kr
Kr	1.00	-0.97	-0.86
Ss	-0.97	1.00	0.79
Kz/Kr	-0.86	0.79	1.00

Residual Statistics

for weighted residuals

Sum of Squares	8.804 ft^2
Variance	0.01658 ft^2
Std. Deviation	0.1288 ft
Mean	0.01646 ft
No. of Residuals	534
No. of Estimates	3

NOTES

Butler 1998, p. 34, Equation 3.1 correction factor used in computation due to difference in observed head change (2.858 ft.) as compared to the theoretical expected l

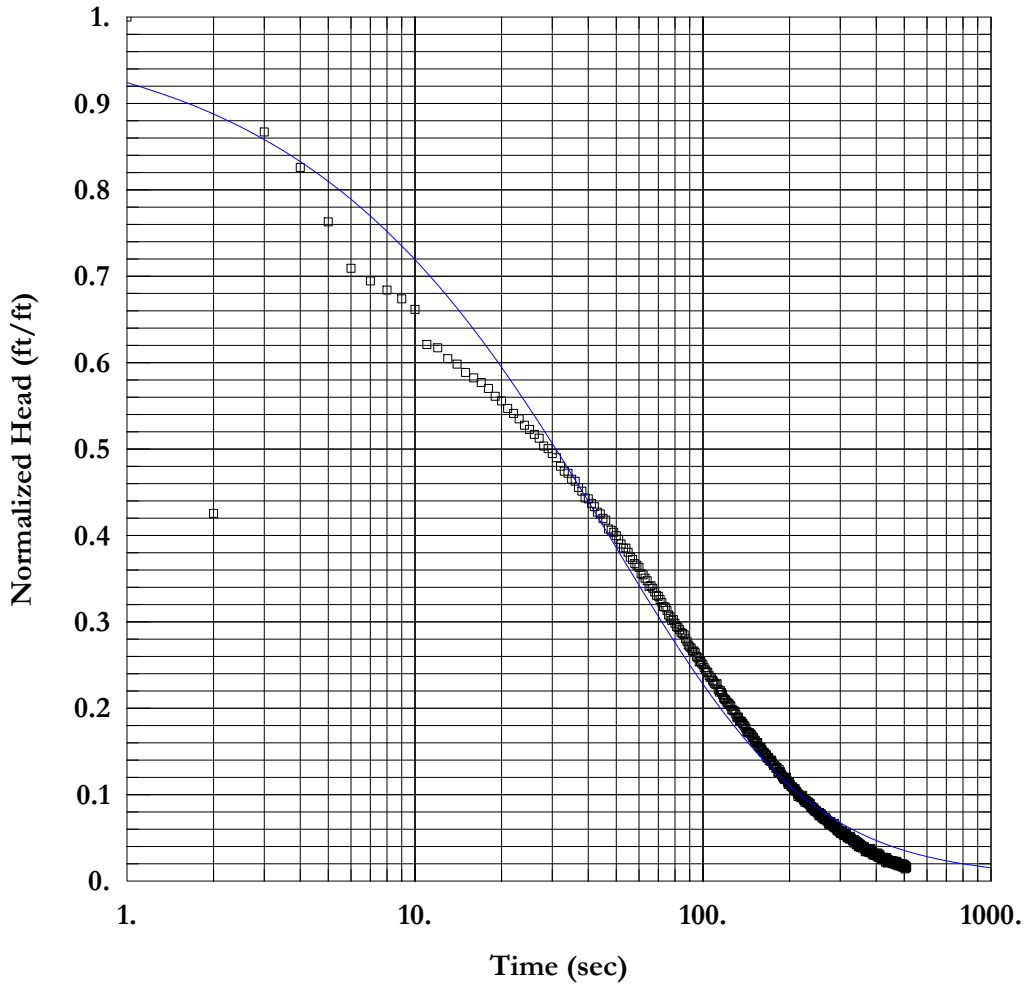
HSI SITE 10406, FORMER MCKENZIE TANK LINES SITE

FOURTH SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT 6-3
RW-8 FALLING HEAD TEST NO. 3 KGS MODEL ANALYSIS AND FIELD DATA TABLE

RW-8 Falling Head Test No. 3

Prepared By:	Prepared For:
EIC	McKenzie Tank Lines
Project:	Location:
460010	Port Wentworth, GA



SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.0007769 cm/sec Ss = 0.002 ft^{-1}
Kz/Kr = 0.009937

AQUIFER DATA

Saturated Thickness: 50. ft

WELL DATA (RW-8)

Initial Displacement: 2.066 ft
Static Water Column Height: 29.14 ft
Total Well Penetration Depth: 29.14 ft
Screen Length: 20. ft
Casing Radius: 0.1667 ft
Well Radius: 0.1667 ft
Gravel Pack Porosity: 0.3

Data Set: \\EICSERVER\Company Files\projects\1910 project-GA\460000 McKenzie Tank Lines\460001, 002 Preliminary Evaluation, VIRP\120 draft EIC rep
Title: RW-8 Falling Head Test No. 3
Date: 05/11/16
Time: 18:07:03

PROJECT INFORMATION

Company: EIC
Client: McKenzie Tank Lines
Project: 460010
Location: Port Wentworth, GA
Test Date: 1/5/16
Test Well: RW-8

AQUIFER DATA

Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 0.009937

SLUG TEST WELL DATA

Test Well: RW-8

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 2.066 ft
Static Water Column Height: 29.14 ft
Casing Radius: 0.1667 ft
Well Radius: 0.1667 ft
Well Skin Radius: 0.1667 ft
Screen Length: 20. ft
Total Well Penetration Depth: 29.14 ft
Corrected Casing Radius (Butler Method): 0.1648 ft
Expected Initial Displacement: 1.99 ft

No. of Observations: 510

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.	2.066	256.	0.156
2.	0.879	257.	0.161
3.	1.791	258.	0.16
4.	1.706	259.	0.151
5.	1.576	260.	0.157
6.	1.465	261.	0.155
7.	1.435	262.	0.149
8.	1.413	263.	0.152
9.	1.392	264.	0.147
10.	1.367	265.	0.148
11.	1.283	266.	0.146
12.	1.275	267.	0.152
13.	1.249	268.	0.148
14.	1.236	269.	0.147
15.	1.216	270.	0.143
16.	1.203	271.	0.144
17.	1.192	272.	0.144
18.	1.178	273.	0.138
19.	1.159	274.	0.135
20.	1.148	275.	0.139
21.	1.13	276.	0.141
22.	1.118	277.	0.137
23.	1.105	278.	0.142
24.	1.09	279.	0.134
25.	1.08	280.	0.134
26.	1.068	281.	0.135
27.	1.059	282.	0.132
28.	1.04	283.	0.131
29.	1.034	284.	0.129
30.	1.022	285.	0.13
31.	1.012	286.	0.138

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
32.	0.992	287.	0.129
33.	0.98	288.	0.127
34.	0.975	289.	0.131
35.	0.961	290.	0.127
36.	0.956	291.	0.126
37.	0.941	292.	0.121
38.	0.932	293.	0.123
39.	0.916	294.	0.119
40.	0.914	295.	0.125
41.	0.903	296.	0.121
42.	0.895	297.	0.121
43.	0.882	298.	0.117
44.	0.878	299.	0.12
45.	0.867	300.	0.114
46.	0.863	301.	0.117
47.	0.842	302.	0.114
48.	0.839	303.	0.115
49.	0.834	304.	0.119
50.	0.826	305.	0.12
51.	0.817	306.	0.114
52.	0.806	307.	0.11
53.	0.796	308.	0.11
54.	0.796	309.	0.112
55.	0.786	310.	0.114
56.	0.774	311.	0.11
57.	0.769	312.	0.114
58.	0.759	313.	0.11
59.	0.755	314.	0.11
60.	0.75	315.	0.115
61.	0.735	316.	0.107
62.	0.732	317.	0.103
63.	0.724	318.	0.106
64.	0.718	319.	0.105
65.	0.704	320.	0.104
66.	0.706	321.	0.104
67.	0.7	322.	0.102
68.	0.691	323.	0.1
69.	0.683	324.	0.103
70.	0.681	325.	0.107
71.	0.673	326.	0.103
72.	0.666	327.	0.101
73.	0.656	328.	0.101
74.	0.655	329.	0.101
75.	0.647	330.	0.098
76.	0.636	331.	0.097
77.	0.632	332.	0.097
78.	0.623	333.	0.091
79.	0.625	334.	0.094
80.	0.616	335.	0.095
81.	0.608	336.	0.099
82.	0.606	337.	0.092
83.	0.601	338.	0.096
84.	0.594	339.	0.096
85.	0.592	340.	0.092
86.	0.589	341.	0.087
87.	0.579	342.	0.091
88.	0.573	343.	0.094
89.	0.564	344.	0.089
90.	0.56	345.	0.092
91.	0.557	346.	0.082
92.	0.55	347.	0.09
93.	0.55	348.	0.083
94.	0.546	349.	0.085
95.	0.537	350.	0.088
96.	0.534	351.	0.084
97.	0.524	352.	0.088
98.	0.525	353.	0.08
99.	0.521	354.	0.082
100.	0.517	355.	0.085
101.	0.51	356.	0.08

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
102.	0.505	357.	0.079
103.	0.5	358.	0.082
104.	0.499	359.	0.083
105.	0.491	360.	0.083
106.	0.487	361.	0.08
107.	0.487	362.	0.082
108.	0.48	363.	0.077
109.	0.476	364.	0.082
110.	0.472	365.	0.076
111.	0.47	366.	0.07
112.	0.472	367.	0.075
113.	0.458	368.	0.071
114.	0.452	369.	0.076
115.	0.455	370.	0.075
116.	0.451	371.	0.074
117.	0.446	372.	0.078
118.	0.438	373.	0.071
119.	0.435	374.	0.073
120.	0.433	375.	0.073
121.	0.428	376.	0.07
122.	0.426	377.	0.068
123.	0.424	378.	0.073
124.	0.421	379.	0.072
125.	0.418	380.	0.073
126.	0.409	381.	0.076
127.	0.409	382.	0.074
128.	0.407	383.	0.078
129.	0.406	384.	0.072
130.	0.399	385.	0.071
131.	0.392	386.	0.07
132.	0.39	387.	0.065
133.	0.392	388.	0.072
134.	0.383	389.	0.063
135.	0.382	390.	0.067
136.	0.382	391.	0.065
137.	0.378	392.	0.062
138.	0.376	393.	0.064
139.	0.372	394.	0.062
140.	0.369	395.	0.061
141.	0.365	396.	0.064
142.	0.357	397.	0.066
143.	0.356	398.	0.063
144.	0.354	399.	0.064
145.	0.355	400.	0.062
146.	0.352	401.	0.062
147.	0.351	402.	0.059
148.	0.347	403.	0.063
149.	0.343	404.	0.067
150.	0.343	405.	0.057
151.	0.334	406.	0.061
152.	0.337	407.	0.061
153.	0.33	408.	0.065
154.	0.33	409.	0.061
155.	0.331	410.	0.057
156.	0.322	411.	0.063
157.	0.32	412.	0.06
158.	0.317	413.	0.06
159.	0.32	414.	0.057
160.	0.315	415.	0.057
161.	0.311	416.	0.055
162.	0.308	417.	0.056
163.	0.307	418.	0.051
164.	0.306	419.	0.051
165.	0.302	420.	0.055
166.	0.302	421.	0.056
167.	0.294	422.	0.055
168.	0.294	423.	0.051
169.	0.296	424.	0.055
170.	0.288	425.	0.057
171.	0.289	426.	0.054

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
172.	0.286	427.	0.056
173.	0.289	428.	0.053
174.	0.285	429.	0.05
175.	0.28	430.	0.045
176.	0.276	431.	0.049
177.	0.277	432.	0.054
178.	0.276	433.	0.05
179.	0.269	434.	0.051
180.	0.272	435.	0.056
181.	0.272	436.	0.043
182.	0.26	437.	0.046
183.	0.259	438.	0.052
184.	0.267	439.	0.047
185.	0.261	440.	0.05
186.	0.261	441.	0.048
187.	0.255	442.	0.05
188.	0.253	443.	0.045
189.	0.25	444.	0.047
190.	0.246	445.	0.047
191.	0.248	446.	0.049
192.	0.243	447.	0.047
193.	0.243	448.	0.044
194.	0.245	449.	0.045
195.	0.248	450.	0.046
196.	0.24	451.	0.044
197.	0.234	452.	0.043
198.	0.231	453.	0.048
199.	0.235	454.	0.045
200.	0.236	455.	0.044
201.	0.231	456.	0.041
202.	0.227	457.	0.048
203.	0.226	458.	0.048
204.	0.226	459.	0.043
205.	0.223	460.	0.043
206.	0.222	461.	0.041
207.	0.219	462.	0.042
208.	0.218	463.	0.044
209.	0.221	464.	0.041
210.	0.215	465.	0.042
211.	0.215	466.	0.039
212.	0.213	467.	0.047
213.	0.208	468.	0.044
214.	0.202	469.	0.041
215.	0.208	470.	0.041
216.	0.205	471.	0.047
217.	0.203	472.	0.045
218.	0.201	473.	0.039
219.	0.199	474.	0.04
220.	0.202	475.	0.038
221.	0.201	476.	0.036
222.	0.205	477.	0.04
223.	0.196	478.	0.041
224.	0.193	479.	0.039
225.	0.196	480.	0.039
226.	0.188	481.	0.039
227.	0.192	482.	0.038
228.	0.191	483.	0.04
229.	0.192	484.	0.037
230.	0.187	485.	0.036
231.	0.186	486.	0.042
232.	0.189	487.	0.037
233.	0.188	488.	0.038
234.	0.184	489.	0.036
235.	0.182	490.	0.034
236.	0.185	491.	0.035
237.	0.176	492.	0.036
238.	0.178	493.	0.034
239.	0.178	494.	0.041
240.	0.175	495.	0.038
241.	0.172	496.	0.034

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
242.	0.171	497.	0.039
243.	0.175	498.	0.033
244.	0.167	499.	0.04
245.	0.17	500.	0.038
246.	0.168	501.	0.039
247.	0.167	502.	0.036
248.	0.168	503.	0.029
249.	0.164	504.	0.037
250.	0.164	505.	0.032
251.	0.161	506.	0.033
252.	0.161	507.	0.031
253.	0.156	508.	0.032
254.	0.164	509.	0.033
255.	0.159	510.	0.034

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	0.0007769	cm/sec
Ss	0.002	ft^{-1}
Kz/Kr	0.009937	

T = K*b = 1.184 cm^2/sec

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	0.0007769	2.177E-5	+/- 4.279E-5	35.68	cm/sec
Ss	0.002	0.0002309	+/- 0.0004537	8.663	ft^{-1}
Kz/Kr	0.009937	0.01318	+/- 0.02589	0.7541	

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

T = K*b = 1.184 cm^2/sec

Parameter Correlations

	Kr	Ss	Kz/Kr
Kr	1.00	-0.94	-0.26
Ss	-0.94	1.00	0.18
Kz/Kr	-0.26	0.18	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 1.653 ft^2
Variance . . . . . 0.00326 ft^2
Std. Deviation . . . . . 0.0571 ft
Mean . . . . . -0.01272 ft
No. of Residuals 510
No. of Estimates. 3

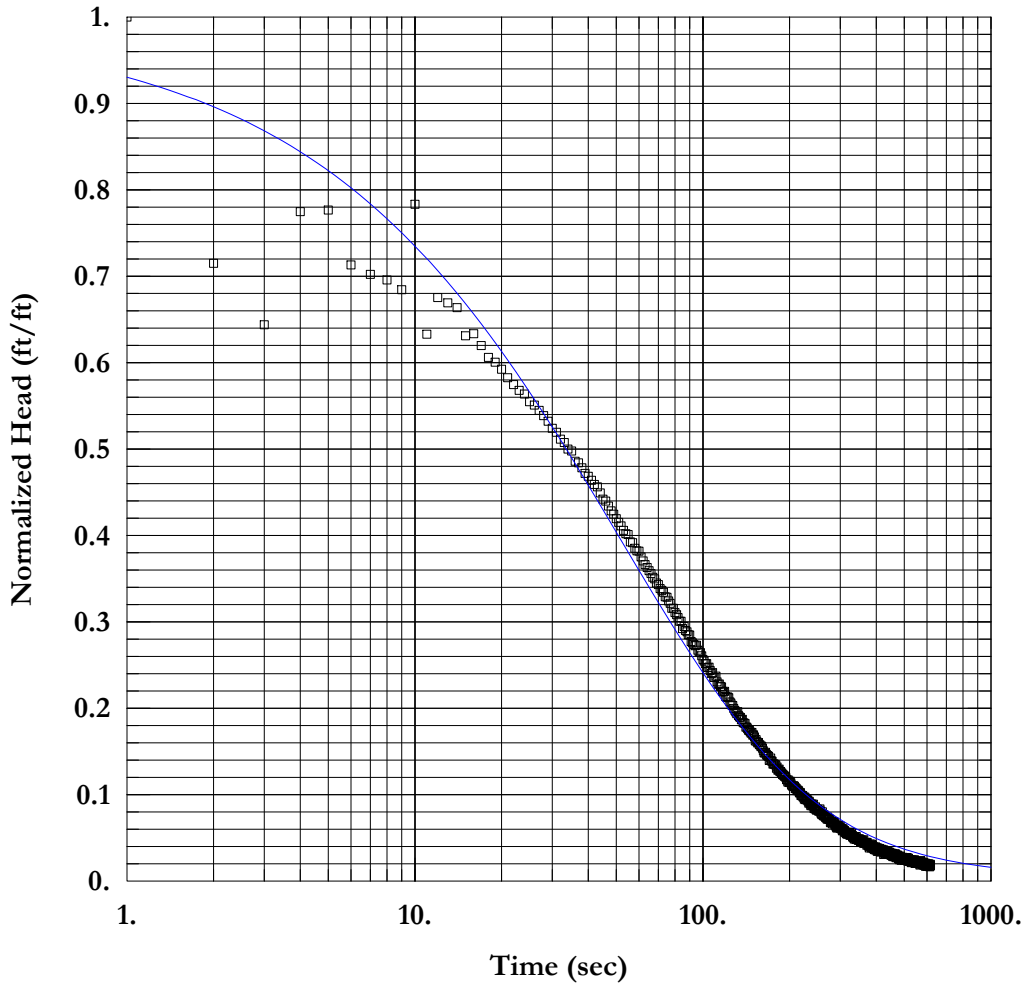
HSI SITE 10406, FORMER MCKENZIE TANK LINES SITE

FOURTH SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT 6-4
RW-9 FALLING HEAD TEST NO. 1 KGS MODEL ANALYSIS AND FIELD DATA TABLE

RW-9 Falling Head Test No. 1

Prepared By:	Prepared For:
EIC	McKenzie Tank Lines
Project:	Location:
460010	Port Wentworth, GA



SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.0007139 cm/sec Ss = 0.001543 ft^{-1}
Kz/Kr = 0.01

AQUIFER DATA

Saturated Thickness: 50. ft

WELL DATA (RW-9)

Initial Displacement: 2.122 ft
Static Water Column Height: 25.21 ft
Total Well Penetration Depth: 25.21 ft
Screen Length: 20. ft
Casing Radius: 0.1667 ft
Well Radius: 0.1667 ft
Gravel Pack Porosity: 0.3

Data Set: \\EICSERVER\Company Files\projects\1910 project-GA\460000 McKenzie Tank Lines\460001, 002 Preliminary Evaluation, VIRP\120 draft EIC rep
Title: RW-9 Falling Head Test No. 1
Date: 05/11/16
Time: 18:07:57

PROJECT INFORMATION

Company: EIC
Client: McKenzie Tank Lines
Project: 460010
Location: Port Wentworth, GA
Test Date: 1/6/16
Test Well: RW-8

AQUIFER DATA

Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 0.01

SLUG TEST WELL DATA

Test Well: RW-9

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 2.122 ft
Static Water Column Height: 25.21 ft
Casing Radius: 0.1667 ft
Well Radius: 0.1667 ft
Well Skin Radius: 0.1667 ft
Screen Length: 20. ft
Total Well Penetration Depth: 25.21 ft
Corrected Casing Radius (Butler Method): 0.1596 ft
Expected Initial Displacement: 1.99 ft

No. of Observations: 617

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.	2.122	310.	0.124
2.	1.517	311.	0.12
3.	1.366	312.	0.12
4.	1.644	313.	0.12
5.	1.648	314.	0.118
6.	1.513	315.	0.116
7.	1.49	316.	0.119
8.	1.476	317.	0.115
9.	1.452	318.	0.119
10.	1.662	319.	0.117
11.	1.343	320.	0.115
12.	1.433	321.	0.117
13.	1.42	322.	0.118
14.	1.408	323.	0.12
15.	1.339	324.	0.112
16.	1.344	325.	0.113
17.	1.315	326.	0.114
18.	1.286	327.	0.114
19.	1.274	328.	0.119
20.	1.257	329.	0.112
21.	1.236	330.	0.112
22.	1.219	331.	0.108
23.	1.205	332.	0.11
24.	1.196	333.	0.107
25.	1.177	334.	0.106
26.	1.169	335.	0.103
27.	1.156	336.	0.109
28.	1.143	337.	0.107
29.	1.129	338.	0.106
30.	1.112	339.	0.106
31.	1.102	340.	0.102

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
32.	1.085	341.	0.109
33.	1.077	342.	0.103
34.	1.061	343.	0.104
35.	1.056	344.	0.103
36.	1.031	345.	0.101
37.	1.027	346.	0.101
38.	1.015	347.	0.1
39.	1.001	348.	0.101
40.	0.994	349.	0.104
41.	0.984	350.	0.1
42.	0.974	351.	0.101
43.	0.968	352.	0.101
44.	0.953	353.	0.096
45.	0.938	354.	0.101
46.	0.933	355.	0.096
47.	0.921	356.	0.095
48.	0.909	357.	0.098
49.	0.901	358.	0.1
50.	0.89	359.	0.094
51.	0.881	360.	0.097
52.	0.872	361.	0.093
53.	0.861	362.	0.101
54.	0.853	363.	0.094
55.	0.851	364.	0.093
56.	0.833	365.	0.092
57.	0.831	366.	0.093
58.	0.817	367.	0.093
59.	0.811	368.	0.095
60.	0.81	369.	0.092
61.	0.796	370.	0.093
62.	0.786	371.	0.088
63.	0.777	372.	0.095
64.	0.77	373.	0.09
65.	0.762	374.	0.089
66.	0.755	375.	0.089
67.	0.746	376.	0.087
68.	0.742	377.	0.085
69.	0.732	378.	0.081
70.	0.728	379.	0.086
71.	0.718	380.	0.087
72.	0.714	381.	0.091
73.	0.709	382.	0.087
74.	0.698	383.	0.088
75.	0.697	384.	0.081
76.	0.688	385.	0.09
77.	0.682	386.	0.082
78.	0.67	387.	0.087
79.	0.67	388.	0.087
80.	0.659	389.	0.086
81.	0.654	390.	0.082
82.	0.647	391.	0.08
83.	0.638	392.	0.084
84.	0.638	393.	0.078
85.	0.62	394.	0.079
86.	0.625	395.	0.077
87.	0.615	396.	0.081
88.	0.612	397.	0.08
89.	0.605	398.	0.084
90.	0.604	399.	0.076
91.	0.588	400.	0.082
92.	0.585	401.	0.079
93.	0.581	402.	0.08
94.	0.578	403.	0.073
95.	0.579	404.	0.077
96.	0.567	405.	0.081
97.	0.562	406.	0.073
98.	0.561	407.	0.078
99.	0.553	408.	0.075
100.	0.544	409.	0.078
101.	0.54	410.	0.076

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
102.	0.534	411.	0.08
103.	0.534	412.	0.077
104.	0.524	413.	0.076
105.	0.525	414.	0.071
106.	0.517	415.	0.073
107.	0.51	416.	0.076
108.	0.512	417.	0.078
109.	0.5	418.	0.073
110.	0.5	419.	0.077
111.	0.503	420.	0.075
112.	0.489	421.	0.074
113.	0.483	422.	0.074
114.	0.484	423.	0.076
115.	0.478	424.	0.065
116.	0.477	425.	0.076
117.	0.466	426.	0.068
118.	0.464	427.	0.072
119.	0.466	428.	0.07
120.	0.453	429.	0.071
121.	0.451	430.	0.066
122.	0.452	431.	0.071
123.	0.45	432.	0.073
124.	0.44	433.	0.068
125.	0.437	434.	0.071
126.	0.432	435.	0.068
127.	0.431	436.	0.068
128.	0.424	437.	0.07
129.	0.419	438.	0.066
130.	0.415	439.	0.072
131.	0.411	440.	0.065
132.	0.416	441.	0.07
133.	0.406	442.	0.068
134.	0.403	443.	0.071
135.	0.402	444.	0.069
136.	0.396	445.	0.07
137.	0.397	446.	0.07
138.	0.389	447.	0.065
139.	0.388	448.	0.067
140.	0.387	449.	0.065
141.	0.378	450.	0.063
142.	0.378	451.	0.066
143.	0.374	452.	0.064
144.	0.37	453.	0.067
145.	0.37	454.	0.068
146.	0.366	455.	0.062
147.	0.363	456.	0.06
148.	0.365	457.	0.067
149.	0.358	458.	0.064
150.	0.359	459.	0.061
151.	0.354	460.	0.06
152.	0.344	461.	0.065
153.	0.347	462.	0.062
154.	0.342	463.	0.06
155.	0.339	464.	0.064
156.	0.34	465.	0.067
157.	0.335	466.	0.066
158.	0.334	467.	0.063
159.	0.33	468.	0.057
160.	0.331	469.	0.063
161.	0.326	470.	0.062
162.	0.32	471.	0.061
163.	0.315	472.	0.064
164.	0.314	473.	0.062
165.	0.316	474.	0.058
166.	0.311	475.	0.063
167.	0.308	476.	0.06
168.	0.308	477.	0.055
169.	0.306	478.	0.055
170.	0.296	479.	0.058
171.	0.297	480.	0.056

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
172.	0.302	481.	0.06
173.	0.295	482.	0.052
174.	0.294	483.	0.055
175.	0.287	484.	0.059
176.	0.288	485.	0.058
177.	0.287	486.	0.061
178.	0.286	487.	0.054
179.	0.285	488.	0.052
180.	0.277	489.	0.051
181.	0.28	490.	0.055
182.	0.272	491.	0.056
183.	0.273	492.	0.056
184.	0.275	493.	0.056
185.	0.269	494.	0.056
186.	0.269	495.	0.058
187.	0.265	496.	0.058
188.	0.265	497.	0.056
189.	0.261	498.	0.053
190.	0.261	499.	0.054
191.	0.259	500.	0.057
192.	0.257	501.	0.051
193.	0.257	502.	0.052
194.	0.254	503.	0.051
195.	0.249	504.	0.051
196.	0.248	505.	0.053
197.	0.243	506.	0.055
198.	0.248	507.	0.056
199.	0.242	508.	0.052
200.	0.242	509.	0.057
201.	0.245	510.	0.056
202.	0.241	511.	0.057
203.	0.236	512.	0.057
204.	0.234	513.	0.051
205.	0.233	514.	0.049
206.	0.233	515.	0.053
207.	0.234	516.	0.05
208.	0.232	517.	0.056
209.	0.227	518.	0.049
210.	0.229	519.	0.053
211.	0.227	520.	0.052
212.	0.222	521.	0.048
213.	0.223	522.	0.052
214.	0.223	523.	0.051
215.	0.221	524.	0.05
216.	0.217	525.	0.05
217.	0.216	526.	0.05
218.	0.217	527.	0.047
219.	0.21	528.	0.049
220.	0.211	529.	0.045
221.	0.209	530.	0.052
222.	0.21	531.	0.047
223.	0.206	532.	0.047
224.	0.206	533.	0.047
225.	0.201	534.	0.051
226.	0.206	535.	0.049
227.	0.2	536.	0.046
228.	0.2	537.	0.051
229.	0.201	538.	0.049
230.	0.199	539.	0.049
231.	0.199	540.	0.051
232.	0.196	541.	0.049
233.	0.191	542.	0.049
234.	0.196	543.	0.052
235.	0.192	544.	0.05
236.	0.189	545.	0.044
237.	0.185	546.	0.043
238.	0.189	547.	0.045
239.	0.189	548.	0.047
240.	0.186	549.	0.045
241.	0.184	550.	0.043

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
242.	0.189	551.	0.048
243.	0.178	552.	0.045
244.	0.179	553.	0.047
245.	0.179	554.	0.046
246.	0.182	555.	0.045
247.	0.175	556.	0.044
248.	0.174	557.	0.047
249.	0.177	558.	0.046
250.	0.176	559.	0.047
251.	0.175	560.	0.047
252.	0.172	561.	0.045
253.	0.172	562.	0.044
254.	0.172	563.	0.045
255.	0.177	564.	0.045
256.	0.172	565.	0.042
257.	0.167	566.	0.048
258.	0.165	567.	0.039
259.	0.163	568.	0.047
260.	0.17	569.	0.042
261.	0.164	570.	0.049
262.	0.16	571.	0.05
263.	0.162	572.	0.046
264.	0.162	573.	0.043
265.	0.159	574.	0.045
266.	0.158	575.	0.045
267.	0.156	576.	0.041
268.	0.155	577.	0.044
269.	0.155	578.	0.041
270.	0.152	579.	0.046
271.	0.157	580.	0.042
272.	0.152	581.	0.045
273.	0.153	582.	0.043
274.	0.153	583.	0.039
275.	0.151	584.	0.045
276.	0.151	585.	0.041
277.	0.144	586.	0.044
278.	0.143	587.	0.039
279.	0.144	588.	0.04
280.	0.147	589.	0.043
281.	0.144	590.	0.038
282.	0.14	591.	0.042
283.	0.144	592.	0.044
284.	0.143	593.	0.036
285.	0.146	594.	0.043
286.	0.144	595.	0.042
287.	0.139	596.	0.039
288.	0.139	597.	0.04
289.	0.136	598.	0.038
290.	0.133	599.	0.04
291.	0.132	600.	0.039
292.	0.13	601.	0.036
293.	0.134	602.	0.042
294.	0.134	603.	0.038
295.	0.131	604.	0.04
296.	0.136	605.	0.041
297.	0.132	606.	0.038
298.	0.132	607.	0.04
299.	0.13	608.	0.042
300.	0.135	609.	0.041
301.	0.129	610.	0.04
302.	0.128	611.	0.04
303.	0.129	612.	0.035
304.	0.129	613.	0.039
305.	0.123	614.	0.035
306.	0.126	615.	0.039
307.	0.128	616.	0.041
308.	0.124	617.	0.038
309.	0.124		

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	0.0007139	cm/sec
Ss	0.001543	ft^{-1}
Kz/Kr	0.01	

T = K*b = 1.088 cm^2/sec

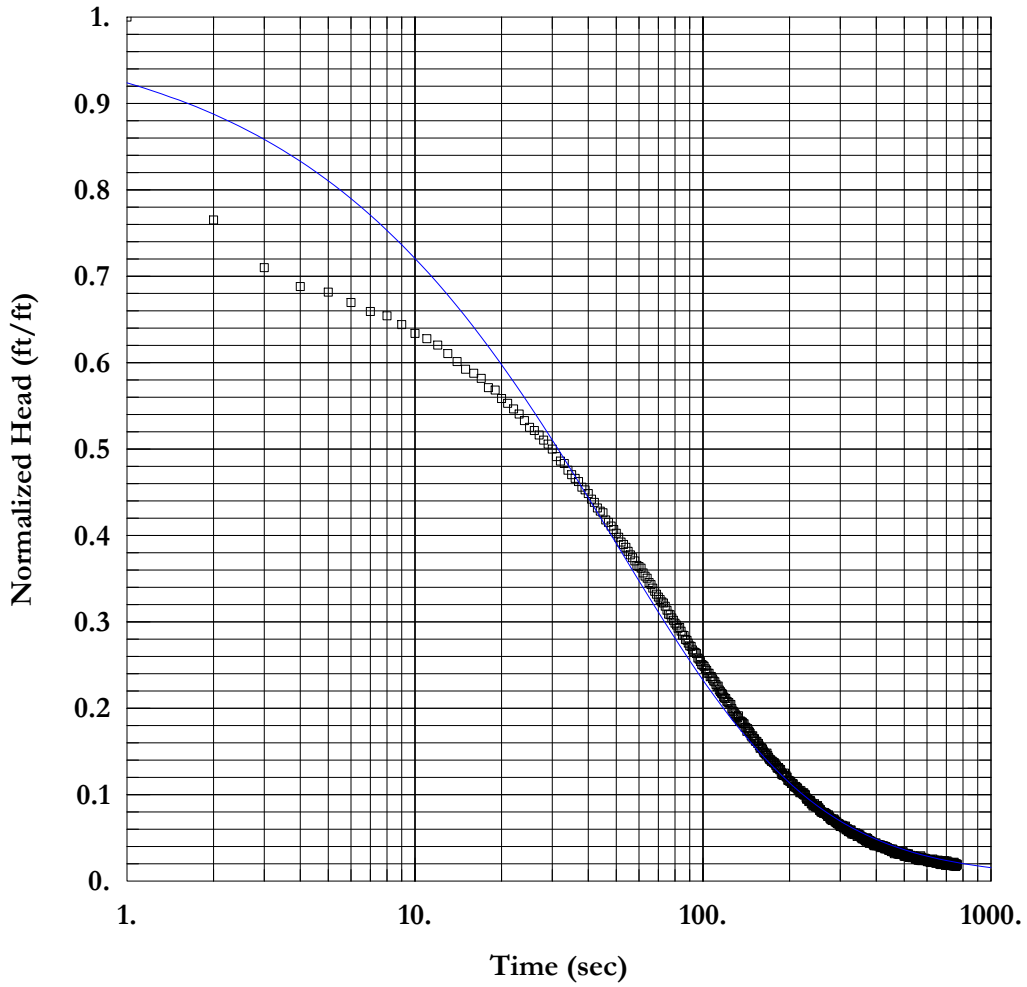
HSI SITE 10406, FORMER MCKENZIE TANK LINES SITE

FOURTH SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT 6-5
RW-9 FALLING HEAD TEST NO. 2 KGS MODEL ANALYSIS AND FIELD DATA TABLE

RW-9 Falling Head Test No. 2

Prepared By:	Prepared For:
EIC	McKenzie Tank Lines
Project:	Location:
460010	Port Wentworth, GA



SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.0006856 cm/sec Ss = 0.002 ft^{-1}
Kz/Kr = 0.1056

AQUIFER DATA

Saturated Thickness: 50. ft

WELL DATA (RW-9)

Initial Displacement: 2.154 ft
Static Water Column Height: 25.21 ft
Total Well Penetration Depth: 25.21 ft
Screen Length: 20. ft
Casing Radius: 0.1667 ft
Well Radius: 0.1667 ft
Gravel Pack Porosity: 0.3

Data Set: \\EICSERVER\Company Files\projects\1910 project-GA\460000 McKenzie Tank Lines\460001, 002 Preliminary Evaluation, VIRP\120 draft EIC rep
Title: RW-9 Falling Head Test No. 2
Date: 05/11/16
Time: 18:08:49

PROJECT INFORMATION

Company: EIC
Client: McKenzie Tank Lines
Project: 460010
Location: Port Wentworth, GA
Test Date: 1/6/16
Test Well: RW-8

AQUIFER DATA

Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 0.1056

SLUG TEST WELL DATA

Test Well: RW-9

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 2.154 ft
Static Water Column Height: 25.21 ft
Casing Radius: 0.1667 ft
Well Radius: 0.1667 ft
Well Skin Radius: 0.1667 ft
Screen Length: 20. ft
Total Well Penetration Depth: 25.21 ft
Corrected Casing Radius (Butler Method): 0.1584 ft
Expected Initial Displacement: 1.99 ft

No. of Observations: 764

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.	2.154	383.	0.095
2.	1.648	384.	0.099
3.	1.529	385.	0.097
4.	1.482	386.	0.096
5.	1.468	387.	0.094
6.	1.442	388.	0.094
7.	1.42	389.	0.094
8.	1.409	390.	0.092
9.	1.387	391.	0.09
10.	1.365	392.	0.095
11.	1.352	393.	0.088
12.	1.336	394.	0.091
13.	1.315	395.	0.093
14.	1.295	396.	0.092
15.	1.276	397.	0.091
16.	1.266	398.	0.088
17.	1.253	399.	0.095
18.	1.23	400.	0.092
19.	1.224	401.	0.088
20.	1.203	402.	0.089
21.	1.191	403.	0.089
22.	1.177	404.	0.091
23.	1.164	405.	0.088
24.	1.148	406.	0.088
25.	1.131	407.	0.09
26.	1.123	408.	0.09
27.	1.112	409.	0.09
28.	1.099	410.	0.088
29.	1.089	411.	0.088
30.	1.077	412.	0.089
31.	1.058	413.	0.083

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
32.	1.047	414.	0.09
33.	1.041	415.	0.088
34.	1.024	416.	0.085
35.	1.013	417.	0.086
36.	1.004	418.	0.085
37.	0.996	419.	0.088
38.	0.982	420.	0.088
39.	0.975	421.	0.084
40.	0.966	422.	0.084
41.	0.952	423.	0.083
42.	0.944	424.	0.087
43.	0.93	425.	0.083
44.	0.922	426.	0.087
45.	0.918	427.	0.084
46.	0.9	428.	0.08
47.	0.894	429.	0.081
48.	0.885	430.	0.086
49.	0.876	431.	0.085
50.	0.867	432.	0.082
51.	0.857	433.	0.083
52.	0.845	434.	0.08
53.	0.839	435.	0.084
54.	0.832	436.	0.082
55.	0.822	437.	0.083
56.	0.813	438.	0.082
57.	0.806	439.	0.08
58.	0.798	440.	0.081
59.	0.787	441.	0.077
60.	0.784	442.	0.077
61.	0.78	443.	0.077
62.	0.768	444.	0.077
63.	0.76	445.	0.077
64.	0.755	446.	0.079
65.	0.744	447.	0.08
66.	0.739	448.	0.078
67.	0.73	449.	0.076
68.	0.722	450.	0.077
69.	0.715	451.	0.073
70.	0.708	452.	0.074
71.	0.702	453.	0.076
72.	0.696	454.	0.076
73.	0.693	455.	0.08
74.	0.685	456.	0.074
75.	0.675	457.	0.077
76.	0.665	458.	0.073
77.	0.664	459.	0.076
78.	0.656	460.	0.077
79.	0.65	461.	0.071
80.	0.643	462.	0.068
81.	0.638	463.	0.072
82.	0.63	464.	0.074
83.	0.632	465.	0.071
84.	0.623	466.	0.071
85.	0.613	467.	0.071
86.	0.612	468.	0.071
87.	0.602	469.	0.071
88.	0.6	470.	0.072
89.	0.593	471.	0.072
90.	0.586	472.	0.072
91.	0.585	473.	0.069
92.	0.576	474.	0.071
93.	0.571	475.	0.067
94.	0.57	476.	0.07
95.	0.567	477.	0.074
96.	0.556	478.	0.071
97.	0.553	479.	0.07
98.	0.547	480.	0.073
99.	0.54	481.	0.072
100.	0.538	482.	0.066
101.	0.535	483.	0.071

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
102.	0.529	484.	0.069
103.	0.525	485.	0.066
104.	0.518	486.	0.07
105.	0.518	487.	0.072
106.	0.509	488.	0.069
107.	0.51	489.	0.068
108.	0.504	490.	0.068
109.	0.499	491.	0.067
110.	0.497	492.	0.068
111.	0.49	493.	0.07
112.	0.484	494.	0.066
113.	0.486	495.	0.07
114.	0.476	496.	0.073
115.	0.472	497.	0.066
116.	0.468	498.	0.066
117.	0.466	499.	0.062
118.	0.459	500.	0.066
119.	0.456	501.	0.068
120.	0.455	502.	0.062
121.	0.448	503.	0.062
122.	0.446	504.	0.069
123.	0.445	505.	0.068
124.	0.44	506.	0.062
125.	0.44	507.	0.069
126.	0.43	508.	0.062
127.	0.424	509.	0.064
128.	0.422	510.	0.068
129.	0.417	511.	0.061
130.	0.414	512.	0.062
131.	0.41	513.	0.061
132.	0.407	514.	0.064
133.	0.412	515.	0.065
134.	0.398	516.	0.066
135.	0.399	517.	0.068
136.	0.397	518.	0.064
137.	0.396	519.	0.061
138.	0.393	520.	0.059
139.	0.392	521.	0.059
140.	0.383	522.	0.062
141.	0.383	523.	0.062
142.	0.373	524.	0.06
143.	0.38	525.	0.061
144.	0.374	526.	0.061
145.	0.371	527.	0.064
146.	0.368	528.	0.061
147.	0.362	529.	0.061
148.	0.359	530.	0.061
149.	0.362	531.	0.058
150.	0.355	532.	0.061
151.	0.355	533.	0.059
152.	0.349	534.	0.059
153.	0.348	535.	0.063
154.	0.348	536.	0.06
155.	0.343	537.	0.06
156.	0.343	538.	0.061
157.	0.337	539.	0.059
158.	0.331	540.	0.06
159.	0.332	541.	0.061
160.	0.332	542.	0.06
161.	0.329	543.	0.058
162.	0.324	544.	0.062
163.	0.32	545.	0.059
164.	0.319	546.	0.061
165.	0.317	547.	0.054
166.	0.314	548.	0.059
167.	0.319	549.	0.06
168.	0.313	550.	0.055
169.	0.308	551.	0.058
170.	0.304	552.	0.06
171.	0.302	553.	0.058

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
172.	0.302	554.	0.058
173.	0.298	555.	0.055
174.	0.299	556.	0.059
175.	0.297	557.	0.053
176.	0.295	558.	0.059
177.	0.295	559.	0.052
178.	0.292	560.	0.056
179.	0.288	561.	0.054
180.	0.287	562.	0.052
181.	0.282	563.	0.057
182.	0.281	564.	0.054
183.	0.283	565.	0.054
184.	0.28	566.	0.056
185.	0.277	567.	0.054
186.	0.278	568.	0.06
187.	0.271	569.	0.053
188.	0.265	570.	0.051
189.	0.268	571.	0.063
190.	0.264	572.	0.059
191.	0.263	573.	0.053
192.	0.269	574.	0.055
193.	0.262	575.	0.051
194.	0.264	576.	0.059
195.	0.259	577.	0.054
196.	0.259	578.	0.054
197.	0.251	579.	0.055
198.	0.251	580.	0.052
199.	0.25	581.	0.056
200.	0.249	582.	0.054
201.	0.249	583.	0.056
202.	0.247	584.	0.054
203.	0.243	585.	0.056
204.	0.243	586.	0.052
205.	0.243	587.	0.055
206.	0.242	588.	0.053
207.	0.236	589.	0.054
208.	0.235	590.	0.057
209.	0.234	591.	0.053
210.	0.236	592.	0.056
211.	0.234	593.	0.051
212.	0.231	594.	0.051
213.	0.232	595.	0.054
214.	0.225	596.	0.052
215.	0.226	597.	0.053
216.	0.226	598.	0.052
217.	0.22	599.	0.054
218.	0.221	600.	0.052
219.	0.225	601.	0.05
220.	0.221	602.	0.048
221.	0.219	603.	0.052
222.	0.219	604.	0.05
223.	0.216	605.	0.052
224.	0.22	606.	0.053
225.	0.214	607.	0.053
226.	0.216	608.	0.052
227.	0.215	609.	0.05
228.	0.208	610.	0.05
229.	0.204	611.	0.052
230.	0.206	612.	0.051
231.	0.204	613.	0.052
232.	0.203	614.	0.05
233.	0.198	615.	0.046
234.	0.201	616.	0.048
235.	0.201	617.	0.052
236.	0.201	618.	0.053
237.	0.198	619.	0.052
238.	0.192	620.	0.052
239.	0.194	621.	0.05
240.	0.193	622.	0.048
241.	0.187	623.	0.046

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
242.	0.19	624.	0.049
243.	0.188	625.	0.049
244.	0.193	626.	0.048
245.	0.189	627.	0.048
246.	0.185	628.	0.047
247.	0.184	629.	0.055
248.	0.186	630.	0.05
249.	0.184	631.	0.048
250.	0.188	632.	0.047
251.	0.183	633.	0.051
252.	0.182	634.	0.048
253.	0.182	635.	0.048
254.	0.176	636.	0.046
255.	0.176	637.	0.05
256.	0.178	638.	0.051
257.	0.172	639.	0.052
258.	0.172	640.	0.048
259.	0.172	641.	0.047
260.	0.171	642.	0.046
261.	0.171	643.	0.048
262.	0.169	644.	0.044
263.	0.169	645.	0.046
264.	0.171	646.	0.047
265.	0.17	647.	0.049
266.	0.169	648.	0.05
267.	0.168	649.	0.045
268.	0.166	650.	0.049
269.	0.167	651.	0.047
270.	0.164	652.	0.05
271.	0.161	653.	0.049
272.	0.161	654.	0.048
273.	0.165	655.	0.045
274.	0.161	656.	0.052
275.	0.16	657.	0.047
276.	0.156	658.	0.05
277.	0.157	659.	0.049
278.	0.153	660.	0.047
279.	0.155	661.	0.046
280.	0.155	662.	0.046
281.	0.151	663.	0.042
282.	0.151	664.	0.05
283.	0.152	665.	0.046
284.	0.152	666.	0.044
285.	0.155	667.	0.044
286.	0.15	668.	0.042
287.	0.152	669.	0.048
288.	0.147	670.	0.041
289.	0.148	671.	0.045
290.	0.148	672.	0.045
291.	0.145	673.	0.05
292.	0.147	674.	0.045
293.	0.143	675.	0.047
294.	0.143	676.	0.047
295.	0.143	677.	0.044
296.	0.143	678.	0.045
297.	0.141	679.	0.045
298.	0.142	680.	0.045
299.	0.137	681.	0.043
300.	0.136	682.	0.042
301.	0.138	683.	0.042
302.	0.139	684.	0.049
303.	0.136	685.	0.042
304.	0.137	686.	0.044
305.	0.139	687.	0.045
306.	0.136	688.	0.048
307.	0.134	689.	0.042
308.	0.137	690.	0.051
309.	0.132	691.	0.046
310.	0.134	692.	0.044
311.	0.133	693.	0.043

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
312.	0.135	694.	0.043
313.	0.137	695.	0.039
314.	0.128	696.	0.048
315.	0.129	697.	0.044
316.	0.13	698.	0.049
317.	0.127	699.	0.042
318.	0.13	700.	0.047
319.	0.129	701.	0.044
320.	0.123	702.	0.044
321.	0.127	703.	0.045
322.	0.124	704.	0.045
323.	0.125	705.	0.05
324.	0.123	706.	0.04
325.	0.122	707.	0.046
326.	0.127	708.	0.04
327.	0.127	709.	0.041
328.	0.121	710.	0.041
329.	0.117	711.	0.043
330.	0.12	712.	0.039
331.	0.119	713.	0.045
332.	0.121	714.	0.043
333.	0.121	715.	0.047
334.	0.117	716.	0.043
335.	0.116	717.	0.045
336.	0.117	718.	0.041
337.	0.116	719.	0.045
338.	0.116	720.	0.043
339.	0.119	721.	0.043
340.	0.12	722.	0.043
341.	0.117	723.	0.041
342.	0.116	724.	0.044
343.	0.111	725.	0.045
344.	0.114	726.	0.044
345.	0.117	727.	0.043
346.	0.117	728.	0.045
347.	0.116	729.	0.041
348.	0.114	730.	0.042
349.	0.113	731.	0.038
350.	0.112	732.	0.042
351.	0.115	733.	0.045
352.	0.111	734.	0.04
353.	0.111	735.	0.045
354.	0.108	736.	0.04
355.	0.11	737.	0.041
356.	0.109	738.	0.044
357.	0.105	739.	0.04
358.	0.11	740.	0.042
359.	0.107	741.	0.04
360.	0.106	742.	0.045
361.	0.105	743.	0.037
362.	0.107	744.	0.044
363.	0.104	745.	0.044
364.	0.105	746.	0.047
365.	0.102	747.	0.041
366.	0.104	748.	0.041
367.	0.101	749.	0.038
368.	0.1	750.	0.039
369.	0.099	751.	0.041
370.	0.108	752.	0.043
371.	0.102	753.	0.041
372.	0.104	754.	0.043
373.	0.106	755.	0.036
374.	0.104	756.	0.041
375.	0.101	757.	0.041
376.	0.097	758.	0.039
377.	0.101	759.	0.041
378.	0.094	760.	0.041
379.	0.095	761.	0.042
380.	0.101	762.	0.039
381.	0.098	763.	0.042

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
382.	0.097	764.	0.041

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	0.0006856	cm/sec
Ss	0.002	ft^{-1}
Kz/Kr	0.1056	

T = K*b = 1.045 cm^2/sec

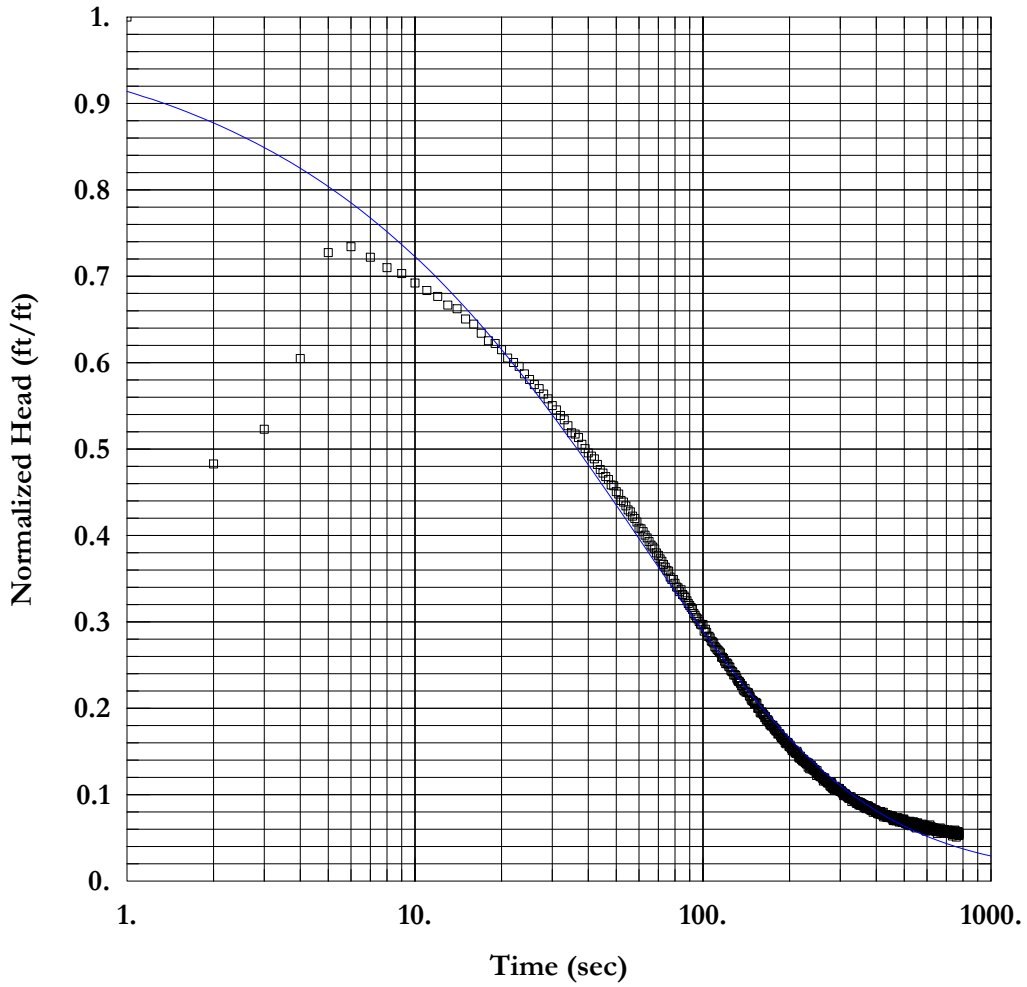
HSI SITE 10406, FORMER MCKENZIE TANK LINES SITE

FOURTH SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT 6-6
RW-9 FALLING HEAD TEST NO. 3 KGS MODEL ANALYSIS AND FIELD DATA TABLE

RW-9 Falling Head Test No. 3

Prepared By:	Prepared For:
EIC	McKenzie Tank Lines
Project:	Location:
460010	Port Wentworth, GA



SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.0003863 cm/sec Ss = 0.005655 ft^{-1}
Kz/Kr = 0.0001

AQUIFER DATA

Saturated Thickness: 50. ft

WELL DATA (RW-9)

Initial Displacement: 2.186 ft
Static Water Column Height: 25.21 ft
Total Well Penetration Depth: 25.21 ft
Screen Length: 20. ft
Casing Radius: 0.1667 ft
Well Radius: 0.1667 ft
Gravel Pack Porosity: 0.3

Data Set: \\EICSERVER\Company Files\projects\1910 project-GA\460000 McKenzie Tank Lines\460001, 002 Preliminary Evaluation, VIRP\120 draft EIC rep
Title: RW-9 Falling Head Test No. 3
Date: 05/11/16
Time: 18:09:43

PROJECT INFORMATION

Company: EIC
Client: McKenzie Tank Lines
Project: 460010
Location: Port Wentworth, GA
Test Date: 1/6/16
Test Well: RW-8

AQUIFER DATA

Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 0.0001

SLUG TEST WELL DATA

Test Well: RW-9

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 2.186 ft
Static Water Column Height: 25.21 ft
Casing Radius: 0.1667 ft
Well Radius: 0.1667 ft
Well Skin Radius: 0.1667 ft
Screen Length: 20. ft
Total Well Penetration Depth: 25.21 ft
Corrected Casing Radius (Butler Method): 0.1572 ft
Expected Initial Displacement: 1.99 ft

No. of Observations: 776

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.	2.186	389.	0.179
2.	1.055	390.	0.174
3.	1.143	391.	0.181
4.	1.322	392.	0.178
5.	1.59	393.	0.18
6.	1.605	394.	0.18
7.	1.578	395.	0.177
8.	1.552	396.	0.178
9.	1.537	397.	0.18
10.	1.513	398.	0.174
11.	1.494	399.	0.174
12.	1.479	400.	0.177
13.	1.457	401.	0.177
14.	1.448	402.	0.174
15.	1.422	403.	0.173
16.	1.409	404.	0.171
17.	1.386	405.	0.17
18.	1.367	406.	0.174
19.	1.36	407.	0.174
20.	1.344	408.	0.174
21.	1.323	409.	0.174
22.	1.312	410.	0.17
23.	1.302	411.	0.172
24.	1.283	412.	0.17
25.	1.269	413.	0.169
26.	1.256	414.	0.176
27.	1.246	415.	0.174
28.	1.232	416.	0.17
29.	1.22	417.	0.17
30.	1.203	418.	0.168
31.	1.192	419.	0.172

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
32.	1.178	420.	0.167
33.	1.167	421.	0.169
34.	1.152	422.	0.168
35.	1.134	423.	0.174
36.	1.131	424.	0.162
37.	1.122	425.	0.166
38.	1.105	426.	0.168
39.	1.094	427.	0.167
40.	1.083	428.	0.165
41.	1.075	429.	0.166
42.	1.068	430.	0.167
43.	1.054	431.	0.164
44.	1.041	432.	0.168
45.	1.032	433.	0.165
46.	1.023	434.	0.164
47.	1.016	435.	0.161
48.	1.002	436.	0.163
49.	1.	437.	0.161
50.	0.985	438.	0.166
51.	0.979	439.	0.167
52.	0.963	440.	0.161
53.	0.959	441.	0.161
54.	0.949	442.	0.164
55.	0.939	443.	0.164
56.	0.934	444.	0.163
57.	0.923	445.	0.16
58.	0.917	446.	0.161
59.	0.908	447.	0.164
60.	0.893	448.	0.161
61.	0.891	449.	0.165
62.	0.884	450.	0.164
63.	0.875	451.	0.163
64.	0.868	452.	0.163
65.	0.859	453.	0.162
66.	0.85	454.	0.158
67.	0.845	455.	0.164
68.	0.84	456.	0.156
69.	0.83	457.	0.158
70.	0.824	458.	0.153
71.	0.815	459.	0.155
72.	0.809	460.	0.157
73.	0.801	461.	0.156
74.	0.794	462.	0.157
75.	0.786	463.	0.155
76.	0.784	464.	0.155
77.	0.769	465.	0.158
78.	0.763	466.	0.155
79.	0.763	467.	0.155
80.	0.753	468.	0.152
81.	0.744	469.	0.156
82.	0.742	470.	0.154
83.	0.732	471.	0.16
84.	0.737	472.	0.155
85.	0.725	473.	0.156
86.	0.721	474.	0.155
87.	0.717	475.	0.158
88.	0.709	476.	0.16
89.	0.702	477.	0.157
90.	0.697	478.	0.154
91.	0.692	479.	0.153
92.	0.687	480.	0.149
93.	0.677	481.	0.152
94.	0.672	482.	0.157
95.	0.666	483.	0.155
96.	0.663	484.	0.153
97.	0.657	485.	0.154
98.	0.65	486.	0.154
99.	0.648	487.	0.156
100.	0.649	488.	0.151
101.	0.632	489.	0.15

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
102.	0.637	490.	0.156
103.	0.629	491.	0.153
104.	0.619	492.	0.148
105.	0.619	493.	0.155
106.	0.615	494.	0.15
107.	0.607	495.	0.151
108.	0.605	496.	0.15
109.	0.602	497.	0.154
110.	0.593	498.	0.157
111.	0.59	499.	0.154
112.	0.586	500.	0.148
113.	0.583	501.	0.149
114.	0.58	502.	0.15
115.	0.577	503.	0.147
116.	0.566	504.	0.15
117.	0.566	505.	0.146
118.	0.563	506.	0.148
119.	0.556	507.	0.151
120.	0.55	508.	0.145
121.	0.552	509.	0.148
122.	0.549	510.	0.149
123.	0.543	511.	0.146
124.	0.541	512.	0.144
125.	0.533	513.	0.148
126.	0.53	514.	0.15
127.	0.529	515.	0.146
128.	0.521	516.	0.147
129.	0.522	517.	0.148
130.	0.52	518.	0.147
131.	0.513	519.	0.143
132.	0.508	520.	0.142
133.	0.505	521.	0.147
134.	0.504	522.	0.147
135.	0.5	523.	0.146
136.	0.494	524.	0.151
137.	0.494	525.	0.143
138.	0.485	526.	0.145
139.	0.481	527.	0.14
140.	0.487	528.	0.145
141.	0.478	529.	0.144
142.	0.478	530.	0.148
143.	0.477	531.	0.144
144.	0.476	532.	0.141
145.	0.468	533.	0.144
146.	0.466	534.	0.146
147.	0.46	535.	0.146
148.	0.456	536.	0.142
149.	0.457	537.	0.144
150.	0.454	538.	0.15
151.	0.449	539.	0.147
152.	0.452	540.	0.143
153.	0.451	541.	0.144
154.	0.449	542.	0.141
155.	0.437	543.	0.148
156.	0.437	544.	0.137
157.	0.436	545.	0.142
158.	0.427	546.	0.139
159.	0.425	547.	0.146
160.	0.428	548.	0.141
161.	0.425	549.	0.145
162.	0.421	550.	0.134
163.	0.42	551.	0.145
164.	0.413	552.	0.141
165.	0.416	553.	0.141
166.	0.407	554.	0.139
167.	0.408	555.	0.142
168.	0.408	556.	0.138
169.	0.405	557.	0.147
170.	0.4	558.	0.143
171.	0.395	559.	0.142

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
172.	0.396	560.	0.14
173.	0.392	561.	0.136
174.	0.393	562.	0.139
175.	0.394	563.	0.139
176.	0.389	564.	0.137
177.	0.384	565.	0.141
178.	0.387	566.	0.139
179.	0.38	567.	0.141
180.	0.38	568.	0.14
181.	0.379	569.	0.135
182.	0.372	570.	0.14
183.	0.373	571.	0.136
184.	0.373	572.	0.138
185.	0.372	573.	0.135
186.	0.367	574.	0.137
187.	0.363	575.	0.137
188.	0.362	576.	0.139
189.	0.36	577.	0.137
190.	0.362	578.	0.144
191.	0.357	579.	0.134
192.	0.356	580.	0.137
193.	0.349	581.	0.138
194.	0.35	582.	0.142
195.	0.347	583.	0.14
196.	0.351	584.	0.141
197.	0.35	585.	0.135
198.	0.349	586.	0.134
199.	0.341	587.	0.134
200.	0.34	588.	0.138
201.	0.344	589.	0.13
202.	0.338	590.	0.141
203.	0.335	591.	0.135
204.	0.33	592.	0.133
205.	0.333	593.	0.129
206.	0.329	594.	0.136
207.	0.331	595.	0.131
208.	0.329	596.	0.126
209.	0.324	597.	0.135
210.	0.325	598.	0.134
211.	0.323	599.	0.138
212.	0.328	600.	0.137
213.	0.324	601.	0.139
214.	0.321	602.	0.135
215.	0.313	603.	0.136
216.	0.311	604.	0.135
217.	0.312	605.	0.139
218.	0.316	606.	0.135
219.	0.31	607.	0.134
220.	0.307	608.	0.128
221.	0.31	609.	0.131
222.	0.304	610.	0.136
223.	0.304	611.	0.135
224.	0.307	612.	0.129
225.	0.303	613.	0.135
226.	0.301	614.	0.142
227.	0.299	615.	0.132
228.	0.301	616.	0.134
229.	0.296	617.	0.137
230.	0.3	618.	0.134
231.	0.296	619.	0.131
232.	0.288	620.	0.135
233.	0.298	621.	0.137
234.	0.292	622.	0.132
235.	0.284	623.	0.132
236.	0.289	624.	0.131
237.	0.293	625.	0.129
238.	0.292	626.	0.13
239.	0.283	627.	0.133
240.	0.287	628.	0.134
241.	0.287	629.	0.131

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
242.	0.283	630.	0.129
243.	0.279	631.	0.134
244.	0.282	632.	0.132
245.	0.282	633.	0.133
246.	0.279	634.	0.132
247.	0.275	635.	0.128
248.	0.267	636.	0.134
249.	0.279	637.	0.131
250.	0.271	638.	0.127
251.	0.272	639.	0.131
252.	0.27	640.	0.133
253.	0.269	641.	0.132
254.	0.268	642.	0.127
255.	0.264	643.	0.127
256.	0.264	644.	0.132
257.	0.264	645.	0.125
258.	0.264	646.	0.127
259.	0.264	647.	0.131
260.	0.261	648.	0.132
261.	0.259	649.	0.131
262.	0.253	650.	0.126
263.	0.261	651.	0.13
264.	0.256	652.	0.12
265.	0.261	653.	0.125
266.	0.255	654.	0.127
267.	0.254	655.	0.127
268.	0.251	656.	0.131
269.	0.252	657.	0.129
270.	0.252	658.	0.131
271.	0.248	659.	0.128
272.	0.25	660.	0.13
273.	0.248	661.	0.128
274.	0.25	662.	0.127
275.	0.25	663.	0.13
276.	0.242	664.	0.129
277.	0.24	665.	0.129
278.	0.248	666.	0.131
279.	0.249	667.	0.134
280.	0.238	668.	0.124
281.	0.245	669.	0.131
282.	0.235	670.	0.124
283.	0.235	671.	0.128
284.	0.238	672.	0.127
285.	0.233	673.	0.128
286.	0.231	674.	0.126
287.	0.234	675.	0.13
288.	0.24	676.	0.129
289.	0.233	677.	0.129
290.	0.237	678.	0.129
291.	0.233	679.	0.125
292.	0.232	680.	0.131
293.	0.229	681.	0.128
294.	0.233	682.	0.129
295.	0.234	683.	0.126
296.	0.231	684.	0.129
297.	0.234	685.	0.122
298.	0.234	686.	0.126
299.	0.227	687.	0.121
300.	0.227	688.	0.127
301.	0.229	689.	0.129
302.	0.228	690.	0.126
303.	0.228	691.	0.13
304.	0.224	692.	0.128
305.	0.223	693.	0.127
306.	0.225	694.	0.122
307.	0.22	695.	0.126
308.	0.216	696.	0.122
309.	0.221	697.	0.123
310.	0.218	698.	0.127
311.	0.22	699.	0.127

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
312.	0.221	700.	0.123
313.	0.218	701.	0.124
314.	0.217	702.	0.125
315.	0.217	703.	0.126
316.	0.215	704.	0.122
317.	0.213	705.	0.121
318.	0.213	706.	0.125
319.	0.214	707.	0.124
320.	0.21	708.	0.128
321.	0.212	709.	0.126
322.	0.21	710.	0.129
323.	0.209	711.	0.121
324.	0.213	712.	0.124
325.	0.209	713.	0.125
326.	0.209	714.	0.122
327.	0.213	715.	0.126
328.	0.208	716.	0.125
329.	0.201	717.	0.123
330.	0.209	718.	0.125
331.	0.206	719.	0.12
332.	0.206	720.	0.127
333.	0.208	721.	0.123
334.	0.205	722.	0.123
335.	0.203	723.	0.123
336.	0.204	724.	0.121
337.	0.202	725.	0.124
338.	0.203	726.	0.126
339.	0.204	727.	0.127
340.	0.2	728.	0.121
341.	0.197	729.	0.12
342.	0.201	730.	0.122
343.	0.196	731.	0.122
344.	0.198	732.	0.12
345.	0.2	733.	0.126
346.	0.197	734.	0.124
347.	0.2	735.	0.114
348.	0.193	736.	0.124
349.	0.198	737.	0.124
350.	0.199	738.	0.119
351.	0.192	739.	0.123
352.	0.192	740.	0.119
353.	0.198	741.	0.118
354.	0.196	742.	0.123
355.	0.193	743.	0.124
356.	0.196	744.	0.123
357.	0.191	745.	0.121
358.	0.195	746.	0.12
359.	0.193	747.	0.125
360.	0.19	748.	0.124
361.	0.192	749.	0.129
362.	0.193	750.	0.12
363.	0.186	751.	0.127
364.	0.192	752.	0.124
365.	0.189	753.	0.123
366.	0.188	754.	0.121
367.	0.189	755.	0.12
368.	0.183	756.	0.121
369.	0.187	757.	0.124
370.	0.191	758.	0.111
371.	0.189	759.	0.124
372.	0.188	760.	0.121
373.	0.189	761.	0.124
374.	0.19	762.	0.125
375.	0.186	763.	0.117
376.	0.189	764.	0.119
377.	0.185	765.	0.125
378.	0.182	766.	0.123
379.	0.186	767.	0.12
380.	0.182	768.	0.121
381.	0.185	769.	0.122

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
382.	0.184	770.	0.125
383.	0.179	771.	0.121
384.	0.184	772.	0.123
385.	0.185	773.	0.119
386.	0.179	774.	0.115
387.	0.179	775.	0.122
388.	0.179	776.	0.117

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	0.0003863	cm/sec
Ss	0.005655	ft^{-1}
Kz/Kr	0.0001	

T = K*b = 0.5887 cm^2/sec

HSI SITE 10406, FORMER MCKENZIE TANK LINES SITE

FOURTH SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT 8-1
Monthly Summary of Hours
(May 2015 – Oct. 2015)

Environmental International Corporation
McKenzie Tank Lines VIRP Summary of Hours
November 2015 through April 2016

TASKS	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	Apr 16	TOTAL
Semi-Annual Report	150.88	0.00	0.00	0.00	0.00	0.00	151
GW Sampling	73.25	0.00	0.00	0.00	0.00	0.00	73
Slug Test	0.00	92.97	91.85	0.00	0.00	0.00	185
Soil Boring/Sediment	1.25	7.75	105.20	0.00	0.00	0.00	114
TOTAL	**225**	**101**	**197**	**0**	**0**	**0**	**523**