Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 6/29/2018

Permit Number 18693

Project Manager Bobbi Coleman

Name of Contractor CH2M

UST Certification Number 2018 Annual Monitoring Report

Docket Number 26ic.RP

Scanned _____

CH2M
3120 Highwoods Boulevard
Suite 214
Raleigh, NC 27604
O +1 919 875 4311
F +1 919 875 8491
www.ch2m.com

June 27, 2018

Delivered via FedEx Overnight Delivery

Ms. Bobbi Coleman
South Carolina Department of Health and Environmental Control (SCDHEC)
Assessment Section, UST Management Division
Bureau of Land and Waste Management
2600 Bull Street
Columbia, SC 29201

Subject: 2018 Annual Monitoring Report
Plantation Pipe Line Company
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693, "Kinder Morgan Belton Pipeline Release"

Dear Ms. Coleman,

On behalf of Plantation Pipe Line Company (Plantation), CH2M HILL Engineers, Inc. (CH2M), now a wholly owned subsidiary of Jacobs Engineering Group Inc. (Jacobs), is submitting the attached 2018 Annual Monitoring Report for the Lewis Drive Remediation Site in Belton, South Carolina. This report summarizes the work performed at the site between April 1, 2017, and March 31, 2018. If you have any questions or concerns, please call me at 919-760-1777 or Mr. Jerry Aycock/Plantation at 770-751-4165.

Regards,
CH2M HILL Engineers, Inc.

William M. Waldron, P.E.
Program Manager

c: Jerry Aycock, Plantation (Digital, Jerry_Aycock@kindermorgan.com)
Mary Clair Lyons, Esq., Plantation (Digital, Mary_Lyons@kindermorgan.com)
Richard Morton, Esq., Womble Bond Dickinson, LLP (Digital, ric.morton@wbd-us.com)
File

REPORT

2018 Annual Monitoring Report
Lewis Drive Remediation Site
Belton, South Carolina

Site ID Number 18693
"Kinder Morgan Belton Pipeline Release"

Prepared for

Plantation Pipe Line Company

June 27, 2018

CH2M HILL Engineers, Inc.
A wholly owned subsidiary of Jacobs Engineering Group Inc.
3120 Highwoods Boulevard, Suite 214
Raleigh, North Carolina 27604

2018 Annual Monitoring Report
Lewis Drive Remediation Site
Belton, South Carolina
Site ID Number 18693
"Kinder Morgan Belton Pipeline Release"

PREPARED FOR

PLANTATION PIPE LINE COMPANY

PREPARED BY

ch2m.

A wholly owned subsidiary of Jacobs Engineering Group Inc.
Raleigh, North Carolina

JUNE 27, 2018

I affirm that this report was prepared under my direct supervision.

JONATHAN E. GRIMES REGISTERED No. 2235 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

Jonathan Grimes, P.G.
South Carolina Registered Professional Geologist No. 2235

27 Jun 18
Date

Contents

Appendixes

Tables

Figures

Acronyms and Abbreviations

µg/L	microgram(s) per liter
1,2-DCA	1,2-dichloroethane
BCPZ	Brown's Creek Protection Zone
BTEX	benzene, toluene, ethylbenzene, and xylenes
CAP	Corrective Action Plan
CCPZ	Cupboard Creek Protection Zone
CH2M	CH2M HILL Engineers, Inc.
COC	chain-of-custody
CSA	Comprehensive Site Assessment
DO	dissolved oxygen
EPA	U.S. Environmental Protection Agency
ID	identification
Jacobs	Jacobs Engineering Group Inc.
LNAPL	light non-aqueous phase liquid
mg/L	milligram(s) per liter
MTBE	methyl tertiary butyl ether
O&M	operation and maintenance
PID	photoionization detector
Plantation	Plantation Pipe Line Company
QAPP	Quality Assurance Project Plan
SCDHEC	South Carolina Department of Health and Environmental Control
scfm	standard cubic feet per minute
scfm/ft	standard cubic feet per minute per foot
UST	underground storage tank

SECTION 1

Introduction

On behalf of Plantation Pipe Line Company (Plantation), CH2M HILL Engineers, Inc. (CH2M), a wholly owned subsidiary of Jacobs Engineering Group Inc. (Jacobs), is submitting this 2018 Annual Monitoring Report for the Lewis Drive Remediation Site in Belton, South Carolina. This report summarizes the work performed at the site between April 1, 2017, and March 31, 2018.

On December 8, 2014, a release of an estimated 8,800 barrels (369,600 gallons) of gasoline and a small amount of diesel fuel (Plantation, 2015) was discovered from a sleeve on Plantation's 26-inch product pipeline near Lewis Drive, Belton, South Carolina (Figure 1). The site is located on the pipeline right-of-way between Lewis Drive, a rural two-lane undivided asphalt road, to the east and a hayfield to the west. The release location and site features (including the location of monitoring wells, recovery sumps, temporary wells [piezometers], recovery trenches, etc.) are shown on Figure 1.

This site has been designated by the South Carolina Department of Health and Environmental Control (SCDHEC) as Site Number 18693 "Kinder Morgan Belton Pipeline Release." This Annual Monitoring Report was prepared in accordance with the Corrective Action Plan (CAP) (CH2M, 2016b), CAP Addendum, Revision 1 (CH2M, 2017j), CAP Addendum, Revision 2 (CH2M, 2017u), Comprehensive Site Assessment (CSA) Report (CH2M, 2016a), and Quality Assurance Project Plan (QAPP), Revision 3 (CH2M, 2017g), which was updated in February 2018 with the project QAPP, Revision 4 (CH2M, 2018d). Significant correspondence between Plantation and SCDHEC during this reporting period is summarized below:

- Monthly status reports April 2017 through March 2018 (CH2M, 2017l, 2017m, 2017p, 2017q, 2017s, 2017v, 2017w, 2017y, 2018a, 2018g, 2018j, 2018l).
- April 11, 2017 – *Request for Authorization to Initiate Remediation in the Hayfield Zone* (CH2M, 2017a).
- April 11, 2017 – *Response to Comments in SCDHEC Letter titled "Weekly Report Reviews" dated March 31, 2017* (CH2M, 2017b).
- April 13, 2017 – *Lewis Drive – Weekly Startup Data Transmittal for Week 4, March 28 to April 3, 2017* (CH2M, 2017c).
- May 8, 2017 – *Shallow Bedrock Zone – Biosparging Pilot Study Plan* (CH2M, 2017d).
- May 8, 2017 – *Request for Well Permit to Install Additional Monitoring Wells* (CH2M, 2017e).
- May 24, 2017 – *Response to Comments on SCDHEC Letter titled "Quality Assurance Project Plan Revision Request," dated April 26, 2017* (CH2M, 2017f).
- May 24, 2017 – *Quality Assurance Project Plan, Revision 3*. Addendum to the SCDHEC UST Programmatic Quality Assurance Program Plan for Plantation Pipe Line Company/Site ID No. 18693 (CH2M, 2017g).
- May 25, 2017 – *Response to SCDHEC Letter titled "Corrective Action Plan, Response to Comments, and Monthly Report Review & Request for a Revised Correction Action Plan Addendum," dated April 26, 2017* (CH2M, 2017h).
- May 25, 2017 – *Technical Memorandum: Light Non-Aqueous Phase Liquid Mobility Testing* (CH2M, 2017i).
- May 25, 2017 – *Corrective Action Plan Addendum, Revision 1* (CH2M, 2017j).

- July 26, 2017 – *Sparging Operating Limits* (CH2M, 2017k).
- August 4, 2017 – *Interim Free Product Recovery Plan – Revision 3* (CH2M, 2017n).
- August 11, 2017 – *Response to Comments in SCDHEC Letter titled "Weekly and Monthly Report Reviews, Monitoring Well Installation Approval, and Pilot Study Plan Review, Weekly Startup Status Update for Week 3, March 21-27, 2017, e-mailed March 31, 2017, Weekly Startup Status Update for Week 4, March 28, 2017- April 4, 2017, received April 13, 2017, Weekly Startup Supplemental Data Transmittal for Week 4, April 4-6, 2017, received April 21, 2017, Response to Comments received April 12, 2017, March 2017 Final Monthly Status Update, received May 3, 2017, Request for Well Permit to Install Additional Monitoring Wells, received May 9, 2017, Shallow Bedrock Zone-Biosparging Pilot Study Plan, received May 9, 2017" dated June 16, 2017* (CH2M, 2017o).
- October 6, 2017 – *Second Quarter 2017 Monitoring Report* (CH2M, 2017r).
- October 12, 2017 – *Response to Comments in SCDHEC Letter titled "Final Revisions to Corrective Action Plan Addendum Request" dated September 12, 2017* (CH2M, 2017t).
- October 12, 2017 – *Corrective Action Plan Addendum, Revision 2* (CH2M, 2017u).
- December 6, 2017 – *Third Quarter 2017 Monitoring Report* (CH2M, 2017x).
- December 26, 2017 – *Technical Memorandum – Review of Chandler AG Well Data* (Environmental Standards, Inc., 2017).
- February 6, 2018 – *Free-Product Recovery Plan – Revision 4* (CH2M, 2018b).
- February 9, 2018 – *Response to Comments in SCDHEC Letter titled "QAPP Revision, Monitoring Well Installation and Well Log Information, Receptor Survey, Plume Definition Plan, and Bedrock Plan Request" dated December 14, 2017* (CH2M, 2018c).
- February 9, 2018 – *Quality Assurance Project Plan, Revision 4*. Addendum to the SCDHEC UST Programmatic Quality Assurance Program Plan for Plantation Pipe Line Company/Site ID No. 18693. (CH2M 2018d).
- February 23, 2018 – *Well Abandonment and Well Completion Summary* (CH2M, 2018e).
- February 27, 2018 – *Fourth Quarter 2017 Monitoring Report* (CH2M, 2018f).
- March 13, 2018 – *Lewis Drive – Memorandums from Environmental Standards, Inc. Certified on January 26, 2018 and March 12, 2018* (CH2M, 2018h).
- March 22, 2018 – *Product Recovery Skimmer Results* (CH2M, 2018i).
- March 26, 2018 – *Request for Well Permit to Install Additional Monitoring Wells* (CH2M, 2018k).
- May 4, 2018 – *Request for Well Permit to Install Additional Vertical Sparging Wells for Biosparging System Expansion* (CH2M, 2018m).

SECTION 2

Work Activities

The following remediation-related activities were performed during this first annual reporting period since system startup in accordance with the CAP (CH2M, 2016b), CAP Addendum, Revision 1 (CH2M, 2017j), CAP Addendum, Revision 2 (CH2M, 2017u), and QAPP, Revision 3 (CH2M, 2017g), which was updated in February 2018 with the project QAPP, Revision 4 (CH2M, 2018d):

- Conducted 12 groundwater sampling events and 10 surface water sampling events.
- Started and operated vertical sparging wells in the areas of Brown's Creek and Cupboard Creek (Figure 1).
- Started and operated stream aerators in Brown's Creek.
- Started and operated three horizontal sparging wells in the Hayfield Zone (Figure 1).
- Performed routine operation and maintenance (O&M) events on the sparging system.
- Recorded changes in groundwater levels and barometric pressures using In Situ Rugged Troll 100 water level data loggers.
- Performed free product recovery in wells with measurable product thickness in the Brown's Creek Protection Zone (BCPZ) and Cupboard Creek Protection Zone (CCPZ).
- Performed light non-aqueous phase liquid (LNAPL) mobility tests on select recovery wells. Mobility testing was performed to quantify LNAPL transmissivity and evaluate the efficacy of continuing LNAPL recovery.
- Installed residuum monitoring wells MW-43, MW-46, MW-47, and MW-49 and bedrock monitoring wells MW-06B, MW-09B, MW-43B, MW-48B, and MW-50B.
- Rehabilitated existing monitoring well MW-02B.
- Abandoned RS-19, RT-2H, and TW-46 on September 13, 2017, because of damage.
- Installed reactive core mat adjacent to recovery trench riser RT-2B to address seeps near Brown's Creek.
- Established surface water sampling location SW-14 in the Cupboard Creek drainage area.
- Transported and disposed of liquid and soil waste generated during the completion of work onsite.
- Performed inspections of surface water features at Brown's Creek and Cupboard Creek.

SECTION 3

Work Procedures

3.1 Gauging Events

Monitoring wells, surface water locations, and piezometers were gauged monthly. Gauging sheets for this reporting period can be found in Appendix A. Product recovery features (recovery sumps, trenches, and wells) were gauged once per week until February 2018, and at that time the gauging frequency became monthly for all features in accordance with the Free-Product Recovery Plan – Revision 4 (CH2M, 2018b). Observations made during this reporting period are summarized in Table 1 and discussed in Section 3.2. Field notes for this reporting period can be found in Appendix A.

3.2 Product Recovery

As agreed upon with the SCDHEC (CH2M, 2017n), free product recovery was focused on the BCPZ and CCPZ during this reporting period. Product recovery was performed once weekly in these two zones in recovery wells, sumps, and trenches that had measurable product thickness. Product recovery outside of these zones was performed as time permitted. Vacuum trucks were used to recover and transfer the product and petroleum-contact water into two onsite poly tanks for temporary storage and separation. During product recovery, color changes of the extracted fluids were monitored, and extraction ceased when recovered liquids from the recovery features were observed to be clear and emulsification was minimal. During each recovery event, the operator recorded the duration of product recovery from each recovery feature or well. The quantity of recovered product and petroleum-contact water was tracked by measuring these fluid levels in the onsite poly tanks prior to and after the recovery event. When the fluid levels of both poly tanks were full (at the poly tank neck), the fluids were decanted and transported to the A&D Environmental facility in Archdale, North Carolina, for disposal.

To improve the effectiveness of product recovery, product recovery transitioned from vacuum truck to product-skimming canisters (skimmers) and petroleum-absorbent socks (socks) in February 2018 in accordance with the Free-Product Recovery Plan – Revision 4 (CH2M, 2018b). Using skimmers and socks will allow for more accurate quantification of the amount of product recovered on a well-by-well basis. The last vacuum truck event for product recovery was performed on February 2, 2018. Skimmers and socks were deployed on February 13, 2018, in locations that had measurable product in December 2017. These skimmers and socks were checked weekly for one month to record product recovery. Due to low product recovery volumes, in accordance with Plantation's report to SCDHEC on the Product Recovery Skimmer Results (CH2M, 2018i), the frequency of product recovery changed to monthly after March 2018 and was scheduled to coincide with monthly monitoring events. Recovered fluids from the skimmers are placed into the onsite poly tanks for temporary storage and separation. Used socks are placed in a drum for eventual offsite disposal.

3.3 Surface Water

Inspections of surface water features were performed weekly at the site until February 2, 2018, and monthly thereafter. The inspection route used is illustrated on Figures 1, 2A, and 2B.

Surface water samples were collected in accordance with the CAP Addendum, Revision 2 (CH2M, 2017u). Surface water samples were collected monthly during this reporting period except for October and November 2017.

Surface water samples were scheduled to be collected from 16 locations (an additional location, SW-14, was established in late June 2017). Because of an anomalous detection of hydrocarbons at SW-02 from

December 5, 2017, an additional sampling event was performed on December 14, 2017. During this reporting period, location SW-06 in Cupboard Creek was not sampled because it was dry, and location SW-05 in Cupboard Creek was not sampled because it was dry 8 of the 10 times it was scheduled to be sampled. Location FP-03 was not sampled in April 2017 due to thunderstorms. Location SW-03 was not sampled in January 2018 because the location was frozen over. Location SW-07, in Brown's Creek, was not sampled in August and September 2017 because it was dry.

Samples were collected in accordance with the project QAPP, Revision 3 (CH2M, 2017g), which was updated in February 2018 with the project QAPP, Revision 4 (CH2M, 2018d), and were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and naphthalene using U.S. Environmental Protection Agency (EPA) Method 8260B (see Table 2). Methyl tertiary butyl ether (MTBE) was added to the analyte list in February 2018 using EPA Method 8260B. The samples were packed in wet ice and transported by FedEx under standard chain-of-custody (COC) procedures to ESC Lab Sciences in Mount Juliet, Tennessee. Laboratory reports for surface water samples and COC records for January through March 2018 are included in Appendix B. All previous laboratory reports and COC records were submitted in Quarterly Reports (CH2M, 2017r, 2017x, 2018f). Laboratory results are summarized in Table 2. Field notes for this reporting period can be found in Appendix A.

3.4 Groundwater Sampling Events

Twelve groundwater sampling events were performed during the reporting period. Prior to each sampling event, a comprehensive round of groundwater gauging was conducted using an oil-water interface probe to measure the depth to water and test for the presence and thickness (if present) of product. The oil-water interface probe was decontaminated before each measurement. Groundwater elevation and product thickness data are summarized in Table 3. Gauging sheets and field notes for this reporting period can be found in Appendix A. Figures 2A and 2B show groundwater elevations in the residuum and bedrock aquifers, respectively, while Figure 3 shows the product thickness data.

Groundwater wells without free product were sampled using either HydraSleeves or a peristaltic pump using low-flow purge methods. The height of the water column determined if a well was sampled using a HydraSleeve or peristaltic pump according to the following:

- Water column greater than 3 feet — A HydraSleeve was used to sample the well, and dissolved oxygen (DO) concentrations were measured using a YSI ProODO meter. DO concentrations were recorded in the field logbook and are summarized in Table 4.
- Water column less than 3 feet but greater than 0.5 foot — A peristaltic pump was used to purge the well, and field parameters were measured using a YSI 6920 V2-2 Multi-Parameter Water Quality Sonde meter to confirm stabilization of field parameters, in accordance with the SCDHEC Programmatic Quality Assurance Program Plan, Revision 3.1 (Programmatic QAPP) (South Carolina Underground Storage Tank [UST] Management Division, 2016). Once the parameters stabilized, a sample was collected from the well using the straw method. DO concentrations were measured using a YSI ProODO meter. Upon stabilization, the field parameters were recorded on a separate purge log. DO measurements are summarized in Table 4.
- Water column less than 0.5 foot — The well was reported dry, was documented in the field logbook as dry, was not sampled, and DO measurements were not collected.

Samples were packed on wet ice, and transported by FedEx under standard COC procedures to ESC Lab Sciences in Mount Juliet, Tennessee. Samples were analyzed for BTEX, 1,2-dichloroethane (1,2-DCA), MTBE, and naphthalene using EPA Method 8260B. Laboratory data sheets for groundwater samples and COC records for January through March 2018 are included in Appendix C. All previous laboratory reports and COC records were submitted in Quarterly Reports (CH2M, 2017r, 2017x, 2018f). Laboratory results are summarized in Table 5. Field notes and purge logs for this reporting period can be found in Appendix A.

3.5 Sparging System Operation and Maintenance

Sparging was initiated on March 6, 2017, according to the Startup Plan, Appendix B (CH2M, 2017k), with routine O&M activities performed during this reporting period. O&M logs for January through March 2018 are provided in Appendix D; previous O&M logs were submitted in Quarterly Reports (CH2M, 2017r, 2017x, 2018f). Sparging activities are summarized by remediation area below. When sparging rates were increased in any of the wells, air monitoring was performed with a photoionization detector (PID) and visual observations were made near the sparging wells.

- BCPZ: Sparging in the BCPZ was performed using a curtain of 27 vertical sparging wells. The flow rates in these wells were increased incrementally from 1 to 10 standard cubic feet per minute (scfm) by the end of the reporting period. Additionally, air was injected into two submersible diffusion aerators installed in Brown's Creek. The flow rates in these aerators were increased from 1 to 15 scfm during this reporting period.
- CCPZ: Sparging in the CCPZ was performed using a curtain of 19 vertical sparging wells. The flow rates in these wells were increased incrementally from 1 to 10 scfm during this reporting period.
- Shallow Bedrock Zone: No sparging has been performed in the Shallow Bedrock Zone to date. A pilot plan for sparging in the Shallow Bedrock Zone was approved on December 14, 2017. However, based on a meeting with SCDHEC on March 7, 2018, Plantation is deferring the bedrock sparging pilot study and installation of these wells at this time. Plantation is planning to expand the BCPZ and the CCPZ sparging systems, which will address key areas of impact within the Shallow Bedrock Zone.
- Hayfield Zone: Air sparging was initiated in the Hayfield Zone on May 9, 2017, in accordance with Plantation's "Request for Authorization to Initiate Remediation in the Hayfield Zone," dated April 11, 2017. Air sparging was initiated at a rate of 0.05 scfm per foot of screen (scfm/ft) in each of the three horizontal wells (HAS-1, HAS-2, and HAS-3). These wells have screen lengths of approximately 752 feet, 715 feet, and 377 feet, respectively. Therefore, the initial total injection rate in the Hayfield Zone was approximately 92 scfm. The flow rate into the injection wells was increased during this reporting period until a flow rate of 1,070 scfm was achieved. The horizontal wells were briefly turned off between September 26, 2017, and October 9, 2017, to allow for well installation and repair activities in the Hayfield Zone. Subsequently, flow rates in these wells were increased weekly by approximately 0.04 scfm/ft to 0.70 scfm/ft by the end of March 2018.

Water levels were measured in the BCPZ, CCPZ, and Hayfield Zone to document the influence of the sparging system on the residuum aquifer. Since the system was started, water level data loggers (In Situ Rugged Troll 100) have measured groundwater elevations continuously at various locations around the site. Data loggers were positioned in MW-02, MW-12, MW-15, and MW-20, and a barometric pressure logger in MW-01, for most of the reporting period. In June 2017, two additional water level data loggers were installed in MW-08 and MW-25, and a barometric pressure logger was installed in MW-10. The water level data logger in MW-25 was removed, cleaned, and relocated to MW-40 in September 2017. In November 2017, the water level data logger in MW-08 was removed, cleaned, and relocated to MW-25. In February 2018, the water level data loggers in MW-15 and MW-20 were cleaned and relocated to MW-29 and MW-30, respectively, because skimmers were placed in MW-15 and MW-20 to aid in product recovery.

3.6 Additional Activities

Additional activities for March 2017 through December 2017 were discussed in the Second Quarter 2017 Monitoring Report (April through June 2017; CH2M, 2017r), Third Quarter 2017 Monitoring Report (July through September 2017; CH2M, 2017x), and Fourth Quarter 2017 Monitoring Report (October through December 2017; CH2M, 2018f). In addition, recovered fluids were transported to the A&D Environmental facility in Archdale, North Carolina, in January 2018 for disposal. See Appendix E for the Bills of Lading and Table 6 for a summary of the total product transported and disposed of offsite.

SECTION 4

Discussion of Results

4.1 Product Recovery

Since the beginning of free product recovery through March 31, 2018, approximately 222,980 gallons (5,309 barrels) of product have been recovered. During this reporting period, 4,212 gallons of product were recovered at the site. Of this, 4,200 gallons were recovered from vacuum truck operations through September 2017; after September 2017, the amount of product recovered could not be measured.

To more accurately quantify the amount of product recovered by well, the method of product recovery transitioned to in-well skimmers and socks in February 2018; 5.75 gallons of product were recovered by these methods in February and March 2018. This most recent recovery data indicate that very little product is available for recovery and in fact, the majority (67 percent) of product recovered in February and March 2018 was from one well (RS-05).

Table 3 summarizes the dates, times, and recovery features used for product recovery while vacuum truck operations were performed. Table 6 shows the dates and quantities of product that were shipped offsite for disposal. Table 7 shows the dates and quantities of product that were recovered while using skimmers and socks. Field notes for this reporting period can be found in Appendix A. Appendix E contains the Bills of Lading from January through March 2018 for transportation of fluids offsite for disposal. Prior Bills of Lading were presented in Quarterly Reports (CH2M, 2017r, 2017x, 2018f).

4.2 Surface Water

Observations made during this reporting period are summarized in Table 1. Field notes for this reporting period can be found in Appendix A. No new signs of distressed vegetation, hydrocarbon sheens, or odors were observed during the inspections for this reporting period. However, naturally occurring biological sheens (not from the hydrocarbon release at the site) were frequently observed on Brown's Creek. During the end of May and into June 2017, occasional hydrocarbon sheens were noted in a depressed area (due to recovery trench settlement) adjacent to Brown's Creek near recovery trench risers RT-2B, RT-2C, and RT-2K. However, through naturally occurring biological degradative processes, the hydrocarbon sheen did not migrate to Brown's Creek. Also, during February 2018, new turbidity was observed in Brown's Creek, associated with the replacement of the culvert under Lewis Road, performed by Anderson County Roads and Bridges Department. This turbidity was no longer observed in March 2018.

From April 2017 through March 2018, BTEX concentrations were detected in surface water at SW-01, SW-02, SW-04, SW-08, SW-12, and SW-13 (Table 2). Benzene was the only constituent that exceeded the surface water standard for protection of human health for consumption of water and organisms of 2.2 micrograms per liter (µg/L) (SCDHEC, 2014).

Surface water samples collected from SW-12 exceeded benzene screening criteria during 11 sampling events. SW-12 is located near a known seep where groundwater impacts enter Brown's Creek. Concentrations at SW-12 have decreased 95 percent since April 2017.

Surface water samples collected from SW-02 exceeded benzene screening criteria between December 2017 and March 2018. Plantation contracted Environmental Standards, Inc. to perform a forensic review of the detections at SW-02 (Environmental Standards, Inc., 2018). The review concluded that the chemical profile of the samples collected at SW-02 differed significantly from SW-12, and therefore the impacts at SW-02 cannot be attributed to the release at the site. The summary of this review was transmitted to SCDHEC earlier this year under a separate cover. The detections at SW-02 since December 2017 have decreased 88 percent.

Isolated benzene exceedances were detected in samples collected from SW-01 and SW-04 in December 2017 and February 2018, respectively.

Construction details for the stream gauges are presented in Table 8. Surface water sample results are summarized in Table 2. Field notes for this reporting period can be found in Appendix A. Trends for surface water sampling locations SW-01, SW-02, and SW-12 are presented in Appendix F. Analytical data sheets and COC records are included in Appendix B for the events in January through March 2018. Prior analytical data sheets and COC records were presented in Quarterly Reports (CH2M, 2017r, 2017x, 2018f).

4.3 Groundwater Flow and Product Distribution

Water levels from the March 2018 gauging event were used to create potentiometric surface maps for the site (Figures 2A and 2B). Groundwater in both the residuum (Figure 2A) and bedrock (Figure 2B) aquifers mimics the topography of the site and generally flows from topographic highs to topographic lows. Cupboard Creek flows intermittently, indicating the primary direction of groundwater flow is northeast toward Brown's Creek. The March 2018 water table configurations and direction of groundwater flow are consistent with previous findings.

Product thicknesses sitewide decreased significantly from April 2017 through March 2018, and are presented alongside well gauging data in Table 3. This decrease in product thickness is directly attributable to the startup of the biosparging system. Gauging sheets for this reporting period can be found in Appendix A. Hydrographs for nonrecovery (monitoring wells and piezometers) and recovery (recovery sumps, recovery trenches, and recovery wells) features representative of general product thickness trends are presented in Appendix G. Results are summarized as follows:

- Nonrecovery Features:
  - Decreasing product thickness trends were noted in groundwater monitoring wells MW-09, MW-11, MW-12, MW-16, and MW-20.
  - A stable product thickness trend is noted in monitoring well MW-18.
- Recovery Features:
  - Decreasing product thickness trends were noted in recovery sumps RS-01, RS-02, RS-05, RS-06, RS-07, RS-08, RS-09, RS-11, RS-12, and RS-18; in recovery trench risers RT-1A, RT-1B, RT-1C, RT-2K, RT-2L; and in recovery wells RW-02, RW-07, RW-08, RW-09, RW-10, RW-11, and RW-13.
  - Stable product thickness trends are noted in recovery sumps RS-10, RS-14, and RS-15; and in recovery wells RW-04, RW-05, and RW-15.

The product extent in June 2016 is compared to that in March 2018 on Figure 3, demonstrating the decrease of product thickness and extent over the last 21 months. The extent of product has decreased since product is no longer measurable in MW-09, MW-11, MW-12, MW-16, RS-06, RS-07, RS-08, RS-09, RS-11, RS-12, RS-13, RT-1A, RT-1B, RT-1C, RW-03, RW-06, RW-07, RW-08, RW-10, RW-11, RW-13, RW-14, TW-84, and TW-94.

Stream elevations are tabulated in Table 3 and are presented with groundwater elevations on Figure 2A. Construction details for recovery and nonrecovery features are presented in Table 9.

4.4 Dissolved Oxygen Distribution

DO measurements in groundwater are provided in Table 4. Field notes for this reporting period can be found in Appendix A. The average DO concentration has increased in both the residuum and bedrock wells. In residuum wells, the average DO concentration increased from 3.98 milligrams per liter (mg/L) in

March 2017 to 7.10 mg/L in April 2018. In bedrock wells, the average DO concentration increased from 0.89 mg/L in March 2017 to 2.73 mg/L in April 2018.

4.4.1 Brown's Creek Protection Zone

DO concentrations in the BCPZ increased from 1.25 mg/L in April 2017 to 3.69 mg/L in March 2018.

4.4.2 Cupboard Creek Protection Zone

DO concentrations in the CCPZ decreased from 4.25 mg/L in April 2017 to 3.06 mg/L in March 2018.

4.4.3 Hayfield Zone

The average DO concentration in the Hayfield Zone increased from 5.62 mg/L in April 2017 to 9.48 mg/L in March 2018.

4.4.4 Shallow Bedrock Zone

DO levels in this zone have declined from 4.05 mg/L in September 2017 (first time DO readings were collected) to 0.71 mg/L in April 2018.

4.5 Groundwater Monitoring Results

Groundwater monitoring results for this reporting period indicate that there are significant decreases in dissolved concentrations of hydrocarbons in the BCPZ, CCPZ, and Hayfield Zone, and stable trends in the Shallow Bedrock Zone, in bedrock wells, and in other locations outside the influence of the sparging systems. Table 5 presents analytical results for all groundwater samples that have been collected at the site since July 2015. Field notes and purge logs for this reporting period can be found in Appendix A. The laboratory analytical reports for the sampling events in January through March 2018 are provided in Appendix C. Prior analytical data reports were presented in Quarterly Reports (CH2M, 2017r, 2017x, 2018f). Groundwater analytical results are screened against the risk-based screening levels listed in the South Carolina Programmatic QAPP, Table D1 (South Carolina UST Management Division, 2016), which are provided at the top of Table 5. The March 2018 results are shown on Figures 4A and 4B, and summarized in the sections that follow. Trends for select groundwater monitoring wells are shown in Appendix H. If the monitoring well is influenced by the sparging system, there will be a gray shaded area on the trend charts. Trends were not created for monitoring wells that were nondetect since sampling commenced.

4.5.1 Brown's Creek Protection Zone

Dissolved concentrations show an overall decreasing trend in the residuum aquifer of the BCPZ. For example, in monitoring wells MW-15, MW-25, MW-28, MW-39, MW-41, and MW-42, benzene concentrations have decreased by one to three orders of magnitude. Concentrations of BTEX constituents were decreasing in MW-12, but have stabilized since September 2017. Concentrations of BTEX constituents in MW-40 remain stable, with benzene detected in March 2018 at 8,450 µg/L. Benzene concentrations are also observed to be increasing at MW-34 (with a low of 147 µg/L in January 2018 to 696 µg/L in March 2018) and MW-38 (from nondetect in September 2017 to 364 µg/L in March 2018).

Benzene concentrations appear to be stable in bedrock wells (1,290 µg/L in MW-15B in March 2018, and at or near nondetect in all other bedrock monitoring wells). MW-12B is the only exception, showing a decreasing trend in benzene concentration (126 µg/L in September 2017 to 3.06 µg/L in March 2018).

4.5.2 Cupboard Creek Protection Zone

Dissolved concentrations in the CCPZ were increasing, but have stabilized since initiating air sparging. Benzene concentrations have decreased in MW-23 from a historical high of 1,110 µg/L in September 2017, to nondetect in March 2018. MW-19 and MW-20 have not been able to be sampled on a regular frequency because of insufficient water and the presence of free product, respectively. Since MW-46 was installed in September 2017, BTEX concentrations have been increasing and will continue to be evaluated.

No constituents were detected above screening levels in bedrock monitoring wells in the CCPZ.

4.5.3 Hayfield Zone

Dissolved concentrations are decreasing overall in the Hayfield Zone. For example, in MW-02, MW-03, MW-09, and MW-30, benzene concentrations have decreased by one to three orders of magnitude; constituents analyzed in MW-02 and MW-16 are on a downward trend; and constituents analyzed in monitoring wells MW-04, MW-05, MW-06, MW-08, MW-10, MW-14, MW-21, MW-31, MW-32, MW-33T, and MW-47 were nondetect. Five residuum monitoring wells in the Hayfield Zone (MW-07, MW-13, MW-17, MW-30, and MW-45) had insufficient water volume to sample due to severe drought conditions experienced in Anderson County in 2016 and 2017. By the last sampling event of the reporting period in March 2018, the water column had been restored and all but MW-17 were able to be sampled. Monitoring wells MW-16 and MW-18 were not sampled due to the presence of product.

Declining benzene trends at MW-09B and MW-14B were observed. Constituents in monitoring wells MW-02B, MW-06B, MW-36B, MW-45B, MW-48B, and MW-50B were below screening levels. All bedrock monitoring wells in the Hayfield Zone were sampled.

Concentrations at locations outside the influence of the sparging system remain stable, notably near residuum well MW-07 and bedrock wells MW-13B and MW-17B.

4.5.4 Shallow Bedrock Zone

In the residuum of the Shallow Bedrock Zone, one well contained product (MW-11) and one well was consistently dry (MW-22). Benzene was detected above its screening level in groundwater in MW-22 and MW-27 during this reporting period. BTEX constituents and MTBE were detected in MW-11 in June 2017, but no sample has been collected from MW-11 since then due to the presence of product.

No constituents were detected above screening levels in bedrock monitoring wells in the Shallow Bedrock Zone.

4.6 Sparging System Operating Efficiency and Performance Data

Between April 1, 2017, and March 31, 2018, the sparging system operated a total of approximately 8,271 hours, with an operating uptime of 95 percent. Since two compressors were operating during this timeframe, system maintenance activities could be conducted with minimal system downtime. During this reporting period, the only downtime was due to power grid fluctuations caused by local area storms, scheduled system maintenance, and a faulty valve (since repaired). The horizontal wells were briefly turned off between September 26, 2017, and October 9, 2017, to allow for well installation and repair activities in the Hayfield Zone. In March 2018, sparging flow rates in the stream aerators, horizontal wells, and vertical wells were at 100 percent, 93 percent, and 66 percent of design flow capacity, respectively.

SECTION 5

Conclusions

The following conclusions are based on the site work performed between April 1, 2017, and March 31, 2018:

- Since starting the site biosparging system, product thickness values have declined in both recovery and nonrecovery features across the site. The number of locations with product thicknesses greater than 0.5 foot has decreased from 21 locations in April 2017 to 7 locations in March 2018. The locations that have measurable product thickness are not near surface water bodies at the site.
- The volume of product recovered has decreased significantly compared to the prior year. Approximately, 9,800 gallons were recovered from April 2016 to March 2017, and 4,200 gallons were recovered from April 2017 to September 2017. Only 11.7 gallons were collected between October 2017 and March 2018.
- Ten surface water sampling events were performed during this reporting period. Periodic exceedances of the benzene surface water screening value were recorded at sampling points SW-02 and SW-12. The detection at SW-02 has a different chemical profile than SW-12 and cannot be attributed to the release at the site. Concentrations at SW-12, near a known seep, are on a decreasing trend.
- The average DO concentration in residuum and bedrock wells has increased for this reporting period. This shows the effectiveness of the system at introducing oxygen into the subsurface. Sparging will continue to be increased to design flow rates during the next quarter to meet the increasing biomass oxygen demand.
- Groundwater monitoring results for this reporting period indicate that due to operation of the biosparging system there are significant decreases in dissolved concentrations of hydrocarbons in the BCPZ, CCPZ, and Hayfield Zone, and stable trends in the Shallow Bedrock Zone, in bedrock wells, and in other locations outside the influence of the sparging system. Stable concentrations in MW-40 despite its proximity to the Brown's Creek sparging curtain may be the result of incomplete communication with the surrounding aquifer.
- During this reporting period, the sparging system had an operating uptime of 95 percent. Operating flows in the stream aerators, horizontal wells, and vertical wells were at 100 percent, 93 percent, and 66 percent of design flow capacity, respectively.

SECTION 6

Future Activities

This section describes future activities planned for the site.

6.1 Groundwater and Surface Water Monitoring

- Continue monthly gauging of monitoring wells and surface water sampling locations in accordance with the CAP Addendum, Revision 2 (CH2M, 2017u) submitted to SCDHEC on October 12, 2017.
- Reduce sampling of monitoring wells and surface water sampling locations from monthly to quarterly starting in July 2018 per Section 3 and Table 2 of the CAP Addendum, Revision 2 (CH2M, 2017u).
- Reduce frequency of DO concentration measurements from monthly to quarterly, starting in July 2018 per Section 3 and Table 2 of the CAP Addendum, Revision 2 (CH2M, 2017u).
- Reduce reporting frequency from monthly to quarterly starting in July 2018 per Section 3 and Table 2 of the CAP Addendum, Revision 2 (CH2M, 2017u).
- Continue routine visual inspection of Brown's Creek and Cupboard Creek as outlined in the CAP Addendum, Revision 2 (CH2M, 2017u).
- Install additional monitoring wells to expand the monitoring network north of MW-30, west of MW-30, and upgradient of MW-38 in accordance with the Request for Well Permit to Install Additional Monitoring Wells (CH2M, 2018k).
- Abandon 1-inch-diameter wells (piezometers) because their narrow diameter exaggerates product thickness measurements and because the existing 2-inch monitoring well network is now sufficient for groundwater elevation and product thickness measurements.
- Abandon monitoring wells MW-17 and MW-19 without replacement. These wells have consistently experienced insufficient water for sampling, and additional downgradient and cross-gradient wells have since been installed in their vicinity that have had sufficient water to sample.
- Analyze concentration trends in the monitoring well network to identify areas for additional remediation, if necessary, and to optimize the monitoring well network.

6.2 Product Recovery

Continue monthly product recovery efforts using skimmers and socks in accordance with the Product Recovery Skimmer Results report (CH2M, 2018i). This will allow more accurate tracking of free product recovered by wells.

6.3 System Operation and Maintenance

- Continue routine O&M activities for the sparging system as described in the CAP Addendum, Revision 2 (CH2M, 2017u).
- Continue sparging in the BCPZ and CCPZ. Stable concentrations in MW-40 and persistent free product in MW-20 will be addressed by maximizing air flow in the vertical sparging wells in the vicinity of these features up to the maximum design flow rate of 15 scfm per well.

- Continue sparging in the horizontal wells in the Hayfield Zone up to the maximum design flow rate of 0.75 scfm/ft.
- Continue operating the stream diffusion aerators at the design flow rate of 15 scfm in each, according to the Sparging Operating Limits letter (CH2M, 2017k).

6.4 Remediation System Expansion

In order to address persistent concentrations in the vicinity of MW-11 and MW-17, Plantation proposed expanding the existing sparging system in correspondence dated May 4, 2018 (CH2M, 2018m). The plan proposed installing 13 new vertical sparging wells to the top of bedrock. Five of these wells would be installed to extend the remedial zone of influence of the CCPZ sparging curtain to the northwest across Lewis Drive beyond monitoring well MW-17 (Figure 1). The remaining eight wells would be installed to extend the remedial zone of influence of the BCPZ sparging curtain southwest toward monitoring well MW-11 (Figure 1).

SECTION 7

References

CH2M HILL Engineers, Inc. (CH2M). 2016a. *Comprehensive Site Assessment Report, Lewis Drive Release Site, Belton, South Carolina. Site ID Number 18693 ("Kinder Morgan Belton Pipeline Release").* July.

CH2M HILL Engineers, Inc. (CH2M). 2016b. *Corrective Action Plan, Lewis Drive Release Site, Belton, South Carolina. Site ID Number 18693 ("Kinder Morgan Belton Pipeline Release").* September 1.

CH2M HILL Engineers, Inc. (CH2M). 2017a. *Request for Authorization to Initiate Remediation in the Hayfield Zone, Lewis Drive Remediation, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* April 11.

CH2M HILL Engineers, Inc. (CH2M). 2017b. *Response to Comments in SCDHEC Letter titled "Weekly Report Reviews" dated March 31, 2017, Plantation Pipe Line Company, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* April 11.

CH2M HILL Engineers, Inc. (CH2M). 2017c. *Lewis Drive – Weekly Startup Data Transmittal for Week 4, March 28 to April 3, 2017, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* April 13.

CH2M HILL Engineers, Inc. (CH2M). 2017d. *Shallow Bedrock Zone – Biosparging Pilot Study Plan, Lewis Drive Remediation, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* May 8.

CH2M HILL Engineers, Inc. (CH2M). 2017e. *Request for Well Permit to Install Additional Monitoring Wells, Lewis Drive Release, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* May 8.

CH2M HILL Engineers, Inc. (CH2M). 2017f. *Response to Comments on SCDHEC Letter titled "Quality Assurance Project Plan Revision Request," dated April 26, 2017, Plantation Pipe Line Company, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* May 24.

CH2M HILL Engineers, Inc. (CH2M). 2017g. *Quality Assurance Project Plan, Revision 3.* Addendum to the SCDHEC UST Programmatic Quality Assurance Program Plan for Plantation Pipe Line Company/Site ID No. 18693. May 24.

CH2M HILL Engineers, Inc. (CH2M). 2017h. *Response to SCDHEC Letter titled "Corrective Action Plan, Response to Comments, and Monthly Report Review & Request for a Revised Correction Action Plan Addendum," dated April 26, 2017. Plantation Pipe Line Company, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* May 25.

CH2M HILL Engineers, Inc. (CH2M). 2017i. *Technical Memorandum: Light Non-Aqueous Phase Liquid Mobility Testing, Lewis Drive Site, Belton, South Carolina.* May 25.

CH2M HILL Engineers, Inc. (CH2M). 2017j. *Corrective Action Plan Addendum, Revision 1, Plantation Pipe Line, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* May 25.

CH2M HILL Engineers, Inc. (CH2M). 2017k. *Sparging Operating Limits, Plantation Pipe Line Company, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* July 26.

CH2M HILL Engineers, Inc. (CH2M). 2017l. *Lewis Drive – April 2017 Monthly Status Update, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* August 4.

CH2M HILL Engineers, Inc. (CH2M). 2017m. *Lewis Drive – May 2017 Monthly Status Update, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* August 4.

CH2M HILL Engineers, Inc. (CH2M). 2017n. *Interim Free Product Recovery Plan – Revision 3, Plantation Pipe Line Company, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* August 4.

CH2M HILL Engineers, Inc. (CH2M). 2017o. *Response to Comments in SCDHEC Letter titled "Weekly and Monthly Report Reviews, Monitoring Well Installation Approval, and Pilot Study Plan Review, Weekly Startup Status Update for Week 3, March 21-27, 2017, e-mailed March 31, 2017, Weekly Startup Status Update for Week 4, March 28, 2017- April 4, 2017, received April 13, 2017, Weekly Startup Supplemental Data Transmittal for Week 4, April 4-6, 2017, received April 21, 2017, Response to Comments received April 12, 2017, March 2017 Final Monthly Status Update, received May 3, 2017, Request for Well Permit to Install Additional Monitoring Wells, received May 9, 2017, Shallow Bedrock Zone-Biosparging Pilot Study Plan, received May 9, 2017" dated June 16, 2017, Plantation Pipe Line Company, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* August 11.

CH2M HILL Engineers, Inc. (CH2M). 2017p. *Lewis Drive – June 2017 Monthly Status Update, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* August 18.

CH2M HILL Engineers, Inc. (CH2M). 2017q. *Lewis Drive – July 2017 Monthly Status Update, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* September 5.

CH2M HILL Engineers, Inc. (CH2M). 2017r. *Second Quarter 2017 Monitoring Report, Plantation Pipe Line Company, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* October 6.

CH2M HILL Engineers, Inc. (CH2M). 2017s. *Lewis Drive – August 2017 Monthly Status Update, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* October 7.

CH2M HILL Engineers, Inc. (CH2M). 2017t. *Response to Comments in SCDHEC Letter titled "Final Revisions to Corrective Action Plan Addendum Request" dated September 12, 2017, Plantation Pipe Line Company, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* October 12.

CH2M HILL Engineers, Inc. (CH2M). 2017u. *Corrective Action Plan Addendum, Revision 2, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693 ("Kinder Morgan Belton Pipeline Release").* October 12.

CH2M HILL Engineers, Inc. (CH2M). 2017v. *Lewis Drive – September 2017 Monthly Status Update, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* October 16.

CH2M HILL Engineers, Inc. (CH2M). 2017w. *Lewis Drive – October 2017 Monthly Status Update, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* November 28.

CH2M HILL Engineers, Inc. (CH2M). 2017x. *Third Quarter 2017 Monitoring Report, Plantation Pipe Line Company, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* December 6.

CH2M HILL Engineers, Inc. (CH2M). 2017y. *Lewis Drive – November 2017 Monthly Status Update, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* December 21.

CH2M HILL Engineers, Inc. (CH2M). 2018a. *Lewis Drive – December 2017 Monthly Status Update, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* January 18.

CH2M HILL Engineers, Inc. (CH2M). 2018b. *Free-Product Recovery Plan – Revision 4, Lewis Drive Remediation, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* February 6.

CH2M HILL Engineers, Inc. (CH2M). 2018c. *Response to Comments in SCDHEC Letter titled "QAPP Revision, Monitoring Well Installation and Well Log Information, Receptor Survey, Plume Definition Plan, and Bedrock Plan Request" dated December 14, 2017, Plantation Pipe Line Company, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* February 9.

CH2M HILL Engineers, Inc. (CH2M). 2018d. *Quality Assurance Project Plan, Revision 4.* Addendum to the SCDHEC UST Programmatic Quality Assurance Program Plan for Plantation Pipe Line Company/Site ID No. 18693. February 9.

CH2M HILL Engineers, Inc. (CH2M). 2018e. *Well Abandonment and Well Completion Summary, Lewis Drive Release, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* February 23.

CH2M HILL Engineers, Inc. (CH2M). 2018f. *Fourth Quarter 2017 Monitoring Report, Plantation Pipe Line Company, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* February 26.

CH2M HILL Engineers, Inc. (CH2M). 2018g. *Lewis Drive – January 2018 Monthly Status Update, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* February 27.

CH2M HILL Engineers, Inc. (CH2M). 2018h. *Lewis Drive – Memorandums from Environmental Standards, Inc. Certified on January 26, 2018 and March 12, 2018, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* March 13.

CH2M HILL Engineers, Inc. (CH2M). 2018i. *Product Recovery Skimmer Results, Lewis Drive Remediation Site, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* March 22.

CH2M HILL Engineers, Inc. (CH2M). 2018j. *Lewis Drive – February 2018 Monthly Status Update, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* March 23.

CH2M HILL Engineers, Inc. (CH2M). 2018k. *Request for Well Permit to Install Additional Monitoring Wells, Lewis Drive Release, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* March 26.

CH2M HILL Engineers, Inc. (CH2M). 2018l. *Lewis Drive – March 2018 Monthly Status Update, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* April 17.

CH2M HILL Engineers, Inc. (CH2M). 2018m. *Request for Well Permit to Install Additional Vertical Sparging Wells for Biosparging System Expansion, Lewis Drive Release, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* May 4.

Environmental Standards, Inc. 2017. *Technical Memorandum – Review of Chandler AG Well Data*. December 26.

Environmental Standards, Inc. 2018. *Technical Memorandum – Review of Surface Water Data*. January 17.

Plantation Pipe Line Company. 2015. Department of Transportation (DOT) Form 7000.1 Accident Report - Hazardous Liquid Pipeline Systems. Submitted to the DOT Pipeline and Hazardous Materials Safety Administration (PHMSA). January 7.

South Carolina Underground Storage Tank Management Division. 2016. *Programmatic Quality Assurance Program Plan, Revision 3.1.* February.

South Carolina Department of Health and Environmental Control (SCDHEC). 2014. *R. 61-68, Water Classifications & Standards*. June 27.

South Carolina Department of Health and Environmental Control (SCDHEC). 2017. *QAPP Revision, Monitoring Well Installation and Well Log Information, Receptor Survey, Plume Definition Plan, and Bedrock Plan Request*. December 14.

Tables

Table 1. Field Observation Log

Plantation Pipe Line Company
Lewis Drive Remediation Site, Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Date	**Inspect Wetlands South of Calhoun Road** (Any odor, sheen, or distressed vegetation? Describe.)	**Inspect Brown's Creek Upstream and Downstream of the Culvert Under Lewis Drive** (Any odor, sheen, or distressed vegetation? Describe.)
4/3/2017	No odors, sheen, or distressed vegetation observed in wetlands South of Calhoun Road.	Micro bio sheen coming from RT-2 at Brown's Creek. No other sheens, odors, or distressed vegetation observed.
4/6/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	Micro bio sheen near RT-2K and petroleum sheen around RT-2A at Brown's Creek. No other sheens, odors, or distressed vegetation observed.
4/10/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	Micro bio sheen near RT-2K at Brown's Creek. No other sheens, odors, or distressed vegetation observed.
4/13/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	Micro bio sheen from area of RT-2K at Brown's Creek. No other sheens, odors, or distressed vegetation observed.
4/16/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	Micro bio sheen coming from RT-2K at Brown's Creek. No other sheens, odors, or distressed vegetation observed.
4/20/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	Micro bio sheen coming from RT-2K at Brown's Creek. No other sheens, odors, or distressed vegetation observed in wetlands upstream and downstream of culvert under Lewis Drive
4/25/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	Micro bio sheen coming from RT-2K at Brown's Creek. No other sheens, odors, or distressed vegetation observed in wetlands upstream and downstream of culvert under Lewis Drive.
4/27/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	Micro bio sheen coming from RT-2K at Brown's Creek. No other sheens, odors, or distressed vegetation observed in wetlands upstream and downstream of culvert under Lewis Drive.
5/4/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	Micro bio sheen coming from RT-2K at Brown's Creek. No other sheens, odors, or distressed vegetation observed in wetlands upstream and downstream of culvert under Lewis Drive.
5/6/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	Micro bio sheen coming from RT-2K at Brown's Creek. No other sheens, odors, or distressed vegetation observed in wetlands upstream and downstream of culvert under Lewis Drive.
5/7/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	Micro bio sheen coming from RT-2K at Brown's Creek. No other sheens, odors, or distressed vegetation observed in wetlands upstream and downstream of culvert under Lewis Drive.
5/15/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	Micro bio sheen coming from RT-2K at Brown's Creek. No other sheens, odors, or distressed vegetation observed.
5/18/2017	No odors, hydrocarbon sheens, or distressed vegetation observed.	Micro bio sheen from area of RT-2K at Brown's Creek. No other sheens, odors, or distressed vegetation observed.
5/22/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	Micro bio sheen coming from RT-2K at Brown's Creek. No other sheens, odors, or distressed vegetation observed in wetlands upstream and downstream of culvert under Lewis Drive.

Table 1. Field Observation Log

Plantation Pipe Line Company
Lewis Drive Remediation Site, Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Date	**Inspect Wetlands South of Calhoun Road** (Any odor, sheen, or distressed vegetation? Describe.)	**Inspect Brown's Creek Upstream and Downstream of the Culvert Under Lewis Drive** (Any odor, sheen, or distressed vegetation? Describe.)
5/24/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	Hydrocarbon sheen in the trench coming from bank near Brown's Creek around RT-2C. No other sheens, odors, or distressed vegetation observed. Hydrocarbon sheen not noted in Brown's Creek.
5/31/2017	No odors, hydrocarbon sheens, or distressed vegetation observed.	Hydrocarbon sheen in the trench coming from bank near Brown's Creek around RT-2C. No other sheens, odors, or distressed vegetation observed. Hydrocarbon sheen not noted in Brown's Creek.
6/2/2017	No odors, hydrocarbon sheens, or distressed vegetation observed.	No sheens, odors, or distressed vegetation observed in wetlands upstream and downstream of culvert under Lewis Drive. Hydrocarbon sheen in the trench coming from bank near Brown's Creek around RT-2B and RT-2C were observed. Hydrocarbon sheen not noted in Brown's Creek.
6/4&5/2017	No odors, hydrocarbon sheens, or distressed vegetation observed.	No sheens, odors, or distressed vegetation observed in wetlands upstream and downstream of culvert under Lewis Drive. Hydrocarbon sheen in the trench coming from bank near Brown's Creek around RT-2B and RT-2C were observed. Hydrocarbon sheen not noted in Brown's Creek.
6/9/2017	No odors, hydrocarbon sheens, or distressed vegetation observed.	No sheens, odors, or distressed vegetation observed in wetlands upstream and downstream of culvert under Lewis Drive. Hydrocarbon sheen coming from side slope near Brown's Creek around RT-2C (~30 feet in length) and micro bio sheen coming from RT-2K were observed. Hydrocarbon sheen not noted in Brown's Creek.
6/12/2017	No odors, hydrocarbon sheens, or distressed vegetation observed.	No sheens, odors, or distressed vegetation observed in wetlands upstream and downstream of culvert under Lewis Drive. Hydrocarbon sheen coming from side slope near Brown's Creek around RT-2C and micro bio sheen coming from RT-2K were observed. Hydrocarbon sheen not noted in Brown's Creek.
6/15/2017	No odors, hydrocarbon sheens, or distressed vegetation observed.	No odors, hydrocarbon sheens, or distressed vegetation observed.
6/19/2017	No odors, hydrocarbon sheens, or distressed vegetation observed.	No odors, hydrocarbon sheens, or distressed vegetation observed.
6/22/2017	No odors, hydrocarbon sheens, or distressed vegetation observed.	No odors, hydrocarbon sheens, or distressed vegetation observed.
6/29/2017	No odors, hydrocarbon sheens, or distressed vegetation observed.	No odors, hydrocarbon sheens, or distressed vegetation observed.
7/2&3/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
7/6/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.

Table 1. Field Observation Log

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Date	**Inspect Wetlands South of Calhoun Road** (Any odor, sheen, or distressed vegetation? Describe.)	**Inspect Brown's Creek Upstream and Downstream of the Culvert Under Lewis Drive** (Any odor, sheen, or distressed vegetation? Describe.)
7/10/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
7/13/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
7/17/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
7/20/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
7/24/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
7/27/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
7/31/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
8/2/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
8/9/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
8/12/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
8/14/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
8/17/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
8/21/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
8/24/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
8/31/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
9/5/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
9/10/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
9/15/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.

Table 1. Field Observation Log

Plantation Pipe Line Company
Lewis Drive Remediation Site, Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Date	**Inspect Wetlands South of Calhoun Road** (Any odor, sheen, or distressed vegetation? Describe.)	**Inspect Brown's Creek Upstream and Downstream of the Culvert Under Lewis Drive** (Any odor, sheen, or distressed vegetation? Describe.)
9/21/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
9/28/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
10/6/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
10/12/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
10/20-21/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
10/26/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
11/3/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
11/10/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
11/12&17/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
11/22/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
12/1/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
12/7/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
12/21/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
12/27/2017	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, hydrocarbon sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
1/5/2018	No odors, sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
1/10/2018	No odors, sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
1/20/2018	No odors, sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
1/26/2018	No odors, sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.

Table 1. Field Observation Log

Plantation Pipe Line Company
Lewis Drive Remediation Site, Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Date	**Inspect Wetlands South of Calhoun Road** (Any odor, sheen, or distressed vegetation? Describe.)	**Inspect Brown's Creek Upstream and Downstream of the Culvert Under Lewis Drive** (Any odor, sheen, or distressed vegetation? Describe.)
2/3/2018	No odors, sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive.
2/26/2018	No odors, sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive. Culvert replacement is causing increased turbidity downstream of the intersection of Lewis Drive and Brown's Creek.
3/9/2018	No odors, sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive. Culvert replacement is causing increased turbidity downstream of the intersection of Lewis Drive and Brown's Creek.
3/15/2018	No odors, sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, sheens, or distressed vegetation observed in wetlands either upstream or downstream of culvert under Lewis Drive. Culvert replacement is causing increased turbidity downstream of the intersection of Lewis Drive and Brown's Creek.

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

				Analyte						
Location	**Sample ID**	**Date Collected**	**Units**	**Benzene**	**Ethylbenzene**	**Toluene**	**m&p-Xylene**	**o-Xylene**	**Naphthalene**	**MTBE**
		Screening Value (µg/L):		**2.2** [a]	**530** [a]	**1,000** [a]	**NA** [b]	**NA** [b]	**NA** [b]	**NA** [b]
SW-RELEASE	SW-RELEASE	1/20/2015	µg/L	**330**	**490**	**2,400**	**2,100**	**940**	**140**	**5.7 J**
	SW01-121114	12/11/2014	µg/L	0.5 U	1 U	1 U	2 U	1 U	1 U	1 U
	SW01-022515	2/25/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW01-030215	3/2/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW01-031115	3/11/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW01-031815	3/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW01-033115	3/31/2015	µg/L	5 U[c]	5 U	**17.6**	10 U	5 U	5 U	NA
	SW01-042215	4/22/2015	µg/L	5 U[c]	5 U	**14.9**	10 U	5 U	5 U	NA
	SW01-050715	5/7/2015	µg/L	5 U[c]	5 U	**7.0**	10 U	5 U	5 U	NA
	SW01-051915	5/19/2015	µg/L	5 U[c]	5 U	**8.8**	**10.6**	**6.4**	5 U	NA
	SW01-060315	6/3/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW01-061815	6/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW01-071515	7/15/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW01-081315	8/13/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW01-092415	9/24/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW01-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
SW-01	SW01-112415	11/24/2015	µg/L	**7.8**	**1.5**	**13.0**	**9.3**	**4.6**	1 U	NA
	SW01-122215	12/22/2015	µg/L	**4.6**	1 U	**8.8**	**5.5**	**3.1**	1 U	NA
	SW01-012516	1/25/2016	µg/L	**17.6**	**2.3**	**36.0**	**11.3**	**6.3**	1 U	NA
	SW01-021816	2/18/2016	µg/L	**23.4**	**3.0**	**55.6**	**15.0**	**9.1**	1 U	NA
	SW01-031616	3/16/2016	µg/L	**20.1**	**2.4**	**42.3**	**13.3**	**7.6**	1 U	NA
	SW01-042716	4/27/2016	µg/L	**20.8**	1 U	**30.6**	**2.9**	**2.0**	1 U	NA
	SW01-050916	5/9/2016	µg/L	**16.5**	**1.4**	**16.3**	**7.0**	**4.8**	1 U	NA
	SW01-062716	6/27/2016	µg/L	**9**	1 U	**3.3**	2 U	1 U	1 U	NA
	SW01-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW01-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW01-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW01-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW01-112816	11/28/2016	µg/L	**5.0**	1 U	**10.4**	**4.9**	**8.3**	1 U	NA
	SW01-122916	12/29/2016	µg/L	**12.6**	1 U	**22.1**	**11.2**	**13.5**	1 U	NA
	SW01-012017	1/20/2017	µg/L	**1.0**	1 U	**2.3**	2 U	**3.5**	1 U	NA
	SW01-022817	2/28/2017	µg/L	**18.5**	**1.93**	**37.0**	**13.8**	**10.2**	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
		Screening Value (µg/L):		2.2 [a]	530 [a]	1,000 [a]	NA [b]	NA [b]	NA [b]	NA [b]
SW-01	SW01-031517	3/15/2017	µg/L	**3.02**	1 U	**5.13**	**2.16**	**1.74**	5 U	NA
	SW01-032117	3/21/2017	µg/L	1 U	1 U	**1.57**	2 U	1 U	5 U	NA
	SW01-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW01-040517	4/5/2017	µg/L	1 U	1 U	**2.25**	2 U	1 U	5 U	NA
	SW01-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW01-061317	6/13/2017	µg/L	1 U	1 U	**1.90**	2 U	1 U	5 U	NA
	SW01-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW01-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW01-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW01-120517	12/5/2017	µg/L	**1.5**	1 U	**1.15**	2 U	**2.14**	5 U	NA
	SW01-121417	12/14/2017	µg/L	**4.52**	1 U	**4.52**	**3.48**	**3.2**	5 U	NA
	SW01-010918	1/9/2018	µg/L	1 U	1 U	1 U	2 U	**1.15**	5 U	NA
	SW01-020618	2/6/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
	SW01-030918	3/9/2018	µg/L	**1.15**	1 U	1 U	2 U	1 U	5 U	1 U
SW-02	SW02-121114	12/11/2014	µg/L	0.5 U	1 U	1 U	2 U	1 U	1 U	1 U
	SW02-022515	2/25/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW02-030215	3/2/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW02-031115	3/11/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW02-031815	3/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW02-033115	3/31/2015	µg/L	5 U[c]	5 U	**6.0**	10 U	5 U	5 U	NA
	SW02-042215	4/22/2015	µg/L	5 U[c]	5 U	**13.0**	10 U	5 U	5 U	NA
	SW02-050715	5/7/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW02-051915	5/19/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW02-060315	6/3/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW02-061815	6/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW02-071515	7/15/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW02-081315	8/13/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW02-092415	9/24/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW02-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW02-112415	11/24/2015	µg/L	**6**	**1.3**	**10.0**	**7.8**	**4.0**	1 U	NA
	SW02-122215	12/22/2015	µg/L	**4.1**	1 U	**7.6**	**5.1**	**3.1**	1 U	NA
	SW02-012516	1/25/2016	µg/L	**12**	**1.5**	**25.0**	**8.4**	**4.6**	1 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
		Screening Value (µg/L):		2.2 [a]	530 [a]	1,000 [a]	NA [b]	NA [b]	NA [b]	NA [b]
SW-02	SW02-021816	2/18/2016	µg/L	**15.5**	**1.8**	**35.3**	**10.1**	**5.9**	1 U	NA
	SW02-031616	3/16/2016	µg/L	**8**	**1.0**	**17.5**	**5.8**	**3.9**	1 U	NA
	SW02-042716	4/27/2016	µg/L	**5.6**	1 U	**7.1**	2 U	1 U	1 U	NA
	SW02-050916	5/9/2016	µg/L	**7.1**	1 U	**4.5**	**2.2**	**1.6**	1 U	NA
	SW02-062716	6/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW02-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW02-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW02-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW02-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW02-112816	11/28/2016	µg/L	**5.4**	1 U	**1.6**	**2.6**	**4.8**	1 U	NA
	SW02-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	**1.4**	1 U	NA
	SW02-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW02-022817	2/28/2017	µg/L	**10.7**	1 U	**11.0**	**4.14**	**4.23**	5 U	NA
	SW02-031517	3/15/2017	µg/L	**11.4**	1 U	**8.6**	**4.45**	**3.6**	5 U	NA
	SW02-032117	3/21/2017	µg/L	**8.42**	1 U	**2.45**	**2.48**	**2.68**	5 U	NA
	SW02-033017	3/30/2017	µg/L	**2.18**	1 U	1 U	2 U	1 U	5 U	NA
	SW02-040517	4/5/2017	µg/L	**2.87**	1 U	**1.12**	2 U	**1.14**	5 U	NA
	SW02-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW02-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW02-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW02-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW02-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW02-120517	12/5/2017	µg/L	**26.6**	**1.8**	**8.39**	**10.2**	**7.17**	5 U	NA
	SW02-121417	12/14/2017	µg/L	**21.1**	**1.53**	**9.40**	**9.74**	**7.32**	5 U	NA
	SW02-010918	1/9/2018	µg/L	**25.0**	**1.56**	**12.4**	**11**	**8.24**	5 U	NA
	SW02-020618	2/6/2018	µg/L	**6.69**	**1** U	**2.65**	**2.75**	**1.87**	5 U	1 U
	SW02-030918	3/9/2018	µg/L	**3.19**	1 U	**1.39**	2 U	**1.11**	5 U	1 U
SW-03	SW-UPGRADIENT	1/20/2015	µg/L	0.5 U	1 U	**0.23 J**	2 U	1 U	1 U	1 U
	SW03-022515	2/25/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW03-030215	3/2/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW03-031115	3/11/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW03-031815	3/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

				Analyte						
Location	**Sample ID**	**Date Collected**	**Units**	**Benzene**	**Ethylbenzene**	**Toluene**	**m&p-Xylene**	**o-Xylene**	**Naphthalene**	**MTBE**
		Screening Value (µg/L):		**2.2** [a]	**530** [a]	**1,000** [a]	**NA** [b]	**NA** [b]	**NA** [b]	**NA** [b]
SW-03	SW03-033115	3/31/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW03-042215	4/22/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW03-050715	5/7/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW03-051915	5/19/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW03-060315	6/3/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW03-061815	6/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW03-071515	7/15/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW03-081315	8/13/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5	NA
	--	9/24/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW03-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-112415	11/24/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-122215	12/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-012516	1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-021816	2/18/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-062716	6/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	--	8/19/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW03-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-040517	4/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

				Analyte						
Location	**Sample ID**	**Date Collected**	**Units**	**Benzene**	**Ethylbenzene**	**Toluene**	**m&p-Xylene**	**o-Xylene**	**Naphthalene**	**MTBE**
		Screening Value (µg/L):		**2.2** [a]	**530** [a]	**1,000** [a]	**NA** [b]	**NA** [b]	**NA** [b]	**NA** [b]
SW-03	SW03-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	--	1/9/2018	--	NS-HS	NS-HS	NS-HS	NS-HS	NS-HS	NS-HS	NS-HS
	SW03-020618	2/6/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
	SW03-030918	3/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
SW-04	SW-DOWNGRADIENT	1/20/2015	µg/L	**95**	**27**	**310**	**110**	**63**	**94**	**2.7**
	SW04-022515	2/25/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW04-030215	3/2/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW04-031115	3/11/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW04-031815	3/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW04-033115	3/31/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW04-042215	4/22/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW04-050715	5/7/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW04-051915	5/19/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW04-060315	6/3/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW04-061815	6/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW04-071515	7/15/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW04-081315	8/13/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW04-092415	9/24/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW04-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-112415	11/24/2015	µg/L	**1.7**	1 U	**2.7**	**2.9**	**1.6**	1 U	NA
	SW04-122215	12/22/2015	µg/L	**3.3**	1 U	**7.3**	**5.2**	**2.7**	1 U	NA
	SW04-012516	1/25/2016	µg/L	**6.9**	1 U	**14.0**	**4.9**	**2.8**	1 U	NA
	SW04-021816	2/18/2016	µg/L	**10.9**	**1.1**	**25.4**	**7.0**	**4.3**	1 U	NA
	SW04-031616	3/16/2016	µg/L	1 U	1 U	**2.0**	2 U	**1.8**	1 U	NA
	SW04-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-062716	6/27/2016	µg/L	1 U	1 U	**1.1**	2 U	1 U	1 U	NA
	SW04-072816	7/28/2016	µg/L	1 U	1 U	**23.5**	2 U	1 U	1 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

				Analyte						
Location	**Sample ID**	**Date Collected**	**Units**	**Benzene**	**Ethylbenzene**	**Toluene**	**m&p-Xylene**	**o-Xylene**	**Naphthalene**	**MTBE**
		Screening Value (µg/L):		**2.2** [a]	**530** [a]	**1,000** [a]	**NA** [b]	**NA** [b]	**NA** [b]	**NA** [b]
SW-04	SW04-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-022817	2/28/2017	µg/L	1 U	1 U	**1.13**	2 U	1 U	5 U	NA
	SW04-031517	3/15/2017	µg/L	1 U	1 U	**2.90**	2 U	1 U	5 U	NA
	SW04-032117	3/21/2017	µg/L	1 U	1 U	**3.28**	2 U	1 U	5 U	NA
	SW04-033017	3/30/2017	µg/L	1 U	1 U	**6.15**	2 U	1 U	5 U	NA
	SW04-040517	4/5/2017	µg/L	1 U	1 U	**9.47**	2 U	1 U	5 U	NA
	SW04-050417	5/4/2017	µg/L	1 U	1 U	**13.8**	2 U	1 U	5 U	NA
	SW04-061317	6/13/2017	µg/L	1 U	1 U	**1.37**	2 U	1 U	5 U	NA
	SW04-071817	7/18/2017	µg/L	1 U	1 U	**1.92**	2 U	1 U	5 U	NA
	SW04-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW04-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW04-120517	12/5/2017	µg/L	1 U	1 U	**5.53**	2 U	1 U	5 U	NA
	SW04-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW04-010918	1/9/2018	µg/L	1 U	1 U	**4.09**	2 U	1 U	5 U	NA
	SW04-020618	2/6/2018	µg/L	**3.04**	1 U	**1.73**	2 U	**1.12**	5 U	1 U
	SW04-030918	3/9/2018	µg/L	1 U	1 U	**1.37**	2 U	1 U	5 U	1 U
SW-05	SW05-022515	2/25/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW05-030215	3/2/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW05-031115	3/11/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW05-031815	3/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW05-033115	3/31/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW05-042215	4/22/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW05-050715	5/7/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	--	5/19/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/3/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/18/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	7/15/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
		Screening Value (µg/L):		2.2 [a]	530 [a]	1,000 [a]	NA [b]	NA [b]	NA [b]	NA [b]
	--	8/13/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/24/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	10/22/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW05-112415	11/24/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW05-122215	12/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW05-012516	1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW05-021816	2/18/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW05-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	--	4/27/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	5/9/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/27/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	7/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	8/19/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/29/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	10/31/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
SW-05	--	12/29/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	1/20/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	2/28/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/15/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/21/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/30/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	4/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	5/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/13/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	7/18/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	8/2/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/14/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	1/9/2018	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW05-020618	2/6/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

				Analyte						
Location	**Sample ID**	**Date Collected**	**Units**	**Benzene**	**Ethylbenzene**	**Toluene**	**m&p-Xylene**	**o-Xylene**	**Naphthalene**	**MTBE**
		Screening Value (µg/L):		**2.2** [a]	**530** [a]	**1,000** [a]	**NA** [b]	**NA** [b]	**NA** [b]	**NA** [b]
SW-05	SW05-030918	3/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
	SW06-022515	2/25/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW06-030215	3/2/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW06-031115	3/11/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW06-031815	3/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	--	3/31/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW06-042215	4/22/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	--	5/7/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	5/19/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/3/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/18/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	7/15/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	8/13/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/24/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	10/22/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	11/24/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
SW-06	SW06-122215	12/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW06-012516	1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW06-021816	2/18/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	--	3/16/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	4/27/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	5/9/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/27/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	7/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	8/19/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/29/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	10/31/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/29/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	1/20/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	2/28/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/15/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
		Screening Value (µg/L):		2.2 [a]	530 [a]	1,000 [a]	NA [b]	NA [b]	NA [b]	NA [b]
SW-06	--	3/21/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/30/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	4/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	5/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/13/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	7/18/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	8/2/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/14/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	1/9/2018	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	2/6/2018	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/9/2018	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
SW-07	SW07-022515	2/25/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW07-030215	3/2/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW07-031115	3/11/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW07-031815	3/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW07-033115	3/31/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW07-042215	4/22/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW07-050715	5/7/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW07-051915	5/19/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW07-060315	6/3/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW07-061815	6/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW07-071515	7/15/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	--	8/13/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/24/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW07-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW07-112415	11/24/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW07-122215	12/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW07-012516	1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW07-021816	2/18/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW07-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
		Screening Value (µg/L):		2.2 [a]	530 [a]	1,000 [a]	NA [b]	NA [b]	NA [b]	NA [b]
	SW07-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW07-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	--	6/27/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	7/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	8/19/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/29/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	10/31/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/29/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	1/20/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	2/28/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW07-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
SW-07	SW07-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW07-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW07-040517	4/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW07-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW07-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW07-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	--	8/2/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW07-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW07-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW07-010918	1/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW07-020618	2/6/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
	SW07-030918	3/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
	SW08-022515	2/25/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW08-030215	3/2/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW08-031115	3/11/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
SW-08	SW08-031815	3/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW08-033115	3/31/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW08-042215	4/22/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW08-050715	5/7/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

				Analyte						
Location	**Sample ID**	**Date Collected**	**Units**	**Benzene**	**Ethylbenzene**	**Toluene**	**m&p-Xylene**	**o-Xylene**	**Naphthalene**	**MTBE**
		Screening Value (µg/L):		**2.2** [a]	**530** [a]	**1,000** [a]	**NA** [b]	**NA** [b]	**NA** [b]	**NA** [b]
SW-08	SW08-051915	5/19/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW08-060315	6/3/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW08-061815	6/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW08-071515	7/15/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW08-081315	8/13/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW08-092415	9/24/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW08-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW08-112415	11/24/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW08-122215	12/22/2015	µg/L	**1.6**	1 U	**3.8**	**2.5**	**1.6**	1 U	NA
	SW08-012516	1/25/2016	µg/L	**2.4**	1 U	**5.6**	**2**	**1.3**	1 U	NA
	SW08-021816	2/18/2016	µg/L	**2.9**	1 U	**7.6**	**2.3**	**1.5**	1 U	NA
	SW08-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW08-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW08-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW08-062716	6/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW08-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW08-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW08-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW08-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW08-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW08-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW08-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW08-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW08-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW08-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW08-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW08-040517	4/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW08-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW08-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW08-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW08-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW08-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

				Analyte						
Location	**Sample ID**	**Date Collected**	**Units**	**Benzene**	**Ethylbenzene**	**Toluene**	**m&p-Xylene**	**o-Xylene**	**Naphthalene**	**MTBE**
		Screening Value (µg/L):		**2.2** [a]	**530** [a]	**1,000** [a]	**NA** [b]	**NA** [b]	**NA** [b]	**NA** [b]
SW-08	SW08-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW08-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW08-010918	1/9/2018	µg/L	**1.16**	1 U	1 U	2 U	**1.87**	5 U	NA
	SW08-020618	2/6/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
	SW08-030918	3/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
SW-09	SW09-022515	2/25/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW09-030215	3/2/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW09-031115	3/11/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW09-031815	3/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW09-033115	3/31/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW09-042215	4/22/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW09-050715	5/7/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW09-051915	5/19/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW09-060315	6/3/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW09-061815	6/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW09-071515	7/15/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW09-081315	8/13/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW09-092415	9/24/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW09-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW09-112415	11/24/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW09-122215	12/22/2015	µg/L	**2.1**	1 U	**4.8**	**3.3**	**2.1**	1 U	NA
	SW09-012516	1/25/2016	µg/L	**3.3**	1 U	**7.1**	**2.4**	**1.5**	1 U	NA
	SW09-021816	2/18/2016	µg/L	**2.2**	1 U	**5.9**	2 U	**1.2**	1 U	NA
	SW09-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW09-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW09-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW09-062716	6/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW09-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW09-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW09-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW09-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW09-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

				Analyte						
Location	**Sample ID**	**Date Collected**	**Units**	**Benzene**	**Ethylbenzene**	**Toluene**	**m&p-Xylene**	**o-Xylene**	**Naphthalene**	**MTBE**
		Screening Value (µg/L):		**2.2** [a]	**530** [a]	**1,000** [a]	**NA** [b]	**NA** [b]	**NA** [b]	**NA** [b]
SW-09	SW09-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW09-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW09-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW09-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW09-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW09-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW09-040517	4/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW09-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW09-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW09-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW09-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW09-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW09-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW09-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW09-010918	1/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW09-020618	2/6/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
	SW09-030918	3/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
SW-10	SW10-022515	2/25/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW10-030215	3/2/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW10-031115	3/11/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW10-031815	3/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW10-033115	3/31/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW10-042215	4/22/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW10-050715	5/7/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW10-051915	5/19/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW10-060315	6/3/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW10-061815	6/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW10-071515	7/15/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW10-081315	8/13/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW10-092415	9/24/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW10-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-112415	11/24/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

				Analyte						
Location	**Sample ID**	**Date Collected**	**Units**	**Benzene**	**Ethylbenzene**	**Toluene**	**m&p-Xylene**	**o-Xylene**	**Naphthalene**	**MTBE**
		Screening Value (µg/L):		**2.2** [a]	**530** [a]	**1,000** [a]	**NA** [b]	**NA** [b]	**NA** [b]	**NA** [b]
SW-10	SW10-122215	12/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-012516	1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-021816	2/18/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-062716	6/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW-10-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW-10-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW-10-040517	4/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-010918	1/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-020618	2/6/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
	SW10-030918	3/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
SW-11	SW11-022515	2/25/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW11-030215	3/2/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW11-031115	3/11/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

				Analyte						
Location	**Sample ID**	**Date Collected**	**Units**	**Benzene**	**Ethylbenzene**	**Toluene**	**m&p-Xylene**	**o-Xylene**	**Naphthalene**	**MTBE**
		Screening Value (µg/L):		**2.2** [a]	**530** [a]	**1,000** [a]	**NA** [b]	**NA** [b]	**NA** [b]	**NA** [b]
SW-11	SW11-031815	3/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW11-033115	3/31/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW11-042215	4/22/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW11-050715	5/7/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW11-051915	5/19/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW11-060315	6/3/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW11-061815	6/18/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW11-071515	7/15/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW11-081315	8/13/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW11-092415	9/24/2015	µg/L	5 U[c]	5 U	5 U	10 U	5 U	5 U	NA
	SW11-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-112415	11/24/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-122215	12/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-012516	1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-021816	2/18/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-062716	6/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW-11-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW-11-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW-11-040517	4/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
		Screening Value (µg/L):		2.2 [a]	530 [a]	1,000 [a]	NA [b]	NA [b]	NA [b]	NA [b]
SW-11	SW11-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-010918	1/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-020618	2/6/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
	SW11-030918	3/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
SW-12	SW12-081916	8/19/2016	µg/L	**6,430**	**764**	**15,400**	**3,360**	**1,730**	**128**	NA
	SW12-092916	9/29/2016	µg/L	**7,850**	**1,030**	**19,000**	**3,910**	**1,940**	**143**	NA
	SW12-103116	10/31/2016	µg/L	**165**	**17.7**	**302**	**103**	**58.2**	**4.7**	NA
	SW12-112816	11/28/2016	µg/L	**486**	**59.6**	**976**	**351**	**181**	**14.2**	NA
	SW12-122916	12/29/2016	µg/L	**707**	**97.3**	**1,790**	**408**	**213**	**16.8**	NA
	SW12-012017	1/20/2017	µg/L	**212**	**19.8**	**396**	**104**	**58**	**3.8**	NA
	SW12-022817	2/28/2017	µg/L	**26.1**	**4.04**	**62.3**	**18.0**	**9.73**	5 U	NA
	SW12-031517	3/15/2017	µg/L	**125**	**15.3**	**185**	**67.9**	**35.5**	5 U	NA
	SW12-032117	3/21/2017	µg/L	**134**	**12.1**	**45.0**	**60.8**	**33.6**	5 U	NA
	SW12-033017	3/30/2017	µg/L	**48.5**	**5.69**	**86.3**	**27.7**	**15.8**	5 U	NA
	SW12-040517	4/5/2017	µg/L	**67.1**	**9.24**	**127.0**	**43.6**	**23.7**	5 U	NA
	SW12-050417	5/4/2017	µg/L	**52.8**	**7.96**	**91.7**	**42**	**23.2**	5 U	NA
	SW12-061317	6/13/2017	µg/L	**102**	**16.6**	**166**	**85.1**	**46.2**	5 U	NA
	SW12-071817	7/18/2017	µg/L	**65**	**5.8**	**116**	**43.3**	**24.8**	5 U	NA
	SW12-080217	8/2/2017	µg/L	**125**	**14.7**	**204**	**102**	**67**	5 U	NA
	SW12-090517	9/5/2017	µg/L	**46.7**	**4.72**	**72**	**39**	**26.2**	5 U	NA
	SW12-120517	12/5/2017	µg/L	**16.6**	**2.91**	**12.6**	**20.1**	**13.3**	5 U	NA
	SW12-121417	12/14/2017	µg/L	**9.19**	**2.66**	**8.26**	**18**	**12.1**	5 U	NA
	SW12-010918	1/9/2018	µg/L	**12.3**	**2.16**	**5.65**	**14.6**	**11.1**	5 U	NA
	SW12-020618	2/6/2018	µg/L	**2.53**	1 U	**1.20**	**4.04**	**2.44**	5 U	1 U
	SW12-030918	3/9/2018	µg/L	**3.24**	**1.79**	**12.2**	**9.75**	**4.28**	5 U	1 U
SW-13	SW13-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW13-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
		Screening Value (µg/L):		2.2 [a]	530 [a]	1,000 [a]	NA [b]	NA [b]	NA [b]	NA [b]
SW-13	SW13-103116	10/31/2016	µg/L	1 U	1 U	**2.0**	2 U	1 U	1 U	NA
	SW13-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW13-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW13-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW13-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-040517	4/5/2017	µg/L	1 U	1 U	**1.21**	2 U	1 U	5 U	NA
	SW13-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-010918	1/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-020618	2/6/2018	µg/L	**1.78**	1 U	1 U	2 U	1 U	5 U	**4.26**
	SW13-030918	3/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	**2.07**
SW-14	SW14-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW14-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW14-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW14-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	--	12/14/2017	--	NS-DW	NS-DW	NS-DW	NS-DW	NS-DW	NS-DW	NS-DW
	SW14-010918	1/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW14-020618	2/6/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
	SW14-030918	3/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
FP-01	FP01-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP01-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP01-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP01-062716	6/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP01-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

				Analyte						
Location	**Sample ID**	**Date Collected**	**Units**	**Benzene**	**Ethylbenzene**	**Toluene**	**m&p-Xylene**	**o-Xylene**	**Naphthalene**	**MTBE**
		Screening Value (µg/L):		**2.2** [a]	**530** [a]	**1,000** [a]	**NA** [b]	**NA** [b]	**NA** [b]	**NA** [b]
FP-01	FP01-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP01-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP01-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP01-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP01-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP01-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP01-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP01-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-01-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-01-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-01-040517	4/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-01-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-01-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-01-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-01-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-01-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-01-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-01-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP01-010918	1/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP01-020618	2/6/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
	FP01-030918	3/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
FP-02	FP02-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP02-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP02-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP02-062716	6/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP02-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP02-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP02-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP02-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP02-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP02-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP02-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

				Analyte						
Location	**Sample ID**	**Date Collected**	**Units**	**Benzene**	**Ethylbenzene**	**Toluene**	**m&p-Xylene**	**o-Xylene**	**Naphthalene**	**MTBE**
		Screening Value (µg/L):		**2.2** [a]	**530** [a]	**1,000** [a]	**NA** [b]	**NA** [b]	**NA** [b]	**NA** [b]
FP-02	FP02-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP02-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-02-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-02-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-02-040517	4/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-02-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-02-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-02-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-02-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-02-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-02-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-02-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP02-010918	1/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP02-020618	2/6/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
	FP02-030918	3/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
FP-03	FP03-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP03-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP03-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP03-062716	6/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP03-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	--	8/19/2016	--	NS-HS	NS-HS	NS-HS	NS-HS	NS-HS	NS-HS	NS-HS
	FP03-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP03-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP03-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP03-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP03-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	FP03-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP03-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-03-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-03-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	--	4/5/2017	--	NS-HS	NS-HS	NS-HS	NS-HS	NS-HS	NS-HS	NS-HS
	FP-03-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

				Analyte						
Location	**Sample ID**	**Date Collected**	**Units**	**Benzene**	**Ethylbenzene**	**Toluene**	**m&p-Xylene**	**o-Xylene**	**Naphthalene**	**MTBE**
		Screening Value (µg/L):		**2.2** [a]	**530** [a]	**1,000** [a]	**NA** [b]	**NA** [b]	**NA** [b]	**NA** [b]
FP-03	FP-03-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-03-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-03-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-03-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-03-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP-03-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP03-010918	1/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	FP03-020618	2/6/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U
	FP03-030918	3/9/2018	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	1 U

Notes:

[a] South Carolina Department of Health and Environmental Control (SCDHEC) R.61-68, Water Classifications and Standards, Human Health for consumption of water and organism, June 27, 2014.

[b] Screening levels for these compounds are not specified in SCDHEC R. 61-68.

[c] The analyte was analyzed for, but was not detected above the laboratory reporting/quantitation limit. However, the laboratory reporting/quantitation limit is above the screening criteria. The actual absence or presence of this analyte between the screening criteria and the laboratory reporting/quantitation limit cannot be determined.

Samples analyzed by EPA Methods SW 8260B.

Bold indicates the analyte was detected above the method detection limit.

Gray shading indicates the analyte exceeded its screening value.

µg/L = microgram(s) per liter

FP = free product

ID = identification

J = estimated

MTBE = methyl tertiary butyl ether

NA = not applicable

SW = surface water

U = analyte was not detected above the reported sample quantitation limit

NS-HS = sample not collected due to health and safety concerns

NS-IW = sample not collected due to insufficient volume of water in well

NS-DW = sample not collected due to locations being in a different watershed

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-01					853.07			-	-	-
	3/5/2018	-	3.80	-		849.27	-	-	-	-
	2/21/2018	-	4.73	-		848.34	-	-	-	-
	2/5/2018	-	3.51	-		849.56	-	-	-	-
	2/3/2018	-	5.93	-		847.14	-	-	-	-
	1/8/2018	-	9.50	-		843.57	-	-	-	-
	12/27/2017	-	8.01	-		845.06	-	-	-	-
	12/4/2017	-	9.85	-		843.22	-	-	-	-
	11/12/2017	-	7.75	-		845.32	-	-	-	-
	11/7/2017	-	6.63	-		846.44	-	-	-	-
	10/21/2017	-	10.60	-		842.47	-	-	-	-
	10/3/2017	-	9.79	-		843.28	-	-	-	-
	9/10/2017	-	9.05	-		844.02	-	-	-	-
	9/6/2017	-	8.30	-		844.77	-	-	-	-
	8/12/2017	-	9.78	-		843.29	-	-	-	-
	8/1/2017	-	9.05	-		844.02	-	-	-	-
	7/2/2017	-	6.42	-		846.65	-	-	-	-
	6/26/2017	-	5.64	-		847.43	-	-	-	-
	6/4/2017	-	6.22	-		846.85	-	-	-	-
	5/4/2017	-	5.40	-		847.67	-	-	-	-
	4/6/2017	-	4.60	-		848.47	-	-	-	-
MW-01B					852.99			-	-	-
	3/5/2018	-	7.40	-		845.59	-	-	-	-
	2/21/2018	-	7.90	-		845.09	-	-	-	-
	2/5/2018	-	9.70	-		843.29	-	-	-	-
	2/3/2018	-	9.98	-		843.01	-	-	-	-
	1/8/2018	-	10.55	-		842.44	-	-	-	-
	12/27/2017	-	10.45	-		842.54	-	-	-	-
	12/4/2017	-	10.24	-		842.75	-	-	-	-
	11/12/2017	-	9.47	-		843.52	-	-	-	-
	11/7/2017	-	9.55	-		843.44	-	-	-	-
	10/21/2017	-	11.07	-		841.92	-	-	-	-
	10/3/2017	-	10.45	-		842.54	-	-	-	-
	9/10/2017	-	10.77	-		842.22	-	-	-	-
	9/6/2017	-	10.78	-		842.21	-	-	-	-
	8/12/2017	-	9.24	-		843.75	-	-	-	-
	8/1/2017	-	9.17	-		843.82	-	-	-	-
	7/2/2017	-	8.05	-		844.94	-	-	-	-
	6/26/2017	-	7.92	-		845.07	-	-	-	-
	6/4/2017	-	7.90	-		845.09	-	-	-	-
	5/4/2017	-	8.65	-		844.34	-	-	-	-
	4/6/2017	-	10.85	-		842.14	-	-	-	-
MW-02					841.04			-	-	-
	3/5/2018	-	3.00	-		838.04	-	-	-	-
	2/21/2018	-	-	-		841.04	-	-	-	-
	2/5/2018	-	-	-		841.04	-	-	-	-
	2/3/2018	-	-	-		841.04	-	-	-	-
	1/8/2018	-	14.26	-		826.78	-	-	-	-
	12/27/2017	-	9.50	-		831.54	-	-	-	-
	12/4/2017	-	2.54	-		838.50	-	-	-	-
	11/12/2017	-	3.47	-		837.57	-	-	-	-
	11/7/2017	-	4.20	-		836.84	-	-	-	-
	10/21/2017	-	6.48	-		834.56	-	-	-	-
	10/3/2017	-	16.03	-		825.01	-	-	-	-
	9/10/2017	-	3.42	-		837.62	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-02 (cont'd)	9/6/2017	-	4.21	-		836.83	-	-	-	-
	8/12/2017	-	3.98	-		837.06	-	-	-	-
	8/1/2017	-	3.80	-		837.24	-	-	-	-
	7/2/2017	-	3.21	-		837.83	-	-	-	-
	6/26/2017	-	1.82	-		839.22	-	-	-	-
	6/4/2017	-	2.44	-		838.60	-	-	-	-
	5/4/2017	-	6.80	-		834.24	-	-	-	-
	4/6/2017	-	7.07	-		833.97	-	-	-	-
MW-02B					841.19			-	-	-
	3/5/2018	-	1.50	-		839.69	-	-	-	-
	2/21/2018	-	0.96	-		840.23	-	-	-	-
	2/5/2018	-	0.10	-		841.09	-	-	-	-
	2/3/2018	-	0.10	-		841.09	-	-	-	-
	1/8/2018	-	23.70	-		817.49	-	-	-	-
	12/27/2017	-	16.41	-		824.78	-	-	-	-
	12/4/2017	-	24.56	-		816.63	-	-	-	-
	11/12/2017	-	23.45	-		817.74	-	-	-	-
	11/10/2017	-	7.03	-		834.16	-	-	-	-
	11/7/2017	-	13.41	-		827.78	-	-	-	-
	10/21/2017	-	27.50	-		813.69	-	-	-	-
	10/3/2017	-	21.87	-		819.32	-	-	-	-
	9/10/2017	-	2.42	-		838.77	-	-	-	-
	9/6/2017	-	1.94	-		839.25	-	-	-	-
	8/12/2017	-	0.37	-		840.82	-	-	-	-
	8/1/2017	-	4.35	-		836.84	-	-	-	-
	7/2/2017	-	4.04	-		837.15	-	-	-	-
	6/26/2017	-	2.41	-		838.78	-	-	-	-
	6/4/2017	-	2.31	-		838.88	-	-	-	-
	5/4/2017	-	8.20	-		832.99	-	-	-	-
	4/6/2017	-	8.38	-		832.81	-	-	-	-
MW-03					838.36			-	-	-
	3/5/2018	-	4.12	-		834.24	-	-	-	-
	2/21/2018	-	-	-		838.36	-	-	-	-
	2/5/2018	-	-	-		838.36	-	-	-	-
	2/3/2018	-	-	-		838.36	-	-	-	-
	1/8/2018	-	19.98	-		818.38	-	-	-	-
	12/27/2017	-	14.80	-		823.56	-	-	-	-
	12/4/2017	-	18.00	-		820.36	-	-	-	-
	11/12/2017	-	NM	-		-	-	-	-	-
	11/7/2017	-	1.50	-		836.86	-	-	-	-
	10/21/2017	-	9.00	-		829.36	-	-	-	-
	10/3/2017	-	19.87	-		818.49	-	-	-	-
	9/10/2017	-	6.00	-		832.36	-	-	-	-
	9/6/2017	-	NM	-		-	-	-	-	-
	8/12/2017	-	5.00	-		833.36	-	-	-	-
	8/1/2017	-	9.50	-		828.86	-	-	-	-
	7/2/2017	-	9.20	-		829.16	-	-	-	-
	6/26/2017	-	8.15	-		830.21	-	-	-	-
	6/4/2017	-	NM	-		-	-	-	-	-
	5/4/2017	-	8.43	-		829.93	-	-	-	-
	4/6/2017	-	10.61	-		827.75	-	-	-	-
MW-04					844.42			-	-	-
	3/5/2018	-	NM	-		-	-	-	-	-
	2/21/2018	-	7.30	-		837.12	-	-	-	-
	2/5/2018	-	7.80	-		836.62	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-04 (cont'd)	2/3/2018	-	8.70	-		835.72	-	-	-	-
	1/8/2018	-	14.97	-		829.45	-	-	-	-
	12/27/2017	-	10.20	-		834.22	-	-	-	-
	12/4/2017	-	10.07	-		834.35	-	-	-	-
	11/12/2017	-	10.68	-		833.74	-	-	-	-
	11/7/2017	-	11.03	-		833.39	-	-	-	-
	10/21/2017	-	12.45	-		831.97	-	-	-	-
	10/3/2017	-	14.78	-		829.64	-	-	-	-
	9/10/2017	-	10.82	-		833.60	-	-	-	-
	9/6/2017	-	11.07	-		833.35	-	-	-	-
	8/12/2017	-	9.49	-		834.93	-	-	-	-
	8/1/2017	-	9.51	-		834.91	-	-	-	-
	7/2/2017	-	8.57	-		835.85	-	-	-	-
	6/26/2017	-	8.21	-		836.21	-	-	-	-
	6/4/2017	-	7.90	-		836.52	-	-	-	-
	5/4/2017	-	10.92	-		833.50	-	-	-	-
	4/6/2017	-	13.99	-		830.43	-	-	-	-
MW-05					851.11			-	-	-
	3/5/2018	-	13.06	-		838.05	-	-	-	-
	2/21/2018	-	14.14	-		836.97	-	-	-	-
	2/5/2018	-	15.87	-		835.24	-	-	-	-
	2/3/2018	-	16.03	-		835.08	-	-	-	-
	1/8/2018	-	16.57	-		834.54	-	-	-	-
	12/27/2017	-	16.40	-		834.71	-	-	-	-
	12/4/2017	-	16.55	-		834.56	-	-	-	-
	11/12/2017	-	16.95	-		834.16	-	-	-	-
	11/7/2017	-	17.18	-		833.93	-	-	-	-
	10/21/2017	-	17.55	-		833.56	-	-	-	-
	10/3/2017	-	17.03	-		834.08	-	-	-	-
	9/10/2017	-	16.65	-		834.46	-	-	-	-
	9/6/2017	-	16.50	-		834.61	-	-	-	-
	8/12/2017	-	15.41	-		835.70	-	-	-	-
	8/1/2017	-	15.01	-		836.10	-	-	-	-
	7/2/2017	-	14.50	-		836.61	-	-	-	-
	6/26/2017	-	14.52	-		836.59	-	-	-	-
	6/4/2017	-	14.90	-		836.21	-	-	-	-
	5/4/2017	-	16.38	-		834.73	-	-	-	-
	5/3/2017	-	16.68	-		834.43	-	-	-	-
	4/6/2017	-	18.18	-		832.93	-	-	-	-
MW-06					852.92			-	-	-
	3/5/2018	-	13.25	-		839.67	-	-	-	-
	2/21/2018	-	13.91	-		839.01	-	-	-	-
	2/3/2018	-	14.95	-		837.97	-	-	-	-
	12/27/2017	-	15.30	-		837.62	-	-	-	-
	12/4/2017	-	15.45	-		837.47	-	-	-	-
	11/12/2017	-	15.90	-		837.02	-	-	-	-
	10/21/2017	-	16.40	-		836.52	-	-	-	-
	9/10/2017	-	15.40	-		837.52	-	-	-	-
	9/6/2017	-	15.34	-		837.58	-	-	-	-
	8/12/2017	-	14.84	-		838.08	-	-	-	-
	7/2/2017	-	14.70	-		838.22	-	-	-	-
	6/26/2017	-	14.85	-		838.07	-	-	-	-
	6/4/2017	-	15.55	-		837.37	-	-	-	-
	5/4/2017	-	16.78	-		836.14	-	-	-	-
	4/6/2017	-	17.55	-		835.37	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-06B					852.57			-	-	-
	3/5/2018	-	13.00	-		839.57	-	-	-	-
	2/21/2018	-	13.63	-		838.94	-	-	-	-
	2/3/2018	-	14.57	-		838.00	-	-	-	-
	12/27/2017	-	15.13	-		837.44	-	-	-	-
	12/4/2017	-	16.14	-		836.43	-	-	-	-
	11/12/2017	-	15.57	-		837.00	-	-	-	-
	11/10/2017	-	15.59	-		836.98	-	-	-	-
	10/21/2017	-	22.16	-		830.41	-	-	-	-
MW-07					853.02			-	-	-
	3/5/2018	-	11.77	-		841.25	-	-	-	-
	2/21/2018	-	12.15	-		840.87	-	-	-	-
	2/5/2018	-	13.19	-		839.83	-	-	-	-
	2/3/2018	-	13.20	-		839.82	-	-	-	-
	1/8/2018	-	13.21	-		839.81	-	-	-	-
	12/27/2017	-	13.17	-		839.85	-	-	-	-
	12/4/2017	-	13.21	-		839.81	-	-	-	-
	11/12/2017	-	13.20	-		839.82	-	-	-	-
	11/7/2017	-	13.20	-		839.82	-	-	-	-
	10/21/2017	-	13.20	-		839.82	-	-	-	-
	10/3/2017	-	13.20	-		839.82	-	-	-	-
	9/10/2017	-	13.17	-		839.85	-	-	-	-
	9/6/2017	-	13.20	-		839.82	-	-	-	-
	8/12/2017	13.08	13.09	0.01		839.93	839.93	-	-	-
	7/2/2017	-	12.75	-		840.27	-	-	-	-
	6/26/2017	-	12.73	-		840.29	-	-	-	-
	6/4/2017	-	12.68	-		840.34	-	-	-	-
	5/4/2017	-	13.19	-		839.83	-	-	-	-
	4/6/2017	-	13.20	-		839.82	-	-	-	-
MW-08					844.72			-	-	-
	3/5/2018	-	7.50	-		837.22	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/13/2018	3.87	3.88	0.01		840.84	840.85	-	-	-
	2/5/2018	-	4.35	-		840.37	-	-	-	-
	2/3/2018	-	5.50	-		839.22	-	-	-	-
	1/8/2018	-	19.43	-		825.29	-	-	-	-
	12/27/2017	11.60	11.61	0.01		833.11	833.12	-	-	-
	12/4/2017	-	10.47	-		834.25	-	-	-	-
	11/12/2017	-	10.25	-		834.47	-	-	-	-
	11/7/2017	-	10.38	-		834.34	-	-	-	-
	10/21/2017	-	14.35	-		830.37	-	-	-	-
	10/3/2017	-	16.86	-		827.86	-	-	-	-
	9/10/2017	-	11.20	-		833.52	-	-	-	-
	9/6/2017	-	11.92	-		832.80	-	-	-	-
	8/12/2017	-	11.70	-		833.02	-	-	-	-
	8/1/2017	-	11.32	-		833.40	-	-	-	-
	7/2/2017	-	9.68	-		835.04	-	-	-	-
	6/26/2017	-	8.25	-		836.47	-	-	-	-
	6/4/2017	-	8.90	-		835.82	-	-	-	-
	5/4/2017	-	12.31	-		832.41	-	-	-	-
	4/6/2017	-	9.68	-		835.04	-	-	-	-
MW-09					843.63			-	-	-
	3/5/2018	-	0.50	-		843.13	-	-	-	-
	2/21/2018	-	-	-		843.63	-	-	-	-
	2/5/2018	-	0.10	-		843.53	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-09 (cont'd)	2/3/2018	-	-	-		843.63	-	-	-	-
	1/8/2018	-	18.30	-		825.33	-	-	-	-
	12/27/2017	-	6.20	-		837.43	-	-	-	-
	12/4/2017	-	3.05	-		840.58	-	-	-	-
	11/12/2017	-	4.57	-		839.06	-	-	-	-
	11/7/2017	-	5.56	-		838.07	-	-	-	-
	10/21/2017	-	6.82	-		836.81	-	-	-	-
	10/3/2017	-	19.78	-		823.85	-	-	-	-
	9/10/2017	-	3.50	-		840.13	-	-	-	-
	9/6/2017	2.81	3.00	0.19		840.63	840.77	-	-	-
	8/12/2017	-	4.90	-		838.73	-	-	-	-
	8/1/2017	-	4.15	-		839.48	-	-	-	-
	7/2/2017	-	3.35	-		840.28	-	-	-	-
	6/26/2017	-	2.30	-		841.33	-	-	-	-
	6/4/2017	-	2.66	-		840.97	-	-	-	-
	5/4/2017	-	6.99	-		836.64	-	-	-	-
	4/6/2017	5.61	5.62	0.01		838.01	838.02	-	-	-
MW-09B					843.92			-	-	-
	3/5/2018	-	-	-		843.92	-	-	-	-
	2/21/2018	-	3.37	-		840.55	-	-	-	-
	2/3/2018	-	2.15	-		841.77	-	-	-	-
	12/27/2017	-	17.40	-		826.52	-	-	-	-
	12/4/2017	-	9.15	-		834.77	-	-	-	-
	11/12/2017	-	32.08	-		811.84	-	-	-	-
	11/10/2017	-	40.58	-		803.34	-	-	-	-
MW-10					845.41			-	-	-
	3/5/2018	-	5.11	-		840.30	-	-	-	-
	2/21/2018	-	5.40	-		840.01	-	-	-	-
	2/5/2018	-	6.81	-		838.60	-	-	-	-
	2/3/2018	-	8.20	-		837.21	-	-	-	-
	1/8/2018	-	15.08	-		830.33	-	-	-	-
	12/27/2017	-	13.71	-		831.70	-	-	-	-
	12/4/2017	-	10.85	-		834.56	-	-	-	-
	11/12/2017	-	11.95	-		833.46	-	-	-	-
	11/7/2017	-	12.64	-		832.77	-	-	-	-
	10/21/2017	-	15.60	-		829.81	-	-	-	-
	10/3/2017	-	17.33	-		828.08	-	-	-	-
	9/10/2017	-	13.02	-		832.39	-	-	-	-
	9/6/2017	-	13.50	-		831.91	-	-	-	-
	8/12/2017	-	14.05	-		831.36	-	-	-	-
	8/1/2017	-	12.40	-		833.01	-	-	-	-
	7/2/2017	-	10.48	-		834.93	-	-	-	-
	6/26/2017	-	9.60	-		835.81	-	-	-	-
	6/4/2017	-	9.33	-		836.08	-	-	-	-
	5/4/2017	-	12.75	-		832.66	-	-	-	-
	5/3/2017	-	12.83	-		832.58	-	-	-	-
	4/6/2017	-	15.47	-		829.94	-	-	-	-
MW-11					855.63			-	-	-
	3/5/2018	-	28.10	-		827.53	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/13/2018	28.80	28.81	0.01		826.82	826.83	-	-	-
	2/5/2018	29.56	29.60	0.04		826.03	826.06	-	-	-
	2/3/2018	29.68	29.79	0.11		825.84	825.92	-	-	-
	1/8/2018	30.68	30.90	0.22		824.73	824.89	-	-	-
	12/27/2017	30.02	30.45	0.43		825.18	825.49	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-11 (cont'd)	12/4/2017	29.72	29.86	0.14		825.77	825.87	-	-	-
	11/12/2017	30.00	30.35	0.35		825.28	825.53	-	-	-
	11/7/2017	30.26	30.52	0.26		825.11	825.30	-	-	-
	10/21/2017	30.87	31.20	0.33		824.43	824.67	-	-	-
	10/3/2017	-	30.37	-		825.26	-	-	-	-
	9/10/2017	29.68	30.04	0.36		825.59	825.85	-	-	-
	9/6/2017	29.69	30.04	0.35		825.59	825.84	-	-	-
	8/12/2017	29.05	29.15	0.10		826.48	826.55	-	-	-
	8/1/2017	28.54	28.63	0.09		827.00	827.07	-	-	-
	7/2/2017	-	28.20	-		827.43	-	-	-	-
	6/26/2017	-	28.26	-		827.37	-	-	-	-
	6/4/2017	28.72	28.73	0.01		826.90	826.91	-	-	-
	5/4/2017	30.15	30.57	0.42		825.06	825.37	-	-	-
	4/6/2017	-	32.00	-		823.63	-	-	-	-
MW-12					834.53			-	-	-
	3/5/2018	-	12.83	-		821.70	-	-	-	-
	2/21/2018	-	14.05	-		820.48	-	-	-	-
	2/5/2018	-	13.35	-		821.18	-	-	-	-
	2/3/2018	-	14.07	-		820.46	-	-	-	-
	1/8/2018	-	15.11	-		819.42	-	-	-	-
	12/27/2017	-	14.53	-		820.00	-	-	-	-
	12/4/2017	-	15.55	-		818.98	-	-	-	-
	11/12/2017	-	14.45	-		820.08	-	-	-	-
	11/7/2017	-	14.00	-		820.53	-	-	-	-
	10/21/2017	-	15.06	-		819.47	-	-	-	-
	10/3/2017	-	14.61	-		819.92	-	-	-	-
	9/10/2017	-	14.90	-		819.63	-	-	-	-
	9/6/2017	-	14.84	-		819.69	-	-	-	-
	8/12/2017	-	14.41	-		820.12	-	-	-	-
	8/1/2017	-	13.83	-		820.70	-	-	-	-
	7/2/2017	-	13.65	-		820.88	-	-	-	-
	6/26/2017	-	13.29	-		821.24	-	-	-	-
	6/4/2017	-	13.70	-		820.83	-	-	-	-
	5/4/2017	13.90	13.91	0.01		820.62	820.63	-	-	-
	4/26/2017	-	13.69	-		820.84	-	-	-	-
	4/6/2017	14.42	14.50	0.08		820.03	820.09	-	-	-
	4/3/2017	15.05	15.23	0.18		819.30	819.43	-	-	-
MW-12B					834.98			-	-	-
	3/5/2018	-	12.92	-		822.06	-	-	-	-
	2/21/2018	-	14.51	-		820.47	-	-	-	-
	2/5/2018	-	13.61	-		821.37	-	-	-	-
	2/3/2018	-	14.60	-		820.38	-	-	-	-
	1/8/2018	-	15.50	-		819.48	-	-	-	-
	12/27/2017	-	15.04	-		819.94	-	-	-	-
	12/4/2017	-	16.12	-		818.86	-	-	-	-
	11/12/2017	-	14.91	-		820.07	-	-	-	-
	11/7/2017	-	14.25	-		820.73	-	-	-	-
	10/21/2017	-	15.44	-		819.54	-	-	-	-
	10/3/2017	-	14.93	-		820.05	-	-	-	-
	9/10/2017	-	15.35	-		819.63	-	-	-	-
	9/6/2017	-	15.20	-		819.78	-	-	-	-
	8/12/2017	-	14.82	-		820.16	-	-	-	-
	8/1/2017	-	14.17	-		820.81	-	-	-	-
	7/2/2017	-	14.02	-		820.96	-	-	-	-
	6/26/2017	-	13.63	-		821.35	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-12B (cont'd)	6/4/2017	-	14.03	-		820.95	-	-	-	-
	5/4/2017	-	14.22	-		820.76	-	-	-	-
	4/26/2017	-	14.03	-		820.95	-	-	-	-
	4/6/2017	-	14.66	-		820.32	-	-	-	-
	4/3/2017	-	15.43	-		819.55	-	-	-	-
MW-13					848.84			-	-	-
	3/5/2018	-	20.40	-		828.44	-	-	-	-
	2/21/2018	-	20.95	-		827.89	-	-	-	-
	2/3/2018	-	21.88	-		826.96	-	-	-	-
	12/27/2017	-	21.85	-		826.99	-	-	-	-
	12/4/2017	-	21.87	-		826.97	-	-	-	-
	11/12/2017	-	21.85	-		826.99	-	-	-	-
	10/21/2017	-	21.84	-		827.00	-	-	-	-
	9/10/2017	-	21.85	-		826.99	-	-	-	-
	9/6/2017	-	21.85	-		826.99	-	-	-	-
	8/12/2017	-	21.70	-		827.14	-	-	-	-
	7/2/2017	-	20.73	-		828.11	-	-	-	-
	6/26/2017	-	20.78	-		828.06	-	-	-	-
	6/4/2017	-	21.20	-		827.64	-	-	-	-
	5/4/2017	-	22.04	-		826.80	-	-	-	-
	4/6/2017	-	22.05	-		826.79	-	-	-	-
MW-13B					849.82			-	-	-
	3/5/2018	-	21.00	-		828.82	-	-	-	-
	2/21/2018	-	21.45	-		828.37	-	-	-	-
	2/3/2018	-	22.37	-		827.45	-	-	-	-
	12/27/2017	-	23.41	-		826.41	-	-	-	-
	12/4/2017	-	22.66	-		827.16	-	-	-	-
	11/12/2017	-	22.83	-		826.99	-	-	-	-
	11/7/2017	-	23.08	-		826.74	-	-	-	-
	10/21/2017	-	23.63	-		826.19	-	-	-	-
	9/10/2017	-	22.75	-		827.07	-	-	-	-
	9/6/2017	-	22.70	-		827.12	-	-	-	-
	8/12/2017	-	22.22	-		827.60	-	-	-	-
	7/2/2017	-	21.25	-		828.57	-	-	-	-
	6/26/2017	-	21.30	-		828.52	-	-	-	-
	6/4/2017	-	21.58	-		828.24	-	-	-	-
	5/4/2017	-	23.02	-		826.80	-	-	-	-
	4/6/2017	-	24.37	-		825.45	-	-	-	-
MW-14					838.70			-	-	-
	3/5/2018	-	15.11	-		823.59	-	-	-	-
	2/21/2018	-	15.79	-		822.91	-	-	-	-
	2/3/2018	-	17.29	-		821.41	-	-	-	-
	12/27/2017	-	17.50	-		821.20	-	-	-	-
	12/4/2017	-	17.62	-		821.08	-	-	-	-
	11/12/2017	-	17.80	-		820.90	-	-	-	-
	10/21/2017	-	18.62	-		820.08	-	-	-	-
	9/10/2017	-	18.07	-		820.63	-	-	-	-
	9/6/2017	-	18.08	-		820.62	-	-	-	-
	8/12/2017	-	17.52	-		821.18	-	-	-	-
	7/2/2017	-	16.57	-		822.13	-	-	-	-
	6/26/2017	-	16.51	-		822.19	-	-	-	-
	6/4/2017	-	16.52	-		822.18	-	-	-	-
	5/4/2017	-	16.90	-		821.80	-	-	-	-
	4/6/2017	-	18.26	-		820.44	-	-	-	-
MW-14B					840.20			-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-14B (cont'd)	3/5/2018	-	16.95	-		823.25	-	-	-	-
	2/21/2018	-	18.70	-		821.50	-	-	-	-
	2/3/2018	-	19.01	-		821.19	-	-	-	-
	12/27/2017	-	19.06	-		821.14	-	-	-	-
	12/4/2017	-	19.22	-		820.98	-	-	-	-
	11/12/2017	-	19.36	-		820.84	-	-	-	-
	10/21/2017	-	19.35	-		820.85	-	-	-	-
	9/10/2017	-	18.97	-		821.23	-	-	-	-
	9/6/2017	-	18.84	-		821.36	-	-	-	-
	8/12/2017	-	18.37	-		821.83	-	-	-	-
	7/2/2017	-	17.87	-		822.33	-	-	-	-
	6/26/2017	-	17.85	-		822.35	-	-	-	-
	6/4/2017	-	18.13	-		822.07	-	-	-	-
	5/4/2017	-	19.08	-		821.12	-	-	-	-
	4/6/2017	-	20.07	-		820.13	-	-	-	-
MW-15					831.03			-	-	-
	3/5/2018	-	10.04	-		820.99	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/13/2018	9.91	9.92	0.01		821.11	821.12	-	-	-
	2/5/2018	-	12.28	-		818.75	-	-	-	-
	2/3/2018	-	13.42	-		817.61	-	-	-	-
	1/8/2018	-	12.84	-		818.19	-	-	-	-
	12/27/2017	14.01	14.02	0.01		817.01	817.02	-	-	-
	12/4/2017	-	13.66	-		817.37	-	-	-	-
	11/12/2017	-	14.75	-		816.28	-	-	-	-
	11/7/2017	-	13.32	-		817.71	-	-	-	-
	10/21/2017	14.16	14.17	0.01		816.86	816.87	-	-	-
	10/3/2017	-	11.65	-		819.38	-	-	-	-
	9/10/2017	-	14.12	-		816.91	-	-	-	-
	9/6/2017	-	13.87	-		817.16	-	-	-	-
	8/12/2017	-	13.25	-		817.78	-	-	-	-
	8/1/2017	-	11.20	-		819.83	-	-	-	-
	7/2/2017	-	13.01	-		818.02	-	-	-	-
	6/26/2017	-	11.09	-		819.94	-	-	-	-
	6/4/2017	-	13.68	-		817.35	-	-	-	-
	5/4/2017	-	13.00	-		818.03	-	-	-	-
	4/26/2017	-	12.80	-		818.23	-	-	-	-
	4/6/2017	-	12.29	-		818.75	-	-	-	-
	4/3/2017	-	13.43	-		817.60	-	-	-	-
MW-15B					831.29			-	-	-
	3/5/2018	-	14.66	-		816.63	-	-	-	-
	2/21/2018	-	15.11	-		816.18	-	-	-	-
	2/5/2018	-	15.60	-		815.69	-	-	-	-
	2/3/2018	-	15.65	-		815.64	-	-	-	-
	1/8/2018	-	16.23	-		815.06	-	-	-	-
	12/27/2017	-	15.90	-		815.39	-	-	-	-
	12/4/2017	-	16.25	-		815.04	-	-	-	-
	11/12/2017	-	15.91	-		815.38	-	-	-	-
	11/7/2017	-	16.08	-		815.21	-	-	-	-
	10/21/2017	-	16.63	-		814.66	-	-	-	-
	10/3/2017	-	16.65	-		814.64	-	-	-	-
	9/10/2017	-	16.37	-		814.92	-	-	-	-
	9/6/2017	-	16.40	-		814.89	-	-	-	-
	8/12/2017	-	16.42	-		814.87	-	-	-	-
	8/1/2017	-	16.28	-		815.01	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-15B (cont'd)	7/2/2017	-	15.64	-		815.65	-	-	-	-
	6/26/2017	-	15.78	-		815.51	-	-	-	-
	6/4/2017	-	15.56	-		815.73	-	-	-	-
	5/4/2017	-	15.80	-		815.49	-	-	-	-
	4/26/2017	-	15.83	-		815.46	-	-	-	-
	4/6/2017	-	16.31	-		814.98	-	-	-	-
	4/3/2017	-	16.54	-		814.75	-	-	-	-
MW-16					847.67			-	-	-
	3/5/2018	-	3.00	-		844.67	-	-	-	-
	2/21/2018	-	-	-		847.67	-	-	-	-
	2/5/2018	-	18.00	-		829.67	-	-	-	-
	2/3/2018	-	3.00	-		844.67	-	-	-	-
	1/8/2018	-	18.19	-		829.48	-	-	-	-
	12/27/2017	-	10.60	-		837.07	-	-	-	-
	12/4/2017	-	7.00	-		840.67	-	-	-	-
	11/12/2017	-	10.00	-		837.67	-	-	-	-
	11/7/2017	-	11.00	-		836.67	-	-	-	-
	10/21/2017	-	11.10	-		836.57	-	-	-	-
	10/3/2017	15.00	15.21	0.21		832.46	832.61	-	-	-
	9/10/2017	-	8.50	-		839.17	-	-	-	-
	9/6/2017	8.95	9.10	0.15		838.57	838.67	-	-	-
	8/12/2017	-	7.00	-		840.67	-	-	-	-
	8/1/2017	8.70	8.75	0.05		838.92	838.95	-	-	-
	7/2/2017	-	9.05	-		838.62	-	-	-	-
	6/26/2017	-	8.71	-		838.96	-	-	-	-
	6/4/2017	9.26	9.30	0.04		838.37	838.39	-	-	-
	5/4/2017	13.02	14.82	**1.80**		832.85	834.16	-	-	-
	4/6/2017	14.86	17.74	**2.88**		829.93	832.03	-	-	-
MW-17					855.35			-	-	-
	3/5/2018	-	10.85	-		844.50	-	-	-	-
	2/21/2018	-	10.83	-		844.52	-	-	-	-
	2/3/2018	-	10.85	-		844.50	-	-	-	-
	12/27/2017	-	16.85	-		838.50	-	-	-	-
	12/4/2017	-	10.85	-		844.50	-	-	-	-
	11/12/2017	-	10.85	-		844.50	-	-	-	-
	10/21/2017	-	10.83	-		844.52	-	-	-	-
	9/10/2017	-	10.83	-		844.52	-	-	-	-
	9/6/2017	-	10.85	-		844.50	-	-	-	-
	8/12/2017	-	16.82	-		838.53	-	-	-	-
	7/2/2017	-	10.82	-		844.53	-	-	-	-
	6/26/2017	-	10.82	-		844.53	-	-	-	-
	6/4/2017	-	10.82	-		844.53	-	-	-	-
	5/4/2017	-	10.82	-		844.53	-	-	-	-
	4/6/2017	-	10.53	-		844.82	-	-	-	-
MW-17B					855.37			-	-	-
	3/5/2018	-	14.80	-		840.57	-	-	-	-
	2/21/2018	-	15.40	-		839.97	-	-	-	-
	2/3/2018	-	16.55	-		838.82	-	-	-	-
	12/27/2017	-	16.90	-		838.47	-	-	-	-
	12/4/2017	-	17.05	-		838.32	-	-	-	-
	11/12/2017	-	17.20	-		838.17	-	-	-	-
	10/21/2017	-	17.60	-		837.77	-	-	-	-
	9/10/2017	-	16.75	-		838.62	-	-	-	-
	9/6/2017	-	16.71	-		838.66	-	-	-	-
	8/12/2017	-	16.07	-		839.30	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-17B (cont'd)	7/2/2017	-	16.85	-		838.52	-	-	-	-
	6/26/2017	-	16.96	-		838.41	-	-	-	-
	6/4/2017	-	16.55	-		838.82	-	-	-	-
	5/4/2017	-	17.78	-		837.59	-	-	-	-
	4/6/2017	-	18.77	-		836.60	-	-	-	-
MW-18					846.89			-	-	-
	3/5/2018	17.20	18.25	**1.05**		828.64	829.40	-	-	-
	2/21/2018	-	-	-		846.89	-	-	-	-
	2/5/2018	16.96	16.97	0.01		829.92	829.92	-	-	-
	2/3/2018	-	14.50	-		832.39	-	-	-	-
	1/8/2018	-	19.60	-		827.29	-	-	-	-
	12/27/2017	-	12.60	-		834.29	-	-	-	-
	12/4/2017	11.61	11.64	0.03		835.25	835.27	-	-	-
	11/12/2017	-	12.00	-		834.89	-	-	-	-
	11/7/2017	12.35	12.37	0.02		834.52	834.53	-	-	-
	10/21/2017	15.04	15.10	0.06		831.79	831.83	-	-	-
	10/3/2017	18.02	18.47	0.45		828.42	828.74	-	-	-
	9/10/2017	-	11.10	-		835.79	-	-	-	-
	9/6/2017	12.68	12.71	0.03		834.18	834.20	-	-	-
	8/12/2017	11.98	12.05	0.07		834.84	834.89	-	-	-
	8/1/2017	12.30	13.39	**1.09**		833.50	834.29	-	-	-
	7/2/2017	10.50	11.70	**1.20**		835.19	836.06	-	-	-
	6/26/2017	9.65	11.04	**1.39**		835.85	836.86	-	-	-
	6/4/2017	10.57	11.97	**1.40**		834.92	835.94	-	-	-
	5/4/2017	13.84	16.70	**2.86**		830.19	832.27	-	-	-
	4/6/2017	16.10	19.48	**3.38**		827.41	829.87	-	-	-
MW-19					853.94			-	-	-
	3/5/2018	-	11.75	-		842.19	-	-	-	-
	2/21/2018	-	9.76	-		844.18	-	-	-	-
	2/5/2018	-	10.80	-		843.14	-	-	-	-
	2/3/2018	-	11.20	-		842.74	-	-	-	-
	1/8/2018	-	11.78	-		842.16	-	-	-	-
	12/27/2017	-	11.75	-		842.19	-	-	-	-
	12/4/2017	-	11.77	-		842.17	-	-	-	-
	11/12/2017	-	11.74	-		842.20	-	-	-	-
	11/7/2017	-	11.80	-		842.14	-	-	-	-
	10/21/2017	-	11.76	-		842.18	-	-	-	-
	10/3/2017	-	11.78	-		842.16	-	-	-	-
	9/10/2017	-	11.77	-		842.17	-	-	-	-
	9/6/2017	-	11.76	-		842.18	-	-	-	-
	8/12/2017	-	11.74	-		842.20	-	-	-	-
	8/1/2017	-	11.35	-		842.59	-	-	-	-
	7/2/2017	-	10.68	-		843.26	-	-	-	-
	6/26/2017	-	10.12	-		843.82	-	-	-	-
	6/4/2017	-	10.85	-		843.09	-	-	-	-
	5/4/2017	-	11.61	-		842.33	-	-	-	-
	4/26/2017	-	10.21	-		843.73	-	-	-	-
	4/6/2017	-	9.16	-		844.78	-	-	-	-
	4/3/2017	-	11.78	-		842.16	-	-	-	-
MW-20					852.89			-	-	-
	3/5/2018	10.80	10.90	0.10		841.99	842.06	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/13/2018	-	11.81	-		841.08	-	-	-	-
	2/5/2018	-	12.57	-		840.32	-	-	-	-
	2/3/2018	12.90	12.97	0.07		839.92	839.97	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-20 (cont'd)	1/8/2018	13.71	14.64	**0.93**		838.25	838.92	-	-	-
	12/27/2017	13.15	13.50	0.35		839.39	839.64	-	-	-
	12/4/2017	13.30	14.64	**1.34**		838.25	839.22	-	-	-
	11/12/2017	13.15	13.40	0.25		839.49	839.67	-	-	-
	11/7/2017	13.12	13.61	0.49		839.28	839.63	-	-	-
	10/21/2017	13.60	14.07	0.47		838.82	839.16	-	-	-
	10/3/2017	13.25	13.79	**0.54**		839.10	839.49	-	-	-
	9/10/2017	12.94	13.45	**0.51**		839.44	839.81	-	-	-
	9/6/2017	12.99	13.71	**0.72**		839.18	839.70	-	-	-
	8/12/2017	12.33	13.10	**0.77**		839.79	840.35	-	-	-
	8/1/2017	12.08	13.10	**1.02**		839.79	840.53	-	-	-
	7/2/2017	11.63	12.90	**1.27**		839.99	840.91	-	-	-
	6/26/2017	11.62	12.95	**1.33**		839.94	840.91	-	-	-
	6/4/2017	12.08	13.27	**1.19**		839.62	840.48	-	-	-
	5/4/2017	12.93	14.00	**1.07**		838.89	839.67	-	-	-
	4/26/2017	13.40	14.49	**1.09**		838.40	839.19	-	-	-
	4/6/2017	14.10	15.72	**1.62**		837.17	838.35	-	-	-
	4/3/2017	14.28	15.81	**1.53**		837.08	838.19	-	-	-
MW-21					855.77			-	-	-
	3/5/2018	-	NM	-		-	-	-	-	-
	2/21/2018	-	15.62	-		840.15	-	-	-	-
	2/3/2018	-	16.73	-		839.04	-	-	-	-
	12/27/2017	-	17.17	-		838.60	-	-	-	-
	12/4/2017	-	17.42	-		838.35	-	-	-	-
	11/12/2017	-	17.43	-		838.34	-	-	-	-
	10/21/2017	-	17.95	-		837.82	-	-	-	-
	9/10/2017	-	17.39	-		838.38	-	-	-	-
	9/6/2017	-	17.34	-		838.43	-	-	-	-
	8/12/2017	-	16.80	-		838.97	-	-	-	-
	7/2/2017	-	16.16	-		839.61	-	-	-	-
	6/26/2017	-	16.14	-		839.63	-	-	-	-
	6/4/2017	-	16.61	-		839.16	-	-	-	-
	5/4/2017	-	17.08	-		838.69	-	-	-	-
	4/6/2017	-	18.23	-		837.54	-	-	-	-
MW-22					854.60			-	-	-
	3/5/2018	-	8.05	-		846.55	-	-	-	-
	2/21/2018	-	9.03	-		845.57	-	-	-	-
	2/5/2018	-	9.81	-		844.79	-	-	-	-
	2/3/2018	-	10.01	-		844.59	-	-	-	-
	1/8/2018	-	10.01	-		844.59	-	-	-	-
	12/27/2017	-	DRY	-		-	-	-	-	-
	12/4/2017	-	9.99	-		844.61	-	-	-	-
	11/12/2017	-	NM	-		-	-	-	-	-
	11/7/2017	-	9.96	-		844.64	-	-	-	-
	10/21/2017	-	DRY	-		-	-	-	-	-
	10/3/2017	-	9.94	-		844.66	-	-	-	-
	9/10/2017	-	DRY	-		-	-	-	-	-
	9/6/2017	-	10.35	-		844.25	-	-	-	-
	8/12/2017	-	10.35	-		844.25	-	-	-	-
	8/1/2017	-	9.98	-		844.62	-	-	-	-
	7/2/2017	-	9.65	-		844.95	-	-	-	-
	6/26/2017	-	4.44	-		850.16	-	-	-	-
	6/4/2017	-	9.66	-		844.94	-	-	-	-
	5/4/2017	-	9.95	-		844.65	-	-	-	-
	5/3/2017	-	9.93	-		844.67	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-22 (cont'd)	4/6/2017	-	9.85	-		844.75	-	-	-	-
MW-23					849.57			-	-	-
	3/5/2018	-	8.27	-		841.30	-	-	-	-
	2/21/2018	-	9.03	-		840.54	-	-	-	-
	2/5/2018	-	9.76	-		839.81	-	-	-	-
	2/3/2018	-	10.25	-		839.32	-	-	-	-
	1/8/2018	-	11.02	-		838.55	-	-	-	-
	12/27/2017	-	10.81	-		838.76	-	-	-	-
	12/4/2017	-	11.13	-		838.44	-	-	-	-
	11/12/2017	-	11.02	-		838.55	-	-	-	-
	11/7/2017	-	11.10	-		838.47	-	-	-	-
	10/21/2017	-	11.83	-		837.74	-	-	-	-
	10/3/2017	-	11.52	-		838.05	-	-	-	-
	9/10/2017	-	11.28	-		838.29	-	-	-	-
	9/6/2017	-	11.22	-		838.35	-	-	-	-
	8/12/2017	-	10.70	-		838.87	-	-	-	-
	8/1/2017	-	10.55	-		839.02	-	-	-	-
	7/2/2017	-	9.85	-		839.72	-	-	-	-
	6/26/2017	-	9.72	-		839.85	-	-	-	-
	6/4/2017	-	10.01	-		839.56	-	-	-	-
	5/4/2017	-	10.42	-		839.15	-	-	-	-
	4/6/2017	-	11.50	-		838.07	-	-	-	-
MW-23B					849.69			-	-	-
	3/5/2018	-	10.88	-		838.81	-	-	-	-
	2/21/2018	-	11.04	-		838.65	-	-	-	-
	2/3/2018	-	11.35	-		838.34	-	-	-	-
	12/27/2017	-	11.45	-		838.24	-	-	-	-
	12/4/2017	-	11.45	-		838.24	-	-	-	-
	11/12/2017	-	11.42	-		838.27	-	-	-	-
	10/21/2017	-	11.45	-		838.24	-	-	-	-
	9/10/2017	-	11.33	-		838.36	-	-	-	-
	9/6/2017	-	11.21	-		838.48	-	-	-	-
	8/12/2017	-	11.22	-		838.47	-	-	-	-
	7/2/2017	-	11.80	-		837.89	-	-	-	-
	6/26/2017	-	11.50	-		838.19	-	-	-	-
	6/4/2017	-	11.93	-		837.76	-	-	-	-
	5/4/2017	-	12.44	-		837.25	-	-	-	-
	4/6/2017	-	12.81	-		836.88	-	-	-	-
MW-24					817.92			-	-	-
	3/5/2018	-	4.15	-		813.77	-	-	-	-
	2/21/2018	-	4.35	-		813.57	-	-	-	-
	2/3/2018	-	4.41	-		813.51	-	-	-	-
	12/27/2017	-	4.50	-		813.42	-	-	-	-
	12/4/2017	-	4.51	-		813.41	-	-	-	-
	11/17/2017	-	4.52	-		813.40	-	-	-	-
	10/21/2017	-	4.75	-		813.17	-	-	-	-
	9/10/2017	-	4.65	-		813.27	-	-	-	-
	9/6/2017	-	4.47	-		813.45	-	-	-	-
	8/12/2017	-	4.62	-		813.30	-	-	-	-
	7/2/2017	-	4.47	-		813.45	-	-	-	-
	6/26/2017	-	4.51	-		813.41	-	-	-	-
	6/4/2017	-	4.49	-		813.43	-	-	-	-
	5/4/2017	-	4.49	-		813.43	-	-	-	-
	4/6/2017	-	4.13	-		813.79	-	-	-	-
MW-24B					818.72			-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-24B (cont'd)	3/5/2018	-	5.03	-		813.69	-	-	-	-
	2/21/2018	-	5.29	-		813.43	-	-	-	-
	2/3/2018	-	5.45	-		813.27	-	-	-	-
	12/27/2017	-	5.58	-		813.14	-	-	-	-
	12/4/2017	-	5.69	-		813.03	-	-	-	-
	11/17/2017	-	5.56	-		813.16	-	-	-	-
	10/21/2017	-	5.85	-		812.87	-	-	-	-
	9/10/2017	-	5.79	-		812.93	-	-	-	-
	9/6/2017	-	5.83	-		812.89	-	-	-	-
	8/12/2017	-	5.92	-		812.80	-	-	-	-
	7/2/2017	-	5.43	-		813.29	-	-	-	-
	6/26/2017	-	5.41	-		813.31	-	-	-	-
	6/4/2017	-	5.44	-		813.28	-	-	-	-
	5/4/2017	-	5.41	-		813.31	-	-	-	-
	4/6/2017	-	5.18	-		813.54	-	-	-	-
MW-25					826.18			-	-	-
	3/5/2018	-	7.84	-		818.34	-	-	-	-
	2/21/2018	-	8.09	-		818.09	-	-	-	-
	2/5/2018	-	8.15	-		818.03	-	-	-	-
	2/3/2018	-	8.39	-		817.79	-	-	-	-
	1/8/2018	-	8.80	-		817.38	-	-	-	-
	12/27/2017	-	8.69	-		817.49	-	-	-	-
	12/4/2017	-	7.10	-		819.08	-	-	-	-
	11/12/2017	-	8.47	-		817.71	-	-	-	-
	11/7/2017	-	8.35	-		817.83	-	-	-	-
	10/21/2017	-	8.80	-		817.38	-	-	-	-
	10/3/2017	-	8.52	-		817.66	-	-	-	-
	9/10/2017	-	8.88	-		817.30	-	-	-	-
	9/6/2017	-	8.83	-		817.35	-	-	-	-
	8/12/2017	-	8.61	-		817.57	-	-	-	-
	8/1/2017	-	8.21	-		817.97	-	-	-	-
	7/2/2017	-	8.05	-		818.13	-	-	-	-
	6/26/2017	-	7.81	-		818.37	-	-	-	-
	6/4/2017	-	8.05	-		818.13	-	-	-	-
	5/4/2017	-	8.15	-		818.03	-	-	-	-
	5/3/2017	-	8.21	-		817.97	-	-	-	-
	4/26/2017	-	8.09	-		818.09	-	-	-	-
	4/6/2017	-	8.02	-		818.16	-	-	-	-
	4/3/2017	-	8.58	-		817.60	-	-	-	-
MW-25B					823.81			-	-	-
	3/5/2018	-	4.12	-		819.69	-	-	-	-
	2/21/2018	-	4.41	-		819.40	-	-	-	-
	2/5/2018	-	4.48	-		819.33	-	-	-	-
	2/3/2018	-	4.80	-		819.01	-	-	-	-
	1/8/2018	-	5.53	-		818.28	-	-	-	-
	12/27/2017	-	5.25	-		818.56	-	-	-	-
	12/4/2017	-	5.30	-		818.51	-	-	-	-
	11/12/2017	-	5.26	-		818.55	-	-	-	-
	11/7/2017	-	5.47	-		818.34	-	-	-	-
	10/21/2017	-	5.75	-		818.06	-	-	-	-
	10/3/2017	-	5.83	-		817.98	-	-	-	-
	9/10/2017	-	5.37	-		818.44	-	-	-	-
	9/6/2017	-	5.62	-		818.19	-	-	-	-
	8/12/2017	-	5.65	-		818.16	-	-	-	-
	8/1/2017	-	5.55	-		818.26	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-25B (cont'd)	7/2/2017	-	4.88	-		818.93	-	-	-	-
	6/26/2017	-	4.85	-		818.96	-	-	-	-
	6/4/2017	-	5.01	-		818.80	-	-	-	-
	5/4/2017	-	5.22	-		818.59	-	-	-	-
	4/26/2017	-	5.18	-		818.63	-	-	-	-
	4/6/2017	-	5.52	-		818.29	-	-	-	-
	4/3/2017	-	5.72	-		818.09	-	-	-	-
MW-26					847.56			-	-	-
	3/5/2018	-	2.94	-		844.62	-	-	-	-
	2/21/2018	-	3.81	-		843.75	-	-	-	-
	2/5/2018	-	4.37	-		843.19	-	-	-	-
	2/3/2018	-	5.58	-		841.98	-	-	-	-
	1/8/2018	-	6.68	-		840.88	-	-	-	-
	12/27/2017	-	6.35	-		841.21	-	-	-	-
	12/4/2017	-	6.83	-		840.73	-	-	-	-
	11/12/2017	-	6.65	-		840.91	-	-	-	-
	11/7/2017	-	6.56	-		841.00	-	-	-	-
	10/21/2017	-	8.01	-		839.55	-	-	-	-
	10/3/2017	-	7.71	-		839.85	-	-	-	-
	9/10/2017	-	7.35	-		840.21	-	-	-	-
	9/6/2017	-	7.18	-		840.38	-	-	-	-
	8/12/2017	-	6.70	-		840.86	-	-	-	-
	8/1/2017	-	6.58	-		840.98	-	-	-	-
	7/2/2017	-	5.15	-		842.41	-	-	-	-
	6/26/2017	-	4.93	-		842.63	-	-	-	-
	6/4/2017	-	5.14	-		842.42	-	-	-	-
	5/4/2017	-	5.08	-		842.48	-	-	-	-
	5/3/2017	-	5.20	-		842.36	-	-	-	-
	4/6/2017	-	5.93	-		841.63	-	-	-	-
MW-26B					847.81			-	-	-
	3/5/2018	-	6.30	-		841.51	-	-	-	-
	2/21/2018	-	7.01	-		840.80	-	-	-	-
	2/3/2018	-	8.48	-		839.33	-	-	-	-
	12/27/2017	-	9.34	-		838.47	-	-	-	-
	12/4/2017	-	9.17	-		838.64	-	-	-	-
	11/12/2017	-	8.95	-		838.86	-	-	-	-
	10/21/2017	-	9.71	-		838.10	-	-	-	-
	9/10/2017	-	9.08	-		838.73	-	-	-	-
	9/6/2017	-	8.95	-		838.86	-	-	-	-
	8/12/2017	-	8.65	-		839.16	-	-	-	-
	7/2/2017	-	7.28	-		840.53	-	-	-	-
	6/26/2017	-	7.23	-		840.58	-	-	-	-
	6/4/2017	-	7.25	-		840.56	-	-	-	-
	5/4/2017	-	7.88	-		839.93	-	-	-	-
	4/6/2017	-	9.45	-		838.36	-	-	-	-
MW-27					854.11			-	-	-
	3/5/2018	-	25.29	-		828.82	-	-	-	-
	2/21/2018	-	26.05	-		828.06	-	-	-	-
	2/3/2018	-	27.18	-		826.93	-	-	-	-
	12/27/2017	-	27.40	-		826.71	-	-	-	-
	12/4/2017	-	27.46	-		826.65	-	-	-	-
	11/12/2017	-	27.66	-		826.45	-	-	-	-
	10/21/2017	-	27.95	-		826.16	-	-	-	-
	9/10/2017	-	27.33	-		826.78	-	-	-	-
	9/6/2017	-	27.28	-		826.83	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-27 (cont'd)	8/12/2017	-	26.47	-		827.64	-	-	-	-
	7/2/2017	-	25.60	-		828.51	-	-	-	-
	6/26/2017	-	25.61	-		828.50	-	-	-	-
	6/4/2017	-	25.86	-		828.25	-	-	-	-
	5/4/2017	-	26.70	-		827.41	-	-	-	-
	4/6/2017	-	27.98	-		826.13	-	-	-	-
MW-27B					857.14			-	-	-
	3/5/2018	-	3.20	-		853.94	-	-	-	-
	2/21/2018	-	30.41	-		826.73	-	-	-	-
	2/3/2018	-	30.70	-		826.44	-	-	-	-
	12/27/2017	-	30.71	-		826.43	-	-	-	-
	12/4/2017	-	30.70	-		826.44	-	-	-	-
	11/12/2017	-	30.72	-		826.42	-	-	-	-
	10/21/2017	-	30.63	-		826.51	-	-	-	-
	9/10/2017	-	30.15	-		826.99	-	-	-	-
	9/6/2017	30.06	30.07	0.01		827.07	827.08	-	-	-
	8/12/2017	-	29.80	-		827.34	-	-	-	-
	7/2/2017	-	29.95	-		827.19	-	-	-	-
	6/26/2017	-	29.95	-		827.19	-	-	-	-
	6/4/2017	-	30.37	-		826.77	-	-	-	-
	5/4/2017	-	31.07	-		826.07	-	-	-	-
	4/6/2017	-	31.66	-		825.48	-	-	-	-
MW-28					844.31			-	-	-
	3/5/2018	-	21.65	-		822.66	-	-	-	-
	2/21/2018	-	22.33	-		821.98	-	-	-	-
	2/5/2018	-	22.60	-		821.71	-	-	-	-
	2/3/2018	-	24.21	-		820.10	-	-	-	-
	1/8/2018	-	24.15	-		820.16	-	-	-	-
	12/27/2017	-	24.55	-		819.76	-	-	-	-
	12/4/2017	-	23.94	-		820.37	-	-	-	-
	11/12/2017	-	24.74	-		819.57	-	-	-	-
	11/7/2017	-	23.78	-		820.53	-	-	-	-
	10/21/2017	-	23.99	-		820.32	-	-	-	-
	10/3/2017	-	23.80	-		820.51	-	-	-	-
	9/10/2017	-	25.04	-		819.27	-	-	-	-
	9/6/2017	-	23.48	-		820.83	-	-	-	-
	8/12/2017	-	23.50	-		820.81	-	-	-	-
	8/1/2017	-	23.04	-		821.27	-	-	-	-
	7/2/2017	-	22.45	-		821.86	-	-	-	-
	6/26/2017	-	22.63	-		821.68	-	-	-	-
	6/4/2017	-	22.52	-		821.79	-	-	-	-
	5/4/2017	-	22.88	-		821.43	-	-	-	-
	5/3/2017	-	22.86	-		821.45	-	-	-	-
	4/26/2017	-	23.61	-		820.70	-	-	-	-
	4/6/2017	-	25.49	-		818.82	-	-	-	-
	4/3/2017	-	25.69	-		818.62	-	-	-	-
MW-29					852.20			-	-	-
	3/5/2018	-	4.20	-		848.00	-	-	-	-
	2/21/2018	-	6.30	-		845.90	-	-	-	-
	2/5/2018	-	7.80	-		844.40	-	-	-	-
	2/3/2018	-	9.18	-		843.02	-	-	-	-
	1/8/2018	-	10.36	-		841.84	-	-	-	-
	12/27/2017	-	10.06	-		842.14	-	-	-	-
	12/4/2017	-	10.39	-		841.81	-	-	-	-
	11/12/2017	-	NM	-		-	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-29 (cont'd)	11/7/2017	-	10.06	-		842.14	-	-	-	-
	10/21/2017	-	11.23	-		840.97	-	-	-	-
	10/3/2017	-	10.85	-		841.35	-	-	-	-
	9/10/2017	-	10.50	-		841.70	-	-	-	-
	9/6/2017	-	10.41	-		841.79	-	-	-	-
	8/12/2017	-	9.65	-		842.55	-	-	-	-
	8/1/2017	-	9.32	-		842.88	-	-	-	-
	7/2/2017	-	8.02	-		844.18	-	-	-	-
	6/26/2017	-	7.68	-		844.52	-	-	-	-
	6/4/2017	-	7.71	-		844.49	-	-	-	-
	5/4/2017	-	8.32	-		843.88	-	-	-	-
	5/3/2017	-	8.39	-		843.81	-	-	-	-
	4/26/2017	-	7.77	-		844.43	-	-	-	-
	4/6/2017	-	10.11	-		842.09	-	-	-	-
	4/3/2017	-	10.95	-		841.25	-	-	-	-
MW-30					841.28			-	-	-
	3/5/2018	-	11.43	-		829.85	-	-	-	-
	2/21/2018	-	12.17	-		829.11	-	-	-	-
	2/5/2018	-	13.11	-		828.17	-	-	-	-
	2/3/2018	-	13.49	-		827.79	-	-	-	-
	1/8/2018	-	14.59	-		826.69	-	-	-	-
	12/27/2017	-	14.55	-		826.73	-	-	-	-
	12/4/2017	-	14.47	-		826.81	-	-	-	-
	11/12/2017	-	14.52	-		826.76	-	-	-	-
	11/7/2017	-	14.60	-		826.68	-	-	-	-
	10/21/2017	-	14.55	-		826.73	-	-	-	-
	10/3/2017	-	14.58	-		826.70	-	-	-	-
	9/10/2017	-	14.45	-		826.83	-	-	-	-
	9/6/2017	-	14.56	-		826.72	-	-	-	-
	8/12/2017	-	13.48	-		827.80	-	-	-	-
	8/1/2017	-	13.25	-		828.03	-	-	-	-
	7/2/2017	-	12.52	-		828.76	-	-	-	-
	6/26/2017	-	12.06	-		829.22	-	-	-	-
	6/4/2017	-	11.79	-		829.49	-	-	-	-
	5/4/2017	-	13.65	-		827.63	-	-	-	-
	5/3/2017	-	13.66	-		827.62	-	-	-	-
	4/6/2017	-	14.51	-		826.77	-	-	-	-
MW-31					845.04			-	-	-
	3/5/2018	-	18.01	-		827.03	-	-	-	-
	2/21/2018	-	18.54	-		826.50	-	-	-	-
	2/5/2018	-	18.90	-		826.14	-	-	-	-
	2/3/2018	-	19.23	-		825.81	-	-	-	-
	1/8/2018	-	22.55	-		822.49	-	-	-	-
	12/27/2017	-	22.35	-		822.69	-	-	-	-
	12/4/2017	-	20.05	-		824.99	-	-	-	-
	11/12/2017	-	20.41	-		824.63	-	-	-	-
	11/7/2017	-	20.81	-		824.23	-	-	-	-
	10/21/2017	-	21.73	-		823.31	-	-	-	-
	10/3/2017	-	22.70	-		822.34	-	-	-	-
	9/10/2017	-	20.26	-		824.78	-	-	-	-
	9/6/2017	-	20.35	-		824.69	-	-	-	-
	8/12/2017	-	20.10	-		824.94	-	-	-	-
	8/1/2017	-	18.98	-		826.06	-	-	-	-
	7/2/2017	-	18.11	-		826.93	-	-	-	-
	6/26/2017	-	17.75	-		827.29	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-31 (cont'd)	6/4/2017	-	17.75	-		827.29	-	-	-	-
	5/4/2017	-	19.85	-		825.19	-	-	-	-
	5/3/2017	-	19.99	-		825.05	-	-	-	-
	4/6/2017	-	21.45	-		823.59	-	-	-	-
MW-31B					844.94			-	-	-
	3/5/2018	-	18.81	-		826.13	-	-	-	-
	2/21/2018	-	19.13	-		825.81	-	-	-	-
	2/3/2018	-	20.25	-		824.69	-	-	-	-
	12/27/2017	-	21.10	-		823.84	-	-	-	-
	11/12/2017	-	21.05	-		823.89	-	-	-	-
	10/21/2017	-	22.21	-		822.73	-	-	-	-
	9/10/2017	-	20.32	-		824.62	-	-	-	-
	9/6/2017	-	20.34	-		824.60	-	-	-	-
	8/12/2017	-	19.71	-		825.23	-	-	-	-
	7/2/2017	-	18.36	-		826.58	-	-	-	-
	6/26/2017	-	18.33	-		826.61	-	-	-	-
	6/4/2017	-	18.45	-		826.49	-	-	-	-
	5/4/2017	-	20.45	-		824.49	-	-	-	-
	4/6/2017	-	21.73	-		823.21	-	-	-	-
MW-32					842.93			-	-	-
	3/5/2018	-	6.82	-		836.11	-	-	-	-
	2/21/2018	-	6.32	-		836.61	-	-	-	-
	2/3/2018	-	6.73	-		836.20	-	-	-	-
	12/27/2017	-	18.85	-		824.08	-	-	-	-
	12/4/2017	-	10.02	-		832.91	-	-	-	-
	11/12/2017	-	10.45	-		832.48	-	-	-	-
	10/21/2017	-	14.27	-		828.66	-	-	-	-
	9/10/2017	-	11.51	-		831.42	-	-	-	-
	9/6/2017	-	12.32	-		830.61	-	-	-	-
	8/12/2017	-	12.08	-		830.85	-	-	-	-
	7/2/2017	-	8.98	-		833.95	-	-	-	-
	6/26/2017	-	7.56	-		835.37	-	-	-	-
	6/4/2017	-	7.30	-		835.63	-	-	-	-
	5/4/2017	-	11.77	-		831.16	-	-	-	-
	4/6/2017	-	13.60	-		829.33	-	-	-	-
MW-33					849.20			-	-	-
	3/5/2018	-	23.89	-		825.31	-	-	-	-
	2/21/2018	-	24.31	-		824.89	-	-	-	-
	2/3/2018	-	25.17	-		824.03	-	-	-	-
	12/27/2017	-	26.35	-		822.85	-	-	-	-
	11/12/2017	-	26.15	-		823.05	-	-	-	-
	10/21/2017	-	26.80	-		822.40	-	-	-	-
	9/10/2017	-	25.35	-		823.85	-	-	-	-
	9/6/2017	-	25.30	-		823.90	-	-	-	-
	8/12/2017	-	24.80	-		824.40	-	-	-	-
	7/2/2017	-	23.90	-		825.30	-	-	-	-
	6/26/2017	-	23.86	-		825.34	-	-	-	-
	6/4/2017	-	24.21	-		824.99	-	-	-	-
	5/4/2017	-	25.69	-		823.51	-	-	-	-
	4/6/2017	-	26.67	-		822.53	-	-	-	-
MW-33T					849.11			-	-	-
	3/5/2018	-	25.23	-		823.88	-	-	-	-
	2/21/2018	-	25.60	-		823.51	-	-	-	-
	2/3/2018	-	26.44	-		822.67	-	-	-	-
	12/27/2017	-	27.60	-		821.51	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-33T (cont'd)	12/4/2017	-	27.12	-		821.99	-	-	-	-
	11/12/2017	-	27.47	-		821.64	-	-	-	-
	10/21/2017	-	27.89	-		821.22	-	-	-	-
	9/10/2017	-	26.75	-		822.36	-	-	-	-
	9/6/2017	-	26.71	-		822.40	-	-	-	-
	8/12/2017	-	26.20	-		822.91	-	-	-	-
	7/2/2017	-	25.55	-		823.56	-	-	-	-
	6/26/2017	-	25.49	-		823.62	-	-	-	-
	6/4/2017	-	25.75	-		823.36	-	-	-	-
	5/4/2017	-	27.00	-		822.11	-	-	-	-
	4/6/2017	-	27.93	-		821.18	-	-	-	-
MW-34					816.35			-	-	-
	3/5/2018	-	2.23	-		814.12	-	-	-	-
	2/21/2018	-	2.28	-		814.07	-	-	-	-
	2/5/2018	-	2.27	-		814.08	-	-	-	-
	2/3/2018	-	2.37	-		813.98	-	-	-	-
	1/8/2018	-	2.48	-		813.87	-	-	-	-
	12/27/2017	-	2.43	-		813.92	-	-	-	-
	12/4/2017	-	2.52	-		813.83	-	-	-	-
	11/7/2017	-	2.48	-		813.87	-	-	-	-
	10/21/2017	-	2.62	-		813.73	-	-	-	-
	10/3/2017	-	2.76	-		813.59	-	-	-	-
	9/10/2017	-	2.61	-		813.74	-	-	-	-
	9/6/2017	-	2.53	-		813.82	-	-	-	-
	8/12/2017	-	NM	-		-	-	-	-	-
	8/1/2017	-	2.62	-		813.73	-	-	-	-
	7/2/2017	-	NM	-		-	-	-	-	-
	6/26/2017	-	7.43	-		808.92	-	-	-	-
	6/4/2017	-	NM	-		-	-	-	-	-
	5/4/2017	-	NM	-		-	-	-	-	-
	5/3/2017	-	2.55	-		813.80	-	-	-	-
	4/6/2017	-	2.50	-		813.85	-	-	-	-
MW-35					829.40			-	-	-
	3/5/2018	-	8.33	-		821.07	-	-	-	-
	2/21/2018	-	8.12	-		821.28	-	-	-	-
	2/5/2018	-	9.00	-		820.40	-	-	-	-
	2/3/2018	-	8.18	-		821.22	-	-	-	-
	1/8/2018	-	10.57	-		818.83	-	-	-	-
	12/27/2017	-	8.62	-		820.78	-	-	-	-
	12/4/2017	-	10.41	-		818.99	-	-	-	-
	11/12/2017	-	7.61	-		821.79	-	-	-	-
	11/7/2017	-	8.94	-		820.46	-	-	-	-
	10/21/2017	-	9.98	-		819.42	-	-	-	-
	10/3/2017	-	10.34	-		819.06	-	-	-	-
	9/10/2017	-	8.98	-		820.42	-	-	-	-
	9/6/2017	-	9.74	-		819.66	-	-	-	-
	8/12/2017	-	9.45	-		819.95	-	-	-	-
	8/1/2017	-	10.23	-		819.17	-	-	-	-
	7/2/2017	-	7.90	-		821.50	-	-	-	-
	6/26/2017	-	9.68	-		819.72	-	-	-	-
	6/4/2017	-	7.93	-		821.47	-	-	-	-
	5/4/2017	-	8.82	-		820.58	-	-	-	-
	5/3/2017	-	9.08	-		820.32	-	-	-	-
	4/26/2017	-	8.28	-		821.12	-	-	-	-
	4/6/2017	-	8.43	-		820.97	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-35 (cont'd)	4/3/2017	-	9.44	-		819.96	-	-	-	-
MW-36					858.47			-	-	-
	3/5/2018	-	18.11	-		840.36	-	-	-	-
	2/21/2018	-	18.76	-		839.71	-	-	-	-
	2/3/2018	-	19.69	-		838.78	-	-	-	-
	12/27/2017	-	19.98	-		838.49	-	-	-	-
	12/4/2017	-	20.14	-		838.33	-	-	-	-
	11/17/2017	-	20.21	-		838.26	-	-	-	-
	10/21/2017	-	20.55	-		837.92	-	-	-	-
	9/10/2017	-	19.89	-		838.58	-	-	-	-
	9/6/2017	-	19.82	-		838.65	-	-	-	-
	8/12/2017	-	19.22	-		839.25	-	-	-	-
	7/2/2017	-	19.09	-		839.38	-	-	-	-
	6/29/2017	-	19.19	-		839.28	-	-	-	-
	6/26/2017	-	NM	-		-	-	-	-	-
	6/4/2017	-	19.80	-		838.67	-	-	-	-
	5/4/2017	-	20.69	-		837.78	-	-	-	-
	4/6/2017	-	21.55	-		836.92	-	-	-	-
MW-36B					858.15			-	-	-
	3/5/2018	-	17.81	-		840.34	-	-	-	-
	2/21/2018	-	18.46	-		839.69	-	-	-	-
	2/3/2018	-	19.43	-		838.72	-	-	-	-
	12/27/2017	-	19.68	-		838.47	-	-	-	-
	12/4/2017	-	20.90	-		837.25	-	-	-	-
	11/17/2017	-	19.92	-		838.23	-	-	-	-
	10/21/2017	-	20.25	-		837.90	-	-	-	-
	9/10/2017	-	19.60	-		838.55	-	-	-	-
	9/6/2017	-	19.53	-		838.62	-	-	-	-
	8/12/2017	-	18.95	-		839.20	-	-	-	-
	7/2/2017	-	18.77	-		839.38	-	-	-	-
	6/29/2017	-	18.90	-		839.25	-	-	-	-
	6/26/2017	-	NM	-		-	-	-	-	-
	6/4/2017	-	19.48	-		838.67	-	-	-	-
	5/4/2017	-	20.38	-		837.77	-	-	-	-
	4/6/2017	-	21.26	-		836.89	-	-	-	-
MW-37					813.92			-	-	-
	3/5/2018	-	3.28	-		810.64	-	-	-	-
	2/21/2018	-	3.34	-		810.58	-	-	-	-
	2/3/2018	-	3.39	-		810.53	-	-	-	-
	12/27/2017	-	3.41	-		810.51	-	-	-	-
	12/4/2017	-	3.47	-		810.45	-	-	-	-
	11/17/2017	-	3.42	-		810.50	-	-	-	-
	10/21/2017	-	3.64	-		810.28	-	-	-	-
	9/10/2017	-	3.50	-		810.42	-	-	-	-
	9/6/2017	-	3.46	-		810.46	-	-	-	-
	8/12/2017	-	3.55	-		810.37	-	-	-	-
	7/2/2017	-	3.49	-		810.43	-	-	-	-
	6/26/2017	-	3.42	-		810.50	-	-	-	-
	6/5/2017	-	3.46	-		810.46	-	-	-	-
	6/4/2017	-	NM	-		-	-	-	-	-
	5/4/2017	-	3.48	-		810.44	-	-	-	-
	4/6/2017	-	3.28	-		810.64	-	-	-	-
MW-38					813.28			-	-	-
	3/5/2018	-	1.25	-		812.03	-	-	-	-
	2/21/2018	-	1.69	-		811.59	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-38 (cont'd)	2/5/2018	-	1.58	-		811.70	-	-	-	-
	2/3/2018	-	1.84	-		811.44	-	-	-	-
	1/8/2018	-	1.95	-		811.33	-	-	-	-
	12/27/2017	-	1.91	-		811.37	-	-	-	-
	12/4/2017	-	2.01	-		811.27	-	-	-	-
	11/17/2017	-	1.87	-		811.41	-	-	-	-
	11/7/2017	-	1.88	-		811.40	-	-	-	-
	10/21/2017	-	2.19	-		811.09	-	-	-	-
	10/3/2017	-	2.23	-		811.05	-	-	-	-
	9/10/2017	-	1.99	-		811.29	-	-	-	-
	9/6/2017	-	1.88	-		811.40	-	-	-	-
	8/12/2017	-	2.05	-		811.23	-	-	-	-
	8/1/2017	-	2.10	-		811.18	-	-	-	-
	7/2/2017	-	1.83	-		811.45	-	-	-	-
	6/26/2017	-	1.80	-		811.48	-	-	-	-
	6/5/2017	-	1.86	-		811.42	-	-	-	-
	6/4/2017	-	NM	-		-	-	-	-	-
	5/4/2017	-	1.88	-		811.40	-	-	-	-
	5/3/2017	-	1.89	-		811.39	-	-	-	-
	4/6/2017	-	1.52	-		811.76	-	-	-	-
MW-39					819.90			-	-	-
	3/5/2018	-	4.66	-		815.24	-	-	-	-
	2/21/2018	-	5.29	-		814.61	-	-	-	-
	2/5/2018	-	4.85	-		815.05	-	-	-	-
	2/3/2018	-	5.22	-		814.68	-	-	-	-
	1/8/2018	-	4.86	-		815.04	-	-	-	-
	12/27/2017	-	5.39	-		814.51	-	-	-	-
	12/4/2017	-	5.72	-		814.18	-	-	-	-
	11/12/2017	-	6.25	-		813.65	-	-	-	-
	11/7/2017	-	4.89	-		815.01	-	-	-	-
	10/21/2017	-	5.46	-		814.44	-	-	-	-
	10/3/2017	-	3.75	-		816.15	-	-	-	-
	9/10/2017	-	6.04	-		813.86	-	-	-	-
	9/6/2017	-	5.50	-		814.40	-	-	-	-
	8/12/2017	-	5.15	-		814.75	-	-	-	-
	8/1/2017	-	3.81	-		816.09	-	-	-	-
	7/2/2017	-	5.57	-		814.33	-	-	-	-
	6/26/2017	-	4.13	-		815.77	-	-	-	-
	6/4/2017	-	4.85	-		815.05	-	-	-	-
	5/4/2017	-	5.21	-		814.69	-	-	-	-
	4/26/2017	-	5.09	-		814.81	-	-	-	-
	4/6/2017	-	4.83	-		815.07	-	-	-	-
	4/3/2017	-	5.34	-		814.56	-	-	-	-
MW-40					817.79			-	-	-
	3/5/2018	-	2.44	-		815.35	-	-	-	-
	2/21/2018	-	2.95	-		814.84	-	-	-	-
	2/5/2018	-	2.75	-		815.04	-	-	-	-
	2/3/2018	-	2.63	-		815.16	-	-	-	-
	1/8/2018	-	2.72	-		815.07	-	-	-	-
	12/27/2017	-	2.72	-		815.07	-	-	-	-
	12/4/2017	-	3.43	-		814.36	-	-	-	-
	11/12/2017	-	3.53	-		814.26	-	-	-	-
	11/7/2017	-	2.11	-		815.68	-	-	-	-
	10/21/2017	-	2.87	-		814.92	-	-	-	-
	10/3/2017	-	1.95	-		815.84	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-40 (cont'd)	9/10/2017	-	3.22	-		814.57	-	-	-	-
	9/6/2017	-	2.88	-		814.91	-	-	-	-
	8/12/2017	-	2.53	-		815.26	-	-	-	-
	8/1/2017	-	1.97	-		815.82	-	-	-	-
	7/2/2017	-	2.95	-		814.84	-	-	-	-
	6/26/2017	-	2.03	-		815.76	-	-	-	-
	6/4/2017	-	3.13	-		814.66	-	-	-	-
	5/4/2017	-	2.35	-		815.44	-	-	-	-
	4/6/2017	-	2.61	-		815.18	-	-	-	-
MW-41					819.68			-	-	-
	3/5/2018	-	3.94	-		815.74	-	-	-	-
	2/21/2018	-	4.25	-		815.43	-	-	-	-
	2/5/2018	-	3.82	-		815.86	-	-	-	-
	2/3/2018	-	4.38	-		815.30	-	-	-	-
	1/8/2018	-	4.40	-		815.28	-	-	-	-
	12/27/2017	-	4.47	-		815.21	-	-	-	-
	12/4/2017	-	5.55	-		814.13	-	-	-	-
	11/12/2017	-	4.50	-		815.18	-	-	-	-
	11/7/2017	-	4.39	-		815.29	-	-	-	-
	10/21/2017	-	4.55	-		815.13	-	-	-	-
	10/3/2017	-	4.37	-		815.31	-	-	-	-
	9/10/2017	-	4.64	-		815.04	-	-	-	-
	9/6/2017	-	4.49	-		815.19	-	-	-	-
	8/12/2017	-	4.53	-		815.15	-	-	-	-
	8/1/2017	-	4.33	-		815.35	-	-	-	-
	7/2/2017	-	3.98	-		815.70	-	-	-	-
	6/26/2017	-	3.79	-		815.89	-	-	-	-
	6/4/2017	-	4.00	-		815.68	-	-	-	-
	5/4/2017	-	3.95	-		815.73	-	-	-	-
	4/26/2017	-	3.85	-		815.83	-	-	-	-
	4/6/2017	-	3.85	-		815.83	-	-	-	-
	4/3/2017	-	4.07	-		815.61	-	-	-	-
MW-42					820.33			-	-	-
	3/5/2018	-	4.86	-		815.47	-	-	-	-
	2/21/2018	-	5.60	-		814.73	-	-	-	-
	2/3/2018	-	5.12	-		815.21	-	-	-	-
	12/27/2017	-	5.14	-		815.19	-	-	-	-
	12/4/2017	-	5.26	-		815.07	-	-	-	-
	11/12/2017	-	5.10	-		815.23	-	-	-	-
	11/7/2017	-	5.10	-		815.23	-	-	-	-
	10/21/2017	-	5.22	-		815.11	-	-	-	-
	9/10/2017	-	5.24	-		815.09	-	-	-	-
	9/6/2017	-	5.16	-		815.17	-	-	-	-
	8/12/2017	-	5.19	-		815.14	-	-	-	-
	7/2/2017	-	4.53	-		815.80	-	-	-	-
	6/26/2017	-	4.46	-		815.87	-	-	-	-
	6/4/2017	-	4.57	-		815.76	-	-	-	-
	5/4/2017	-	4.50	-		815.83	-	-	-	-
	4/6/2017	-	4.55	-		815.78	-	-	-	-
MW-43					818.12			-	-	-
	3/5/2018	-	3.90	-		814.22	-	-	-	-
	2/21/2018	-	4.11	-		814.01	-	-	-	-
	2/5/2018	-	3.70	-		814.42	-	-	-	-
	2/3/2018	-	4.15	-		813.97	-	-	-	-
	1/8/2018	-	4.35	-		813.77	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-43 (cont'd)	12/27/2017	-	4.30	-		813.82	-	-	-	-
	12/4/2017	-	4.50	-		813.62	-	-	-	-
	11/10/2017	-	4.31	-		813.81	-	-	-	-
	11/7/2017	-	4.45	-		813.67	-	-	-	-
	10/21/2017	-	5.20	-		812.92	-	-	-	-
MW-43B					818.80			-	-	-
	3/5/2018	-	1.21	-		817.59	-	-	-	-
	2/21/2018	-	1.51	-		817.29	-	-	-	-
	2/3/2018	-	2.10	-		816.70	-	-	-	-
	12/27/2017	-	2.12	-		816.68	-	-	-	-
	12/4/2017	-	4.08	-		814.72	-	-	-	-
	11/10/2017	-	18.33	-		800.47	-	-	-	-
	10/21/2017	-	47.05	-		771.75	-	-	-	-
MW-44					853.67			-	-	-
	3/5/2018	-	4.80	-		848.87	-	-	-	-
	2/21/2018	-	5.97	-		847.70	-	-	-	-
	2/3/2018	-	8.63	-		845.04	-	-	-	-
	12/27/2017	-	9.38	-		844.29	-	-	-	-
	12/4/2017	-	9.40	-		844.27	-	-	-	-
	10/21/2017	-	9.32	-		844.35	-	-	-	-
	9/10/2017	-	9.35	-		844.32	-	-	-	-
	9/6/2017	-	9.38	-		844.29	-	-	-	-
	8/12/2017	-	9.30	-		844.37	-	-	-	-
	7/2/2017	-	7.80	-		845.87	-	-	-	-
	6/26/2017	-	7.36	-		846.31	-	-	-	-
	6/4/2017	-	7.28	-		846.39	-	-	-	-
	5/4/2017	-	7.78	-		845.89	-	-	-	-
	4/6/2017	-	8.09	-		845.58	-	-	-	-
MW-44B					853.38			-	-	-
	3/5/2018	-	12.10	-		841.28	-	-	-	-
	2/21/2018	-	12.65	-		840.73	-	-	-	-
	2/3/2018	-	14.25	-		839.13	-	-	-	-
	12/27/2017	-	14.55	-		838.83	-	-	-	-
	12/4/2017	-	14.32	-		839.06	-	-	-	-
	10/21/2017	-	14.70	-		838.68	-	-	-	-
	9/10/2017	-	14.15	-		839.23	-	-	-	-
	9/6/2017	-	13.95	-		839.43	-	-	-	-
	8/12/2017	-	13.28	-		840.10	-	-	-	-
	7/2/2017	-	12.62	-		840.76	-	-	-	-
	6/26/2017	-	12.45	-		840.93	-	-	-	-
	6/4/2017	-	12.54	-		840.84	-	-	-	-
	5/4/2017	-	13.45	-		839.93	-	-	-	-
	4/6/2017	-	15.15	-		838.23	-	-	-	-
MW-45					852.47			-	-	-
	3/5/2018	-	12.31	-		840.16	-	-	-	-
	2/21/2018	-	12.91	-		839.56	-	-	-	-
	2/5/2018	-	13.95	-		838.52	-	-	-	-
	2/3/2018	-	14.23	-		838.24	-	-	-	-
	1/8/2018	-	14.25	-		838.22	-	-	-	-
	12/27/2017	-	14.21	-		838.26	-	-	-	-
	12/4/2017	-	14.22	-		838.25	-	-	-	-
	11/7/2017	-	14.24	-		838.23	-	-	-	-
	10/21/2017	-	14.21	-		838.26	-	-	-	-
	10/3/2017	-	14.25	-		838.22	-	-	-	-
	9/10/2017	-	14.21	-		838.26	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-45 (cont'd)	9/6/2017	-	14.19	-		838.28	-	-	-	-
	8/12/2017	-	14.05	-		838.42	-	-	-	-
	8/1/2017	-	13.84	-		838.63	-	-	-	-
	7/2/2017	-	13.40	-		839.07	-	-	-	-
	6/26/2017	-	13.38	-		839.09	-	-	-	-
	6/4/2017	-	13.48	-		838.99	-	-	-	-
	5/4/2017	-	13.92	-		838.55	-	-	-	-
	5/3/2017	-	14.00	-		838.47	-	-	-	-
	4/6/2017	-	14.23	-		838.24	-	-	-	-
MW-45B					852.85			-	-	-
	3/5/2018	-	14.65	-		838.20	-	-	-	-
	2/21/2018	-	14.99	-		837.86	-	-	-	-
	2/3/2018	-	15.63	-		837.22	-	-	-	-
	12/27/2017	-	15.88	-		836.97	-	-	-	-
	12/4/2017	-	15.93	-		836.92	-	-	-	-
	10/21/2017	-	16.09	-		836.76	-	-	-	-
	9/10/2017	-	15.72	-		837.13	-	-	-	-
	9/6/2017	-	15.70	-		837.15	-	-	-	-
	8/12/2017	-	15.33	-		837.52	-	-	-	-
	7/2/2017	-	15.41	-		837.44	-	-	-	-
	6/26/2017	-	15.35	-		837.50	-	-	-	-
	6/4/2017	-	15.75	-		837.10	-	-	-	-
	5/4/2017	-	16.53	-		836.32	-	-	-	-
	4/6/2017	-	18.15	-		834.70	-	-	-	-
MW-46					845.47			-	-	-
	3/5/2018	-	6.33	-		839.14	-	-	-	-
	2/21/2018	-	7.08	-		838.39	-	-	-	-
	2/3/2018	-	8.35	-		837.12	-	-	-	-
	12/27/2017	-	9.11	-		836.36	-	-	-	-
	12/4/2017	-	9.48	-		835.99	-	-	-	-
	11/12/2017	-	9.53	-		835.94	-	-	-	-
	11/10/2017	-	9.57	-		835.90	-	-	-	-
MW-47					842.98			-	-	-
	3/5/2018	-	14.74	-		828.24	-	-	-	-
	2/21/2018	-	15.50	-		827.48	-	-	-	-
	2/3/2018	-	16.38	-		826.60	-	-	-	-
	12/27/2017	-	19.92	-		823.06	-	-	-	-
	12/4/2017	-	17.75	-		825.23	-	-	-	-
	11/17/2017	-	17.85	-		825.13	-	-	-	-
	11/10/2017	-	17.85	-		825.13	-	-	-	-
	10/21/2017	-	19.27	-		823.71	-	-	-	-
MW-48B					832.34			-	-	-
	3/5/2018	-	15.70	-		816.64	-	-	-	-
	2/21/2018	-	17.12	-		815.22	-	-	-	-
	2/3/2018	-	17.90	-		814.44	-	-	-	-
	12/27/2017	-	18.17	-		814.17	-	-	-	-
	12/4/2017	-	18.22	-		814.12	-	-	-	-
	11/12/2017	-	8.51	-		823.83	-	-	-	-
	11/10/2017	-	18.74	-		813.60	-	-	-	-
MW-49					846.78			-	-	-
	3/5/2018	-	17.68	-		829.10	-	-	-	-
	2/21/2018	-	18.52	-		828.26	-	-	-	-
	2/3/2018	-	19.87	-		826.91	-	-	-	-
	12/27/2017	-	20.18	-		826.60	-	-	-	-
	12/4/2017	-	20.29	-		826.49	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-49 (cont'd)	11/12/2017	-	20.47	-		826.31	-	-	-	-
	11/10/2017	-	20.47	-		826.31	-	-	-	-
MW-50B					850.34			-	-	-
	3/5/2018	-	19.10	-		831.24	-	-	-	-
	2/21/2018	-	19.51	-		830.83	-	-	-	-
	2/3/2018	-	20.45	-		829.89	-	-	-	-
	12/27/2017	-	23.82	-		826.52	-	-	-	-
	12/4/2017	-	21.37	-		828.97	-	-	-	-
	11/12/2017	-	21.66	-		828.68	-	-	-	-
	11/10/2017	-	21.42	-		828.92	-	-	-	-
RS-01					849.13			-	-	-
	3/5/2018	7.38	7.42	0.04		841.71	841.74	-	-	-
	2/21/2018	8.45	8.52	0.07		840.61	840.66	-	-	-
	2/13/2018	8.05	8.11	0.06		841.02	841.06	-	-	-
	2/9/2018	8.93	9.01	0.08		840.12	840.18	-	-	-
	2/2/2018	-	NM	-		-	-	-	-	-
	12/27/2017	13.58	14.00	0.42		835.13	835.44	1/2/2018	10:23	10:28
	11/12/2017	11.77	12.20	0.43		836.93	837.24	-	-	-
	10/21/2017	14.40	14.72	0.32		834.41	834.64	-	-	-
	9/10/2017	11.45	11.77	0.32		837.36	837.59	-	-	-
	8/21/2017	11.12	11.52	0.40		837.61	837.90	-	-	-
	8/17/2017	11.10	11.46	0.36		837.67	837.93	-	-	-
	8/14/2017	11.02	11.32	0.30		837.81	838.03	-	-	-
	8/9/2017	11.33	11.63	0.30		837.50	837.72	-	-	-
	8/2/2017	11.12	11.41	0.29		837.72	837.93	-	-	-
	7/31/2017	11.09	11.44	0.35		837.69	837.95	-	-	-
	7/27/2017	10.01	11.08	**1.07**		838.05	838.83	-	-	-
	7/24/2017	10.73	11.02	0.29		838.11	838.32	-	-	-
	7/20/2017	10.65	10.85	0.20		838.28	838.43	-	-	-
	7/17/2017	10.71	10.95	0.24		838.18	838.36	-	-	-
	7/13/2017	10.58	10.79	0.21		838.34	838.49	-	-	-
	7/10/2017	10.33	10.55	0.22		838.58	838.74	-	-	-
	7/6/2017	10.88	11.02	0.14		838.11	838.21	-	-	-
	7/3/2017	-	12.44	-		836.69	-	7/3/2017	10:20	10:31
	6/29/2017	10.19	10.30	0.11		838.83	838.91	-	-	-
	6/22/2017	11.75	11.85	0.10		837.28	837.35	6/24/2017	12:25	12:36
	6/19/2017	11.00	11.49	0.49		837.64	838.00	6/21/2017	13:01	13:09
	6/15/2017	10.86	11.29	0.43		837.84	838.15	6/16/2017	13:08	13:16
	6/12/2017	10.68	11.05	0.37		838.08	838.35	-	-	-
	6/9/2017	10.52	10.81	0.29		838.32	838.53	-	-	-
	6/5/2017	10.57	10.81	0.24		838.32	838.50	-	-	-
	6/2/2017	11.01	11.24	0.23		837.89	838.06	-	-	-
	5/31/2017	10.69	11.05	0.36		838.08	838.34	5/31/2017	14:51	14:59
	5/24/2017	11.25	11.53	0.28		837.60	837.80	-	-	-
	5/22/2017	12.62	12.92	0.30		836.21	836.43	-	-	-
	5/18/2017	12.24	12.40	0.16		836.73	836.85	-	-	-
	5/15/2017	12.39	12.75	0.36		836.38	836.64	5/16/2017	13:32	13:40
	5/11/2017	13.07	13.24	0.17		835.89	836.01	-	-	-
	5/7/2017	14.34	15.09	**0.75**		834.04	834.59	5/9/2017	8:52	9:17
	5/4/2017	14.40	14.95	**0.55**		834.18	834.58	-	-	-
	4/27/2017	15.46	15.96	0.50		833.17	833.54	-	-	-
	4/25/2017	16.16	16.58	0.42		832.55	832.86	-	-	-
	4/20/2017	16.62	16.92	0.30		832.21	832.43	-	-	-
	4/16/2017	16.69	17.20	**0.51**		831.93	832.30	4/17/2017	10:21	10:33
	4/13/2017	17.19	17.58	0.39		831.55	831.83	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-01 (cont'd)	4/10/2017	16.87	17.78	**0.91**		831.35	832.01	4/11/2017	12:49	12:58
	4/6/2017	17.65	18.36	**0.71**		830.77	831.29	-	-	-
	4/3/2017	17.90	18.30	0.40		830.83	831.12	-	-	-
RS-02					849.52			-	-	-
	3/5/2018	5.90	5.91	0.01		843.61	843.62	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/13/2018	6.78	6.80	0.02		842.72	842.73	-	-	-
	2/3/2018	9.94	9.96	0.02		839.56	839.57	-	-	-
	12/27/2017	12.11	12.15	0.04		837.37	837.40	-	-	-
	11/12/2017	11.27	11.37	0.10		838.15	838.22	-	-	-
	10/21/2017	14.25	14.32	0.07		835.20	835.25	-	-	-
	9/10/2017	11.17	11.37	0.20		838.15	838.30	-	-	-
	8/21/2017	11.14	11.48	0.34		838.04	838.29	-	-	-
	8/17/2017	11.14	11.43	0.29		838.09	838.30	-	-	-
	8/14/2017	11.16	11.42	0.26		838.10	838.29	-	-	-
	8/9/2017	11.20	11.43	0.23		838.09	838.26	-	-	-
	8/2/2017	10.80	11.12	0.32		838.40	838.63	-	-	-
	7/31/2017	10.72	11.06	0.34		838.46	838.71	-	-	-
	7/27/2017	10.42	10.76	0.34		838.76	839.01	-	-	-
	7/24/2017	10.20	10.47	0.27		839.05	839.25	-	-	-
	7/20/2017	10.08	10.32	0.24		839.20	839.38	-	-	-
	7/17/2017	10.36	10.61	0.25		838.91	839.09	-	-	-
	7/13/2017	10.21	10.48	0.27		839.04	839.24	-	-	-
	7/10/2017	9.98	10.38	0.40		839.14	839.43	-	-	-
	7/6/2017	10.07	10.30	0.23		839.22	839.39	-	-	-
	7/3/2017	10.60	10.80	0.20		838.72	838.87	7/3/2017	10:07	10:17
	6/29/2017	9.47	9.74	0.27		839.78	839.98	-	-	-
	6/22/2017	10.22	10.46	0.24		839.06	839.24	6/24/2017	12:10	12:19
	6/19/2017	10.50	10.95	0.45		838.57	838.90	6/21/2017	13:13	13:21
	6/15/2017	10.25	10.64	0.39		838.88	839.16	-	-	-
	6/12/2017	9.96	10.30	0.34		839.22	839.47	-	-	-
	6/9/2017	9.74	10.00	0.26		839.52	839.71	-	-	-
	6/5/2017	10.06	10.30	0.24		839.22	839.40	-	-	-
	6/2/2017	9.99	10.17	0.18		839.35	839.48	-	-	-
	5/31/2017	9.87	10.25	0.38		839.27	839.55	5/31/2017	14:41	14:48
	5/24/2017	10.31	10.57	0.26		838.95	839.14	-	-	-
	5/22/2017	11.87	12.13	0.26		837.39	837.58	-	-	-
	5/18/2017	11.77	12.05	0.28		837.47	837.67	-	-	-
	5/15/2017	11.86	12.12	0.26		837.40	837.59	-	-	-
	5/11/2017	12.10	12.27	0.17		837.25	837.37	-	-	-
	5/7/2017	13.11	13.33	0.22		836.19	836.35	-	-	-
	5/4/2017	13.02	13.25	0.23		836.27	836.44	-	-	-
	4/27/2017	13.32	13.49	0.17		836.03	836.15	-	-	-
	4/25/2017	14.64	14.81	0.17		834.71	834.83	-	-	-
	4/20/2017	15.37	15.64	0.27		833.88	834.08	-	-	-
	4/16/2017	15.23	15.52	0.29		834.00	834.21	-	-	-
	4/13/2017	15.15	15.43	0.28		834.09	834.29	-	-	-
	4/10/2017	15.15	15.50	0.35		834.02	834.28	-	-	-
	4/6/2017	16.70	17.10	0.40		832.42	832.71	-	-	-
	4/3/2017	17.15	17.60	0.45		831.92	832.25	-	-	-
RS-04					851.47			-	-	-
	3/5/2018	-	7.58	-		843.89	-	-	-	-
	2/21/2018	-	9.68	-		841.79	-	-	-	-
	2/3/2018	-	9.75	-		841.72	-	-	-	-
	12/27/2017	-	9.75	-		841.72	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-04 (cont'd)	11/12/2017	-	9.70	-		841.77	-	-	-	-
	10/21/2017	-	9.70	-		841.77	-	-	-	-
	9/10/2017	-	9.70	-		841.77	-	-	-	-
	8/21/2017	-	9.68	-		841.79	-	-	-	-
	8/17/2017	-	9.68	-		841.79	-	-	-	-
	8/14/2017	-	9.69	-		841.78	-	-	-	-
	8/9/2017	-	9.71	-		841.76	-	-	-	-
	8/2/2017	-	9.70	-		841.77	-	-	-	-
	7/31/2017	-	9.68	-		841.79	-	-	-	-
	7/27/2017	-	9.68	-		841.79	-	-	-	-
	7/24/2017	-	9.67	-		841.80	-	-	-	-
	7/20/2017	-	9.71	-		841.76	-	-	-	-
	7/17/2017	-	10.69	-		840.78	-	-	-	-
	7/13/2017	-	9.69	-		841.78	-	-	-	-
	7/10/2017	-	10.38	-		841.09	-	-	-	-
	7/6/2017	-	9.71	-		841.76	-	-	-	-
	7/3/2017	-	10.68	-		840.79	-	-	-	-
	6/29/2017	-	9.68	-		841.79	-	6/29/2017	12:47	12:56
	6/22/2017	-	9.68	-		841.79	-	-	-	-
	6/19/2017	-	9.70	-		841.77	-	-	-	-
	6/15/2017	-	9.67	-		841.80	-	-	-	-
	6/12/2017	-	9.67	-		841.80	-	-	-	-
	6/9/2017	-	9.68	-		841.79	-	-	-	-
	6/5/2017	-	9.67	-		841.80	-	-	-	-
	6/2/2017	-	9.66	-		841.81	-	-	-	-
	5/31/2017	-	9.67	-		841.80	-	-	-	-
	5/24/2017	-	9.30	-		842.17	-	-	-	-
	5/22/2017	-	8.80	-		842.67	-	-	-	-
	5/18/2017	-	9.68	-		841.79	-	-	-	-
	5/15/2017	-	9.69	-		841.78	-	-	-	-
	5/11/2017	9.68	10.25	**0.57**		841.22	841.64	-	-	-
	5/7/2017	-	9.72	-		841.75	-	-	-	-
	5/4/2017	-	9.70	-		841.77	-	-	-	-
	4/27/2017	-	9.70	-		841.77	-	-	-	-
	4/25/2017	-	8.38	-		843.09	-	-	-	-
	4/20/2017	9.70	9.71	0.01		841.76	841.77	-	-	-
	4/16/2017	9.71	9.72	0.01		841.75	841.76	-	-	-
	4/13/2017	-	9.71	-		841.76	-	-	-	-
	4/10/2017	9.67	9.68	0.01		841.79	841.80	-	-	-
	4/6/2017	-	8.48	-		842.99	-	4/7/2017	13:43	13:49
	4/3/2017	9.69	9.70	0.01		841.77	841.78	-	-	-
RS-05					848.31			-	-	-
	3/5/2018	7.32	7.47	0.15		840.84	840.95	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/13/2018	19.80	20.23	0.44		828.08	828.40	-	-	-
	2/9/2018	8.09	8.29	0.20		840.02	840.17	-	-	-
	2/2/2018	-	NM	-		-	-	-	-	-
	12/27/2017	12.50	13.15	**0.65**		835.16	835.63	1/2/2018	10:16	10:21
	11/12/2017	11.20	11.80	**0.60**		836.51	836.95	-	-	-
	10/21/2017	12.75	13.35	**0.60**		834.96	835.40	-	-	-
	9/10/2017	10.35	10.95	**0.60**		837.36	837.80	-	-	-
	8/21/2017	9.88	10.44	**0.56**		837.87	838.28	8/24/2017	8:35	8:40
	8/17/2017	10.14	10.61	0.47		837.70	838.04	8/17/2017	9:25	9:30
	8/14/2017	9.49	9.94	0.45		838.37	838.70	-	-	-
	8/9/2017	9.83	10.30	0.47		838.01	838.35	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-05 (cont'd)	8/2/2017	10.25	10.80	**0.55**		837.51	837.91	8/7/2017	9:35	9:40
	7/31/2017	10.31	10.89	**0.58**		837.42	837.84	-	-	-
	7/27/2017	10.08	10.59	**0.51**		837.72	838.09	-	-	-
	7/24/2017	10.19	10.70	**0.51**		837.61	837.98	-	-	-
	7/20/2017	10.07	10.55	0.48		837.76	838.11	7/20/2017	10:35	10:40
	7/17/2017	9.92	10.36	0.44		837.95	838.27	7/17/2017	10:20	10:25
	7/13/2017	9.86	10.26	0.40		838.05	838.34	-	-	-
	7/10/2017	9.65	10.08	0.43		838.23	838.54	-	-	-
	7/6/2017	10.49	10.89	0.40		837.42	837.71	-	-	-
	7/3/2017	10.23	10.60	0.37		837.71	837.98	-	-	-
	6/29/2017	10.02	10.42	0.40		837.89	838.18	6/29/2017	12:32	12:39
	6/22/2017	10.67	11.07	0.40		837.24	837.53	6/24/2017	11:51	11:59
	6/19/2017	10.58	10.99	0.41		837.32	837.62	-	-	-
	6/15/2017	10.82	11.20	0.38		837.11	837.39	-	-	-
	6/12/2017	10.94	11.22	0.28		837.09	837.29	-	-	-
	6/9/2017	10.51	10.95	0.44		837.36	837.68	6/11/2017	11:30	11:43
	6/5/2017	10.30	10.62	0.32		837.69	837.92	-	-	-
	6/2/2017	10.73	11.06	0.33		837.25	837.49	-	-	-
	5/31/2017	11.65	12.14	0.49		836.17	836.53	5/31/2017	14:31	14:39
	5/24/2017	10.41	10.75	0.34		837.56	837.81	-	-	-
	5/22/2017	11.80	12.18	0.38		836.13	836.41	-	-	-
	5/18/2017	11.33	11.61	0.28		836.70	836.90	-	-	-
	5/15/2017	11.66	12.12	0.46		836.19	836.53	5/16/2017	13:07	13:17
	5/11/2017	11.37	11.67	0.30		836.64	836.86	-	-	-
	5/7/2017	14.13	15.83	**1.70**		832.48	833.72	5/9/2017	9:21	9:37
	5/4/2017	14.22	15.80	**1.58**		832.51	833.66	-	-	-
	4/27/2017	15.01	16.34	**1.33**		831.97	832.94	-	-	-
	4/25/2017	15.38	16.63	**1.25**		831.68	832.59	-	-	-
	4/20/2017	15.90	16.85	**0.95**		831.46	832.15	-	-	-
	4/16/2017	16.17	16.80	**0.63**		831.51	831.97	-	-	-
	4/13/2017	16.57	16.95	0.38		831.36	831.64	-	-	-
	4/10/2017	16.42	17.00	**0.58**		831.31	831.73	4/11/2017	12:10	12:21
	4/6/2017	16.72	17.73	**1.01**		830.58	831.32	4/7/2017	13:09	13:32
	4/3/2017	16.99	17.75	**0.76**		830.56	831.11	-	-	-
RS-06					849.47			-	-	-
	3/5/2018	-	8.17	-		841.30	-	-	-	-
	2/21/2018	-	8.65	-		840.82	-	-	-	-
	2/3/2018	-	10.87	-		838.60	-	-	-	-
	12/27/2017	-	12.21	-		837.26	-	-	-	-
	11/12/2017	-	12.20	-		837.27	-	-	-	-
	10/21/2017	13.51	13.54	0.03		835.93	835.95	-	-	-
	9/10/2017	11.36	11.46	0.10		838.01	838.08	-	-	-
	8/21/2017	10.95	11.12	0.17		838.35	838.47	-	-	-
	8/17/2017	10.87	11.03	0.16		838.44	838.56	-	-	-
	8/14/2017	10.45	10.59	0.14		838.88	838.98	-	-	-
	8/9/2017	10.58	10.70	0.12		838.77	838.86	-	-	-
	8/2/2017	10.90	11.10	0.20		838.37	838.52	-	-	-
	7/31/2017	10.86	11.07	0.21		838.40	838.55	-	-	-
	7/27/2017	10.67	10.86	0.19		838.61	838.75	-	-	-
	7/24/2017	10.68	10.85	0.17		838.62	838.74	-	-	-
	7/20/2017	10.71	10.87	0.16		838.60	838.72	-	-	-
	7/17/2017	10.67	10.81	0.14		838.66	838.76	-	-	-
	7/13/2017	10.60	10.76	0.16		838.71	838.83	-	-	-
	7/10/2017	10.41	10.60	0.19		838.87	839.01	-	-	-
	7/6/2017	10.63	10.76	0.13		838.71	838.80	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-06 (cont'd)	7/3/2017	10.61	10.78	0.17		838.69	838.81	-	-	-
	6/29/2017	10.59	10.65	0.06		838.82	838.86	-	-	-
	6/22/2017	11.26	11.45	0.19		838.02	838.16	-	-	-
	6/19/2017	11.18	11.41	0.23		838.06	838.23	-	-	-
	6/15/2017	11.27	11.51	0.24		837.96	838.14	-	-	-
	6/12/2017	11.20	11.39	0.19		838.08	838.22	-	-	-
	6/9/2017	11.16	11.38	0.22		838.09	838.25	-	-	-
	6/5/2017	11.17	11.35	0.18		838.12	838.25	-	-	-
	6/2/2017	10.95	11.03	0.08		838.44	838.50	-	-	-
	5/31/2017	12.05	12.31	0.26		837.16	837.35	-	-	-
	5/24/2017	11.78	11.94	0.16		837.53	837.65	-	-	-
	5/22/2017	12.50	12.71	0.21		836.76	836.91	-	-	-
	5/18/2017	12.58	12.77	0.19		836.70	836.84	-	-	-
	5/15/2017	12.70	15.10	**2.40**		834.37	836.12	5/16/2017	13:20	13:29
	5/11/2017	12.34	12.49	0.15		836.98	837.09	-	-	-
	5/7/2017	14.88	15.38	0.50		834.09	834.46	5/9/2017	9:41	9:55
	5/4/2017	-	15.35	-		834.12	-	-	-	-
	4/27/2017	15.85	16.20	0.35		833.27	833.53	-	-	-
	4/25/2017	16.20	16.53	0.33		832.94	833.18	-	-	-
	4/20/2017	16.55	16.82	0.27		832.65	832.85	-	-	-
	4/16/2017	16.72	16.95	0.23		832.52	832.69	-	-	-
	4/13/2017	17.12	17.32	0.20		832.15	832.30	-	-	-
	4/10/2017	16.86	17.37	**0.51**		832.10	832.47	4/11/2017	12:24	12:32
	4/6/2017	17.27	17.74	0.47		831.73	832.07	-	-	-
	4/3/2017	17.47	17.89	0.42		831.58	831.89	-	-	-
RS-07					855.08			-	-	-
	3/5/2018	-	11.91	-		843.17	-	-	-	-
	2/21/2018	-	12.66	-		842.42	-	-	-	-
	2/3/2018	13.74	13.75	0.01		841.33	841.34	-	-	-
	1/26/2018	-	14.07	-		841.01	-	-	-	-
	1/20/2018	-	14.07	-		841.01	-	-	-	-
	1/10/2018	14.32	14.33	0.01		840.75	840.76	1/15/2018	9:45	9:50
	1/5/2018	14.15	14.16	0.01		840.92	840.93	-	-	-
	12/27/2017	-	14.06	-		841.02	-	-	-	-
	12/21/2017	-	14.17	0.13		840.91	841.01	12/22/2017	10:15	10:20
	12/13/2017	14.07	14.08	0.01		841.00	841.01	12/14/2017	10:05	10:10
	12/7/2017	14.11	14.12	0.01		840.96	840.97	-	-	-
	12/1/2017	-	14.05	-		841.03	-	-	-	-
	11/22/2017	-	13.83	-		841.25	-	-	-	-
	11/17/2017	-	14.81	-		840.27	-	-	-	-
	11/12/2017	-	13.87	-		841.21	-	-	-	-
	11/10/2017	-	13.76	-		841.32	-	11/9/2017	11:40	11:45
	11/3/2017	-	13.82	-		841.26	-	11/3/2017	9:10	9:15
	10/26/2017	14.03	14.04	0.01		841.04	841.05	10/25/2017	10:15	10:20
	10/21/2017	14.31	14.37	0.06		840.71	840.76	10/21/2017	9:15	9:20
	10/20/2017	14.26	14.32	0.06		840.76	840.81	-	-	-
	10/12/2017	14.19	14.25	0.06		840.83	840.88	10/10/2017	9:15	9:20
	10/6/2017	14.11	14.12	0.01		840.96	840.97	10/7/2017	11:40	11:45
	9/28/2017	13.92	13.95	0.03		841.13	841.15	9/28/2017	13:30	13:35
	9/21/2017	13.76	13.77	0.01		841.31	841.32	-	-	-
	9/15/2017	13.70	13.71	0.01		841.37	841.38	-	-	-
	9/10/2017	13.91	13.98	0.07		841.10	841.15	-	-	-
	9/5/2017	13.89	13.99	0.10		841.09	841.17	9/5/2017	8:25	8:30
	8/31/2017	13.81	13.90	0.09		841.18	841.25	-	-	-
	8/24/2017	13.60	13.70	0.10		841.38	841.46	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-07 (cont'd)	8/21/2017	13.58	13.69	0.11		841.39	841.47	-	-	-
	8/17/2017	13.46	13.54	0.08		841.54	841.60	-	-	-
	8/14/2017	13.39	13.48	0.09		841.60	841.67	-	-	-
	8/9/2017	14.30	14.37	0.07		840.71	840.76	-	-	-
	8/2/2017	13.01	13.10	0.09		841.98	842.05	-	-	-
	7/31/2017	12.99	13.07	0.08		842.01	842.07	-	-	-
	7/27/2017	12.87	12.94	0.07		842.14	842.19	-	-	-
	7/24/2017	12.83	12.91	0.08		842.17	842.23	-	-	-
	7/20/2017	12.80	12.88	0.08		842.20	842.26	-	-	-
	7/17/2017	12.73	12.78	0.05		842.30	842.34	-	-	-
	7/13/2017	12.71	12.76	0.05		842.32	842.36	-	-	-
	7/10/2017	12.55	12.57	0.02		842.51	842.53	-	-	-
	7/6/2017	12.63	12.65	0.02		842.43	842.45	-	-	-
	7/3/2017	12.54	12.55	0.01		842.53	842.54	-	-	-
	6/29/2017	-	12.55	-		842.53	-	-	-	-
	6/22/2017	-	12.62	-		842.46	-	-	-	-
	6/19/2017	12.73	12.76	0.03		842.32	842.34	-	-	-
	6/15/2017	12.70	12.71	0.01		842.37	842.38	-	-	-
	6/12/2017	12.71	12.75	0.04		842.33	842.36	-	-	-
	6/9/2017	12.75	12.76	0.01		842.32	842.33	-	-	-
	6/5/2017	-	12.81	-		842.27	-	-	-	-
	6/2/2017	-	12.91	-		842.17	-	-	-	-
	5/31/2017	-	13.00	-		842.08	-	-	-	-
	5/24/2017	-	13.16	-		841.92	-	-	-	-
	5/22/2017	13.31	13.32	0.01		841.76	841.77	-	-	-
	5/18/2017	13.52	13.56	0.04		841.52	841.55	-	-	-
	5/15/2017	13.50	13.56	0.06		841.52	841.57	-	-	-
	5/11/2017	-	13.49	-		841.59	-	-	-	-
	5/7/2017	13.61	13.62	0.01		841.46	841.47	-	-	-
	5/4/2017	13.76	13.78	0.02		841.30	841.32	-	-	-
	4/27/2017	-	14.01	-		841.07	-	-	-	-
	4/25/2017	14.01	14.02	0.01		841.06	841.07	-	-	-
	4/20/2017	14.45	14.50	0.05		840.58	840.62	-	-	-
	4/16/2017	14.62	14.64	0.02		840.44	840.46	-	-	-
	4/13/2017	14.64	14.66	0.02		840.42	840.44	-	-	-
	4/10/2017	14.66	14.68	0.02		840.40	840.42	4/11/2017	9:36	9:42
	4/6/2017	14.42	14.44	0.02		840.64	840.66	4/7/2017	14:10	14:11
	4/3/2017	14.95	14.97	0.02		840.11	840.13	-	-	-
RS-08					854.00			-	-	-
	3/5/2018	-	12.62	-		841.38	-	-	-	-
	2/21/2018	-	13.40	-		840.60	-	-	-	-
	2/13/2018	13.79	13.80	0.01		840.20	840.21	-	-	-
	2/3/2018	14.62	14.63	0.01		839.37	839.38	-	-	-
	1/26/2018	14.89	14.97	0.08		839.03	839.09	1/26/2018	9:05	9:10
	1/20/2018	14.72	14.78	0.06		839.22	839.26	-	-	-
	1/10/2018	14.68	14.75	0.07		839.25	839.30	1/15/2018	9:55	10:00
	1/5/2018	14.87	14.94	0.07		839.06	839.11	1/8/2018	11:51	11:56
	12/27/2017	14.90	15.00	0.10		839.00	839.07	1/2/2018	13:15	13:20
	12/21/2017	15.03	15.16	0.13		838.84	838.93	12/22/2017	10:25	10:30
	12/13/2017	14.94	15.02	0.08		838.98	839.04	12/14/2017	10:15	10:20
	12/7/2017	15.05	15.20	0.15		838.80	838.91	12/7/2017	9:40	9:45
	12/1/2017	14.83	14.95	0.12		839.05	839.14	-	-	-
	11/22/2017	14.75	14.90	0.15		839.10	839.21	11/22/2017	12:00	12:05
	11/17/2017	14.61	14.89	0.28		839.11	839.31	-	-	-
	11/12/2017	14.42	14.55	0.13		839.45	839.54	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-08 (cont'd)	11/10/2017	14.63	14.79	0.16		839.21	839.33	11/9/2017	11:30	11:35
	11/3/2017	14.57	14.71	0.14		839.29	839.39	11/3/2017	9:20	9:25
	10/26/2017	14.80	15.00	0.20		839.00	839.15	10/25/2017	10:25	10:30
	10/21/2017	14.97	15.24	0.27		838.76	838.96	10/21/2017	9:20	9:25
	10/20/2017	14.93	15.20	0.27		838.80	839.00	-	-	-
	10/12/2017	14.74	15.00	0.26		839.00	839.19	10/10/2017	9:20	9:25
	10/6/2017	14.64	14.81	0.17		839.19	839.31	10/7/2017	11:45	11:50
	9/28/2017	14.41	14.69	0.28		839.31	839.51	9/28/2017	13:35	13:40
	9/21/2017	14.23	14.42	0.19		839.58	839.72	-	-	-
	9/15/2017	14.21	14.41	0.20		839.59	839.74	-	-	-
	9/10/2017	14.39	14.68	0.29		839.32	839.53	-	-	-
	9/5/2017	14.31	14.58	0.27		839.42	839.62	9/5/2017	8:30	8:35
	8/31/2017	14.25	14.50	0.25		839.50	839.68	-	-	-
	8/24/2017	14.03	14.32	0.29		839.68	839.89	-	-	-
	8/21/2017	13.87	14.12	0.25		839.88	840.06	-	-	-
	8/17/2017	13.83	14.10	0.27		839.90	840.10	-	-	-
	8/14/2017	13.71	13.97	0.26		840.03	840.22	-	-	-
	8/9/2017	13.60	13.77	0.17		840.23	840.35	-	-	-
	8/2/2017	13.35	13.55	0.20		840.45	840.60	-	-	-
	7/31/2017	13.30	13.57	0.27		840.43	840.63	-	-	-
	7/27/2017	13.18	13.42	0.24		840.58	840.76	-	-	-
	7/24/2017	13.10	13.31	0.21		840.69	840.84	-	-	-
	7/20/2017	12.97	13.15	0.18		840.85	840.98	-	-	-
	7/17/2017	12.98	13.18	0.20		840.82	840.97	-	-	-
	7/13/2017	12.92	13.10	0.18		840.90	841.03	-	-	-
	7/10/2017	12.90	13.10	0.20		840.90	841.05	-	-	-
	7/6/2017	12.79	12.92	0.13		841.08	841.17	-	-	-
	7/3/2017	12.78	12.94	0.16		841.06	841.18	-	-	-
	6/29/2017	12.81	12.99	0.18		841.01	841.14	-	-	-
	6/22/2017	12.95	13.15	0.20		840.85	841.00	-	-	-
	6/19/2017	13.10	13.35	0.25		840.65	840.83	-	-	-
	6/15/2017	13.07	13.25	0.18		840.75	840.88	-	-	-
	6/12/2017	13.10	13.28	0.18		840.72	840.85	-	-	-
	6/9/2017	13.03	13.25	0.22		840.75	840.91	-	-	-
	6/5/2017	13.18	13.34	0.16		840.66	840.78	-	-	-
	6/2/2017	13.16	13.37	0.21		840.63	840.78	-	-	-
	5/31/2017	13.29	13.57	0.28		840.43	840.63	-	-	-
	5/24/2017	13.59	13.78	0.19		840.22	840.36	-	-	-
	5/22/2017	13.89	14.10	0.21		839.90	840.05	-	-	-
	5/18/2017	13.99	14.19	0.20		839.81	839.96	-	-	-
	5/15/2017	13.90	14.19	0.29		839.81	840.02	5/16/2017	12:42	12:51
	5/11/2017	13.96	14.20	0.24		839.80	839.98	-	-	-
	5/7/2017	14.01	14.20	0.19		839.80	839.94	-	-	-
	5/4/2017	13.97	14.24	0.27		839.76	839.96	-	-	-
	4/27/2017	14.37	14.87	0.50		839.13	839.50	4/28/2017	12:34	12:45
	4/25/2017	14.61	14.62	0.01		839.38	839.39	-	-	-
	4/20/2017	14.85	15.33	0.48		838.67	839.02	-	-	-
	4/16/2017	14.90	15.33	0.43		838.67	838.98	-	-	-
	4/13/2017	15.03	15.45	0.42		838.55	838.86	-	-	-
	4/10/2017	15.10	15.51	0.41		838.49	838.79	-	-	-
	4/6/2017	15.33	16.20	**0.87**		837.80	838.44	4/7/2017	10:21	10:34
	4/3/2017	15.46	16.27	**0.81**		837.73	838.32	-	-	-
RS-09					847.60			-	-	-
	3/5/2018	-	5.96	-		841.64	-	-	-	-
	2/21/2018	-	6.45	-		841.15	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-09 (cont'd)	2/3/2018	-	8.10	-		839.50	-	-	-	-
	12/27/2017	-	14.13	-		833.47	-	-	-	-
	11/12/2017	-	10.29	-		837.31	-	-	-	-
	10/21/2017	-	12.51	-		835.09	-	-	-	-
	9/10/2017	9.15	9.20	0.05		838.40	838.44	-	-	-
	8/21/2017	8.85	8.93	0.08		838.67	838.73	-	-	-
	8/17/2017	9.12	9.16	0.04		838.44	838.47	-	-	-
	8/14/2017	9.71	9.84	0.13		837.76	837.85	-	-	-
	8/9/2017	10.91	10.98	0.07		836.62	836.67	-	-	-
	8/2/2017	9.61	9.75	0.14		837.85	837.95	-	-	-
	7/31/2017	9.58	9.78	0.20		837.82	837.97	-	-	-
	7/27/2017	9.42	9.62	0.20		837.98	838.13	-	-	-
	7/24/2017	9.33	9.52	0.19		838.08	838.22	-	-	-
	7/20/2017	8.99	9.20	0.21		838.40	838.55	-	-	-
	7/17/2017	8.74	8.89	0.15		838.71	838.82	-	-	-
	7/13/2017	8.97	9.13	0.16		838.47	838.59	-	-	-
	7/10/2017	8.86	9.01	0.15		838.59	838.70	-	-	-
	7/6/2017	10.22	10.45	0.23		837.15	837.32	-	-	-
	7/3/2017	9.26	9.49	0.23		838.11	838.28	-	-	-
	6/29/2017	9.07	9.39	0.32		838.21	838.44	-	-	-
	6/22/2017	9.67	9.89	0.22		837.71	837.87	-	-	-
	6/19/2017	10.04	10.22	0.18		837.38	837.51	-	-	-
	6/15/2017	10.08	10.32	0.24		837.28	837.46	-	-	-
	6/12/2017	9.81	10.51	**0.70**		837.09	837.60	6/13/2017	15:38	15:46
	6/9/2017	9.38	9.90	**0.52**		837.70	838.08	-	-	-
	6/5/2017	9.30	9.48	0.18		838.12	838.25	-	-	-
	6/2/2017	11.12	11.33	0.21		836.27	836.42	-	-	-
	5/31/2017	9.38	9.67	0.29		837.93	838.14	-	-	-
	5/24/2017	9.15	9.30	0.15		838.30	838.41	-	-	-
	5/22/2017	9.90	10.15	0.25		837.45	837.63	-	-	-
	5/18/2017	9.98	10.18	0.20		837.42	837.57	-	-	-
	5/15/2017	10.12	10.34	0.22		837.26	837.42	-	-	-
	5/11/2017	10.86	11.10	0.24		836.50	836.68	-	-	-
	5/7/2017	14.36	14.82	0.46		832.78	833.12	-	-	-
	5/4/2017	14.48	14.86	0.38		832.74	833.02	-	-	-
	4/27/2017	14.49	14.90	0.41		832.70	833.00	-	-	-
	4/25/2017	13.80	14.15	0.35		833.45	833.71	-	-	-
	4/20/2017	15.98	16.36	0.38		831.24	831.52	-	-	-
	4/16/2017	16.14	16.48	0.34		831.12	831.37	-	-	-
	4/13/2017	16.18	16.69	**0.51**		830.91	831.28	4/13/2017	9:27	9:34
	4/10/2017	16.08	16.82	**0.74**		830.78	831.32	4/11/2017	13:15	13:19
	4/6/2017	15.61	16.22	**0.61**		831.38	831.83	4/7/2017	14:01	14:09
	4/3/2017	16.90	17.15	0.25		830.45	830.63	-	-	-
RS-10					847.42			-	-	-
	3/5/2018	5.84	5.89	0.05		841.53	841.57	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/13/2018	5.82	5.92	0.10		841.50	841.57	-	-	-
	2/3/2018	6.91	6.92	0.01		840.50	840.51	-	-	-
	12/27/2017	10.05	10.15	0.10		837.27	837.34	-	-	-
	11/12/2017	-	9.65	-		837.77	-	-	-	-
	10/21/2017	11.20	11.22	0.02		836.20	836.21	-	-	-
	9/10/2017	-	8.47	-		838.95	-	-	-	-
	8/21/2017	8.17	8.20	0.03		839.22	839.24	-	-	-
	8/17/2017	8.09	8.10	0.01		839.32	839.33	-	-	-
	8/14/2017	7.88	7.89	0.01		839.53	839.54	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-10 (cont'd)	8/9/2017	8.50	8.51	0.01		838.91	838.92	-	-	-
	8/2/2017	8.85	9.20	0.35		838.22	838.48	-	-	-
	7/31/2017	8.85	9.22	0.37		838.20	838.47	-	-	-
	7/27/2017	8.68	9.06	0.38		838.36	838.64	-	-	-
	7/24/2017	8.84	9.21	0.37		838.21	838.48	-	-	-
	7/20/2017	8.64	9.01	0.37		838.41	838.68	-	-	-
	7/17/2017	8.44	8.81	0.37		838.61	838.88	-	-	-
	7/13/2017	8.44	8.81	0.37		838.61	838.88	-	-	-
	7/10/2017	8.13	8.50	0.37		838.92	839.19	-	-	-
	7/6/2017	8.99	9.35	0.36		838.07	838.33	-	-	-
	7/3/2017	8.83	9.08	0.25		838.34	838.52	-	-	-
	6/29/2017	8.60	8.87	0.27		838.55	838.75	-	-	-
	6/22/2017	9.22	9.48	0.26		837.94	838.13	-	-	-
	6/19/2017	9.30	9.57	0.27		837.85	838.05	-	-	-
	6/15/2017	9.60	9.97	0.37		837.45	837.72	6/16/2017	13:22	13:29
	6/12/2017	9.41	9.73	0.32		837.69	837.92	-	-	-
	6/9/2017	9.05	9.40	0.35		838.02	838.28	-	-	-
	6/5/2017	9.73	10.06	0.33		837.36	837.60	-	-	-
	6/2/2017	8.91	9.22	0.31		838.20	838.43	-	-	-
	5/31/2017	11.25	11.73	0.48		835.69	836.04	5/31/2017	14:09	14:17
	5/24/2017	8.02	8.03	0.01		839.39	839.40	-	-	-
	5/22/2017	9.41	9.42	0.01		838.00	838.01	-	-	-
	5/18/2017	9.46	9.92	0.46		837.50	837.84	-	-	-
	5/15/2017	9.97	10.41	0.44		837.01	837.33	-	-	-
	5/11/2017	9.19	9.62	0.43		837.80	838.11	-	-	-
	5/7/2017	13.46	13.91	0.45		833.51	833.84	-	-	-
	5/4/2017	13.57	13.90	0.33		833.52	833.76	-	-	-
	4/27/2017	14.00	14.28	0.28		833.14	833.34	-	-	-
	4/25/2017	13.97	14.31	0.34		833.11	833.36	-	-	-
	4/20/2017	15.02	15.25	0.23		832.17	832.34	-	-	-
	4/16/2017	15.05	15.54	0.49		831.88	832.24	4/17/2017	10:01	10:16
	4/13/2017	15.14	15.56	0.42		831.86	832.17	-	-	-
	4/10/2017	15.15	15.60	0.45		831.82	832.15	-	-	-
	4/6/2017	14.94	15.36	0.42		832.06	832.37	-	-	-
	4/3/2017	15.88	16.20	0.32		831.22	831.45	-	-	-
RS-11					847.44			-	-	-
	3/5/2018	-	6.84	-		840.60	-	-	-	-
	2/21/2018	-	6.42	-		841.02	-	-	-	-
	2/3/2018	-	7.57	-		839.87	-	-	-	-
	12/27/2017	-	9.00	-		838.44	-	-	-	-
	11/12/2017	-	9.76	-		837.68	-	-	-	-
	10/21/2017	-	10.73	-		836.71	-	-	-	-
	9/10/2017	-	8.35	-		839.09	-	-	-	-
	8/21/2017	-	8.12	-		839.32	-	-	-	-
	8/17/2017	-	7.96	-		839.48	-	-	-	-
	8/14/2017	-	7.92	-		839.52	-	-	-	-
	8/9/2017	-	8.18	-		839.26	-	-	-	-
	8/2/2017	-	8.60	-		838.84	-	-	-	-
	7/31/2017	-	8.87	-		838.57	-	-	-	-
	7/27/2017	-	8.47	-		838.97	-	-	-	-
	7/24/2017	-	8.58	-		838.86	-	-	-	-
	7/20/2017	-	8.53	-		838.91	-	-	-	-
	7/17/2017	-	8.37	-		839.07	-	-	-	-
	7/13/2017	-	8.36	-		839.08	-	-	-	-
	7/10/2017	-	8.11	-		839.33	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-11 (cont'd)	7/6/2017	-	8.47	-		838.97	-	-	-	-
	7/3/2017	-	8.71	-		838.73	-	-	-	-
	6/29/2017	-	8.45	-		838.99	-	-	-	-
	6/22/2017	-	9.01	-		838.43	-	-	-	-
	6/19/2017	-	9.07	-		838.37	-	-	-	-
	6/15/2017	-	9.47	-		837.97	-	-	-	-
	6/12/2017	-	9.36	-		838.08	-	-	-	-
	6/9/2017	-	9.19	-		838.25	-	-	-	-
	6/5/2017	-	8.86	-		838.58	-	-	-	-
	6/2/2017	-	8.49	-		838.95	-	-	-	-
	5/31/2017	12.72	12.73	0.01		834.71	834.72	-	-	-
	5/24/2017	8.31	8.33	0.02		839.11	839.12	-	-	-
	5/22/2017	9.60	9.63	0.03		837.81	837.83	-	-	-
	5/18/2017	9.76	9.79	0.03		837.65	837.67	-	-	-
	5/15/2017	10.27	10.33	0.06		837.11	837.15	-	-	-
	5/11/2017	8.93	9.97	**1.04**		837.47	838.23	5/14/2017	11:31	11:42
	5/7/2017	13.20	13.63	0.43		833.81	834.12	-	-	-
	5/4/2017	13.30	13.67	0.37		833.77	834.04	-	-	-
	4/27/2017	13.89	14.20	0.31		833.24	833.47	-	-	-
	4/25/2017	14.16	14.67	**0.51**		832.77	833.14	-	-	-
	4/20/2017	14.53	15.01	0.48		832.43	832.78	-	-	-
	4/16/2017	14.63	15.10	0.47		832.34	832.68	-	-	-
	4/13/2017	14.73	15.18	0.45		832.26	832.59	-	-	-
	4/10/2017	14.78	15.24	0.46		832.20	832.54	-	-	-
	4/6/2017	15.19	15.61	0.42		831.83	832.14	-	-	-
	4/3/2017	15.35	15.74	0.39		831.70	831.98	-	-	-
RS-12					847.74			-	-	-
	3/5/2018	-	7.21	-		840.53	-	-	-	-
	2/21/2018	-	6.78	-		840.96	-	-	-	-
	2/3/2018	-	7.92	-		839.82	-	-	-	-
	12/27/2017	-	9.20	-		838.54	-	-	-	-
	11/12/2017	-	10.00	-		837.74	-	-	-	-
	10/21/2017	-	11.20	-		836.54	-	-	-	-
	9/10/2017	-	8.70	-		839.04	-	-	-	-
	8/21/2017	8.44	8.45	0.01		839.29	839.30	-	-	-
	8/17/2017	-	8.29	-		839.45	-	-	-	-
	8/14/2017	7.94	7.95	0.01		839.79	839.80	-	-	-
	8/9/2017	-	8.50	-		839.24	-	-	-	-
	8/2/2017	8.91	8.92	0.01		838.82	838.83	-	-	-
	7/31/2017	8.89	8.90	0.01		838.84	838.85	-	-	-
	7/27/2017	8.79	8.81	0.02		838.93	838.94	-	-	-
	7/24/2017	8.91	8.93	0.02		838.81	838.82	-	-	-
	7/20/2017	8.85	8.86	0.01		838.88	838.89	-	-	-
	7/17/2017	8.70	8.71	0.01		839.03	839.04	-	-	-
	7/13/2017	8.69	8.70	0.01		839.04	839.05	-	-	-
	7/10/2017	-	7.87	-		839.87	-	-	-	-
	7/6/2017	-	8.78	-		838.96	-	-	-	-
	7/3/2017	9.03	9.05	0.02		838.69	838.70	-	-	-
	6/29/2017	8.77	8.80	0.03		838.94	838.96	-	-	-
	6/22/2017	9.33	9.34	0.01		838.40	838.41	-	-	-
	6/19/2017	9.38	9.40	0.02		838.34	838.35	-	-	-
	6/15/2017	9.77	9.81	0.04		837.93	837.96	-	-	-
	6/12/2017	9.68	9.72	0.04		838.02	838.05	-	-	-
	6/9/2017	9.51	9.53	0.02		838.21	838.22	-	-	-
	6/5/2017	9.18	9.21	0.03		838.53	838.55	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-12 (cont'd)	6/2/2017	8.78	8.81	0.03		838.93	838.95	-	-	-
	5/31/2017	13.03	13.10	0.07		834.64	834.69	-	-	-
	5/24/2017	8.62	8.73	0.11		839.01	839.09	-	-	-
	5/22/2017	9.91	9.95	0.04		837.79	837.82	-	-	-
	5/18/2017	10.02	10.31	0.29		837.43	837.64	-	-	-
	5/15/2017	10.62	10.69	0.07		837.05	837.10	-	-	-
	5/11/2017	9.16	9.93	**0.77**		837.81	838.37	5/14/2017	11:45	11:54
	5/7/2017	13.49	13.93	0.44		833.81	834.13	-	-	-
	5/4/2017	13.57	13.92	0.35		833.82	834.08	-	-	-
	4/27/2017	14.18	14.49	0.31		833.25	833.48	-	-	-
	4/25/2017	14.44	14.94	0.50		832.80	833.17	-	-	-
	4/20/2017	14.81	15.30	0.49		832.44	832.80	-	-	-
	4/16/2017	14.92	15.39	0.47		832.35	832.69	-	-	-
	4/13/2017	15.02	15.45	0.43		832.29	832.60	-	-	-
	4/10/2017	15.06	15.62	**0.56**		832.12	832.53	-	-	-
	4/6/2017	15.46	15.88	0.42		831.86	832.17	-	-	-
	4/3/2017	15.62	16.00	0.38		831.74	832.02	-	-	-
RS-13					845.98			-	-	-
	3/5/2018	-	2.95	-		843.03	-	-	-	-
	2/21/2018	-	2.84	-		843.14	-	-	-	-
	2/3/2018	-	3.75	-		842.23	-	-	-	-
	12/27/2017	-	14.34	-		831.64	-	-	-	-
	11/12/2017	-	6.45	-		839.53	-	-	-	-
	10/21/2017	-	11.55	-		834.43	-	-	-	-
	9/10/2017	-	6.43	-		839.55	-	-	-	-
	8/21/2017	-	7.15	-		838.83	-	-	-	-
	8/17/2017	-	7.81	-		838.17	-	-	-	-
	8/14/2017	-	8.71	-		837.27	-	-	-	-
	8/9/2017	-	9.50	-		836.48	-	-	-	-
	8/2/2017	-	7.83	-		838.15	-	-	-	-
	7/31/2017	-	7.87	-		838.11	-	-	-	-
	7/27/2017	-	7.60	-		838.38	-	-	-	-
	7/24/2017	-	7.55	-		838.43	-	-	-	-
	7/20/2017	-	6.90	-		839.08	-	-	-	-
	7/17/2017	-	6.77	-		839.21	-	-	-	-
	7/13/2017	-	6.88	-		839.10	-	-	-	-
	7/10/2017	-	6.77	-		839.21	-	-	-	-
	7/6/2017	-	8.17	-		837.81	-	-	-	-
	7/3/2017	-	6.96	-		839.02	-	-	-	-
	6/29/2017	-	6.08	-		839.90	-	-	-	-
	6/22/2017	-	5.55	-		840.43	-	-	-	-
	6/19/2017	-	8.10	-		837.88	-	-	-	-
	6/15/2017	-	7.84	-		838.14	-	-	-	-
	6/12/2017	-	6.75	-		839.23	-	-	-	-
	6/9/2017	-	5.13	-		840.85	-	-	-	-
	6/5/2017	-	6.78	-		839.20	-	-	-	-
	6/2/2017	-	7.90	-		838.08	-	-	-	-
	5/31/2017	-	5.75	-		840.23	-	-	-	-
	5/24/2017	-	2.75	-		843.23	-	-	-	-
	5/22/2017	-	3.85	-		842.13	-	-	-	-
	5/18/2017	-	5.45	-		840.53	-	-	-	-
	5/15/2017	-	5.67	-		840.31	-	-	-	-
	5/11/2017	-	7.01	-		838.97	-	-	-	-
	5/7/2017	-	13.53	-		832.45	-	-	-	-
	5/4/2017	-	13.35	-		832.63	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-13 (cont'd)	4/27/2017	-	10.73	-		835.25	-	-	-	-
	4/25/2017	-	7.78	-		838.20	-	-	-	-
	4/20/2017	15.20	15.23	0.03		830.75	830.77	-	-	-
	4/16/2017	15.04	15.06	0.02		830.92	830.93	-	-	-
	4/13/2017	14.82	14.83	0.01		831.15	831.16	-	-	-
	4/10/2017	14.59	14.60	0.01		831.38	831.39	-	-	-
	4/6/2017	-	14.26	-		831.72	-	-	-	-
	4/3/2017	16.44	16.46	0.02		829.52	829.53	-	-	-
RS-14					845.97			-	-	-
	3/5/2018	-	3.29	-		842.68	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/13/2018	2.53	2.58	0.05		843.39	843.43	-	-	-
	2/3/2018	-	4.82	-		841.15	-	-	-	-
	12/27/2017	7.47	7.49	0.02		838.48	838.49	-	-	-
	11/12/2017	7.31	7.33	0.02		838.64	838.65	-	-	-
	10/21/2017	11.35	11.38	0.03		834.59	834.61	-	-	-
	9/10/2017	-	5.40	-		840.57	-	-	-	-
	8/21/2017	5.80	5.89	0.09		840.08	840.15	-	-	-
	8/17/2017	5.69	5.77	0.08		840.20	840.26	-	-	-
	8/14/2017	6.41	6.50	0.09		839.47	839.54	-	-	-
	8/9/2017	7.27	7.35	0.08		838.62	838.68	-	-	-
	8/2/2017	6.14	6.20	0.06		839.77	839.81	-	-	-
	7/31/2017	6.06	6.13	0.07		839.84	839.89	-	-	-
	7/27/2017	5.85	5.94	0.09		840.03	840.10	-	-	-
	7/24/2017	5.64	5.71	0.07		840.26	840.31	-	-	-
	7/20/2017	5.08	5.16	0.08		840.81	840.87	-	-	-
	7/17/2017	4.71	4.79	0.08		841.18	841.24	-	-	-
	7/13/2017	5.39	5.46	0.07		840.51	840.56	-	-	-
	7/10/2017	5.13	5.21	0.08		840.76	840.82	-	-	-
	7/6/2017	5.62	5.68	0.06		840.29	840.33	-	-	-
	7/3/2017	5.02	5.09	0.07		840.88	840.93	-	-	-
	6/29/2017	4.79	4.87	0.08		841.10	841.16	-	-	-
	6/22/2017	4.47	4.53	0.06		841.44	841.48	-	-	-
	6/19/2017	6.20	6.28	0.08		839.69	839.75	-	-	-
	6/15/2017	5.72	5.81	0.09		840.16	840.23	-	-	-
	6/12/2017	5.10	5.20	0.10		840.77	840.84	-	-	-
	6/9/2017	4.32	4.40	0.08		841.57	841.63	-	-	-
	6/5/2017	5.13	5.20	0.07		840.77	840.82	-	-	-
	6/2/2017	5.46	5.52	0.06		840.45	840.49	-	-	-
	5/31/2017	4.55	4.65	0.10		841.32	841.39	-	-	-
	5/24/2017	3.17	3.26	0.09		842.71	842.78	-	-	-
	5/22/2017	3.97	4.04	0.07		841.93	841.98	-	-	-
	5/18/2017	6.08	6.14	0.06		839.83	839.87	-	-	-
	5/15/2017	6.26	6.35	0.09		839.62	839.69	-	-	-
	5/11/2017	8.13	8.21	0.08		837.76	837.82	-	-	-
	5/7/2017	9.60	9.74	0.14		836.23	836.33	-	-	-
	5/4/2017	9.41	9.88	0.47		836.09	836.43	-	-	-
	4/27/2017	6.05	6.19	0.14		839.78	839.88	-	-	-
	4/25/2017	4.45	4.64	0.19		841.33	841.47	-	-	-
	4/20/2017	11.71	11.89	0.18		834.08	834.21	-	-	-
	4/16/2017	11.15	11.35	0.20		834.62	834.77	-	-	-
	4/13/2017	10.43	10.62	0.19		835.35	835.49	-	-	-
	4/10/2017	9.69	9.92	0.23		836.05	836.22	-	-	-
	4/6/2017	6.25	6.47	0.22		839.50	839.66	-	-	-
	4/3/2017	12.70	12.93	0.23		833.04	833.21	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-15					846.41			-	-	-
	3/5/2018	-	3.58	-		842.83	-	-	-	-
	2/21/2018	-	3.94	-		842.47	-	-	-	-
	2/3/2018	-	5.10	-		841.31	-	-	-	-
	12/27/2017	-	6.99	-		839.42	-	-	-	-
	11/12/2017	-	8.05	-		838.36	-	-	-	-
	10/21/2017	-	10.65	-		835.76	-	-	-	-
	9/10/2017	6.17	6.18	0.01		840.23	840.24	-	-	-
	8/21/2017	-	6.41	-		840.00	-	-	-	-
	8/17/2017	-	6.20	-		840.21	-	-	-	-
	8/14/2017	-	6.64	-		839.77	-	-	-	-
	8/9/2017	-	7.11	-		839.30	-	-	-	-
	8/2/2017	6.48	6.50	0.02		839.91	839.92	-	-	-
	7/31/2017	6.40	6.41	0.01		840.00	840.01	-	-	-
	7/27/2017	6.17	6.19	0.02		840.22	840.23	-	-	-
	7/24/2017	6.01	6.03	0.02		840.38	840.39	-	-	-
	7/20/2017	5.59	5.60	0.01		840.81	840.82	-	-	-
	7/17/2017	5.30	5.32	0.02		841.09	841.10	-	-	-
	7/13/2017	5.78	5.80	0.02		840.61	840.62	-	-	-
	7/10/2017	5.55	5.57	0.02		840.84	840.85	-	-	-
	7/6/2017	5.90	5.91	0.01		840.50	840.51	-	-	-
	7/3/2017	5.49	5.51	0.02		840.90	840.91	-	-	-
	6/29/2017	5.32	5.35	0.03		841.06	841.08	-	-	-
	6/22/2017	6.31	6.33	0.02		840.08	840.09	-	-	-
	6/19/2017	6.38	6.40	0.02		840.01	840.02	-	-	-
	6/15/2017	6.06	6.08	0.02		840.33	840.34	-	-	-
	6/12/2017	5.67	5.70	0.03		840.71	840.73	-	-	-
	6/9/2017	5.09	5.12	0.03		841.29	841.31	-	-	-
	6/5/2017	5.60	5.62	0.02		840.79	840.80	-	-	-
	6/2/2017	5.78	5.80	0.02		840.61	840.62	-	-	-
	5/31/2017	5.08	5.10	0.02		841.31	841.32	-	-	-
	5/24/2017	3.89	3.91	0.02		842.50	842.51	-	-	-
	5/22/2017	4.90	4.94	0.04		841.47	841.50	-	-	-
	5/18/2017	-	7.01	-		839.40	-	-	-	-
	5/15/2017	7.20	7.21	0.01		839.20	839.21	-	-	-
	5/11/2017	8.00	8.01	0.01		838.40	838.41	-	-	-
	5/7/2017	9.07	9.10	0.03		837.31	837.33	-	-	-
	5/4/2017	8.70	8.75	0.05		837.66	837.70	-	-	-
	4/27/2017	6.71	6.80	0.09		839.61	839.68	-	-	-
	4/25/2017	5.30	5.38	0.08		841.03	841.09	-	-	-
	4/20/2017	11.07	11.19	0.12		835.22	835.31	-	-	-
	4/16/2017	10.65	10.75	0.10		835.66	835.73	-	-	-
	4/13/2017	10.18	10.28	0.10		836.13	836.20	-	-	-
	4/10/2017	9.77	9.88	0.11		836.53	836.61	-	-	-
	4/6/2017	7.90	7.96	0.06		838.45	838.49	-	-	-
	4/3/2017	12.79	12.85	0.06		833.56	833.60	-	-	-
RS-16					845.44			-	-	-
	3/5/2018	-	3.03	-		842.41	-	-	-	-
	2/21/2018	-	2.78	-		842.66	-	-	-	-
	2/3/2018	-	3.83	-		841.61	-	-	-	-
	12/27/2017	-	6.80	-		838.64	-	-	-	-
	11/12/2017	-	6.35	-		839.09	-	-	-	-
	10/21/2017	-	10.00	-		835.44	-	-	-	-
	9/10/2017	-	4.94	-		840.50	-	-	-	-
	8/21/2017	-	5.35	-		840.09	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-16 (cont'd)	8/17/2017	5.26	5.27	0.01		840.17	840.18	-	-	-
	8/14/2017	-	5.47	-		839.97	-	-	-	-
	8/9/2017	-	5.95	-		839.49	-	-	-	-
	8/2/2017	-	5.45	-		839.99	-	-	-	-
	7/31/2017	-	5.37	-		840.07	-	-	-	-
	7/27/2017	-	5.11	-		840.33	-	-	-	-
	7/24/2017	-	4.87	-		840.57	-	-	-	-
	7/20/2017	-	4.32	-		841.12	-	-	-	-
	7/17/2017	-	3.95	-		841.49	-	-	-	-
	7/13/2017	-	4.60	-		840.84	-	-	-	-
	7/10/2017	-	4.36	-		841.08	-	-	-	-
	7/6/2017	-	4.68	-		840.76	-	-	-	-
	7/3/2017	-	4.17	-		841.27	-	-	-	-
	6/29/2017	-	4.00	-		841.44	-	-	-	-
	6/22/2017	-	3.61	-		841.83	-	-	-	-
	6/19/2017	-	5.38	-		840.06	-	-	-	-
	6/15/2017	-	4.87	-		840.57	-	-	-	-
	6/12/2017	-	4.25	-		841.19	-	-	-	-
	6/9/2017	-	3.50	-		841.94	-	-	-	-
	6/5/2017	-	4.24	-		841.20	-	-	-	-
	6/2/2017	-	4.23	-		841.21	-	-	-	-
	5/31/2017	-	3.80	-		841.64	-	-	-	-
	5/24/2017	-	2.27	-		843.17	-	-	-	-
	5/22/2017	-	3.03	-		842.41	-	-	-	-
	5/18/2017	-	4.84	-		840.60	-	-	-	-
	5/15/2017	-	4.98	-		840.46	-	-	-	-
	5/11/2017	-	5.71	-		839.73	-	-	-	-
	5/7/2017	-	9.74	-		835.70	-	-	-	-
	5/4/2017	-	9.67	-		835.77	-	-	-	-
	4/27/2017	-	5.05	-		840.39	-	-	-	-
	4/25/2017	-	3.68	-		841.76	-	-	-	-
	4/20/2017	11.98	11.99	0.01		833.45	833.46	-	-	-
	4/16/2017	11.71	11.72	0.01		833.72	833.73	-	-	-
	4/13/2017	-	11.25	-		834.19	-	-	-	-
	4/10/2017	10.61	10.62	0.01		834.82	834.83	-	-	-
	4/6/2017	-	5.34	-		840.10	-	-	-	-
	4/3/2017	13.07	13.10	0.03		832.34	832.36	-	-	-
RS-17					844.22			-	-	-
	3/5/2018	-	2.37	-		841.85	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/13/2018	1.70	1.73	0.03		842.49	842.51	-	-	-
	2/3/2018	-	3.05	-		841.17	-	-	-	-
	12/27/2017	6.38	6.39	0.01		837.83	837.84	-	-	-
	11/12/2017	5.99	6.00	0.01		838.22	838.23	-	-	-
	10/21/2017	-	9.59	-		834.63	-	-	-	-
	9/10/2017	-	4.61	-		839.61	-	-	-	-
	8/21/2017	-	5.11	-		839.11	-	-	-	-
	8/17/2017	-	5.15	-		839.07	-	-	-	-
	8/14/2017	-	5.72	-		838.50	-	-	-	-
	8/9/2017	-	6.13	-		838.09	-	-	-	-
	8/2/2017	-	5.06	-		839.16	-	-	-	-
	7/31/2017	-	4.97	-		839.25	-	-	-	-
	7/27/2017	-	4.72	-		839.50	-	-	-	-
	7/24/2017	-	4.46	-		839.76	-	-	-	-
	7/20/2017	-	3.92	-		840.30	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-17 (cont'd)	7/17/2017	-	3.26	-		840.96	-	-	-	-
	7/13/2017	-	4.14	-		840.08	-	-	-	-
	7/10/2017	-	3.87	-		840.35	-	-	-	-
	7/6/2017	-	4.19	-		840.03	-	-	-	-
	7/3/2017	-	3.46	-		840.76	-	-	-	-
	6/29/2017	-	3.45	-		840.77	-	-	-	-
	6/22/2017	-	2.83	-		841.39	-	-	-	-
	6/19/2017	-	4.85	-		839.37	-	-	-	-
	6/15/2017	-	4.27	-		839.95	-	-	-	-
	6/12/2017	-	3.69	-		840.53	-	-	-	-
	6/9/2017	-	1.26	-		842.96	-	-	-	-
	6/5/2017	-	3.75	-		840.47	-	-	-	-
	6/2/2017	-	4.99	-		839.23	-	-	-	-
	5/31/2017	-	3.25	-		840.97	-	-	-	-
	5/24/2017	-	1.30	-		842.92	-	-	-	-
	5/22/2017	-	2.05	-		842.17	-	-	-	-
	5/18/2017	-	4.35	-		839.87	-	-	-	-
	5/15/2017	-	5.02	-		839.20	-	-	-	-
	5/11/2017	-	5.85	-		838.37	-	-	-	-
	5/7/2017	-	6.43	-		837.79	-	-	-	-
	5/4/2017	-	7.36	-		836.86	-	-	-	-
	4/27/2017	-	4.30	-		839.92	-	-	-	-
	4/25/2017	-	2.63	-		841.59	-	-	-	-
	4/20/2017	11.43	11.44	0.01		832.78	832.79	-	-	-
	4/16/2017	9.10	9.11	0.01		835.11	835.12	-	-	-
	4/13/2017	-	8.55	-		835.67	-	-	-	-
	4/10/2017	7.97	7.98	0.01		836.24	836.25	-	-	-
	4/6/2017	-	3.23	-		840.99	-	-	-	-
	4/3/2017	9.94	9.95	0.01		834.27	834.28	-	-	-
RS-18					847.89			-	-	-
	3/5/2018	-	5.05	-		842.84	-	-	-	-
	2/21/2018	-	6.59	-		841.30	-	-	-	-
	2/3/2018	-	8.27	-		839.62	-	-	-	-
	12/27/2017	-	15.92	-		831.97	-	-	-	-
	11/12/2017	-	10.69	-		837.20	-	-	-	-
	10/21/2017	-	13.05	-		834.84	-	-	-	-
	9/10/2017	-	10.00	-		837.89	-	-	-	-
	8/21/2017	9.71	9.79	0.08		838.10	838.16	-	-	-
	8/17/2017	9.72	9.77	0.05		838.12	838.16	-	-	-
	8/14/2017	9.97	10.02	0.05		837.87	837.91	-	-	-
	8/9/2017	10.91	10.96	0.05		836.93	836.97	-	-	-
	8/2/2017	10.35	10.45	0.10		837.44	837.51	-	-	-
	7/31/2017	10.38	10.54	0.16		837.35	837.47	-	-	-
	7/27/2017	10.11	10.25	0.14		837.64	837.74	-	-	-
	7/24/2017	10.05	10.22	0.17		837.67	837.79	-	-	-
	7/20/2017	9.65	9.81	0.16		838.08	838.20	-	-	-
	7/17/2017	-	8.61	-		839.28	-	-	-	-
	7/13/2017	9.64	9.78	0.14		838.11	838.21	-	-	-
	7/10/2017	9.44	9.59	0.15		838.30	838.41	-	-	-
	7/6/2017	10.82	11.02	0.20		836.87	837.02	-	-	-
	7/3/2017	9.78	9.99	0.21		837.90	838.05	-	-	-
	6/29/2017	9.60	9.77	0.17		838.12	838.24	-	-	-
	6/22/2017	9.52	9.72	0.20		838.17	838.32	-	-	-
	6/19/2017	10.55	10.75	0.20		837.14	837.29	-	-	-
	6/15/2017	10.52	10.75	0.23		837.14	837.31	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-18 (cont'd)	6/12/2017	10.30	10.51	0.21		837.38	837.53	-	-	-
	6/9/2017	9.98	10.04	0.06		837.85	837.89	-	-	-
	6/5/2017	9.77	9.94	0.17		837.95	838.07	-	-	-
	6/2/2017	11.82	12.01	0.19		835.88	836.02	-	-	-
	5/31/2017	9.95	10.40	0.45		837.49	837.82	5/31/2017	14:21	14:29
	5/24/2017	9.48	9.87	0.39		838.02	838.30	-	-	-
	5/22/2017	9.27	9.65	0.38		838.24	838.52	-	-	-
	5/18/2017	10.56	11.01	0.45		836.88	837.21	-	-	-
	5/15/2017	10.95	11.15	0.20		836.74	836.89	-	-	-
	5/11/2017	11.23	11.65	0.42		836.24	836.55	-	-	-
	5/7/2017	14.19	14.67	0.48		833.22	833.57	-	-	-
	5/4/2017	14.25	14.65	0.40		833.24	833.53	-	-	-
	4/27/2017	14.06	14.43	0.37		833.46	833.73	-	-	-
	4/25/2017	11.44	11.80	0.36		836.09	836.35	-	-	-
	4/20/2017	16.02	16.38	0.36		831.51	831.77	-	-	-
	4/16/2017	16.23	16.50	0.27		831.39	831.59	-	-	-
	4/13/2017	16.73	16.94	0.21		830.95	831.10	-	-	-
	4/10/2017	16.15	16.70	**0.55**		831.19	831.59	4/11/2017	13:23	13:27
	4/6/2017	12.80	13.30	0.50		834.59	834.96	-	-	-
	4/3/2017	17.07	17.48	0.41		830.41	830.71	-	-	-
RS-19					850.40			-	-	-
	3/5/2018	-	NM	-		-	-	-	-	-
	9/10/2017	-	NM	-		-	-	-	-	-
	8/21/2017	-	NM	-		-	-	-	-	-
	8/17/2017	-	NM	-		-	-	-	-	-
	8/14/2017	-	NM	-		-	-	-	-	-
	8/9/2017	-	NM	-		-	-	-	-	-
	8/2/2017	-	NM	-		-	-	-	-	-
	7/31/2017	-	NM	-		-	-	-	-	-
	7/27/2017	-	NM	-		-	-	-	-	-
	7/24/2017	-	NM	-		-	-	-	-	-
	7/20/2017	-	NM	-		-	-	-	-	-
	7/17/2017	-	NM	-		-	-	-	-	-
	7/13/2017	-	NM	-		-	-	-	-	-
	7/10/2017	-	NM	-		-	-	-	-	-
	7/6/2017	-	NM	-		-	-	-	-	-
	7/3/2017	-	NM	-		-	-	-	-	-
	6/29/2017	-	NM	-		-	-	-	-	-
	6/22/2017	-	NM	-		-	-	-	-	-
	6/19/2017	-	NM	-		-	-	-	-	-
	6/15/2017	-	NM	-		-	-	-	-	-
	6/12/2017	-	NM	-		-	-	-	-	-
	6/9/2017	-	NM	-		-	-	-	-	-
	6/5/2017	-	NM	-		-	-	-	-	-
	6/2/2017	-	NM	-		-	-	-	-	-
	5/31/2017	-	NM	-		-	-	-	-	-
	5/24/2017	-	NM	-		-	-	-	-	-
	5/22/2017	-	NM	-		-	-	-	-	-
	5/18/2017	-	NM	-		-	-	-	-	-
	5/15/2017	-	NM	-		-	-	-	-	-
	5/11/2017	-	NM	-		-	-	-	-	-
	5/7/2017	-	NM	-		-	-	-	-	-
	5/4/2017	-	NM	-		-	-	-	-	-
	4/27/2017	-	NM	-		-	-	-	-	-
	4/25/2017	-	NM	-		-	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RS-19 (cont'd)	4/20/2017	-	NM	-		-	-	-	-	-
	4/16/2017	-	NM	-		-	-	-	-	-
	4/13/2017	-	NM	-		-	-	-	-	-
	4/10/2017	-	NM	-		-	-	-	-	-
	4/6/2017	-	NM	-		-	-	-	-	-
	4/3/2017	-	NM	-		-	-	-	-	-
RS-20					842.69			-	-	-
	3/5/2018	-	NM	-		-	-	-	-	-
	2/21/2018	-	3.02	-		839.67	-	-	-	-
	2/3/2018	-	3.40	-		839.29	-	-	-	-
	12/27/2017	-	6.55	-		836.14	-	-	-	-
	11/12/2017	-	5.82	-		836.87	-	-	-	-
	10/21/2017	-	9.39	-		833.30	-	-	-	-
	9/10/2017	-	5.68	-		837.01	-	-	-	-
	8/21/2017	-	5.70	-		836.99	-	-	-	-
	8/17/2017	-	5.93	-		836.76	-	-	-	-
	8/14/2017	-	6.32	-		836.37	-	-	-	-
	8/9/2017	-	6.56	-		836.13	-	-	-	-
	8/2/2017	-	5.65	-		837.04	-	-	-	-
	7/31/2017	-	5.60	-		837.09	-	-	-	-
	7/27/2017	-	5.35	-		837.34	-	-	-	-
	7/24/2017	-	5.27	-		837.42	-	-	-	-
	7/20/2017	-	4.94	-		837.75	-	-	-	-
	7/17/2017	-	4.66	-		838.03	-	-	-	-
	7/13/2017	-	4.80	-		837.89	-	-	-	-
	7/10/2017	-	4.55	-		838.14	-	-	-	-
	7/6/2017	-	5.08	-		837.61	-	-	-	-
	7/3/2017	-	4.61	-		838.08	-	-	-	-
	6/29/2017	-	4.43	-		838.26	-	-	-	-
	6/22/2017	-	4.59	-		838.10	-	-	-	-
	6/19/2017	-	5.39	-		837.30	-	-	-	-
	6/15/2017	-	5.21	-		837.48	-	-	-	-
	6/12/2017	-	4.78	-		837.91	-	-	-	-
	6/9/2017	-	4.12	-		838.57	-	-	-	-
	6/5/2017	-	4.34	-		838.35	-	-	-	-
	6/2/2017	-	5.11	-		837.58	-	-	-	-
	5/31/2017	-	4.40	-		838.29	-	-	-	-
	5/24/2017	-	2.08	-		840.61	-	-	-	-
	5/22/2017	-	3.25	-		839.44	-	-	-	-
	5/18/2017	-	3.93	-		838.76	-	-	-	-
	5/15/2017	-	4.12	-		838.57	-	-	-	-
	5/11/2017	-	12.40	-		830.29	-	-	-	-
	5/7/2017	-	8.93	-		833.76	-	-	-	-
	5/4/2017	-	8.63	-		834.06	-	-	-	-
	4/27/2017	-	6.65	-		836.04	-	-	-	-
	4/25/2017	-	6.59	-		836.10	-	-	-	-
	4/20/2017	-	10.48	-		832.21	-	-	-	-
	4/16/2017	-	10.48	-		832.21	-	-	-	-
	4/13/2017	-	10.50	-		832.19	-	-	-	-
	4/10/2017	-	10.47	-		832.22	-	-	-	-
	4/6/2017	-	10.15	-		832.54	-	-	-	-
	4/3/2017	-	10.53	-		832.16	-	-	-	-
RT-1A					854.06			-	-	-
	3/5/2018	-	12.13	-		841.93	-	-	-	-
	2/21/2018	-	13.25	-		840.81	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-1A (cont'd)	2/13/2018	13.25	13.26	0.01		840.80	840.81	-	-	-
	2/9/2018	-	13.71	-		840.35	-	-	-	-
	2/2/2018	14.23	14.25	0.02		839.81	839.82	2/2/2018	12:45	12:50
	1/26/2018	14.64	14.68	0.04		839.38	839.41	1/26/2018	9:10	9:15
	1/20/2018	14.52	14.57	0.05		839.49	839.53	-	-	-
	1/10/2018	14.70	14.74	0.04		839.32	839.35	1/15/2018	9:30	9:35
	1/5/2018	14.66	14.73	0.07		839.33	839.38	1/8/2018	11:58	12:03
	12/27/2017	14.62	14.65	0.03		839.41	839.43	1/2/2018	13:20	13:25
	12/21/2017	14.82	14.87	0.05		839.19	839.23	12/22/2017	9:45	9:50
	12/13/2017	14.77	14.82	0.05		839.24	839.28	12/14/2017	9:35	9:40
	12/7/2017	15.03	15.12	0.09		838.94	839.01	12/7/2017	9:00	9:05
	12/1/2017	14.74	14.84	0.10		839.22	839.29	-	-	-
	11/22/2017	14.65	14.71	0.06		839.35	839.39	11/22/2017	12:07	12:12
	11/17/2017	14.63	14.68	0.05		839.38	839.42	-	-	-
	11/10/2017	14.73	14.82	0.09		839.24	839.31	11/9/2017	11:15	11:20
	11/3/2017	14.67	14.77	0.10		839.29	839.36	11/3/2017	9:25	9:30
	10/26/2017	14.95	15.02	0.07		839.04	839.09	10/25/2017	10:35	10:40
	10/20/2017	15.08	15.18	0.10		838.88	838.95	10/21/2017	9:00	9:05
	10/12/2017	14.95	15.03	0.08		839.03	839.09	10/10/2017	9:00	9:05
	10/6/2017	14.85	15.02	0.17		839.04	839.16	10/7/2017	11:25	11:30
	9/28/2017	14.62	14.72	0.10		839.34	839.41	9/28/2017	13:05	13:10
	9/21/2017	14.43	14.50	0.07		839.56	839.61	-	-	-
	9/15/2017	14.38	14.42	0.04		839.64	839.67	-	-	-
	9/5/2017	14.54	14.68	0.14		839.38	839.48	9/5/2017	8:35	8:40
	8/31/2017	14.51	14.61	0.10		839.45	839.52	-	-	-
	8/24/2017	14.32	14.40	0.08		839.66	839.72	8/24/2017	8:50	8:55
	8/21/2017	14.22	14.33	0.11		839.73	839.81	-	-	-
	8/17/2017	14.22	14.32	0.10		839.74	839.81	8/17/2017	9:00	9:05
	8/14/2017	14.01	14.11	0.10		839.95	840.02	-	-	-
	8/9/2017	14.00	14.09	0.09		839.97	840.04	-	-	-
	8/2/2017	13.79	13.85	0.06		840.21	840.25	8/7/2017	11:25	11:30
	7/31/2017	13.71	13.79	0.08		840.27	840.33	-	-	-
	7/27/2017	13.61	13.67	0.06		840.39	840.43	-	-	-
	7/24/2017	13.50	13.55	0.05		840.51	840.55	-	-	-
	7/20/2017	13.48	13.53	0.05		840.53	840.57	-	-	-
	7/17/2017	13.42	13.47	0.05		840.59	840.63	7/17/2017	9:50	9:53
	7/13/2017	13.43	13.48	0.05		840.58	840.62	-	-	-
	7/10/2017	13.35	13.39	0.04		840.67	840.70	7/11/2017	16:30	16:34
	7/6/2017	-	13.37	-		840.69	-	7/6/2017	10:50	10:53
	7/3/2017	13.34	13.36	0.02		840.70	840.71	7/3/2017	13:33	13:37
	6/29/2017	13.69	13.75	0.06		840.31	840.35	6/29/2017	13:15	13:23
	6/22/2017	13.49	13.52	0.03		840.54	840.56	6/24/2017	13:08	13:15
	6/19/2017	13.76	13.88	0.12		840.18	840.27	6/21/2017	12:21	12:26
	6/15/2017	13.65	13.69	0.04		840.37	840.40	6/16/2017	13:44	13:49
	6/12/2017	13.86	13.95	0.09		840.11	840.18	6/13/2017	15:10	15:16
	6/9/2017	13.74	13.86	0.12		840.20	840.29	6/11/2017	12:13	12:17
	6/5/2017	13.80	13.82	0.02		840.24	840.25	6/5/2017	14:19	14:23
	6/2/2017	13.88	13.93	0.05		840.13	840.17	6/2/2017	14:51	14:54
	5/31/2017	14.03	14.15	0.12		839.91	840.00	5/31/2017	13:31	13:37
	5/24/2017	14.17	14.27	0.10		839.79	839.86	5/26/2017	15:17	15:24
	5/22/2017	14.40	14.45	0.05		839.61	839.65	-	-	-
	5/18/2017	14.55	14.61	0.06		839.45	839.49	5/19/2017	13:22	13:27
	5/15/2017	14.56	14.61	0.05		839.45	839.49	5/16/2017	12:17	12:24
	5/11/2017	14.50	14.54	0.04		839.52	839.55	5/14/2017	12:15	12:25
	5/7/2017	14.60	14.67	0.07		839.39	839.44	5/9/2017	10:43	10:49

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-1A (cont'd)	5/4/2017	14.69	14.80	0.11		839.26	839.34	5/5/2017	9:43	9:49
	4/27/2017	14.89	14.94	0.05		839.12	839.16	-	-	-
	4/25/2017	15.08	15.12	0.04		838.94	838.97	4/25/2017	10:57	11:01
	4/20/2017	15.37	15.47	0.10		838.59	838.66	4/21/2017	12:59	13:12
	4/16/2017	15.40	15.50	0.10		838.56	838.63	4/17/2017	9:33	9:38
	4/13/2017	15.50	15.61	0.11		838.45	838.53	-	-	-
	4/10/2017	15.57	15.77	0.20		838.29	838.44	-	-	-
	4/6/2017	15.84	16.09	0.25		837.97	838.15	4/7/2017	10:01	10:06
	4/3/2017	15.98	16.20	0.22		837.86	838.02	-	-	-
RT-1B					854.15			-	-	-
	3/5/2018	-	12.10	-		842.05	-	-	-	-
	2/21/2018	-	13.23	-		840.92	-	-	-	-
	2/13/2018	-	13.28	-		840.87	-	-	-	-
	2/9/2018	-	13.68	-		840.47	-	-	-	-
	2/2/2018	14.19	14.21	0.02		839.94	839.95	2/2/2018	12:55	13:00
	1/26/2018	14.60	14.64	0.04		839.51	839.54	1/26/2018	9:15	9:20
	1/20/2018	14.48	14.53	0.05		839.62	839.66	-	-	-
	1/10/2018	14.66	14.71	0.05		839.44	839.48	1/15/2018	9:35	9:40
	1/5/2018	14.62	14.69	0.07		839.46	839.51	1/8/2018	12:03	12:08
	12/27/2017	14.59	14.62	0.03		839.53	839.55	1/2/2018	13:25	13:30
	12/21/2017	14.77	14.82	0.05		839.33	839.37	12/22/2017	9:55	10:00
	12/13/2017	14.72	14.77	0.05		839.38	839.42	12/14/2017	9:45	9:50
	12/7/2017	14.99	15.08	0.09		839.07	839.14	12/7/2017	9:10	9:15
	12/1/2017	14.71	14.79	0.08		839.36	839.42	-	-	-
	11/22/2017	14.61	14.67	0.06		839.48	839.52	11/22/2017	12:12	12:17
	11/17/2017	14.60	14.65	0.05		839.50	839.54	-	-	-
	11/10/2017	14.69	14.78	0.09		839.37	839.44	11/9/2017	11:10	11:15
	11/3/2017	14.62	14.71	0.09		839.44	839.51	11/3/2017	9:30	9:35
	10/26/2017	14.91	14.98	0.07		839.17	839.22	10/25/2017	10:45	10:50
	10/20/2017	15.04	15.14	0.10		839.01	839.08	10/21/2017	9:05	9:10
	10/12/2017	14.91	15.00	0.09		839.15	839.22	10/10/2007	9:05	9:10
	10/6/2017	14.82	14.95	0.13		839.20	839.29	10/7/2017	11:30	11:35
	9/28/2017	14.58	14.68	0.10		839.47	839.54	9/28/2017	13:15	13:20
	9/21/2017	14.39	14.46	0.07		839.69	839.74	-	-	-
	9/15/2017	14.34	14.38	0.04		839.77	839.80	-	-	-
	9/5/2017	14.50	14.63	0.13		839.52	839.61	9/5/2017	8:45	8:50
	8/31/2017	14.46	14.56	0.10		839.59	839.66	-	-	-
	8/24/2017	14.28	14.38	0.10		839.77	839.84	8/24/2017	8:55	9:00
	8/21/2017	14.17	14.28	0.11		839.87	839.95	-	-	-
	8/17/2017	14.19	14.29	0.10		839.86	839.93	8/17/2017	9:05	9:10
	8/14/2017	13.97	14.07	0.10		840.08	840.15	-	-	-
	8/9/2017	13.96	14.05	0.09		840.10	840.17	-	-	-
	8/2/2017	13.75	13.81	0.06		840.34	840.38	8/7/2017	11:35	11:40
	7/31/2017	13.67	13.74	0.07		840.41	840.46	8/1/2017	14:50	15:00
	7/27/2017	13.57	13.60	0.03		840.55	840.57	-	-	-
	7/24/2017	13.45	13.53	0.08		840.62	840.68	-	-	-
	7/20/2017	13.45	13.50	0.05		840.65	840.69	7/20/2017	10:15	10:20
	7/17/2017	13.38	13.43	0.05		840.72	840.76	7/17/2017	9:53	9:56
	7/13/2017	13.40	13.44	0.04		840.71	840.74	7/14/2017	9:15	9:20
	7/10/2017	13.31	13.37	0.06		840.78	840.82	7/11/2017	16:34	16:38
	7/6/2017	13.34	13.38	0.04		840.77	840.80	7/6/2017	10:53	10:56
	7/3/2017	13.29	13.33	0.04		840.82	840.85	7/3/2017	13:37	13:41
	6/29/2017	13.65	13.70	0.05		840.45	840.49	6/29/2017	13:24	13:32
	6/22/2017	13.46	13.48	0.02		840.67	840.68	6/24/2017	13:16	13:23
	6/19/2017	13.71	13.83	0.12		840.32	840.41	6/21/2017	12:26	12:31

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-1B (cont'd)	6/15/2017	13.61	13.65	0.04		840.50	840.53	6/16/2017	13:49	13:54
	6/12/2017	13.82	13.92	0.10		840.23	840.30	6/13/2017	15:17	15:23
	6/9/2017	13.69	13.81	0.12		840.34	840.43	6/11/2017	12:18	12:22
	6/5/2017	13.76	13.79	0.03		840.36	840.38	6/5/2017	14:24	14:28
	6/2/2017	13.83	13.88	0.05		840.27	840.31	6/2/2017	14:55	14:58
	5/31/2017	13.98	14.12	0.14		840.03	840.13	5/31/2017	13:37	13:43
	5/24/2017	14.12	14.22	0.10		839.93	840.00	5/26/2017	15:24	15:31
	5/22/2017	14.35	14.40	0.05		839.75	839.79	-	-	-
	5/18/2017	14.51	14.56	0.05		839.59	839.63	5/19/2017	13:27	13:32
	5/15/2017	14.49	14.65	0.16		839.50	839.62	5/16/2017	12:24	12:31
	5/11/2017	14.46	14.49	0.03		839.66	839.68	5/14/2017	12:25	12:35
	5/7/2017	14.56	14.62	0.06		839.53	839.57	5/9/2017	10:49	10:55
	5/4/2017	14.65	14.76	0.11		839.39	839.47	5/5/2017	9:50	9:56
	4/27/2017	14.85	14.89	0.04		839.26	839.29	-	-	-
	4/25/2017	15.03	15.09	0.06		839.06	839.10	4/25/2017	11:02	11:06
	4/20/2017	-	NM	-		-	-	4/21/2017	13:13	13:26
	4/16/2017	-	NM	-		-	-	4/17/2017	9:39	9:44
	4/13/2017	-	NM	-		-	-	-	-	-
	4/10/2017	-	NM	-		-	-	-	-	-
	4/6/2017	-	NM	-		-	-	4/7/2017	10:07	10:12
	4/3/2017	-	NM	-		-	-	-	-	-
RT-1C					854.55			-	-	-
	3/5/2018	-	12.70	-		841.85	-	-	-	-
	2/21/2018	-	13.82	-		840.73	-	-	-	-
	2/13/2018	-	13.88	-		840.67	-	-	-	-
	2/9/2018	-	14.29	-		840.26	-	-	-	-
	2/2/2018	15.81	15.83	0.02		838.72	838.73	2/2/2018	13:00	13:05
	1/26/2018	15.19	15.23	0.04		839.32	839.35	1/26/2018	9:25	9:30
	1/20/2018	15.06	15.11	0.05		839.44	839.48	-	-	-
	1/10/2018	15.24	15.29	0.05		839.26	839.30	1/15/2018	9:40	9:45
	1/5/2018	15.23	15.29	0.06		839.26	839.30	1/8/2018	12:08	12:13
	12/27/2017	15.17	15.20	0.03		839.35	839.37	1/2/2018	13:30	13:35
	12/21/2017	15.36	15.41	0.05		839.14	839.18	12/22/2017	10:00	10:05
	12/13/2017	15.31	15.36	0.05		839.19	839.23	12/14/2017	9:55	10:00
	12/7/2017	15.57	15.66	0.09		838.89	838.96	12/7/2017	9:20	9:25
	12/1/2017	15.30	15.37	0.07		839.18	839.23	-	-	-
	11/22/2017	15.20	15.26	0.06		839.29	839.33	11/22/2017	12:17	12:22
	11/17/2017	15.19	15.24	0.05		839.31	839.35	-	-	-
	11/10/2017	15.29	15.38	0.09		839.17	839.24	11/9/2017	11:05	11:10
	11/3/2017	15.22	15.31	0.09		839.24	839.31	11/3/2017	9:35	9:40
	10/26/2017	15.58	15.65	0.07		838.90	838.95	10/25/2017	10:50	10:55
	10/20/2017	15.47	15.58	0.11		838.97	839.05	10/21/2017	9:10	9:15
	10/12/2017	15.34	15.43	0.09		839.12	839.19	10/10/2017	9:10	9:15
	10/6/2017	15.26	15.39	0.13		839.16	839.25	10/7/2017	11:35	11:40
	9/28/2017	15.02	15.11	0.09		839.44	839.51	9/28/2017	13:25	13:30
	9/21/2017	14.82	14.90	0.08		839.65	839.71	-	-	-
	9/15/2017	14.78	14.82	0.04		839.73	839.76	-	-	-
	9/5/2017	14.94	15.05	0.11		839.50	839.58	9/5/2017	8:50	8:55
	8/31/2017	14.91	15.01	0.10		839.54	839.61	-	-	-
	8/24/2017	14.72	14.81	0.09		839.74	839.81	8/24/2017	9:05	9:10
	8/21/2017	14.62	14.73	0.11		839.82	839.90	-	-	-
	8/17/2017	14.62	14.71	0.09		839.84	839.91	8/17/2017	9:10	9:15
	8/14/2017	14.43	14.53	0.10		840.02	840.09	-	-	-
	8/9/2017	14.44	14.51	0.07		840.04	840.09	-	-	-
	8/2/2017	14.19	14.24	0.05		840.31	840.35	8/7/2017	11:40	11:45

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-1C (cont'd)	7/31/2017	14.01	14.07	0.06		840.48	840.52	-	-	-
	7/27/2017	14.00	14.07	0.07		840.48	840.53	-	-	-
	7/24/2017	13.91	13.98	0.07		840.57	840.62	-	-	-
	7/20/2017	13.87	13.94	0.07		840.61	840.66	-	-	-
	7/17/2017	13.83	13.88	0.05		840.67	840.71	7/17/2017	9:56	10:00
	7/13/2017	13.82	13.87	0.05		840.68	840.72	-	-	-
	7/10/2017	13.75	13.80	0.05		840.75	840.79	7/11/2017	16:38	16:41
	7/6/2017	13.76	13.79	0.03		840.76	840.78	7/6/2017	10:56	10:59
	7/3/2017	13.73	13.77	0.04		840.78	840.81	7/3/2017	13:41	13:45
	6/29/2017	14.08	14.14	0.06		840.41	840.45	6/29/2017	13:33	13:41
	6/22/2017	13.88	13.91	0.03		840.64	840.66	6/24/2017	13:24	13:31
	6/19/2017	14.18	14.28	0.10		840.27	840.34	6/21/2017	12:31	12:36
	6/15/2017	14.03	14.08	0.05		840.47	840.51	6/16/2017	13:54	13:59
	6/12/2017	14.27	14.36	0.09		840.19	840.26	6/13/2017	15:24	15:30
	6/9/2017	14.14	14.25	0.11		840.30	840.38	6/11/2017	12:23	12:27
	6/5/2017	14.19	14.21	0.02		840.34	840.35	6/5/2017	14:29	14:32
	6/2/2017	14.27	14.32	0.05		840.23	840.27	6/2/2017	14:59	15:02
	5/31/2017	14.42	14.55	0.13		840.00	840.09	5/31/2017	13:43	13:50
	5/24/2017	14.57	14.65	0.08		839.90	839.96	5/26/2017	15:31	15:39
	5/22/2017	14.80	14.85	0.05		839.70	839.74	-	-	-
	5/18/2017	14.95	14.99	0.04		839.56	839.59	5/19/2017	13:32	13:37
	5/15/2017	14.95	15.01	0.06		839.54	839.58	5/16/2017	12:31	12:38
	5/11/2017	14.89	14.94	0.05		839.61	839.65	5/14/2017	12:35	12:45
	5/7/2017	14.99	15.05	0.06		839.50	839.54	5/9/2017	10:55	11:01
	5/4/2017	15.10	15.16	0.06		839.39	839.43	5/5/2017	9:57	10:02
	4/27/2017	15.29	15.33	0.04		839.22	839.25	-	-	-
	4/25/2017	15.48	15.52	0.04		839.03	839.06	4/25/2017	11:07	11:11
	4/20/2017	15.80	15.90	0.10		838.65	838.72	4/21/2017	13:27	13:39
	4/16/2017	15.80	15.90	0.10		838.65	838.72	4/17/2017	9:45	9:49
	4/13/2017	15.92	16.02	0.10		838.53	838.60	-	-	-
	4/10/2017	15.97	16.17	0.20		838.38	838.53	-	-	-
	4/6/2017	16.25	16.48	0.23		838.07	838.24	4/7/2017	10:13	10:18
	4/3/2017	16.37	16.50	0.13		838.05	838.14	-	-	-
RT-2A					817.48			-	-	-
	3/5/2018	-	0.61	-		816.87	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/9/2018	-	0.54	-		816.94	-	-	-	-
	2/2/2018	-	0.85	-		816.63	-	-	-	-
	1/26/2018	-	0.96	-		816.52	-	-	-	-
	1/20/2018	-	0.95	-		816.53	-	-	-	-
	1/10/2018	-	1.07	-		816.41	-	1/15/2018	11:00	11:05
	1/5/2018	-	1.25	-		816.23	-	1/8/2018	10:38	10:43
	12/27/2017	-	1.05	-		816.43	-	1/2/2018	12:05	12:10
	12/21/2017	-	0.84	-		816.64	-	-	-	-
	12/13/2017	-	1.00	-		816.48	-	-	-	-
	12/7/2017	-	1.23	-		816.25	-	12/7/2017	11:00	11:05
	12/1/2017	-	1.18	-		816.30	-	-	-	-
	11/22/2017	-	1.12	-		816.36	-	11/22/2017	10:10	10:15
	11/17/2017	-	1.04	-		816.44	-	-	-	-
	11/10/2017	-	0.75	-		816.73	-	-	-	-
	11/3/2017	-	0.97	-		816.51	-	-	-	-
	10/26/2017	-	1.01	-		816.47	-	10/25/2017	8:50	8:55
	10/20/2017	-	1.43	-		816.05	-	10/21/2017	10:20	10:25
	10/12/2017	-	1.25	-		816.23	-	10/10/2017	10:20	10:25
	10/6/2017	-	1.34	-		816.14	-	10/7/2017	10:00	10:05

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-2A (cont'd)	9/28/2017	-	1.39	-		816.09	-	9/28/2017	11:20	11:25
	9/21/2017	-	1.28	-		816.20	-	-	-	-
	9/15/2017	-	0.95	-		816.53	-	-	-	-
	9/5/2017	-	1.21	-		816.27	-	9/5/2017	9:40	9:45
	8/31/2017	-	1.37	-		816.11	-	-	-	-
	8/24/2017	-	1.38	-		816.10	-	8/24/2017	9:40	9:45
	8/21/2017	-	1.07	-		816.41	-	-	-	-
	8/17/2017	-	1.31	-		816.17	-	8/17/2017	10:20	10:25
	8/14/2017	-	1.02	-		816.46	-	-	-	-
	8/9/2017	-	1.26	-		816.22	-	-	-	-
	8/2/2017	-	1.30	-		816.18	-	8/7/2017	9:55	10:00
	7/31/2017	-	1.25	-		816.23	-	8/1/2017	13:30	13:35
	7/27/2017	-	1.16	-		816.32	-	-	-	-
	7/24/2017	-	1.12	-		816.36	-	-	-	-
	7/20/2017	-	1.07	-		816.41	-	7/20/2017	11:00	11:05
	7/17/2017	-	1.33	-		816.15	-	7/17/2017	11:05	11:10
	7/13/2017	-	1.06	-		816.42	-	7/14/2017	9:21	9:32
	7/10/2017	-	0.98	-		816.50	-	7/11/2017	16:21	16:25
	7/6/2017	-	0.75	-		816.73	-	7/6/2017	12:15	12:18
	7/3/2017	-	0.80	-		816.68	-	7/3/2017	13:18	13:21
	6/29/2017	-	0.95	-		816.53	-	-	-	-
	6/22/2017	-	0.80	-		816.68	-	6/24/2017	10:46	10:51
	6/19/2017	-	1.04	-		816.44	-	6/21/2017	10:51	10:54
	6/15/2017	-	1.09	-		816.39	-	6/16/2017	11:59	12:03
	6/12/2017	-	0.70	-		816.78	-	-	-	-
	6/9/2017	-	0.48	-		817.00	-	-	-	-
	6/5/2017	-	1.00	-		816.48	-	6/5/2017	11:30	11:36
	6/2/2017	-	0.88	-		816.60	-	-	-	-
	5/31/2017	-	0.70	-		816.78	-	-	-	-
	5/24/2017	-	0.70	-		816.78	-	5/26/2017	14:44	14:51
	5/22/2017	-	0.68	-		816.80	-	5/22/2017	11:01	11:06
	5/18/2017	-	1.12	-		816.36	-	5/19/2017	11:17	11:21
	5/15/2017	-	1.20	-		816.28	-	5/16/2017	10:40	10:44
	5/11/2017	-	1.13	-		816.35	-	-	-	-
	5/7/2017	-	0.73	-		816.75	-	5/9/2017	11:40	11:45
	5/4/2017	1.02	1.03	0.01		816.45	816.46	5/5/2017	12:42	12:47
	4/27/2017	-	0.84	-		816.64	-	4/28/2017	10:13	10:17
	4/25/2017	-	0.63	-		816.85	-	4/25/2017	9:59	10:04
	4/20/2017	1.07	1.08	0.01		816.40	816.41	-	-	-
	4/16/2017	-	1.16	-		816.32	-	-	-	-
	4/13/2017	-	1.18	-		816.30	-	4/13/2017	11:20	11:23
	4/10/2017	-	1.08	-		816.40	-	4/11/2017	9:50	9:53
	4/6/2017	-	0.70	-		816.78	-	4/7/2017	14:31	14:34
	4/3/2017	-	1.25	-		816.23	-	-	-	-
RT-2B					817.61			-	-	-
	3/5/2018	-	0.81	-		816.80	-	-	-	-
	2/21/2018	-	0.75	-		816.86	-	-	-	-
	2/9/2018	-	0.68	-		816.93	-	-	-	-
	2/2/2018	-	0.95	-		816.66	-	-	-	-
	1/26/2018	-	1.12	-		816.49	-	-	-	-
	1/20/2018	-	1.07	-		816.54	-	-	-	-
	1/10/2018	-	1.27	-		816.34	-	1/15/2018	11:05	11:10
	1/5/2018	-	1.42	-		816.19	-	1/8/2018	10:43	10:48
	12/27/2017	-	1.20	-		816.41	-	1/2/2018	12:10	12:15
	12/21/2017	-	1.00	-		816.61	-	12/22/2017	11:30	11:35

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-2B (cont'd)	12/13/2017	1.15	1.16	0.01		816.45	816.46	12/14/2017	11:15	11:20
	12/7/2017	1.35	1.36	0.01		816.25	816.26	12/7/2017	11:10	11:15
	12/1/2017	-	1.77	-		815.84	-	-	-	-
	11/22/2017	-	1.22	-		816.39	-	11/22/2017	10:15	10:20
	11/17/2017	-	1.21	-		816.40	-	-	-	-
	11/10/2017	-	0.95	-		816.66	-	-	-	-
	11/3/2017	-	1.11	-		816.50	-	-	-	-
	10/26/2017	-	1.14	-		816.47	-	10/25/2017	8:55	9:10
	10/20/2017	-	1.55	-		816.06	-	10/21/2017	10:25	10:30
	10/12/2017	1.36	1.37	0.01		816.24	816.25	10/10/2017	10:30	10:35
	10/6/2017	-	1.45	-		816.16	-	10/7/2017	10:05	10:10
	9/28/2017	-	1.51	-		816.10	-	9/28/2017	11:25	11:30
	9/21/2017	-	1.46	-		816.15	-	-	-	-
	9/15/2017	-	1.07	-		816.54	-	-	-	-
	9/5/2017	-	1.29	-		816.32	-	9/5/2017	9:45	9:50
	8/31/2017	-	1.50	-		816.11	-	-	-	-
	8/24/2017	-	1.48	-		816.13	-	8/24/2017	9:50	9:55
	8/21/2017	-	1.15	-		816.46	-	-	-	-
	8/17/2017	-	1.42	-		816.19	-	8/17/2017	10:25	10:30
	8/14/2017	-	1.12	-		816.49	-	-	-	-
	8/9/2017	-	1.37	-		816.24	-	-	-	-
	8/2/2017	-	1.37	-		816.24	-	8/7/2017	10:05	10:10
	7/31/2017	-	1.36	-		816.25	-	8/1/2017	13:38	13:42
	7/27/2017	-	1.28	-		816.33	-	-	-	-
	7/24/2017	-	1.23	-		816.38	-	-	-	-
	7/20/2017	-	1.18	-		816.43	-	7/20/2017	11:05	11:10
	7/17/2017	-	1.39	-		816.22	-	7/17/2017	11:10	11:15
	7/13/2017	-	1.18	-		816.43	-	7/14/2017	9:35	9:40
	7/10/2017	-	1.08	-		816.53	-	7/11/2017	16:13	16:16
	7/6/2017	-	0.95	-		816.66	-	7/6/2017	12:08	12:13
	7/3/2017	-	0.96	-		816.65	-	7/3/2017	13:10	13:14
	6/29/2017	-	1.02	-		816.59	-	-	-	-
	6/22/2017	-	0.88	-		816.73	-	6/24/2017	10:36	10:40
	6/19/2017	-	1.12	-		816.49	-	6/21/2017	10:44	10:47
	6/15/2017	-	1.17	-		816.44	-	6/16/2017	11:54	11:58
	6/12/2017	-	1.11	-		816.50	-	6/13/2017	11:40	11:45
	6/9/2017	-	0.50	-		817.11	-	6/11/2017	10:28	10:33
	6/5/2017	-	1.11	-		816.50	-	6/5/2017	11:17	11:22
	6/2/2017	-	0.98	-		816.63	-	6/2/2017	13:59	14:08
	5/31/2017	-	0.90	-		816.71	-	5/31/2017	11:22	11:26
	5/24/2017	-	0.78	-		816.83	-	5/26/2017	14:32	14:40
	5/22/2017	-	0.85	-		816.76	-	5/22/2017	10:51	10:55
	5/18/2017	-	1.22	-		816.39	-	5/19/2017	11:10	11:15
	5/15/2017	-	1.31	-		816.30	-	5/16/2017	10:32	10:36
	5/11/2017	-	1.23	-		816.38	-	5/14/2017	9:37	9:42
	5/7/2017	-	0.92	-		816.69	-	5/9/2017	11:50	11:54
	5/4/2017	1.15	1.16	0.01		816.45	816.46	5/5/2017	12:36	12:41
	4/27/2017	0.96	0.97	0.01		816.64	816.65	4/28/2017	10:02	10:10
	4/25/2017	-	0.79	-		816.82	-	4/25/2017	9:49	9:54
	4/20/2017	1.14	1.15	0.01		816.46	816.47	4/21/2017	11:12	11:16
	4/16/2017	1.18	1.19	0.01		816.42	816.43	-	-	-
	4/13/2017	1.28	1.30	0.02		816.31	816.32	4/13/2017	11:25	11:29
	4/10/2017	1.14	1.15	0.01		816.46	816.47	4/11/2017	9:55	10:00
	4/6/2017	0.82	0.84	0.02		816.77	816.78	4/7/2017	14:38	14:51
	4/3/2017	1.37	1.38	0.01		816.23	816.24	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-2C					818.06			-	-	-
	3/5/2018	-	1.21	-		816.85	-	-	-	-
	2/21/2018	-	1.21	-		816.85	-	-	-	-
	2/9/2018	-	1.14	-		816.92	-	-	-	-
	2/2/2018	-	1.38	-		816.68	-	-	-	-
	1/26/2018	-	1.58	-		816.48	-	-	-	-
	1/20/2018	-	NM	-		-	-	-	-	-
	1/10/2018	-	1.72	-		816.34	-	1/15/2018	11:10	11:15
	1/5/2018	-	1.87	-		816.19	-	1/8/2018	10:48	10:53
	12/27/2017	-	1.63	-		816.43	-	1/2/2018	12:15	12:20
	12/21/2017	-	1.46	-		816.60	-	-	-	-
	12/13/2017	-	1.60	-		816.46	-	-	-	-
	12/7/2017	-	1.81	-		816.25	-	12/7/2017	11:20	11:25
	12/1/2017	-	1.83	-		816.23	-	-	-	-
	11/22/2017	-	1.71	-		816.35	-	11/22/2017	10:20	10:25
	11/17/2017	-	1.65	-		816.41	-	-	-	-
	11/10/2017	-	1.46	-		816.60	-	-	-	-
	11/3/2017	-	1.59	-		816.47	-	-	-	-
	10/26/2017	-	1.62	-		816.44	-	10/25/2017	9:00	9:05
	10/20/2017	-	2.00	-		816.06	-	10/21/2017	10:30	10:35
	10/12/2017	1.81	1.83	0.02		816.23	816.24	10/10/2017	10:35	10:35
	10/6/2017	-	1.92	-		816.14	-	10/7/2017	10:10	10:15
	9/28/2017	-	1.95	-		816.11	-	9/28/2017	11:30	11:35
	9/21/2017	-	1.84	-		816.22	-	-	-	-
	9/15/2017	-	1.51	-		816.55	-	-	-	-
	9/5/2017	-	1.75	-		816.31	-	9/5/2017	9:50	9:55
	8/31/2017	-	1.92	-		816.14	-	-	-	-
	8/24/2017	-	1.92	-		816.14	-	8/24/2017	9:55	10:00
	8/21/2017	1.89	1.91	0.02		816.15	816.16	-	-	-
	8/17/2017	-	1.86	-		816.20	-	8/17/2017	10:30	10:35
	8/14/2017	-	1.37	-		816.69	-	-	-	-
	8/9/2017	-	1.81	-		816.25	-	-	-	-
	8/2/2017	-	1.85	-		816.21	-	8/7/2017	10:06	10:11
	7/31/2017	-	1.78	-		816.28	-	8/1/2017	13:43	13:46
	7/27/2017	-	1.72	-		816.34	-	-	-	-
	7/24/2017	-	1.67	-		816.39	-	-	-	-
	7/20/2017	-	1.61	-		816.45	-	7/20/2017	11:10	11:15
	7/17/2017	-	1.83	-		816.23	-	7/17/2017	11:15	11:20
	7/13/2017	-	1.61	-		816.45	-	7/14/2017	9:45	9:47
	7/10/2017	-	1.56	-		816.50	-	7/11/2017	16:09	16:11
	7/6/2017	-	1.40	-		816.66	-	7/6/2017	12:01	12:05
	7/3/2017	-	1.41	-		816.65	-	7/3/2017	13:01	13:08
	6/29/2017	-	1.48	-		816.58	-	-	-	-
	6/22/2017	1.39	1.40	0.01		816.66	816.67	6/24/2017	10:29	10:31
	6/19/2017	-	1.59	-		816.47	-	6/21/2017	10:39	10:41
	6/15/2017	-	1.66	-		816.40	-	6/16/2017	11:48	11:51
	6/12/2017	-	1.57	-		816.49	-	6/13/2017	11:30	11:35
	6/9/2017	-	1.40	-		816.66	-	6/11/2017	10:18	10:24
	6/5/2017	-	1.56	-		816.50	-	6/5/2017	10:59	11:06
	6/2/2017	-	1.43	-		816.63	-	6/2/2017	13:52	13:57
	5/31/2017	-	1.49	-		816.57	-	5/31/2017	11:15	11:20
	5/24/2017	-	1.30	-		816.76	-	5/26/2017	14:15	14:21
	5/22/2017	-	1.30	-		816.76	-	5/22/2017	10:43	10:47
	5/18/2017	-	1.66	-		816.40	-	5/19/2017	11:03	11:07
	5/15/2017	-	1.78	-		816.28	-	5/16/2017	10:26	10:30

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-2C (cont'd)	5/11/2017	-	1.66	-		816.40	-	5/14/2017	9:23	9:31
	5/7/2017	-	1.38	-		816.68	-	5/9/2017	11:59	12:04
	5/4/2017	1.59	1.60	0.01		816.46	816.47	5/5/2017	12:30	12:34
	4/27/2017	-	1.41	-		816.65	-	4/28/2017	9:41	9:46
	4/25/2017	-	1.21	-		816.85	-	4/25/2017	9:40	9:44
	4/20/2017	-	1.59	-		816.47	-	4/21/2017	11:04	11:09
	4/16/2017	-	1.61	-		816.45	-	-	-	-
	4/13/2017	-	1.73	-		816.33	-	4/13/2017	11:32	11:35
	4/10/2017	1.61	1.62	0.01		816.44	816.45	4/11/2017	10:02	10:07
	4/6/2017	-	1.30	-		816.76	-	4/7/2017	14:53	14:56
	4/3/2017	-	1.80	-		816.26	-	-	-	-
RT-2D					818.12			-	-	-
	3/5/2018	-	1.34	-		816.78	-	-	-	-
	2/21/2018	-	1.32	-		816.80	-	-	-	-
	2/9/2018	-	1.25	-		816.87	-	-	-	-
	2/2/2018	-	1.46	-		816.66	-	-	-	-
	1/26/2018	-	1.67	-		816.45	-	-	-	-
	1/20/2018	-	1.62	-		816.50	-	-	-	-
	1/10/2018	-	1.80	-		816.32	-	1/15/2018	11:15	11:20
	1/5/2018	-	1.92	-		816.20	-	1/8/2018	10:53	10:58
	12/27/2017	-	1.71	-		816.41	-	1/2/2018	12:20	12:25
	12/21/2017	-	1.53	-		816.59	-	12/22/2017	11:40	11:45
	12/13/2017	1.67	1.68	0.01		816.44	816.45	12/14/2017	11:25	11:30
	12/7/2017	-	1.88	-		816.24	-	-	-	-
	12/1/2017	-	1.93	-		816.19	-	-	-	-
	11/22/2017	-	1.78	-		816.34	-	11/22/2017	10:25	10:30
	11/17/2017	-	1.72	-		816.40	-	-	-	-
	11/10/2017	-	1.52	-		816.60	-	-	-	-
	11/3/2017	-	1.66	-		816.46	-	-	-	-
	10/26/2017	-	1.68	-		816.44	-	10/25/2017	9:05	9:10
	10/20/2017	-	2.06	-		816.06	-	10/21/2017	10:35	10:40
	10/12/2017	1.98	1.99	0.01		816.13	816.14	10/10/2017	10:35	10:40
	10/6/2017	-	1.98	-		816.14	-	10/7/2017	10:15	10:20
	9/28/2017	-	2.03	-		816.09	-	9/28/2017	11:35	11:40
	9/21/2017	-	1.91	-		816.21	-	-	-	-
	9/15/2017	-	1.59	-		816.53	-	-	-	-
	9/5/2017	-	1.83	-		816.29	-	-	-	-
	8/31/2017	-	2.01	-		816.11	-	-	-	-
	8/24/2017	-	1.99	-		816.13	-	-	-	-
	8/21/2017	-	1.94	-		816.18	-	-	-	-
	8/17/2017	-	1.93	-		816.19	-	-	-	-
	8/14/2017	1.81	1.82	0.01		816.30	816.31	-	-	-
	8/9/2017	-	1.90	-		816.22	-	-	-	-
	8/2/2017	-	1.91	-		816.21	-	8/7/2017	10:15	10:20
	7/31/2017	-	1.87	-		816.25	-	8/1/2017	13:48	13:51
	7/27/2017	-	1.80	-		816.32	-	-	-	-
	7/24/2017	-	1.75	-		816.37	-	-	-	-
	7/20/2017	-	1.69	-		816.43	-	7/20/2017	11:15	11:20
	7/17/2017	-	1.92	-		816.20	-	7/17/2017	11:20	11:25
	7/13/2017	-	1.69	-		816.43	-	7/14/2017	9:50	10:00
	7/10/2017	-	1.64	-		816.48	-	7/11/2017	16:02	16:07
	7/6/2017	-	1.47	-		816.65	-	7/6/2017	11:47	11:52
	7/3/2017	-	1.50	-		816.62	-	7/3/2017	12:49	12:55
	6/29/2017	-	1.57	-		816.55	-	6/29/2017	11:10	11:15
	6/22/2017	-	1.46	-		816.66	-	6/24/2017	10:22	10:26

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-2D (cont'd)	6/19/2017	-	1.70	-		816.42	-	6/21/2017	10:30	10:34
	6/15/2017	-	1.71	-		816.41	-	6/16/2017	11:40	11:43
	6/12/2017	-	1.56	-		816.56	-	6/13/2017	11:17	11:22
	6/9/2017	-	1.57	-		816.55	-	6/11/2017	10:09	10:13
	6/5/2017	-	1.65	-		816.47	-	6/5/2017	10:50	10:56
	6/2/2017	-	1.52	-		816.60	-	6/2/2017	13:44	13:49
	5/31/2017	-	1.60	-		816.52	-	5/31/2017	11:05	11:10
	5/24/2017	-	1.38	-		816.74	-	5/26/2017	14:01	14:10
	5/22/2017	-	1.38	-		816.74	-	5/22/2017	10:37	10:41
	5/18/2017	-	1.75	-		816.37	-	5/19/2017	10:57	10:59
	5/15/2017	-	1.89	-		816.23	-	5/16/2017	10:21	10:24
	5/11/2017	-	1.76	-		816.36	-	5/14/2017	9:11	9:17
	5/7/2017	-	1.44	-		816.68	-	5/9/2017	12:16	12:20
	5/4/2017	-	1.69	-		816.43	-	5/5/2017	12:23	12:27
	4/27/2017	-	1.52	-		816.60	-	4/28/2017	9:30	9:35
	4/25/2017	-	1.31	-		816.81	-	4/25/2017	9:30	9:35
	4/20/2017	-	1.71	-		816.41	-	4/21/2017	10:52	11:00
	4/16/2017	-	1.77	-		816.35	-	-	-	-
	4/13/2017	-	1.82	-		816.30	-	4/13/2017	11:38	11:41
	4/10/2017	-	1.72	-		816.40	-	4/11/2017	10:10	10:14
	4/6/2017	-	1.35	-		816.77	-	4/7/2017	15:01	15:05
	4/3/2017	-	1.86	-		816.26	-	-	-	-
RT-2E					818.25			-	-	-
	3/5/2018	-	1.44	-		816.81	-	-	-	-
	2/21/2018	-	1.41	-		816.84	-	-	-	-
	2/9/2018	-	1.33	-		816.92	-	-	-	-
	2/2/2018	1.57	1.58	0.01		816.67	816.68	-	-	-
	1/26/2018	-	1.78	-		816.47	-	-	-	-
	1/20/2018	-	NM	-		-	-	-	-	-
	1/10/2018	-	1.89	-		816.36	-	1/15/2018	11:20	11:25
	1/5/2018	-	NM	-		-	-	1/8/2018	10:58	11:03
	12/27/2017	-	1.82	-		816.43	-	1/2/2018	12:25	12:30
	12/21/2017	-	1.63	-		816.62	-	-	-	-
	12/13/2017	-	NM	-		-	-	-	-	-
	12/7/2017	-	1.99	-		816.26	-	12/7/2017	11:30	11:35
	12/1/2017	-	2.28	-		815.97	-	-	-	-
	11/22/2017	-	1.89	-		816.36	-	11/22/2017	10:30	10:35
	11/17/2017	-	1.83	-		816.42	-	-	-	-
	11/10/2017	-	1.63	-		816.62	-	-	-	-
	11/3/2017	-	1.76	-		816.49	-	-	-	-
	10/26/2017	-	1.80	-		816.45	-	10/25/2017	9:10	9:15
	10/20/2017	-	2.16	-		816.09	-	10/21/2017	10:40	10:45
	10/12/2017	-	2.00	-		816.25	-	10/10/2017	10:40	10:45
	10/6/2017	-	2.08	-		816.17	-	10/7/2017	10:20	10:25
	9/28/2017	-	2.14	-		816.11	-	9/28/2017	11:40	11:45
	9/21/2017	-	2.03	-		816.22	-	-	-	-
	9/15/2017	-	1.70	-		816.55	-	-	-	-
	9/5/2017	-	1.93	-		816.32	-	9/5/2017	9:55	10:00
	8/31/2017	-	2.11	-		816.14	-	-	-	-
	8/24/2017	-	2.10	-		816.15	-	8/24/2017	10:05	10:10
	8/21/2017	-	2.06	-		816.19	-	-	-	-
	8/17/2017	-	2.04	-		816.21	-	-	-	-
	8/14/2017	-	1.88	-		816.37	-	-	-	-
	8/9/2017	-	3.01	-		815.24	-	-	-	-
	8/2/2017	-	2.04	-		816.21	-	8/7/2017	10:25	10:30

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-2E (cont'd)	7/31/2017	-	1.98	-		816.27	-	8/1/2017	13:52	13:58
	7/27/2017	-	1.91	-		816.34	-	-	-	-
	7/24/2017	-	1.85	-		816.40	-	-	-	-
	7/20/2017	-	1.80	-		816.45	-	7/20/2017	11:20	11:25
	7/17/2017	-	2.04	-		816.21	-	7/17/2017	11:25	11:30
	7/13/2017	-	1.80	-		816.45	-	7/14/2017	10:15	10:19
	7/10/2017	-	1.75	-		816.50	-	7/11/2017	15:49	15:52
	7/6/2017	-	1.59	-		816.66	-	7/6/2017	11:41	11:45
	7/3/2017	-	1.61	-		816.64	-	7/3/2017	12:40	12:46
	6/29/2017	-	1.68	-		816.57	-	6/29/2017	11:01	11:06
	6/22/2017	-	1.58	-		816.67	-	6/24/2017	10:15	10:19
	6/19/2017	-	1.79	-		816.46	-	6/21/2017	10:23	10:27
	6/15/2017	-	1.81	-		816.44	-	6/16/2017	11:33	11:37
	6/12/2017	-	1.72	-		816.53	-	6/13/2017	10:52	11:00
	6/9/2017	-	1.48	-		816.77	-	6/11/2017	10:01	10:06
	6/5/2017	-	1.76	-		816.49	-	6/5/2017	10:40	10:46
	6/2/2017	-	1.63	-		816.62	-	6/2/2017	13:37	13:41
	5/31/2017	-	1.96	-		816.29	-	-	-	-
	5/24/2017	-	1.48	-		816.77	-	5/26/2017	13:43	13:50
	5/22/2017	-	1.53	-		816.72	-	5/22/2017	10:32	10:35
	5/18/2017	-	1.85	-		816.40	-	5/19/2017	10:51	10:54
	5/15/2017	-	1.96	-		816.29	-	5/16/2017	10:14	10:18
	5/11/2017	-	1.87	-		816.38	-	5/14/2017	9:01	9:07
	5/7/2017	-	1.56	-		816.69	-	5/9/2017	12:23	12:27
	5/4/2017	-	1.80	-		816.45	-	5/5/2017	12:16	12:21
	4/27/2017	-	1.60	-		816.65	-	4/28/2017	9:23	9:27
	4/25/2017	-	1.44	-		816.81	-	4/25/2017	9:20	9:26
	4/20/2017	-	1.80	-		816.45	-	4/21/2017	10:26	10:32
	4/16/2017	-	1.82	-		816.43	-	-	-	-
	4/13/2017	-	1.95	-		816.30	-	4/13/2017	11:53	11:56
	4/10/2017	1.82	1.83	0.01		816.42	816.43	4/11/2017	10:16	10:20
	4/6/2017	-	1.48	-		816.77	-	4/7/2017	15:07	15:10
	4/3/2017	-	2.00	-		816.25	-	-	-	-
RT-2F					818.57			-	-	-
	3/5/2018	-	1.77	-		816.80	-	-	-	-
	2/21/2018	-	1.75	-		816.82	-	-	-	-
	2/9/2018	-	1.67	-		816.90	-	-	-	-
	2/2/2018	1.87	1.88	0.01		816.69	816.70	-	-	-
	1/26/2018	-	2.11	-		816.46	-	-	-	-
	1/20/2018	-	NM	-		-	-	-	-	-
	1/10/2018	-	2.22	-		816.35	-	1/15/2018	11:25	11:30
	1/5/2018	-	NM	-		-	-	1/8/2018	11:03	11:08
	12/27/2017	-	2.15	-		816.42	-	1/2/2018	12:30	12:35
	12/21/2017	-	1.97	-		816.60	-	12/22/2017	11:50	11:55
	12/13/2017	2.12	2.13	0.01		816.44	816.45	12/14/2017	11:35	11:40
	12/7/2017	-	2.33	-		816.24	-	12/7/2017	11:35	11:40
	12/1/2017	-	2.43	-		816.14	-	-	-	-
	11/22/2017	-	2.25	-		816.32	-	11/22/2017	10:35	10:40
	11/17/2017	-	2.18	-		816.39	-	-	-	-
	11/10/2017	-	1.97	-		816.60	-	-	-	-
	11/3/2017	-	2.10	-		816.47	-	-	-	-
	10/26/2017	-	2.15	-		816.42	-	10/25/2017	9:15	9:20
	10/20/2017	-	2.51	-		816.06	-	10/21/2017	10:45	10:50
	10/12/2017	2.34	2.35	0.01		816.22	816.23	10/10/2017	10:45	10:50
	10/6/2017	-	2.43	-		816.14	-	10/7/2017	10:25	10:30

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-2F (cont'd)	9/28/2017	-	2.49	-		816.08	-	9/28/2017	11:45	11:50
	9/21/2017	-	2.37	-		816.20	-	-	-	-
	9/15/2017	-	2.03	-		816.54	-	-	-	-
	9/5/2017	-	2.27	-		816.30	-	9/5/2017	10:00	10:05
	8/31/2017	-	2.47	-		816.10	-	-	-	-
	8/24/2017	-	2.44	-		816.13	-	8/24/2017	10:10	10:15
	8/21/2017	-	2.35	-		816.22	-	-	-	-
	8/17/2017	-	2.38	-		816.19	-	-	-	-
	8/14/2017	2.00	2.01	0.01		816.56	816.57	-	-	-
	8/9/2017	-	2.36	-		816.21	-	-	-	-
	8/2/2017	-	2.40	-		816.17	-	8/7/2017	10:35	10:45
	7/31/2017	-	2.32	-		816.25	-	8/1/2017	14:00	14:02
	7/27/2017	-	2.25	-		816.32	-	-	-	-
	7/24/2017	-	2.20	-		816.37	-	-	-	-
	7/20/2017	-	2.14	-		816.43	-	7/20/2017	11:25	11:30
	7/17/2017	-	2.37	-		816.20	-	7/17/2017	11:30	11:35
	7/13/2017	-	2.15	-		816.42	-	7/14/2017	10:20	10:24
	7/10/2017	-	2.08	-		816.49	-	7/11/2017	15:42	15:47
	7/6/2017	-	1.94	-		816.63	-	7/6/2017	11:35	11:39
	7/3/2017	-	1.94	-		816.63	-	7/3/2017	12:30	12:37
	6/29/2017	-	2.01	-		816.56	-	6/29/2017	10:51	10:55
	6/22/2017	-	1.90	-		816.67	-	6/24/2017	10:07	10:10
	6/19/2017	-	2.11	-		816.46	-	6/21/2017	10:16	10:20
	6/15/2017	-	2.17	-		816.40	-	6/16/2017	11:26	11:30
	6/12/2017	-	2.04	-		816.53	-	6/13/2017	10:41	10:48
	6/9/2017	-	1.92	-		816.65	-	6/11/2017	9:52	9:58
	6/5/2017	-	2.08	-		816.49	-	6/5/2017	10:32	10:37
	6/2/2017	-	1.99	-		816.58	-	-	-	-
	5/31/2017	-	2.06	-		816.51	-	5/31/2017	10:56	11:01
	5/24/2017	-	1.85	-		816.72	-	5/26/2017	13:32	13:38
	5/22/2017	-	1.84	-		816.73	-	5/22/2017	10:26	10:30
	5/18/2017	-	2.19	-		816.38	-	5/19/2017	10:39	10:43
	5/15/2017	-	2.29	-		816.28	-	5/16/2017	10:09	10:13
	5/11/2017	-	2.22	-		816.35	-	5/14/2017	8:50	8:56
	5/7/2017	-	1.92	-		816.65	-	5/9/2017	12:31	12:34
	5/4/2017	-	2.18	-		816.39	-	5/5/2017	12:10	12:14
	4/27/2017	-	1.98	-		816.59	-	4/28/2017	9:15	9:21
	4/25/2017	-	1.77	-		816.80	-	4/25/2017	9:13	9:18
	4/20/2017	-	2.27	-		816.30	-	4/21/2017	10:17	10:22
	4/16/2017	2.15	2.16	0.01		816.41	816.42	-	-	-
	4/13/2017	-	2.28	-		816.29	-	4/13/2017	11:59	12:03
	4/10/2017	2.18	2.19	0.01		816.38	816.39	4/11/2017	10:22	10:26
	4/6/2017	-	1.84	-		816.73	-	4/7/2017	15:11	15:14
	4/3/2017	-	2.34	-		816.23	-	-	-	-
RT-2G					820.07			-	-	-
	3/5/2018	-	2.99	-		817.08	-	-	-	-
	2/21/2018	-	0.96	-		819.11	-	-	-	-
	2/9/2018	-	0.98	-		819.09	-	-	-	-
	2/2/2018	-	0.95	-		819.12	-	-	-	-
	1/26/2018	-	0.92	-		819.15	-	-	-	-
	1/20/2018	-	NM	-		-	-	-	-	-
	1/10/2018	-	4.44	-		815.63	-	1/15/2018	11:30	11:35
	1/5/2018	-	NM	-		-	-	1/8/2018	11:08	11:13
	12/27/2017	-	4.25	-		815.82	-	1/2/2018	12:35	12:40
	12/21/2017	-	3.62	-		816.45	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-2G (cont'd)	12/13/2017	-	4.43	-		815.64	-	-	-	-
	12/7/2017	-	3.82	-		816.25	-	12/7/2017	11:40	11:45
	12/1/2017	-	0.39	-		819.68	-	-	-	-
	11/22/2017	-	4.27	-		815.80	-	11/22/2017	10:40	10:45
	11/17/2017	-	4.11	-		815.96	-	-	-	-
	11/10/2017	-	0.25	-		819.82	-	-	-	-
	11/3/2017	-	0.25	-		819.82	-	-	-	-
	10/26/2017	-	3.43	-		816.64	-	10/25/2017	9:20	9:25
	10/20/2017	-	1.74	-		818.33	-	10/21/2017	10:50	10:55
	10/12/2017	-	3.65	-		816.42	-	10/10/2017	10:50	10:55
	10/6/2017	-	1.45	-		818.62	-	10/7/2017	10:30	10:35
	9/28/2017	-	3.42	-		816.65	-	9/28/2017	12:00	12:05
	9/21/2017	-	3.30	-		816.77	-	-	-	-
	9/15/2017	-	1.32	-		818.75	-	-	-	-
	9/5/2017	-	1.37	-		818.70	-	9/5/2017	10:05	10:10
	8/31/2017	-	3.47	-		816.60	-	-	-	-
	8/24/2017	-	2.98	-		817.09	-	8/24/2017	10:15	10:20
	8/21/2017	3.40	3.41	0.01		816.66	816.67	-	-	-
	8/17/2017	-	4.63	-		815.44	-	-	-	-
	8/14/2017	-	2.32	-		817.75	-	-	-	-
	8/9/2017	-	3.10	-		816.97	-	-	-	-
	8/2/2017	-	3.09	-		816.98	-	8/7/2017	10:45	10:50
	7/31/2017	-	3.19	-		816.88	-	8/1/2017	14:03	14:06
	7/27/2017	-	3.05	-		817.02	-	-	-	-
	7/24/2017	-	2.93	-		817.14	-	-	-	-
	7/20/2017	-	2.91	-		817.16	-	7/20/2017	11:30	11:35
	7/17/2017	-	3.21	-		816.86	-	7/17/2017	11:35	11:40
	7/13/2017	-	2.93	-		817.14	-	7/14/2017	10:30	10:38
	7/10/2017	-	2.58	-		817.49	-	7/11/2017	15:36	15:39
	7/6/2017	-	1.15	-		818.92	-	7/6/2017	11:30	11:33
	7/3/2017	-	2.65	-		817.42	-	7/3/2017	12:18	12:26
	6/29/2017	-	1.70	-		818.37	-	6/29/2017	10:42	10:48
	6/22/2017	-	2.79	-		817.28	-	6/24/2017	9:58	10:02
	6/19/2017	-	2.26	-		817.81	-	6/21/2017	10:11	10:14
	6/15/2017	-	2.91	-		817.16	-	6/16/2017	11:18	11:21
	6/12/2017	-	2.28	-		817.79	-	6/13/2017	10:26	10:32
	6/9/2017	-	0.98	-		819.09	-	-	-	-
	6/5/2017	-	2.81	-		817.26	-	6/5/2017	10:25	10:30
	6/2/2017	-	0.96	-		819.11	-	6/2/2017	12:51	12:56
	5/31/2017	-	2.41	-		817.66	-	5/31/2017	10:51	10:54
	5/24/2017	-	2.90	-		817.17	-	5/26/2017	11:30	11:37
	5/22/2017	-	2.76	-		817.31	-	5/22/2017	10:17	10:21
	5/18/2017	-	3.17	-		816.90	-	5/19/2017	10:34	10:38
	5/15/2017	-	2.99	-		817.08	-	5/16/2017	10:03	10:07
	5/11/2017	-	3.04	-		817.03	-	5/14/2017	8:40	8:47
	5/7/2017	-	4.08	-		815.99	-	5/9/2017	12:37	12:41
	5/4/2017	-	3.26	-		816.81	-	5/5/2017	12:01	12:06
	4/27/2017	-	3.13	-		816.94	-	4/28/2017	9:07	9:11
	4/25/2017	-	1.20	-		818.87	-	4/25/2017	9:04	9:10
	4/20/2017	-	3.41	-		816.66	-	4/21/2017	10:08	10:16
	4/16/2017	3.20	3.21	0.01		816.86	816.87	-	-	-
	4/13/2017	-	3.52	-		816.55	-	4/13/2017	12:07	12:11
	4/10/2017	2.06	2.07	0.01		818.00	818.01	4/11/2017	10:30	10:34
	4/6/2017	-	3.12	-		816.95	-	4/7/2017	15:16	15:18
	4/3/2017	-	3.65	-		816.42	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-2H					822.17			-	-	-
	3/5/2018	-	NM	-		-	-	-	-	-
	9/5/2017	-	NM	-		-	-	9/5/2017	10:10	10:15
	8/31/2017	-	NM	-		-	-	-	-	-
	8/24/2017	-	NM	-		-	-	8/24/2017	10:20	10:25
	8/21/2017	-	NM	-		-	-	-	-	-
	8/17/2017	-	NM	-		-	-	-	-	-
	8/14/2017	-	NM	-		-	-	-	-	-
	8/9/2017	-	NM	-		-	-	-	-	-
	8/2/2017	-	NM	-		-	-	-	-	-
	7/31/2017	-	NM	-		-	-	-	-	-
	7/27/2017	-	NM	-		-	-	-	-	-
	7/24/2017	-	NM	-		-	-	-	-	-
	7/20/2017	-	NM	-		-	-	-	-	-
	7/17/2017	-	NM	-		-	-	-	-	-
	7/13/2017	-	NM	-		-	-	-	-	-
	7/10/2017	-	NM	-		-	-	-	-	-
	7/6/2017	-	NM	-		-	-	-	-	-
	7/3/2017	-	NM	-		-	-	-	-	-
	6/29/2017	-	NM	-		-	-	-	-	-
	6/22/2017	-	NM	-		-	-	-	-	-
	6/19/2017	-	NM	-		-	-	-	-	-
	6/15/2017	-	NM	-		-	-	-	-	-
	6/12/2017	-	NM	-		-	-	-	-	-
	6/9/2017	-	NM	-		-	-	-	-	-
	6/5/2017	-	NM	-		-	-	-	-	-
	6/2/2017	-	NM	-		-	-	-	-	-
	5/31/2017	-	NM	-		-	-	-	-	-
	5/24/2017	-	NM	-		-	-	-	-	-
	5/22/2017	-	NM	-		-	-	-	-	-
	5/18/2017	-	NM	-		-	-	-	-	-
	5/15/2017	-	NM	-		-	-	-	-	-
	5/11/2017	-	NM	-		-	-	-	-	-
	5/7/2017	-	NM	-		-	-	-	-	-
	5/4/2017	-	NM	-		-	-	-	-	-
	4/27/2017	-	NM	-		-	-	-	-	-
	4/25/2017	-	NM	-		-	-	-	-	-
	4/20/2017	-	NM	-		-	-	-	-	-
	4/16/2017	-	NM	-		-	-	-	-	-
	4/13/2017	-	NM	-		-	-	-	-	-
	4/10/2017	-	NM	-		-	-	-	-	-
	4/6/2017	-	NM	-		-	-	-	-	-
	4/3/2017	-	NM	-		-	-	-	-	-
RT-2I					819.51			-	-	-
	3/5/2018	-	2.00	-		817.51	-	-	-	-
	2/21/2018	-	0.35	-		819.16	-	-	-	-
	2/9/2018	-	0.23	-		819.28	-	-	-	-
	2/2/2018	-	0.64	-		818.87	-	-	-	-
	1/26/2018	-	1.03	-		818.48	-	-	-	-
	1/20/2018	-	2.79	-		816.72	-	-	-	-
	1/10/2018	-	3.17	-		816.34	-	1/15/2018	11:35	11:40
	1/5/2018	-	NM	-		-	-	1/8/2018	11:13	11:18
	12/27/2017	-	3.12	-		816.39	-	1/2/2018	12:40	12:45
	12/21/2017	-	3.39	-		816.12	-	-	-	-
	12/13/2017	-	2.82	-		816.69	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-2I (cont'd)	12/7/2017	-	3.60	-		815.91	-	12/7/2017	11:50	11:55
	12/1/2017	-	3.12	-		816.39	-	-	-	-
	11/22/2017	-	2.58	-		816.93	-	11/22/2017	10:45	10:50
	11/17/2017	-	2.30	-		817.21	-	-	-	-
	11/10/2017	-	0.25	-		819.26	-	-	-	-
	11/3/2017	-	1.56	-		817.95	-	-	-	-
	10/26/2017	-	3.33	-		816.18	-	10/25/2017	9:25	9:30
	10/20/2017	-	3.46	-		816.05	-	10/21/2017	10:55	11:00
	10/12/2017	-	3.42	-		816.09	-	10/10/2017	10:55	11:00
	10/6/2017	-	1.34	-		818.17	-	10/7/2017	10:35	10:40
	9/28/2017	-	3.40	-		816.11	-	9/28/2017	12:10	12:15
	9/21/2017	-	3.30	-		816.21	-	-	-	-
	9/15/2017	-	NM	-		-	-	-	-	-
	9/5/2017	-	1.27	-		818.24	-	9/5/2017	10:15	10:20
	8/31/2017	-	3.38	-		816.13	-	-	-	-
	8/24/2017	-	3.38	-		816.13	-	8/24/2017	10:30	10:35
	8/21/2017	-	3.30	-		816.21	-	-	-	-
	8/17/2017	-	3.25	-		816.26	-	-	-	-
	8/14/2017	-	3.24	-		816.27	-	-	-	-
	8/9/2017	-	3.22	-		816.29	-	-	-	-
	8/2/2017	-	3.25	-		816.26	-	8/7/2017	10:50	10:55
	7/31/2017	-	3.23	-		816.28	-	8/1/2017	14:08	14:11
	7/27/2017	-	3.13	-		816.38	-	-	-	-
	7/24/2017	-	3.05	-		816.46	-	-	-	-
	7/20/2017	-	3.00	-		816.51	-	7/20/2017	11:40	11:45
	7/17/2017	-	2.86	-		816.65	-	7/17/2017	11:45	11:50
	7/13/2017	-	3.02	-		816.49	-	7/14/2017	10:40	10:43
	7/10/2017	-	2.98	-		816.53	-	7/11/2017	15:18	15:20
	7/6/2017	-	2.47	-		817.04	-	7/6/2017	11:08	11:13
	7/3/2017	-	2.71	-		816.80	-	7/3/2017	11:16	11:24
	6/29/2017	-	1.78	-		817.73	-	6/29/2017	10:07	10:13
	6/22/2017	-	2.95	-		816.56	-	6/24/2017	9:18	9:22
	6/19/2017	-	2.67	-		816.84	-	6/21/2017	9:39	9:42
	6/15/2017	-	3.01	-		816.50	-	6/16/2017	10:45	10:48
	6/12/2017	-	2.72	-		816.79	-	6/13/2017	9:31	9:40
	6/9/2017	-	2.13	-		817.38	-	6/11/2017	9:16	9:20
	6/5/2017	-	2.97	-		816.54	-	6/5/2017	12:31	12:36
	6/2/2017	-	1.97	-		817.54	-	6/2/2017	12:13	12:18
	5/31/2017	-	2.45	-		817.06	-	5/31/2017	10:17	10:22
	5/24/2017	-	2.66	-		816.85	-	5/26/2017	12:06	12:12
	5/22/2017	-	2.66	-		816.85	-	5/22/2017	11:12	11:16
	5/18/2017	-	3.18	-		816.33	-	5/19/2017	11:51	11:55
	5/15/2017	-	3.24	-		816.27	-	5/16/2017	10:51	10:54
	5/11/2017	-	3.16	-		816.35	-	5/14/2017	9:51	9:57
	5/7/2017	-	2.91	-		816.60	-	5/9/2017	12:51	12:55
	5/4/2017	3.25	3.26	0.01		816.25	816.26	5/5/2017	12:49	12:52
	4/27/2017	3.22	3.23	0.01		816.28	816.29	4/28/2017	10:32	10:41
	4/25/2017	-	2.27	-		817.24	-	4/25/2017	10:11	10:17
	4/20/2017	-	3.30	-		816.21	-	4/21/2017	11:28	11:36
	4/16/2017	-	1.62	-		817.89	-	-	-	-
	4/13/2017	-	3.30	-		816.21	-	4/13/2017	12:15	12:20
	4/10/2017	-	3.30	-		816.21	-	4/11/2017	10:36	10:40
	4/6/2017	3.12	3.13	0.01		816.38	816.39	4/7/2017	15:21	15:25
	4/3/2017	-	3.43	-		816.08	-	-	-	-
RT-2J					817.63			-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-2J (cont'd)	3/5/2018	-	0.49	-		817.14	-	-	-	-
	2/21/2018	-	-	-		817.63	-	-	-	-
	2/9/2018	-	NM	-		-	-	-	-	-
	2/2/2018	-	NM	-		-	-	-	-	-
	1/26/2018	-	0.04	-		817.59	-	-	-	-
	1/20/2018	-	1.08	-		816.55	-	-	-	-
	1/10/2018	-	1.62	-		816.01	-	1/15/2018	11:40	11:45
	1/5/2018	-	1.89	-		815.74	-	1/8/2018	11:18	11:23
	12/27/2017	-	1.41	-		816.22	-	1/2/2018	12:45	12:50
	12/21/2017	2.09	2.10	0.01		815.53	815.54	-	-	-
	12/13/2017	-	1.11	-		816.52	-	-	-	-
	12/7/2017	2.44	2.45	0.01		815.18	815.19	12/7/2017	11:55	12:00
	12/1/2017	-	0.65	-		816.98	-	-	-	-
	11/22/2017	-	0.99	-		816.64	-	11/22/2017	10:50	10:55
	11/17/2017	-	0.80	-		816.83	-	-	-	-
	11/10/2017	-	NM	-		-	-	-	-	-
	11/3/2017	-	-	-		817.63	-	-	-	-
	10/26/2017	-	2.04	-		815.59	-	10/25/2017	9:25	9:30
	10/20/2017	-	1.58	-		816.05	-	10/21/2017	11:00	11:05
	10/12/2017	-	2.20	-		815.43	-	10/10/2017	11:00	11:05
	10/6/2017	-	0.05	-		817.58	-	10/7/2017	10:40	10:45
	9/28/2017	-	1.98	-		815.65	-	9/28/2017	12:15	12:20
	9/21/2017	-	1.85	-		815.78	-	-	-	-
	9/15/2017	-	NM	-		-	-	-	-	-
	9/5/2017	-	NM	-		-	-	9/5/2017	10:20	10:25
	8/31/2017	-	2.05	-		815.58	-	-	-	-
	8/24/2017	-	1.90	-		815.73	-	8/24/2017	10:40	10:45
	8/21/2017	-	1.74	-		815.89	-	-	-	-
	8/17/2017	-	1.75	-		815.88	-	-	-	-
	8/14/2017	-	1.70	-		815.93	-	-	-	-
	8/9/2017	-	1.75	-		815.88	-	-	-	-
	8/2/2017	-	1.75	-		815.88	-	8/7/2017	10:55	11:00
	7/31/2017	-	1.78	-		815.85	-	8/1/2017	14:15	14:19
	7/27/2017	-	1.66	-		815.97	-	-	-	-
	7/24/2017	-	1.57	-		816.06	-	-	-	-
	7/20/2017	-	1.49	-		816.14	-	7/20/2017	11:45	11:50
	7/17/2017	-	1.41	-		816.22	-	7/17/2017	11:50	11:55
	7/13/2017	-	1.55	-		816.08	-	7/14/2017	10:48	10:52
	7/10/2017	-	1.47	-		816.16	-	7/11/2017	15:21	15:25
	7/6/2017	-	1.10	-		816.53	-	7/6/2017	11:15	11:20
	7/3/2017	-	1.33	-		816.30	-	7/3/2017	11:30	11:38
	6/29/2017	1.39	1.40	0.01		816.23	816.24	6/29/2017	10:15	10:20
	6/22/2017	-	1.52	-		816.11	-	6/24/2017	9:24	9:28
	6/19/2017	-	1.50	-		816.13	-	6/21/2017	9:47	9:51
	6/15/2017	2.51	2.52	0.01		815.11	815.12	6/16/2017	10:50	10:54
	6/12/2017	-	1.26	-		816.37	-	6/13/2017	9:43	9:51
	6/9/2017	-	0.50	-		817.13	-	6/11/2017	9:22	9:30
	6/5/2017	1.50	1.51	0.01		816.12	816.13	6/5/2017	12:40	12:45
	6/2/2017	1.16	1.17	0.01		816.46	816.47	6/2/2017	12:21	12:26
	5/31/2017	0.98	1.00	0.02		816.63	816.64	5/31/2017	10:24	10:28
	5/24/2017	-	1.27	-		816.36	-	5/26/2017	12:21	12:27
	5/22/2017	1.31	1.32	0.01		816.31	816.32	5/22/2017	11:18	11:21
	5/18/2017	1.80	1.81	0.01		815.82	815.83	5/19/2017	12:02	12:07
	5/15/2017	1.76	1.78	0.02		815.85	815.86	5/16/2017	10:56	11:01
	5/11/2017	1.72	1.78	0.06		815.85	815.89	5/14/2017	10:03	10:10

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-2J (cont'd)	5/7/2017	-	1.35	-		816.28	-	5/9/2017	13:01	13:06
	5/4/2017	1.93	1.94	0.01		815.69	815.70	5/5/2017	13:01	13:07
	4/27/2017	1.86	1.90	0.04		815.73	815.76	4/28/2017	10:44	10:51
	4/25/2017	-	1.01	-		816.62	-	4/25/2017	10:21	10:26
	4/20/2017	2.08	2.09	0.01		815.54	815.55	4/21/2017	11:18	11:26
	4/16/2017	0.25	0.26	0.01		817.37	817.38	-	-	-
	4/13/2017	2.06	2.07	0.01		815.56	815.57	4/13/2017	12:25	12:29
	4/10/2017	1.48	1.58	0.10		816.05	816.12	4/11/2017	10:43	10:48
	4/6/2017	1.68	1.70	0.02		815.93	815.94	4/7/2017	15:29	15:30
	4/3/2017	2.26	2.27	0.01		815.36	815.37	-	-	-
RT-2K					817.40			-	-	-
	3/5/2018	-	0.73	-		816.67	-	-	-	-
	2/21/2018	-	0.65	-		816.75	-	-	-	-
	2/13/2018	-	0.08	-		817.32	-	-	-	-
	2/9/2018	-	NM	-		-	-	-	-	-
	2/2/2018	-	NM	-		-	-	2/2/2018	11:45	11:50
	1/20/2018	1.35	1.36	0.01		816.04	816.05	1/26/2018	11:00	11:05
	1/10/2018	-	NM	-		-	-	1/15/2018	11:45	11:50
	1/5/2018	-	NM	-		-	-	1/8/2018	11:23	11:28
	12/27/2017	1.24	1.25	0.01		816.15	816.16	1/2/2018	12:50	12:55
	12/21/2017	-	NM	-		-	-	-	-	-
	12/13/2017	-	NM	-		-	-	-	-	-
	12/7/2017	-	NM	-		-	-	12/7/2017	12:00	12:05
	12/1/2017	-	NM	-		-	-	-	-	-
	11/22/2017	-	NM	-		-	-	-	-	-
	11/17/2017	-	NM	-		-	-	-	-	-
	11/10/2017	-	NM	-		-	-	11/9/2017	9:10	9:15
	11/3/2017	-	NM	-		-	-	11/3/2017	10:40	10:45
	10/26/2017	-	NM	-		-	-	10/25/2017	9:35	9:40
	10/20/2017	1.79	1.92	0.13		815.48	815.57	10/21/2017	11:05	11:10
	10/12/2017	1.43	1.57	0.14		815.83	815.93	10/21/2017	11:05	11:01
	10/6/2017	1.79	1.93	0.14		815.47	815.57	10/7/2017	10:45	10:50
	9/28/2017	1.59	1.73	0.14		815.67	815.77	9/28/2017	12:20	12:25
	9/21/2017	-	NM	-		-	-	-	-	-
	9/15/2017	-	NM	-		-	-	-	-	-
	9/5/2017	1.41	1.53	0.12		815.87	815.96	9/5/2017	10:25	10:30
	8/31/2017	1.68	1.80	0.12		815.60	815.69	-	-	-
	8/24/2017	0.60	0.72	0.12		816.68	816.77	8/24/2017	10:45	10:50
	8/21/2017	1.47	1.65	0.18		815.75	815.88	-	-	-
	8/17/2017	1.44	1.55	0.11		815.85	815.93	-	-	-
	8/14/2017	1.41	1.61	0.20		815.79	815.94	-	-	-
	8/9/2017	1.39	1.50	0.11		815.90	815.98	-	-	-
	8/2/2017	1.64	1.75	0.11		815.65	815.73	8/7/2017	11:05	11:10
	7/31/2017	-	NM	-		-	-	8/1/2017	14:21	14:25
	7/27/2017	-	NM	-		-	-	-	-	-
	7/24/2017	-	NM	-		-	-	-	-	-
	7/20/2017	-	NM	-		-	-	7/20/2017	11:50	11:55
	7/17/2017	1.26	1.36	0.10		816.04	816.11	7/17/2017	11:55	12:00
	7/13/2017	1.48	1.58	0.10		815.82	815.89	7/14/2017	10:54	10:59
	7/10/2017	-	NM	-		-	-	7/11/2017	15:27	15:29
	7/6/2017	-	2.96	-		814.44	-	7/6/2017	11:21	11:24
	7/3/2017	-	2.44	-		814.96	-	7/3/2017	11:44	11:56
	6/29/2017	-	2.65	-		814.75	-	6/29/2017	10:22	10:27
	6/22/2017	-	3.07	-		814.33	-	6/24/2017	9:30	9:34
	6/19/2017	-	2.34	-		815.06	-	6/21/2017	9:55	9:59

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-2K (cont'd)	6/15/2017	-	2.59	-		814.81	-	6/16/2017	10:56	10:59
	6/12/2017	1.21	1.25	0.04		816.15	816.18	6/13/2017	9:58	10:05
	6/9/2017	-	2.39	-		815.01	-	6/11/2017	9:33	9:40
	6/5/2017	0.85	0.87	0.02		816.53	816.54	6/5/2017	12:50	12:56
	6/2/2017	0.98	1.00	0.02		816.40	816.41	6/2/2017	12:30	12:36
	5/31/2017	0.95	0.97	0.02		816.43	816.44	5/31/2017	10:31	10:35
	5/24/2017	0.99	1.00	0.01		816.40	816.41	5/26/2017	12:33	12:40
	5/22/2017	1.45	1.47	0.02		815.93	815.94	5/22/2017	11:25	11:29
	5/18/2017	-	2.45	-		814.95	-	5/19/2017	12:15	12:20
	5/15/2017	2.80	2.81	0.01		814.59	814.60	5/16/2017	11:03	11:07
	5/11/2017	-	2.34	-		815.06	-	5/14/2017	10:15	10:21
	5/7/2017	-	2.53	-		814.87	-	5/9/2017	13:08	13:13
	5/4/2017	-	2.66	-		814.74	-	5/5/2017	13:10	13:14
	4/27/2017	-	2.85	-		814.55	-	4/28/2017	10:55	11:01
	4/25/2017	-	2.75	-		814.65	-	4/25/2017	10:31	10:35
	4/20/2017	-	2.36	-		815.04	-	4/21/2017	11:39	11:44
	4/16/2017	2.58	2.59	0.01		814.81	814.82	-	-	-
	4/13/2017	2.30	2.31	0.01		815.09	815.10	4/13/2017	12:31	12:34
	4/10/2017	2.73	2.75	0.02		814.65	814.66	4/11/2017	10:52	10:56
	4/6/2017	2.60	2.61	0.01		814.79	814.80	4/7/2017	15:32	15:36
	4/3/2017	2.71	2.72	0.01		814.68	814.69	-	-	-
RT-2L					819.54			-	-	-
	3/5/2018	-	1.19	-		818.35	-	-	-	-
	2/21/2018	-	1.55	-		817.99	-	-	-	-
	2/9/2018	-	1.34	-		818.20	-	-	-	-
	2/2/2018	-	1.95	-		817.59	-	2/2/2018	11:50	11:55
	1/26/2018	2.48	2.49	0.01		817.05	817.06	1/26/2018	10:50	10:55
	1/20/2018	2.30	2.31	0.01		817.23	817.24	-	-	-
	1/10/2018	2.52	2.54	0.02		817.00	817.01	1/15/2018	11:50	11:55
	1/5/2018	-	2.67	-		816.87	-	1/8/2018	11:28	11:33
	12/27/2017	-	2.25	-		817.29	-	1/2/2018	12:55	13:00
	12/21/2017	-	2.34	-		817.20	-	-	-	-
	12/13/2017	-	2.36	-		817.18	-	-	-	-
	12/7/2017	2.66	2.67	0.01		816.87	816.88	12/7/2017	12:05	12:10
	12/1/2017	-	2.60	-		816.94	-	-	-	-
	11/22/2017	-	2.39	-		817.15	-	11/22/2017	10:55	11:00
	11/17/2017	-	2.33	-		817.21	-	-	-	-
	11/10/2017	-	2.31	-		817.23	-	11/9/2017	9:15	9:20
	11/3/2017	-	2.27	-		817.27	-	11/3/2017	10:45	10:50
	10/26/2017	-	2.58	-		816.96	-	10/25/2017	9:40	9:45
	10/20/2017	2.90	2.96	0.06		816.58	816.62	10/21/2017	11:10	11:15
	10/12/2017	2.88	2.92	0.04		816.62	816.65	10/10/2017	11:10	11:15
	10/6/2017	2.76	2.78	0.02		816.76	816.77	10/7/2017	10:50	10:55
	9/28/2017	2.76	2.79	0.03		816.75	816.77	9/28/2017	12:25	12:30
	9/21/2017	2.62	2.64	0.02		816.90	816.91	-	-	-
	9/15/2017	2.24	2.25	0.01		817.29	817.30	-	-	-
	9/5/2017	2.53	2.55	0.02		816.99	817.00	9/5/2017	10:30	10:35
	8/31/2017	2.86	2.92	0.06		816.62	816.66	-	-	-
	8/24/2017	2.80	2.83	0.03		816.71	816.73	8/24/2017	10:50	10:55
	8/21/2017	2.69	2.77	0.08		816.77	816.83	-	-	-
	8/17/2017	2.62	2.64	0.02		816.90	816.91	-	-	-
	8/14/2017	2.62	2.70	0.08		816.84	816.90	-	-	-
	8/9/2017	2.89	2.92	0.03		816.62	816.64	-	-	-
	8/2/2017	-	2.61	-		816.93	-	8/7/2017	11:12	11:17
	7/31/2017	2.55	2.56	0.01		816.98	816.99	8/1/2017	14:27	14:32

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-2L (cont'd)	7/27/2017	2.43	2.44	0.01		817.10	817.11	-	-	-
	7/24/2017	2.42	2.43	0.01		817.11	817.12	-	-	-
	7/20/2017	2.27	2.33	0.06		817.21	817.25	7/20/2017	11:55	12:00
	7/17/2017	2.26	2.28	0.02		817.26	817.27	7/17/2017	12:00	12:05
	7/13/2017	2.34	2.37	0.03		817.17	817.19	7/14/2017	11:03	11:06
	7/10/2017	2.55	2.59	0.04		816.95	816.98	7/11/2017	15:31	15:34
	7/6/2017	2.20	2.21	0.01		817.33	817.34	7/6/2017	11:25	11:28
	7/3/2017	2.16	2.21	0.05		817.33	817.37	7/3/2017	12:02	12:11
	6/29/2017	2.17	2.23	0.06		817.31	817.35	6/29/2017	10:30	10:34
	6/22/2017	2.81	2.86	0.05		816.68	816.72	6/24/2017	9:39	9:41
	6/19/2017	2.32	2.33	0.01		817.21	817.22	6/21/2017	10:01	10:04
	6/15/2017	2.42	2.49	0.07		817.05	817.10	6/16/2017	11:06	11:10
	6/12/2017	2.28	2.31	0.03		817.23	817.25	6/13/2017	10:00	10:15
	6/9/2017	2.15	2.21	0.06		817.33	817.37	6/11/2017	9:44	9:48
	6/5/2017	-	2.10	-		817.44	-	6/5/2017	13:03	13:08
	6/2/2017	-	1.97	-		817.57	-	6/2/2017	12:40	12:46
	5/31/2017	-	2.20	-		817.34	-	5/31/2017	10:38	10:41
	5/24/2017	-	1.92	-		817.62	-	5/26/2017	13:07	13:14
	5/22/2017	-	2.08	-		817.46	-	5/22/2017	11:32	11:36
	5/18/2017	-	2.38	-		817.16	-	5/19/2017	12:35	12:40
	5/15/2017	-	3.24	-		816.30	-	5/16/2017	11:10	11:15
	5/11/2017	-	2.37	-		817.17	-	5/14/2017	10:27	10:31
	5/7/2017	-	1.90	-		817.64	-	5/9/2017	13:15	13:19
	5/4/2017	2.35	2.36	0.01		817.18	817.19	5/5/2017	13:19	13:25
	4/27/2017	2.15	2.17	0.02		817.37	817.38	4/28/2017	11:04	11:11
	4/25/2017	1.95	2.00	0.05		817.54	817.58	4/25/2017	10:37	10:42
	4/20/2017	2.60	2.65	0.05		816.89	816.93	4/21/2017	11:46	11:52
	4/16/2017	2.25	2.32	0.07		817.22	817.27	-	-	-
	4/13/2017	3.60	3.67	0.07		815.87	815.92	4/13/2017	12:37	12:42
	4/10/2017	2.55	2.65	0.10		816.89	816.96	4/11/2017	10:59	11:03
	4/6/2017	2.42	2.52	0.10		817.02	817.09	4/7/2017	15:41	15:46
	4/3/2017	2.78	2.82	0.04		816.72	816.75	-	-	-
RW-01					851.92			-	-	-
	3/5/2018	-	12.80	-		839.12	-	-	-	-
	2/21/2018	-	12.77	-		839.15	-	-	-	-
	2/3/2018	-	13.20	-		838.72	-	-	-	-
	12/27/2017	-	12.54	-		839.38	-	-	-	-
	11/12/2017	-	13.41	-		838.51	-	-	-	-
	10/21/2017	-	16.30	-		835.62	-	-	-	-
	9/10/2017	-	14.20	-		837.72	-	-	-	-
	8/21/2017	-	14.90	-		837.02	-	-	-	-
	8/17/2017	-	14.62	-		837.30	-	-	-	-
	8/14/2017	-	14.60	-		837.32	-	-	-	-
	8/9/2017	-	14.45	-		837.47	-	-	-	-
	8/2/2017	-	14.10	-		837.82	-	-	-	-
	7/31/2017	-	14.05	-		837.87	-	-	-	-
	7/27/2017	-	13.73	-		838.19	-	-	-	-
	7/24/2017	-	13.47	-		838.45	-	-	-	-
	7/20/2017	-	12.91	-		839.01	-	-	-	-
	7/17/2017	-	12.97	-		838.95	-	-	-	-
	7/13/2017	-	13.33	-		838.59	-	-	-	-
	7/10/2017	-	13.00	-		838.92	-	-	-	-
	7/6/2017	-	12.80	-		839.12	-	-	-	-
	7/3/2017	-	12.55	-		839.37	-	-	-	-
	6/29/2017	-	12.27	-		839.65	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-01 (cont'd)	6/22/2017	-	12.17	-		839.75	-	-	-	-
	6/19/2017	-	12.56	-		839.36	-	-	-	-
	6/15/2017	-	12.04	-		839.88	-	-	-	-
	6/12/2017	-	12.81	-		839.11	-	-	-	-
	6/9/2017	-	12.83	-		839.09	-	-	-	-
	6/5/2017	-	11.72	-		840.20	-	-	-	-
	6/2/2017	-	11.77	-		840.15	-	-	-	-
	5/31/2017	-	13.68	-		838.24	-	-	-	-
	5/24/2017	-	11.76	-		840.16	-	-	-	-
	5/22/2017	-	11.77	-		840.15	-	-	-	-
	5/18/2017	-	11.79	-		840.13	-	-	-	-
	5/15/2017	11.84	11.89	0.05		840.03	840.07	-	-	-
	5/11/2017	-	11.52	-		840.40	-	-	-	-
	5/7/2017	-	11.59	-		840.33	-	-	-	-
	5/4/2017	-	11.55	-		840.37	-	-	-	-
	4/27/2017	-	10.73	-		841.19	-	-	-	-
	4/25/2017	-	10.83	-		841.09	-	-	-	-
	4/20/2017	13.11	13.12	0.01		838.80	838.81	-	-	-
	4/16/2017	-	12.60	-		839.32	-	-	-	-
	4/13/2017	-	12.06	-		839.86	-	-	-	-
	4/10/2017	-	11.72	-		840.20	-	-	-	-
	4/6/2017	-	11.51	-		840.41	-	-	-	-
	4/3/2017	-	14.28	-		837.64	-	-	-	-
RW-02					852.69			-	-	-
	3/5/2018	20.76	20.80	0.04		831.89	831.92	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/13/2018	21.56	21.57	0.01		831.12	831.13	-	-	-
	2/9/2018	21.75	21.81	0.06		830.88	830.92	-	-	-
	2/2/2018	22.68	22.85	0.17		829.84	829.96	-	-	-
	12/27/2017	23.51	24.10	**0.59**		828.59	829.02	1/2/2018	10:58	11:03
	11/12/2017	22.80	23.15	0.35		829.54	829.79	-	-	-
	10/21/2017	24.32	24.66	0.34		828.03	828.28	-	-	-
	9/10/2017	22.85	23.10	0.25		829.59	829.77	-	-	-
	8/21/2017	22.46	22.80	0.34		829.89	830.14	-	-	-
	8/17/2017	22.38	22.68	0.30		830.01	830.23	-	-	-
	8/14/2017	22.35	22.64	0.29		830.05	830.26	-	-	-
	8/9/2017	22.22	22.50	0.28		830.19	830.39	-	-	-
	8/2/2017	21.95	22.32	0.37		830.37	830.64	-	-	-
	7/31/2017	21.91	22.31	0.40		830.38	830.67	-	-	-
	7/27/2017	21.69	22.05	0.36		830.64	830.90	-	-	-
	7/24/2017	21.63	22.00	0.37		830.69	830.96	-	-	-
	7/20/2017	21.48	21.83	0.35		830.86	831.11	-	-	-
	7/17/2017	21.41	21.74	0.33		830.95	831.19	-	-	-
	7/13/2017	21.40	21.72	0.32		830.97	831.20	-	-	-
	7/10/2017	21.29	21.58	0.29		831.11	831.32	-	-	-
	7/6/2017	21.22	21.49	0.27		831.20	831.40	-	-	-
	7/3/2017	21.10	21.37	0.27		831.32	831.52	-	-	-
	6/29/2017	21.03	21.26	0.23		831.43	831.60	-	-	-
	6/22/2017	21.34	21.62	0.28		831.07	831.27	-	-	-
	6/19/2017	21.47	21.81	0.34		830.88	831.13	-	-	-
	6/15/2017	21.37	21.67	0.30		831.02	831.24	-	-	-
	6/12/2017	21.28	21.50	0.22		831.19	831.35	-	-	-
	6/9/2017	21.26	21.48	0.22		831.21	831.37	-	-	-
	6/5/2017	21.38	21.60	0.22		831.09	831.25	-	-	-
	6/2/2017	21.50	21.73	0.23		830.96	831.13	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-02 (cont'd)	5/31/2017	21.60	22.00	0.40		830.69	830.98	5/31/2017	13:07	13:14
	5/24/2017	21.61	21.86	0.25		830.83	831.01	-	-	-
	5/22/2017	22.14	22.43	0.29		830.26	830.47	-	-	-
	5/18/2017	22.31	22.61	0.30		830.08	830.30	-	-	-
	5/15/2017	22.29	22.79	0.50		829.90	830.26	5/16/2017	12:02	12:07
	5/11/2017	22.41	23.16	**0.75**		829.53	830.08	5/14/2017	11:20	11:29
	5/7/2017	22.93	23.60	**0.67**		829.09	829.58	-	-	-
	5/4/2017	23.40	23.64	0.24		829.05	829.22	-	-	-
	4/27/2017	23.50	23.97	0.47		828.72	829.06	-	-	-
	4/25/2017	23.81	24.18	0.37		828.51	828.78	-	-	-
	4/20/2017	24.24	24.80	**0.56**		827.89	828.30	-	-	-
	4/16/2017	24.32	24.83	**0.51**		827.86	828.23	-	-	-
	4/13/2017	24.39	24.80	0.41		827.89	828.19	-	-	-
	4/10/2017	24.35	25.65	**1.30**		827.04	827.99	4/11/2017	11:18	11:21
	4/6/2017	24.85	NO WATER	**0.87**		-	-	-	-	-
	4/3/2017	25.58	NO WATER	0.14		-	-	-	-	-
RW-03					852.34			-	-	-
	3/5/2018	-	21.71	-		830.63	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/13/2018	-	22.43	-		829.91	-	-	-	-
	2/3/2018	23.60	23.61	0.01		828.73	828.74	-	-	-
	12/27/2017	24.20	24.25	0.05		828.09	828.13	-	-	-
	11/12/2017	23.46	23.47	0.01		828.87	828.88	-	-	-
	10/21/2017	24.51	24.53	0.02		827.81	827.82	-	-	-
	9/10/2017	23.25	23.26	0.01		829.08	829.09	-	-	-
	8/21/2017	22.72	22.80	0.08		829.54	829.60	-	-	-
	8/17/2017	22.68	22.71	0.03		829.63	829.65	-	-	-
	8/14/2017	22.64	22.68	0.04		829.66	829.69	-	-	-
	8/9/2017	22.52	22.55	0.03		829.79	829.81	-	-	-
	8/2/2017	22.35	22.39	0.04		829.95	829.98	-	-	-
	7/31/2017	22.34	22.38	0.04		829.96	829.99	-	-	-
	7/27/2017	22.12	22.14	0.02		830.20	830.21	-	-	-
	7/24/2017	22.11	22.12	0.01		830.22	830.23	-	-	-
	7/20/2017	-	22.01	-		830.33	-	-	-	-
	7/17/2017	-	21.96	-		830.38	-	-	-	-
	7/13/2017	21.86	21.87	0.01		830.47	830.48	-	-	-
	7/10/2017	-	21.79	-		830.55	-	-	-	-
	7/6/2017	-	21.80	-		830.54	-	-	-	-
	7/3/2017	-	21.17	-		831.17	-	-	-	-
	6/29/2017	-	21.72	-		830.62	-	-	-	-
	6/22/2017	-	22.01	-		830.33	-	-	-	-
	6/19/2017	-	22.10	-		830.24	-	-	-	-
	6/15/2017	-	22.00	-		830.34	-	-	-	-
	6/12/2017	-	21.98	-		830.36	-	-	-	-
	6/9/2017	-	22.30	-		830.04	-	-	-	-
	6/5/2017	-	22.05	-		830.29	-	-	-	-
	6/2/2017	-	22.19	-		830.15	-	-	-	-
	5/31/2017	-	24.52	-		827.82	-	-	-	-
	5/24/2017	-	22.09	-		830.25	-	-	-	-
	5/22/2017	22.61	22.62	0.01		829.72	829.73	-	-	-
	5/18/2017	-	22.81	-		829.53	-	-	-	-
	5/15/2017	23.00	23.02	0.02		829.32	829.33	-	-	-
	5/11/2017	-	23.16	-		829.18	-	-	-	-
	5/7/2017	-	23.81	-		828.53	-	-	-	-
	5/4/2017	-	25.90	-		826.44	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-03 (cont'd)	4/27/2017	-	24.36	-		827.98	-	-	-	-
	4/25/2017	-	24.55	-		827.79	-	-	-	-
	4/20/2017	-	24.81	-		827.53	-	-	-	-
	4/16/2017	24.91	24.92	0.01		827.42	827.43	-	-	-
	4/13/2017	25.01	25.02	0.01		827.32	827.33	-	-	-
	4/10/2017	25.03	25.05	0.02		827.29	827.30	-	-	-
	4/6/2017	25.45	25.46	0.01		826.88	826.89	-	-	-
	4/3/2017	25.56	25.57	0.01		826.77	826.78	-	-	-
RW-04					853.93			-	-	-
	3/5/2018	27.62	28.40	**0.78**		825.53	826.10	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/13/2018	28.52	29.17	**0.65**		824.76	825.24	-	-	-
	2/9/2018	28.93	29.39	0.46		824.54	824.88	-	-	-
	2/2/2018	29.54	29.74	0.20		824.19	824.34	2/2/2018	12:30	12:35
	1/26/2018	29.99	30.04	0.05		823.89	823.93	1/26/2018	9:45	9:50
	1/20/2018	30.23	30.54	0.31		823.39	823.62	-	-	-
	1/10/2018	30.57	30.65	0.08		823.28	823.34	1/15/2018	10:10	10:15
	1/5/2018	30.11	30.26	0.15		823.67	823.78	1/8/2018	9:50	9:55
	12/27/2017	29.77	30.35	**0.58**		823.58	824.01	1/2/2018	11:09	11:14
	12/21/2017	24.34	24.93	**0.59**		829.00	829.43	12/22/2017	10:40	10:45
	12/13/2017	29.44	29.84	0.40		824.09	824.38	12/14/2017	10:35	10:40
	12/7/2017	29.46	29.77	0.31		824.16	824.39	12/7/2017	10:15	10:20
	12/1/2017	29.49	29.67	0.18		824.26	824.39	-	-	-
	11/22/2017	29.59	29.86	0.27		824.07	824.27	11/22/2017	11:53	11:58
	11/17/2017	29.67	29.90	0.23		824.03	824.20	-	-	-
	11/10/2017	29.90	30.17	0.27		823.76	823.96	11/9/2017	10:50	10:55
	11/3/2017	30.17	30.56	0.39		823.37	823.66	11/3/2017	9:50	9:55
	10/26/2017	30.58	30.67	0.09		823.26	823.33	10/25/2017	9:50	9:55
	10/20/2017	30.70	31.05	0.35		822.88	823.14	10/21/2017	9:35	9:40
	10/12/2017	30.71	30.80	0.09		823.13	823.20	10/10/2017	9:35	9:40
	10/6/2017	30.33	30.87	**0.54**		823.06	823.46	10/7/2017	11:05	11:10
	9/28/2017	29.62	30.01	0.39		823.92	824.21	9/28/2017	12:40	12:45
	9/21/2017	29.34	29.66	0.32		824.27	824.51	-	-	-
	9/15/2017	29.46	29.78	0.32		824.15	824.39	-	-	-
	9/5/2017	29.46	29.79	0.33		824.14	824.38	9/5/2017	9:15	9:20
	8/31/2017	29.40	29.70	0.30		824.23	824.45	-	-	-
	8/24/2017	29.20	29.35	0.15		824.58	824.69	8/24/2017	9:15	9:20
	8/21/2017	28.96	29.43	0.47		824.50	824.85	-	-	-
	8/17/2017	28.90	29.25	0.35		824.68	824.94	8/17/2017	9:50	9:55
	8/14/2017	28.76	29.50	**0.74**		824.43	824.97	-	-	-
	8/9/2017	28.65	29.33	**0.68**		824.60	825.10	-	-	-
	8/2/2017	28.31	28.98	**0.67**		824.95	825.44	8/7/2017	11:45	11:50
	7/31/2017	28.28	28.96	**0.68**		824.97	825.47	-	-	-
	7/27/2017	28.15	28.77	**0.62**		825.16	825.61	-	-	-
	7/24/2017	28.10	28.70	**0.60**		825.23	825.67	-	-	-
	7/20/2017	28.05	28.56	**0.51**		825.37	825.74	7/20/2017	12:25	12:30
	7/17/2017	28.02	28.51	0.49		825.42	825.78	7/17/2017	11:45	11:50
	7/13/2017	28.02	28.45	0.43		825.48	825.80	-	-	-
	7/10/2017	27.99	28.34	0.35		825.59	825.85	-	-	-
	7/6/2017	28.05	28.41	0.36		825.52	825.78	-	-	-
	7/3/2017	28.03	28.31	0.28		825.62	825.83	-	-	-
	6/29/2017	28.05	28.56	**0.51**		825.37	825.74	-	-	-
	6/22/2017	28.23	28.71	0.48		825.22	825.57	6/24/2017	11:31	11:39
	6/19/2017	28.21	28.64	0.43		825.29	825.61	6/21/2017	11:47	11:56
	6/15/2017	28.28	28.62	0.34		825.31	825.56	6/16/2017	12:36	12:43

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-04 (cont'd)	6/12/2017	28.28	28.70	0.42		825.23	825.54	6/13/2017	14:09	14:20
	6/9/2017	28.32	28.99	**0.67**		824.94	825.43	6/11/2017	11:15	11:26
	6/5/2017	28.34	29.27	**0.93**		824.66	825.34	6/5/2017	13:57	14:10
	6/2/2017	28.52	29.36	**0.84**		824.57	825.19	6/2/2017	14:35	14:39
	5/31/2017	28.57	29.35	**0.78**		824.58	825.15	5/31/2017	12:48	13:01
	5/24/2017	-	28.95	-		824.98	-	5/26/2017	10:32	10:39
	5/22/2017	29.12	29.70	**0.58**		824.23	824.66	5/22/2017	12:19	12:28
	5/18/2017	29.33	29.73	0.40		824.20	824.49	-	-	-
	5/15/2017	29.46	29.82	0.36		824.11	824.37	5/16/2017	11:48	11:55
	5/11/2017	29.66	30.13	0.47		823.80	824.15	5/14/2017	11:07	11:16
	5/7/2017	29.90	30.38	0.48		823.55	823.90	5/9/2017	13:30	13:35
	5/4/2017	30.05	30.45	0.40		823.48	823.77	-	-	-
	4/27/2017	30.44	31.34	**0.90**		822.59	823.25	4/28/2017	12:10	12:21
	4/25/2017	30.56	31.54	**0.98**		822.39	823.11	-	-	-
	4/20/2017	30.75	31.70	**0.95**		822.23	822.93	4/21/2017	12:30	12:39
	4/16/2017	30.88	31.97	**1.09**		821.96	822.76	-	-	-
	4/13/2017	31.07	31.95	**0.88**		821.98	822.62	4/13/2017	12:57	13:01
	4/10/2017	31.11	32.07	**0.96**		821.86	822.56	4/11/2017	11:10	11:14
	4/6/2017	31.32	32.20	**0.88**		821.73	822.37	-	-	-
	4/3/2017	31.24	32.20	**0.96**		821.73	822.43	-	-	-
RW-05					853.53			-	-	-
	3/5/2018	30.93	31.46	**0.53**		822.07	822.46	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/9/2018	32.33	33.13	**0.80**		820.40	820.99	-	-	-
	2/2/2018	32.92	33.68	**0.76**		819.85	820.41	2/2/2018	12:20	12:25
	1/26/2018	33.39	33.73	0.34		819.80	820.05	1/26/2018	9:55	10:00
	1/20/2018	32.96	34.05	**1.09**		819.48	820.28	-	-	-
	1/10/2018	33.13	33.53	0.40		820.00	820.30	1/15/2018	10:15	10:20
	1/5/2018	33.35	33.99	**0.64**		819.54	820.01	1/8/2018	10:01	10:06
	12/27/2017	32.78	33.95	**1.17**		819.58	820.44	1/2/2018	11:23	11:28
	12/21/2017	32.85	34.19	**1.34**		819.34	820.32	12/22/2017	10:55	11:00
	12/13/2017	32.83	33.83	**1.00**		819.70	820.43	12/14/2017	10:45	10:50
	12/7/2017	33.01	33.71	**0.70**		819.82	820.33	12/7/2017	10:25	10:30
	12/1/2017	33.32	33.69	0.37		819.84	820.11	-	-	-
	11/22/2017	32.88	34.03	**1.15**		819.50	820.34	11/22/2017	11:43	11:48
	11/17/2017	33.00	33.99	**0.99**		819.54	820.27	-	-	-
	11/10/2017	33.31	34.13	**0.82**		819.40	820.00	11/9/2017	10:40	10:45
	11/3/2017	33.47	34.04	**0.57**		819.49	819.91	11/3/2017	9:55	10:00
	10/26/2017	33.67	33.88	0.21		819.65	819.81	10/25/2017	9:55	10:00
	10/20/2017	33.84	34.74	**0.90**		818.79	819.45	10/21/2017	9:40	9:45
	10/12/2017	33.84	34.43	**0.59**		819.10	819.53	10/10/2017	9:40	9:45
	10/6/2017	33.21	34.89	**1.68**		818.64	819.87	10/7/2017	11:10	11:15
	9/28/2017	32.98	34.76	**1.78**		818.77	820.07	9/28/2017	12:50	12:55
	9/21/2017	32.87	33.58	**0.71**		819.95	820.47	-	-	-
	9/15/2017	32.90	34.76	**1.86**		818.77	820.13	-	-	-
	9/5/2017	32.97	34.82	**1.85**		818.71	820.06	9/5/2017	9:20	9:25
	8/31/2017	33.10	34.21	**1.11**		819.32	820.13	-	-	-
	8/24/2017	32.98	33.67	**0.69**		819.86	820.37	8/24/2017	9:20	9:25
	8/21/2017	32.74	34.36	**1.62**		819.17	820.36	-	-	-
	8/17/2017	33.75	34.77	**1.02**		818.76	819.51	8/17/2017	9:55	10:00
	8/14/2017	32.41	34.30	**1.89**		819.23	820.61	-	-	-
	8/9/2017	28.65	29.33	**0.68**		824.20	824.70	-	-	-
	8/2/2017	32.09	33.85	**1.76**		819.68	820.97	8/7/2017	11:58	12:05
	7/31/2017	32.02	33.86	**1.84**		819.67	821.02	-	-	-
	7/27/2017	31.92	33.63	**1.71**		819.90	821.15	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-05 (cont'd)	7/24/2017	31.89	33.36	**1.47**		820.17	821.25	-	-	-
	7/20/2017	31.93	33.04	**1.11**		820.49	821.30	7/20/2017	12:15	12:20
	7/17/2017	31.88	32.86	**0.98**		820.67	821.39	7/17/2017	11:58	12:05
	7/13/2017	31.90	32.65	**0.75**		820.88	821.43	-	-	-
	7/10/2017	31.95	32.61	**0.66**		820.92	821.41	-	-	-
	7/6/2017	31.95	32.39	0.44		821.14	821.46	-	-	-
	7/3/2017	32.05	32.37	0.32		821.16	821.40	-	-	-
	6/29/2017	31.93	32.73	**0.80**		820.80	821.39	-	-	-
	6/22/2017	32.11	32.72	**0.61**		820.81	821.26	6/24/2017	11:17	11:22
	6/19/2017	32.17	32.75	**0.58**		820.78	821.21	6/21/2017	11:25	11:38
	6/15/2017	32.13	32.59	0.46		820.94	821.28	-	-	-
	6/12/2017	32.24	32.65	0.41		820.88	821.18	-	-	-
	6/9/2017	32.33	32.71	0.38		820.82	821.10	-	-	-
	6/5/2017	32.22	32.45	0.23		821.08	821.25	-	-	-
	6/2/2017	32.42	32.66	0.24		820.87	821.05	-	-	-
	5/31/2017	32.43	32.89	0.46		820.64	820.98	-	-	-
	5/24/2017	32.56	32.86	0.30		820.67	820.89	-	-	-
	5/22/2017	32.71	32.94	0.23		820.59	820.76	-	-	-
	5/18/2017	32.80	32.96	0.16		820.57	820.69	-	-	-
	5/15/2017	32.76	33.27	**0.51**		820.26	820.64	5/16/2017	11:41	11:45
	5/11/2017	32.73	33.16	0.43		820.37	820.69	-	-	-
	5/7/2017	32.75	33.07	0.32		820.46	820.70	-	-	-
	5/4/2017	32.85	33.22	0.37		820.31	820.58	-	-	-
	4/27/2017	33.13	33.42	0.29		820.11	820.33	-	-	-
	4/25/2017	33.41	33.70	0.29		819.83	820.05	-	-	-
	4/20/2017	33.49	33.70	0.21		819.83	819.99	-	-	-
	4/16/2017	33.43	33.87	0.44		819.66	819.98	-	-	-
	4/13/2017	33.63	34.05	0.42		819.48	819.79	-	-	-
	4/10/2017	33.77	34.22	0.45		819.31	819.64	-	-	-
	4/6/2017	33.79	34.15	0.36		819.38	819.65	-	-	-
	4/3/2017	33.88	34.23	0.35		819.30	819.56	-	-	-
RW-06					846.21			-	-	-
	3/5/2018	-	24.98	-		821.23	-	-	-	-
	2/21/2018	-	25.61	-		820.60	-	-	-	-
	2/9/2018	-	26.15	-		820.06	-	-	-	-
	2/2/2018	26.82	26.83	0.01		819.38	819.39	2/2/2018	12:10	12:15
	1/26/2018	27.16	27.18	0.02		819.03	819.04	-	-	-
	1/20/2018	-	26.47	-		819.74	-	-	-	-
	1/10/2018	-	26.55	-		819.66	-	1/15/2018	10:30	10:35
	1/5/2018	-	27.41	-		818.80	-	-	-	-
	12/27/2017	-	26.27	-		819.94	-	-	-	-
	12/21/2017	27.22	27.23	0.01		818.98	818.99	-	-	-
	12/13/2017	-	26.10	-		820.11	-	-	-	-
	12/7/2017	27.27	27.28	0.01		818.93	818.94	-	-	-
	12/1/2017	-	27.18	-		819.03	-	-	-	-
	11/22/2017	-	26.43	-		819.78	-	-	-	-
	11/17/2017	-	26.51	-		819.70	-	-	-	-
	11/10/2017	-	27.21	-		819.00	-	11/9/2017	10:30	10:35
	11/3/2017	-	27.22	-		818.99	-	11/3/2017	10:10	10:15
	10/26/2017	-	27.76	-		818.45	-	10/25/2017	8:40	8:45
	10/20/2017	27.79	27.81	0.02		818.40	818.41	10/21/2017	9:50	9:55
	10/12/2017	28.03	28.05	0.02		818.16	818.17	10/10/2017	9:50	9:55
	10/6/2017	27.26	27.27	0.01		818.94	818.95	-	-	-
	9/28/2017	-	27.41	-		818.80	-	-	-	-
	9/21/2017	-	27.32	-		818.89	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-06 (cont'd)	9/15/2017	-	27.10	-		819.11	-	-	-	-
	9/5/2017	-	27.18	-		819.03	-	-	-	-
	8/31/2017	-	27.42	-		818.79	-	-	-	-
	8/24/2017	27.15	27.16	0.01		819.05	819.06	-	-	-
	8/21/2017	-	27.21	-		819.00	-	-	-	-
	8/17/2017	-	27.04	-		819.17	-	-	-	-
	8/14/2017	-	26.87	-		819.34	-	-	-	-
	8/9/2017	-	26.80	-		819.41	-	-	-	-
	8/2/2017	-	26.52	-		819.69	-	-	-	-
	7/31/2017	-	26.63	-		819.58	-	-	-	-
	7/27/2017	-	26.47	-		819.74	-	-	-	-
	7/24/2017	26.33	26.34	0.01		819.87	819.88	-	-	-
	7/20/2017	-	26.36	-		819.85	-	-	-	-
	7/17/2017	-	26.20	-		820.01	-	-	-	-
	7/13/2017	-	26.22	-		819.99	-	-	-	-
	7/10/2017	26.19	26.20	0.01		820.01	820.02	-	-	-
	7/6/2017	-	25.63	-		820.58	-	-	-	-
	7/3/2017	-	26.25	-		819.96	-	-	-	-
	6/29/2017	26.19	26.20	0.01		820.01	820.02	-	-	-
	6/22/2017	26.48	26.49	0.01		819.72	819.73	-	-	-
	6/19/2017	-	26.30	-		819.91	-	-	-	-
	6/15/2017	-	26.37	-		819.84	-	-	-	-
	6/12/2017	-	26.31	-		819.90	-	-	-	-
	6/9/2017	-	26.28	-		819.93	-	-	-	-
	6/5/2017	-	26.34	-		819.87	-	-	-	-
	6/2/2017	-	26.26	-		819.95	-	-	-	-
	5/31/2017	26.43	26.44	0.01		819.77	819.78	-	-	-
	5/24/2017	-	26.93	-		819.28	-	-	-	-
	5/22/2017	-	26.81	-		819.40	-	-	-	-
	5/18/2017	-	26.88	-		819.33	-	-	-	-
	5/15/2017	26.65	26.66	0.01		819.55	819.56	-	-	-
	5/11/2017	-	26.75	-		819.46	-	-	-	-
	5/7/2017	-	26.39	-		819.82	-	-	-	-
	5/4/2017	-	26.90	-		819.31	-	-	-	-
	4/27/2017	27.12	27.13	0.01		819.08	819.09	-	-	-
	4/25/2017	27.09	27.10	0.01		819.11	819.12	-	-	-
	4/20/2017	-	26.97	-		819.24	-	-	-	-
	4/16/2017	26.73	26.74	0.01		819.47	819.48	-	-	-
	4/13/2017	27.71	27.72	0.01		818.49	818.50	-	-	-
	4/10/2017	27.53	27.55	0.02		818.66	818.67	-	-	-
	4/6/2017	27.50	27.51	0.01		818.70	818.71	-	-	-
	4/3/2017	27.83	27.84	0.01		818.37	818.38	-	-	-
RW-07					843.19			-	-	-
	3/5/2018	-	21.43	-		821.76	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/13/2018	21.40	21.42	0.02		821.77	821.79	-	-	-
	2/9/2018	-	22.09	-		821.10	-	-	-	-
	2/2/2018	22.94	22.95	0.01		820.24	820.25	2/2/2018	12:05	12:10
	1/26/2018	23.38	23.40	0.02		819.79	819.81	1/26/2018	10:10	10:15
	1/20/2018	23.97	23.99	0.02		819.20	819.22	-	-	-
	1/10/2018	23.02	23.04	0.02		820.15	820.17	1/15/2018	10:40	10:45
	1/5/2018	-	24.03	-		819.16	-	1/8/2018	10:24	10:29
	12/27/2017	22.85	22.87	0.02		820.32	820.34	1/2/2018	11:40	11:45
	12/21/2017	24.25	24.27	0.02		818.92	818.94	12/22/2017	11:05	11:10
	12/13/2017	22.87	22.88	0.01		820.31	820.32	12/14/2017	10:50	10:55

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-07 (cont'd)	12/7/2017	24.35	24.38	0.03		818.81	818.83	12/7/2017	10:45	10:50
	12/1/2017	23.46	23.47	0.01		819.72	819.73	-	-	-
	11/22/2017	22.70	22.73	0.03		820.46	820.48	11/22/2017	11:19	11:24
	11/17/2017	22.87	22.90	0.03		820.29	820.31	-	-	-
	11/10/2017	23.32	23.35	0.03		819.84	819.86	11/9/2017	9:35	9:40
	11/3/2017	23.39	23.52	0.13		819.67	819.77	11/3/2017	10:15	10:20
	10/26/2017	24.47	24.98	**0.51**		818.21	818.58	10/25/2017	8:35	8:40
	10/20/2017	24.04	24.91	**0.87**		818.28	818.92	10/21/2017	9:55	10:00
	10/12/2017	24.43	25.71	**1.28**		817.48	818.42	10/10/2017	9:55	10:00
	10/6/2017	23.44	24.31	**0.87**		818.88	819.52	10/7/2017	9:50	9:55
	9/28/2017	23.97	25.05	**1.08**		818.14	818.93	9/28/2017	11:10	11:15
	9/21/2017	23.85	24.90	**1.05**		818.29	819.06	-	-	-
	9/15/2017	23.21	24.14	**0.93**		819.05	819.73	-	-	-
	9/5/2017	23.33	24.31	**0.98**		818.88	819.60	9/5/2017	9:30	9:35
	8/31/2017	23.98	25.13	**1.15**		818.06	818.90	-	-	-
	8/24/2017	23.71	24.73	**1.02**		818.46	819.21	8/24/2017	9:30	9:35
	8/21/2017	23.81	24.82	**1.01**		818.37	819.11	-	-	-
	8/17/2017	23.55	24.50	**0.95**		818.69	819.39	8/17/2017	10:10	10:15
	8/14/2017	23.37	24.30	**0.93**		818.89	819.57	-	-	-
	8/9/2017	23.37	24.22	**0.85**		818.97	819.59	-	-	-
	8/2/2017	23.30	23.85	**0.55**		819.34	819.74	-	-	-
	7/31/2017	23.40	23.79	0.39		819.40	819.69	-	-	-
	7/27/2017	23.28	23.56	0.28		819.63	819.84	-	-	-
	7/24/2017	23.10	23.32	0.22		819.87	820.03	-	-	-
	7/20/2017	23.14	23.46	0.32		819.73	819.97	-	-	-
	7/17/2017	22.97	23.16	0.19		820.03	820.17	-	-	-
	7/13/2017	23.03	23.20	0.17		819.99	820.12	-	-	-
	7/10/2017	22.84	23.02	0.18		820.17	820.30	-	-	-
	7/6/2017	22.22	22.41	0.19		820.78	820.92	-	-	-
	7/3/2017	22.89	23.13	0.24		820.06	820.24	-	-	-
	6/29/2017	22.85	23.09	0.24		820.10	820.28	-	-	-
	6/22/2017	22.92	23.44	**0.52**		819.75	820.13	6/24/2017	11:01	11:11
	6/19/2017	22.76	23.32	**0.56**		819.87	820.28	6/21/2017	11:06	11:17
	6/15/2017	22.92	23.60	**0.68**		819.59	820.09	6/16/2017	12:18	12:27
	6/12/2017	22.66	23.10	0.44		820.09	820.41	6/13/2017	12:35	13:18
	6/9/2017	22.42	22.92	0.50		820.27	820.64	6/11/2017	10:45	11:01
	6/5/2017	22.84	23.44	**0.60**		819.75	820.19	6/5/2017	13:35	13:46
	6/2/2017	22.38	23.13	**0.75**		820.06	820.61	6/2/2017	14:17	14:27
	5/31/2017	22.71	23.50	**0.79**		819.69	820.27	5/31/2017	12:31	12:42
	5/24/2017	22.39	22.95	**0.56**		820.24	820.65	5/26/2017	10:45	10:52
	5/22/2017	23.17	23.83	**0.66**		819.36	819.84	5/22/2017	11:59	12:11
	5/18/2017	23.33	24.42	**1.09**		818.77	819.57	5/19/2017	12:51	13:10
	5/15/2017	23.05	24.16	**1.11**		819.03	819.84	5/16/2017	11:30	11:37
	5/11/2017	23.14	24.30	**1.16**		818.89	819.74	5/14/2017	10:50	10:59
	5/7/2017	22.51	23.30	**0.79**		819.89	820.47	5/9/2017	11:11	11:32
	5/4/2017	23.26	24.40	**1.14**		818.79	819.62	5/5/2017	11:31	11:49
	4/27/2017	23.31	24.19	**0.88**		819.00	819.64	4/28/2017	11:30	11:55
	4/25/2017	22.69	23.50	**0.81**		819.69	820.28	-	-	-
	4/20/2017	23.49	24.92	**1.43**		818.27	819.32	-	-	-
	4/16/2017	22.74	24.05	**1.31**		819.14	820.10	-	-	-
	4/13/2017	23.69	25.40	**1.71**		817.79	819.04	4/13/2017	10:50	11:00
	4/10/2017	23.27	24.82	**1.55**		818.37	819.50	-	-	-
	4/6/2017	23.32	25.00	**1.68**		818.19	819.42	-	-	-
	4/3/2017	24.00	25.97	**1.97**		817.22	818.66	-	-	-
RW-08					835.48			-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-08 (cont'd)	3/5/2018	-	15.40	-		820.08	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/13/2018	-	13.62	-		821.86	-	-	-	-
	2/3/2018	-	15.75	-		819.73	-	-	-	-
	1/26/2018	16.22	16.23	0.01		819.25	819.26	1/26/2018	10:20	10:25
	1/20/2018	16.03	16.04	0.01		819.44	819.45	-	-	-
	1/10/2018	16.11	16.12	0.01		819.36	819.37	-	-	-
	1/5/2018	-	17.29	-		818.19	-	1/8/2018	10:17	10:27
	12/27/2017	15.79	15.80	0.01		819.68	819.69	1/2/2018	11:48	11:53
	12/21/2017	17.81	17.83	0.02		817.65	817.66	12/22/2017	11:15	11:20
	12/13/2017	15.89	15.90	0.01		819.58	819.59	12/14/2017	11:00	11:05
	12/7/2017	-	17.94	-		817.54	-	-	-	-
	12/1/2017	-	16.29	-		819.19	-	-	-	-
	11/22/2017	-	15.45	-		820.03	-	-	-	-
	11/17/2017	-	15.70	-		819.78	-	-	-	-
	11/10/2017	-	16.07	-		819.41	-	-	-	-
	11/3/2017	-	16.13	-		819.35	-	-	-	-
	10/26/2017	-	18.38	-		817.10	-	-	-	-
	10/20/2017	-	17.16	-		818.32	-	-	-	-
	10/12/2017	18.32	18.33	0.01		817.15	817.16	-	-	-
	10/6/2017	-	16.04	-		819.44	-	10/7/2017	9:45	9:50
	9/28/2017	-	17.57	-		817.91	-	9/28/2017	11:05	11:10
	9/21/2017	17.48	17.50	0.02		817.98	817.99	-	-	-
	9/15/2017	16.35	16.36	0.01		819.12	819.13	-	-	-
	9/5/2017	16.50	16.53	0.03		818.95	818.97	-	-	-
	8/31/2017	17.75	17.78	0.03		817.70	817.72	-	-	-
	8/24/2017	17.32	17.33	0.01		818.15	818.16	-	-	-
	8/21/2017	23.86	23.87	0.01		811.61	811.62	-	-	-
	8/17/2017	-	17.10	-		818.38	-	8/17/2017	10:40	10:45
	8/14/2017	-	16.94	-		818.54	-	-	-	-
	8/9/2017	16.94	16.95	0.01		818.53	818.54	-	-	-
	8/2/2017	-	16.80	-		818.68	-	-	-	-
	7/31/2017	-	17.07	-		818.41	-	-	-	-
	7/27/2017	-	16.97	-		818.51	-	-	-	-
	7/24/2017	-	NM	-		-	-	-	-	-
	7/20/2017	-	16.92	-		818.56	-	-	-	-
	7/17/2017	-	16.55	-		818.93	-	-	-	-
	7/13/2017	16.71	16.72	0.01		818.76	818.77	-	-	-
	7/10/2017	-	16.29	-		819.19	-	-	-	-
	7/6/2017	-	15.11	-		820.37	-	-	-	-
	7/3/2017	-	16.65	-		818.83	-	-	-	-
	6/29/2017	16.42	16.43	0.01		819.05	819.06	-	-	-
	6/22/2017	16.89	16.90	0.01		818.58	818.59	-	-	-
	6/19/2017	16.24	16.25	0.01		819.23	819.24	-	-	-
	6/15/2017	-	16.77	-		818.71	-	-	-	-
	6/12/2017	-	15.96	-		819.52	-	-	-	-
	6/9/2017	-	15.48	-		820.00	-	-	-	-
	6/5/2017	-	16.51	-		818.97	-	-	-	-
	6/2/2017	-	15.48	-		820.00	-	-	-	-
	5/31/2017	16.11	16.12	0.01		819.36	819.37	-	-	-
	5/24/2017	-	15.93	-		819.55	-	-	-	-
	5/22/2017	-	17.05	-		818.43	-	-	-	-
	5/18/2017	-	17.22	-		818.26	-	-	-	-
	5/15/2017	16.56	16.57	0.01		818.91	818.92	-	-	-
	5/11/2017	16.80	16.81	0.01		818.67	818.68	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-08 (cont'd)	5/7/2017	-	15.97	-		819.51	-	-	-	-
	5/4/2017	17.08	17.09	0.01		818.39	818.40	-	-	-
	4/27/2017	17.19	17.20	0.01		818.28	818.29	-	-	-
	4/25/2017	-	15.48	-		820.00	-	-	-	-
	4/20/2017	16.65	16.66	0.01		818.82	818.83	-	-	-
	4/16/2017	16.10	16.12	0.02		819.36	819.37	-	-	-
	4/13/2017	17.95	18.00	0.05		817.48	817.51	-	-	-
	4/10/2017	16.41	16.56	0.15		818.92	819.03	-	-	-
	4/6/2017	16.70	17.26	**0.56**		818.22	818.63	-	-	-
	4/3/2017	17.89	18.07	0.18		817.41	817.54	-	-	-
RW-09					835.12			-	-	-
	3/5/2018	-	12.90	-		822.22	-	-	-	-
	2/21/2018	-	12.08	-		823.04	-	-	-	-
	2/9/2018	-	12.12	-		823.00	-	-	-	-
	2/2/2018	-	12.98	-		822.14	-	-	-	-
	1/26/2018	-	13.44	-		821.68	-	-	-	-
	1/20/2018	-	13.84	-		821.28	-	-	-	-
	1/10/2018	-	13.78	-		821.34	-	-	-	-
	1/5/2018	-	14.57	-		820.55	-	-	-	-
	12/27/2017	-	13.81	-		821.31	-	-	-	-
	12/21/2017	-	14.71	-		820.41	-	-	-	-
	12/13/2017	-	13.85	-		821.27	-	-	-	-
	12/7/2017	-	14.85	-		820.27	-	-	-	-
	12/1/2017	-	13.57	-		821.55	-	-	-	-
	11/22/2017	-	13.64	-		821.48	-	-	-	-
	11/17/2017	-	13.78	-		821.34	-	-	-	-
	11/10/2017	-	13.40	-		821.72	-	11/9/2017	9:30	9:35
	11/3/2017	-	13.28	-		821.84	-	11/3/2017	10:25	10:30
	10/26/2017	14.82	14.92	0.10		820.20	820.28	10/25/2017	8:30	8:35
	10/20/2017	14.04	14.29	0.25		820.83	821.02	10/21/2017	10:05	10:10
	10/12/2017	14.78	16.39	**1.61**		818.73	819.91	10/10/2017	10:05	10:10
	10/6/2017	13.35	13.67	0.32		821.45	821.69	10/7/2017	9:40	9:45
	9/28/2017	14.59	15.35	**0.76**		819.77	820.33	9/28/2017	11:00	11:05
	9/21/2017	14.49	14.91	0.42		820.21	820.52	-	-	-
	9/15/2017	13.55	13.90	0.35		821.22	821.48	-	-	-
	9/5/2017	13.68	14.08	0.40		821.04	821.34	-	-	-
	8/31/2017	14.52	15.42	**0.90**		819.70	820.36	-	-	-
	8/24/2017	14.45	14.81	0.36		820.31	820.58	-	-	-
	8/21/2017	9.49	9.58	0.09		825.54	825.61	-	-	-
	8/17/2017	14.25	14.60	0.35		820.52	820.78	8/17/2017	10:45	10:50
	8/14/2017	14.08	14.53	0.45		820.59	820.92	-	-	-
	8/9/2017	14.16	14.24	0.08		820.88	820.94	-	-	-
	8/2/2017	14.18	14.22	0.04		820.90	820.93	-	-	-
	7/31/2017	14.10	14.12	0.02		821.00	821.02	-	-	-
	7/27/2017	13.98	14.00	0.02		821.12	821.14	-	-	-
	7/24/2017	-	13.82	-		821.30	-	-	-	-
	7/20/2017	-	13.85	-		821.27	-	-	-	-
	7/17/2017	-	13.69	-		821.43	-	-	-	-
	7/13/2017	13.72	13.73	0.01		821.39	821.40	-	-	-
	7/10/2017	13.44	13.45	0.01		821.67	821.68	-	-	-
	7/6/2017	-	12.72	-		822.40	-	-	-	-
	7/3/2017	-	13.53	-		821.59	-	-	-	-
	6/29/2017	13.53	13.54	0.01		821.58	821.59	-	-	-
	6/22/2017	13.52	13.54	0.02		821.58	821.60	-	-	-
	6/19/2017	13.51	13.52	0.01		821.60	821.61	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-09 (cont'd)	6/15/2017	16.62	16.63	0.01		818.49	818.50	-	-	-
	6/12/2017	-	13.17	-		821.95	-	6/13/2017	13:30	13:40
	6/9/2017	12.70	12.71	0.01		822.41	822.42	-	-	-
	6/5/2017	-	13.51	-		821.61	-	-	-	-
	6/2/2017	12.70	12.71	0.01		822.41	822.42	-	-	-
	5/31/2017	13.40	13.43	0.03		821.69	821.72	-	-	-
	5/24/2017	13.15	13.17	0.02		821.95	821.97	-	-	-
	5/22/2017	13.65	13.69	0.04		821.43	821.46	-	-	-
	5/18/2017	14.01	14.12	0.11		821.00	821.08	-	-	-
	5/15/2017	13.10	13.22	0.12		821.90	821.99	-	-	-
	5/11/2017	13.84	14.03	0.19		821.09	821.23	-	-	-
	5/7/2017	13.47	13.48	0.01		821.64	821.65	-	-	-
	5/4/2017	13.85	14.15	0.30		820.97	821.19	-	-	-
	4/27/2017	13.80	13.92	0.12		821.20	821.29	-	-	-
	4/25/2017	12.60	12.68	0.08		822.44	822.50	-	-	-
	4/20/2017	13.81	14.22	0.41		820.90	821.20	-	-	-
	4/16/2017	13.80	14.31	**0.51**		820.81	821.19	-	-	-
	4/13/2017	14.07	16.05	**1.98**		819.07	820.52	4/13/2017	10:42	10:48
	4/10/2017	13.70	13.75	0.05		821.37	821.41	-	-	-
	4/6/2017	13.56	14.17	**0.61**		820.95	821.40	-	-	-
	4/3/2017	14.36	15.00	**0.64**		820.12	820.59	-	-	-
RW-10					848.53			-	-	-
	3/5/2018	-	9.00	-		839.53	-	-	-	-
	2/21/2018	-	9.75	-		838.78	-	-	-	-
	2/3/2018	-	7.00	-		841.53	-	-	-	-
	12/27/2017	-	11.20	-		837.33	-	-	-	-
	11/12/2017	13.00	13.05	0.05		835.48	835.52	-	-	-
	10/21/2017	-	13.56	-		834.97	-	-	-	-
	9/10/2017	11.95	12.06	0.11		836.47	836.55	-	-	-
	8/21/2017	11.55	11.76	0.21		836.77	836.93	-	-	-
	8/17/2017	11.69	11.78	0.09		836.75	836.82	8/17/2017	10:50	10:55
	8/14/2017	9.97	10.04	0.07		838.49	838.54	-	-	-
	8/9/2017	-	10.08	-		838.45	-	-	-	-
	8/2/2017	12.00	12.26	0.26		836.27	836.46	-	-	-
	7/31/2017	12.06	12.35	0.29		836.18	836.39	-	-	-
	7/27/2017	11.74	11.98	0.24		836.55	836.73	-	-	-
	7/24/2017	11.99	12.22	0.23		836.31	836.48	-	-	-
	7/20/2017	11.88	12.05	0.17		836.48	836.61	-	-	-
	7/17/2017	11.60	11.70	0.10		836.83	836.91	-	-	-
	7/13/2017	11.44	11.49	0.05		837.04	837.08	-	-	-
	7/10/2017	11.42	11.43	0.01		837.10	837.11	-	-	-
	7/6/2017	-	11.35	-		837.18	-	-	-	-
	7/3/2017	12.06	12.20	0.14		836.33	836.43	-	-	-
	6/29/2017	11.65	11.73	0.08		836.80	836.86	-	-	-
	6/22/2017	11.99	12.75	**0.76**		835.78	836.34	-	-	-
	6/19/2017	12.39	12.72	0.33		835.81	836.05	-	-	-
	6/15/2017	12.78	12.99	0.21		835.54	835.70	-	-	-
	6/12/2017	12.71	12.85	0.14		835.68	835.78	-	-	-
	6/9/2017	12.47	12.53	0.06		836.00	836.05	-	-	-
	6/5/2017	12.07	12.08	0.01		836.45	836.46	-	-	-
	6/2/2017	10.63	10.64	0.01		837.89	837.90	-	-	-
	5/31/2017	18.43	19.15	**0.72**		829.38	829.91	5/31/2017	13:59	14:05
	5/24/2017	-	10.83	-		837.70	-	-	-	-
	5/22/2017	-	11.91	-		836.62	-	-	-	-
	5/18/2017	-	12.66	-		835.87	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-10 (cont'd)	5/15/2017	12.15	12.40	0.25		836.13	836.32	-	-	-
	5/11/2017	11.24	11.86	**0.62**		836.67	837.13	5/14/2017	11:59	12:07
	5/7/2017	15.98	16.89	**0.91**		831.64	832.31	5/9/2017	10:15	10:26
	5/4/2017	15.60	17.98	**2.38**		830.55	832.29	5/5/2017	10:51	11:01
	5/3/2017	15.70	18.04	**2.34**		830.49	832.20	-	-	-
	4/27/2017	16.08	18.35	**2.27**		830.18	831.84	-	-	-
	4/25/2017	16.29	18.84	**2.55**		829.69	831.55	-	-	-
	4/20/2017	17.21	18.92	**1.71**		829.61	830.86	-	-	-
	4/16/2017	17.01	20.00	**2.99**		828.53	830.72	-	-	-
	4/13/2017	17.16	20.05	**2.89**		828.48	830.59	4/13/2017	9:38	9:51
	4/10/2017	17.15	20.22	**3.07**		828.31	830.55	4/11/2017	11:50	11:55
	4/6/2017	17.30	20.75	**3.45**		827.78	830.30	4/7/2017	11:30	11:41
	4/3/2017	17.65	21.18	**3.53**		827.35	829.93	-	-	-
RW-11					852.97			-	-	-
	3/5/2018	-	13.15	-		839.82	-	-	-	-
	2/21/2018	-	13.01	-		839.96	-	-	-	-
	2/9/2018	-	NM	-		-	-	-	-	-
	2/2/2018	-	13.11	-		839.86	-	-	-	-
	1/26/2018	-	13.98	-		838.99	-	-	-	-
	1/20/2018	-	14.92	-		838.05	-	-	-	-
	1/10/2018	-	13.59	-		839.38	-	-	-	-
	1/5/2018	-	14.88	-		838.09	-	-	-	-
	12/27/2017	-	13.70	-		839.27	-	-	-	-
	12/21/2017	-	14.70	-		838.27	-	-	-	-
	12/13/2017	-	14.90	-		838.07	-	-	-	-
	12/7/2017	-	14.69	-		838.28	-	-	-	-
	12/1/2017	-	14.83	-		838.14	-	-	-	-
	11/22/2017	-	14.54	-		838.43	-	-	-	-
	11/17/2017	-	14.02	-		838.95	-	-	-	-
	11/10/2017	-	14.15	-		838.82	-	-	-	-
	11/3/2017	-	14.35	-		838.62	-	-	-	-
	10/26/2017	-	13.82	-		839.15	-	-	-	-
	10/20/2017	-	13.91	-		839.06	-	-	-	-
	10/12/2017	-	13.75	-		839.22	-	-	-	-
	10/6/2017	-	13.14	-		839.83	-	-	-	-
	9/28/2017	-	13.37	-		839.60	-	-	-	-
	9/21/2017	-	13.06	-		839.91	-	-	-	-
	9/15/2017	-	13.01	-		839.96	-	-	-	-
	9/5/2017	-	12.88	-		840.09	-	-	-	-
	8/31/2017	-	13.46	-		839.51	-	-	-	-
	8/24/2017	13.21	13.23	0.02		839.74	839.75	-	-	-
	8/21/2017	-	13.72	-		839.25	-	-	-	-
	8/17/2017	-	13.00	-		839.97	-	8/17/2017	10:55	11:00
	8/14/2017	-	12.86	-		840.11	-	-	-	-
	8/9/2017	-	12.65	-		840.32	-	-	-	-
	8/2/2017	-	12.67	-		840.30	-	-	-	-
	7/31/2017	-	12.60	-		840.37	-	-	-	-
	7/27/2017	12.39	12.40	0.01		840.57	840.57	-	-	-
	7/24/2017	-	12.25	-		840.72	-	-	-	-
	7/20/2017	-	12.12	-		840.85	-	-	-	-
	7/17/2017	12.07	12.09	0.02		840.88	840.89	-	-	-
	7/13/2017	11.99	12.08	0.09		840.89	840.95	-	-	-
	7/10/2017	11.78	11.87	0.09		841.10	841.16	-	-	-
	7/6/2017	11.05	11.14	0.09		841.83	841.89	-	-	-
	7/3/2017	11.58	11.71	0.13		841.26	841.35	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-11 (cont'd)	6/29/2017	11.52	11.63	0.11		841.34	841.42	-	-	-
	6/22/2017	11.62	11.79	0.17		841.18	841.30	-	-	-
	6/19/2017	11.16	11.47	0.31		841.50	841.72	-	-	-
	6/15/2017	11.40	11.77	0.37		841.20	841.47	-	-	-
	6/12/2017	11.20	11.49	0.29		841.48	841.69	-	-	-
	6/9/2017	11.16	11.45	0.29		841.52	841.73	-	-	-
	6/5/2017	11.43	11.67	0.24		841.30	841.47	-	-	-
	6/2/2017	11.49	11.61	0.12		841.36	841.45	-	-	-
	5/31/2017	11.53	11.67	0.14		841.30	841.40	-	-	-
	5/24/2017	11.11	11.15	0.04		841.82	841.85	-	-	-
	5/22/2017	-	11.78	-		841.19	-	-	-	-
	5/18/2017	12.20	12.21	0.01		840.76	840.76	-	-	-
	5/15/2017	-	12.19	-		840.78	-	-	-	-
	5/11/2017	12.11	12.12	0.01		840.85	840.85	-	-	-
	5/7/2017	12.18	12.19	0.01		840.78	840.78	-	-	-
	5/4/2017	12.28	12.29	0.01		840.68	840.68	-	-	-
	4/27/2017	12.35	12.36	0.01		840.61	840.61	-	-	-
	4/25/2017	12.28	12.38	0.10		840.59	840.66	-	-	-
	4/20/2017	12.95	13.65	**0.70**		839.32	839.83	-	-	-
	4/16/2017	13.05	13.69	**0.64**		839.28	839.74	-	-	-
	4/13/2017	13.03	13.92	**0.89**		839.05	839.70	4/13/2017	10:32	10:39
	4/10/2017	13.05	13.92	**0.87**		839.05	839.68	4/11/2017	11:30	11:35
	4/6/2017	13.16	14.29	**1.13**		838.68	839.50	4/7/2017	10:44	10:55
	4/3/2017	13.70	14.78	**1.08**		838.19	838.98	-	-	-
RW-12					852.75			-	-	-
	3/5/2018	-	14.93	-		839.56	-	-	-	-
	2/21/2018	-	15.14	-		839.35	-	-	-	-
	2/9/2018	-	NM	-		-	-	-	-	-
	2/2/2018	-	15.93	-		838.56	-	-	-	-
	1/26/2018	-	15.95	-		838.54	-	-	-	-
	1/20/2018	-	15.79	-		838.70	-	-	-	-
	1/10/2018	-	15.29	-		839.20	-	-	-	-
	1/5/2018	-	15.94	-		838.55	-	-	-	-
	12/27/2017	-	16.00	-		838.49	-	-	-	-
	12/21/2017	-	16.00	-		838.49	-	-	-	-
	12/13/2017	-	16.03	-		838.46	-	-	-	-
	12/7/2017	-	15.98	-		838.51	-	-	-	-
	12/1/2017	-	15.99	-		838.50	-	-	-	-
	11/22/2017	-	15.91	-		838.58	-	-	-	-
	11/17/2017	-	15.87	-		838.62	-	-	-	-
	11/10/2017	-	15.74	-		838.75	-	-	-	-
	11/3/2017	-	14.17	-		840.32	-	-	-	-
	10/26/2017	-	15.46	-		839.03	-	-	-	-
	10/20/2017	-	15.47	-		839.02	-	-	-	-
	10/12/2017	-	15.23	-		837.52	-	-	-	-
	10/6/2017	-	15.15	-		837.60	-	-	-	-
	9/28/2017	14.45	14.46	0.01		838.29	838.30	-	-	-
	9/21/2017	-	14.78	-		837.97	-	-	-	-
	9/15/2017	-	14.84	-		837.91	-	-	-	-
	9/5/2017	-	14.80	-		837.95	-	-	-	-
	8/31/2017	-	14.75	-		838.00	-	-	-	-
	8/24/2017	14.57	14.58	0.01		838.17	838.18	-	-	-
	8/21/2017	-	14.46	-		838.29	-	-	-	-
	8/17/2017	-	14.35	-		838.40	-	8/17/2017	11:00	11:05
	8/14/2017	-	14.22	-		838.53	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-12 (cont'd)	8/9/2017	-	14.11	-		838.64	-	-	-	-
	8/2/2017	-	13.98	-		838.77	-	-	-	-
	7/31/2017	-	13.96	-		838.79	-	-	-	-
	7/27/2017	13.69	13.70	0.01		839.05	839.06	-	-	-
	7/24/2017	-	13.58	-		839.17	-	-	-	-
	7/20/2017	-	13.44	-		839.31	-	-	-	-
	7/17/2017	-	13.47	-		839.28	-	-	-	-
	7/13/2017	-	13.36	-		839.39	-	-	-	-
	7/10/2017	-	13.36	-		839.39	-	-	-	-
	7/6/2017	-	13.08	-		839.67	-	-	-	-
	7/3/2017	-	13.16	-		839.59	-	-	-	-
	6/29/2017	-	13.19	-		839.56	-	-	-	-
	6/22/2017	-	13.15	-		839.60	-	-	-	-
	6/19/2017	-	13.35	-		839.40	-	-	-	-
	6/15/2017	-	13.19	-		839.56	-	-	-	-
	6/12/2017	-	13.24	-		839.51	-	-	-	-
	6/9/2017	-	13.20	-		839.55	-	-	-	-
	6/5/2017	-	13.28	-		839.47	-	-	-	-
	6/2/2017	-	13.29	-		839.46	-	-	-	-
	5/31/2017	-	13.31	-		839.44	-	-	-	-
	5/24/2017	-	13.03	-		839.72	-	-	-	-
	5/22/2017	-	13.93	-		838.82	-	-	-	-
	5/18/2017	-	13.93	-		838.82	-	-	-	-
	5/15/2017	13.93	13.95	0.02		838.80	838.81	-	-	-
	5/11/2017	-	14.00	-		838.75	-	-	-	-
	5/7/2017	14.11	14.12	0.01		838.63	838.64	-	-	-
	5/4/2017	14.05	14.06	0.01		838.69	838.70	-	-	-
	4/27/2017	-	13.57	-		839.18	-	-	-	-
	4/25/2017	12.77	12.78	0.01		839.97	839.98	-	-	-
	4/20/2017	14.84	14.85	0.01		837.90	837.91	-	-	-
	4/16/2017	14.81	14.84	0.03		837.91	837.93	-	-	-
	4/13/2017	14.71	14.72	0.01		838.03	838.04	-	-	-
	4/10/2017	14.56	14.57	0.01		838.18	838.19	-	-	-
	4/6/2017	13.36	13.37	0.01		839.38	839.39	4/7/2017	11:03	11:13
	4/3/2017	15.35	16.29	**0.94**		836.46	837.15	-	-	-
RW-13					847.97			-	-	-
	3/5/2018	-	NM	-		-	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/3/2018	-	NM	-		-	-	-	-	-
	12/27/2017	-	NM	-		-	-	-	-	-
	11/12/2017	-	NM	-		-	-	-	-	-
	10/21/2017	-	NM	-		-	-	-	-	-
	9/10/2017	-	NM	-		-	-	-	-	-
	8/21/2017	-	NM	-		-	-	-	-	-
	8/17/2017	-	NM	-		-	-	8/17/2017	11:05	11:10
	8/14/2017	-	NM	-		-	-	-	-	-
	8/9/2017	-	10.20	-		837.77	-	-	-	-
	8/2/2017	-	11.10	-		836.87	-	-	-	-
	7/31/2017	-	NM	-		-	-	-	-	-
	7/27/2017	-	NM	-		-	-	-	-	-
	7/24/2017	-	NM	-		-	-	-	-	-
	7/20/2017	-	NM	-		-	-	-	-	-
	7/17/2017	-	NM	-		-	-	-	-	-
	7/13/2017	-	NM	-		-	-	-	-	-
	7/10/2017	-	NM	-		-	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-13 (cont'd)	7/6/2017	-	NM	-		-	-	-	-	-
	7/3/2017	-	NM	-		-	-	-	-	-
	6/29/2017	-	NM	-		-	-	-	-	-
	6/22/2017	-	NM	-		-	-	-	-	-
	6/19/2017	-	NM	-		-	-	-	-	-
	6/15/2017	-	NM	-		-	-	-	-	-
	6/12/2017	-	NM	-		-	-	-	-	-
	6/9/2017	-	19.18	-		828.79	-	-	-	-
	6/5/2017	-	7.25	-		840.72	-	-	-	-
	6/2/2017	-	4.20	-		843.77	-	-	-	-
	5/31/2017	-	23.28	-		824.69	-	-	-	-
	5/24/2017	-	6.20	-		841.77	-	5/26/2017	10:15	10:22
	5/22/2017	-	NM	-		-	-	5/22/2017	12:49	12:58
	5/18/2017	-	10.30	-		837.67	-	-	-	-
	5/15/2017	-	26.80	-		821.17	-	-	-	-
	5/11/2017	-	9.30	-		838.67	-	-	-	-
	5/7/2017	16.12	16.62	0.50		831.35	831.71	5/9/2017	10:01	10:13
	5/4/2017	16.06	16.90	**0.84**		831.07	831.68	5/5/2017	11:09	11:21
	5/3/2017	16.13	17.02	**0.89**		830.95	831.60	-	-	-
	4/27/2017	16.50	17.45	**0.95**		830.52	831.21	-	-	-
	4/25/2017	16.73	17.83	**1.10**		830.14	830.94	-	-	-
	4/20/2017	17.10	18.90	**1.80**		829.07	830.38	-	-	-
	4/16/2017	17.19	19.05	**1.86**		828.92	830.28	-	-	-
	4/13/2017	17.38	18.94	**1.56**		829.03	830.17	4/13/2017	9:57	10:09
	4/10/2017	17.32	19.19	**1.87**		828.78	830.14	4/11/2017	11:59	12:05
	4/6/2017	17.69	19.35	**1.66**		828.62	829.83	4/7/2017	12:15	12:27
	4/3/2017	17.85	19.68	**1.83**		828.29	829.62	-	-	-
RW-14					827.54			-	-	-
	3/5/2018	-	10.60	-		816.94	-	-	-	-
	2/21/2018	-	12.61	-		814.93	-	-	-	-
	2/9/2018	-	13.24	-		814.30	-	-	-	-
	2/3/2018	-	13.76	-		813.78	-	-	-	-
	1/26/2018	-	7.66	-		819.88	-	1/26/2018	10:30	10:35
	1/20/2018	14.83	14.84	0.01		812.70	812.71	-	-	-
	1/10/2018	-	14.04	-		813.50	-	-	-	-
	1/5/2018	-	NM	-		-	-	-	-	-
	12/27/2017	-	14.51	-		813.03	-	-	-	-
	12/21/2017	-	13.27	-		814.27	-	-	-	-
	12/13/2017	-	14.45	-		813.09	-	-	-	-
	12/7/2017	-	13.65	-		813.89	-	-	-	-
	12/1/2017	-	6.91	-		820.63	-	-	-	-
	11/22/2017	-	14.24	-		813.30	-	-	-	-
	11/17/2017	-	14.26	-		813.28	-	-	-	-
	11/10/2017	-	7.00	-		820.54	-	-	-	-
	11/3/2017	-	5.10	-		822.44	-	-	-	-
	10/26/2017	-	13.16	-		814.38	-	-	-	-
	10/20/2017	-	9.17	-		818.37	-	-	-	-
	10/12/2017	13.19	13.20	0.01		814.34	814.35	-	-	-
	10/6/2017	-	7.90	-		819.64	-	-	-	-
	9/28/2017	-	12.78	-		814.76	-	-	-	-
	9/21/2017	-	12.64	-		814.90	-	-	-	-
	9/15/2017	-	8.67	-		818.87	-	-	-	-
	9/5/2017	-	8.58	-		818.96	-	-	-	-
	8/31/2017	-	12.88	-		814.66	-	-	-	-
	8/24/2017	-	12.58	-		814.96	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-14 (cont'd)	8/21/2017	-	12.71	-		814.83	-	-	-	-
	8/17/2017	-	12.40	-		815.14	-	8/17/2017	11:10	11:20
	8/14/2017	-	12.29	-		815.25	-	-	-	-
	8/9/2017	-	12.31	-		815.23	-	-	-	-
	8/2/2017	-	10.92	-		816.62	-	-	-	-
	7/31/2017	-	12.43	-		815.11	-	-	-	-
	7/27/2017	-	12.25	-		815.29	-	-	-	-
	7/24/2017	-	12.16	-		815.38	-	-	-	-
	7/20/2017	-	12.02	-		815.52	-	-	-	-
	7/17/2017	-	11.91	-		815.63	-	-	-	-
	7/13/2017	-	12.11	-		815.43	-	-	-	-
	7/10/2017	-	11.93	-		815.61	-	-	-	-
	7/6/2017	-	7.80	-		819.74	-	-	-	-
	7/3/2017	-	11.94	-		815.60	-	-	-	-
	6/29/2017	-	11.94	-		815.60	-	-	-	-
	6/22/2017	-	9.32	-		818.22	-	-	-	-
	6/19/2017	-	NM	-		-	-	-	-	-
	6/15/2017	-	11.95	-		815.59	-	-	-	-
	6/12/2017	-	12.68	-		814.86	-	-	-	-
	6/9/2017	-	9.12	-		818.42	-	-	-	-
	6/5/2017	-	12.03	-		815.51	-	-	-	-
	6/2/2017	-	7.80	-		819.74	-	-	-	-
	5/31/2017	-	11.99	-		815.55	-	-	-	-
	5/24/2017	-	12.15	-		815.39	-	-	-	-
	5/22/2017	-	12.05	-		815.49	-	-	-	-
	5/18/2017	-	12.44	-		815.10	-	-	-	-
	5/15/2017	-	12.10	-		815.44	-	-	-	-
	5/11/2017	-	12.30	-		815.24	-	-	-	-
	5/7/2017	-	13.89	-		813.65	-	-	-	-
	5/4/2017	-	12.54	-		815.00	-	-	-	-
	4/27/2017	-	12.61	-		814.93	-	-	-	-
	4/25/2017	8.88	8.89	0.01		818.65	818.66	-	-	-
	4/20/2017	-	13.10	-		814.44	-	-	-	-
	4/16/2017	12.86	12.87	0.01		814.67	814.68	-	-	-
	4/13/2017	13.09	13.10	0.01		814.44	814.45	-	-	-
	4/10/2017	9.66	9.67	0.01		817.87	817.88	-	-	-
	4/6/2017	12.64	12.65	0.01		814.89	814.90	-	-	-
	4/3/2017	13.36	13.37	0.01		814.17	814.18	-	-	-
RW-15					851.64			-	-	-
	3/5/2018	11.94	12.04	0.10		839.60	839.67	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/13/2018	12.90	12.93	0.03		838.71	838.73	-	-	-
	2/2/2018	-	13.88	-		837.76	-	-	-	-
	12/27/2017	14.62	15.30	**0.68**		836.34	836.83	1/2/2018	10:36	10:41
	11/12/2017	14.90	15.30	0.40		836.34	836.63	-	-	-
	10/21/2017	15.88	16.60	**0.72**		835.04	835.56	-	-	-
	9/10/2017	14.03	14.51	0.48		837.13	837.48	-	-	-
	8/21/2017	13.81	13.98	0.17		837.66	837.78	-	-	-
	8/17/2017	13.77	13.82	0.05		837.82	837.85	8/17/2017	11:20	11:25
	8/14/2017	-	13.58	-		838.06	-	-	-	-
	8/9/2017	13.70	13.72	0.02		837.92	837.93	-	-	-
	8/2/2017	13.61	13.90	0.29		837.74	837.95	-	-	-
	7/31/2017	13.66	13.87	0.21		837.77	837.92	-	-	-
	7/27/2017	13.51	13.67	0.16		837.97	838.08	-	-	-
	7/24/2017	13.50	13.62	0.12		838.02	838.11	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-15 (cont'd)	7/20/2017	13.49	13.55	0.06		838.09	838.13	-	-	-
	7/17/2017	13.52	13.55	0.03		838.09	838.11	-	-	-
	7/13/2017	13.50	13.51	0.01		838.13	838.13	-	-	-
	7/10/2017	-	13.47	-		838.17	-	-	-	-
	7/6/2017	-	13.56	-		838.08	-	-	-	-
	7/3/2017	-	13.59	-		838.05	-	-	-	-
	6/29/2017	-	13.57	-		838.07	-	-	-	-
	6/22/2017	-	14.00	-		837.64	-	-	-	-
	6/19/2017	14.10	14.11	0.01		837.53	837.53	-	-	-
	6/15/2017	14.16	14.17	0.01		837.47	837.47	-	-	-
	6/12/2017	-	14.11	-		837.53	-	-	-	-
	6/9/2017	-	12.13	-		839.51	-	-	-	-
	6/5/2017	-	14.23	-		837.41	-	-	-	-
	6/2/2017	-	14.15	-		837.49	-	-	-	-
	5/31/2017	-	15.24	-		836.40	-	-	-	-
	5/24/2017	-	14.72	-		836.92	-	-	-	-
	5/22/2017	15.25	15.34	0.09		836.30	836.36	-	-	-
	5/18/2017	15.49	15.68	0.19		835.96	836.10	-	-	-
	5/15/2017	15.57	15.80	0.23		835.84	836.01	-	-	-
	5/11/2017	15.73	15.90	0.17		835.74	835.86	-	-	-
	5/7/2017	16.96	17.31	0.35		834.33	834.58	-	-	-
	5/4/2017	16.91	17.55	**0.64**		834.09	834.55	5/5/2017	10:27	10:35
	4/27/2017	17.48	17.92	0.44		833.72	834.04	-	-	-
	4/25/2017	17.85	18.30	0.45		833.34	833.67	-	-	-
	4/20/2017	18.21	18.60	0.39		833.04	833.32	-	-	-
	4/16/2017	18.37	19.60	**1.23**		832.04	832.94	-	-	-
	4/13/2017	18.37	19.00	**0.63**		832.64	833.10	4/13/2017	10:13	10:26
	4/10/2017	18.43	18.97	**0.54**		832.67	833.06	4/11/2017	13:06	13:12
	4/6/2017	18.60	20.14	**1.54**		831.50	832.62	4/7/2017	12:59	13:07
	4/3/2017	18.75	20.10	**1.35**		831.54	832.52	-	-	-
SW-01					812.82			-	-	-
	3/5/2018	-	(1.00)	-		813.82	-	-	-	-
	2/21/2018	-	(0.90)	-		813.72	-	-	-	-
	2/3/2018	-	(0.88)	-		813.70	-	-	-	-
	1/8/2018	-	NM	-		-	-	-	-	-
	12/27/2017	-	(0.90)	-		813.72	-	-	-	-
	12/14/2017	-	(0.80)	-		813.62	-	-	-	-
	12/5/2017	-	(1.00)	-		813.82	-	-	-	-
	11/17/2017	-	(0.93)	-		813.75	-	-	-	-
	11/7/2017	-	(0.90)	-		813.72	-	-	-	-
	10/21/2017	-	(0.81)	-		813.63	-	-	-	-
	9/10/2017	-	(0.91)	-		813.73	-	-	-	-
	9/6/2017	-	(0.96)	-		813.78	-	-	-	-
	8/12/2017	-	(0.90)	-		813.72	-	-	-	-
	8/1/2017	-	-	-		812.82	-	-	-	-
	7/2/2017	-	(0.99)	-		813.81	-	-	-	-
	6/4/2017	-	(0.98)	-		813.80	-	-	-	-
	5/4/2017	-	(0.89)	-		813.71	-	-	-	-
	4/6/2017	-	(0.90)	-		813.72	-	-	-	-
SW-02					808.65			-	-	-
	3/5/2018	-	(1.68)	-		810.33	-	-	-	-
	2/21/2018	-	(1.65)	-		810.30	-	-	-	-
	2/3/2018	-	(1.55)	-		810.20	-	-	-	-
	12/27/2017	-	(1.60)	-		810.25	-	-	-	-
	12/14/2017	-	(1.60)	-		810.25	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
SW-02 (cont'd)	12/5/2017	-	(1.60)	-		810.25	-	-	-	-
	11/17/2017	-	(1.61)	-		810.26	-	-	-	-
	10/21/2017	-	(1.47)	-		810.12	-	-	-	-
	9/10/2017	-	(1.60)	-		810.25	-	-	-	-
	9/6/2017	-	(1.58)	-		810.23	-	-	-	-
	8/12/2017	-	(1.61)	-		810.26	-	-	-	-
	7/2/2017	-	(1.67)	-		810.32	-	-	-	-
	6/4/2017	-	(1.57)	-		810.22	-	-	-	-
	5/4/2017	-	(1.54)	-		810.19	-	-	-	-
	4/6/2017	-	(1.55)	-		810.20	-	-	-	-
SW-03					815.09			-	-	-
	3/5/2018	-	(1.76)	-		816.85	-	-	-	-
	2/21/2018	-	(1.25)	-		816.34	-	-	-	-
	2/3/2018	-	(1.72)	-		816.81	-	-	-	-
	1/8/2018	-	NM	-		-	-	-	-	-
	12/27/2017	-	(1.74)	-		816.83	-	-	-	-
	12/14/2017	-	(1.71)	-		816.80	-	-	-	-
	12/5/2017	-	(1.78)	-		816.87	-	-	-	-
	11/12/2017	-	(1.73)	-		816.82	-	-	-	-
	11/7/2017	-	(1.60)	-		816.69	-	-	-	-
	10/21/2017	-	(1.68)	-		816.77	-	-	-	-
	9/10/2017	-	(1.54)	-		816.63	-	-	-	-
	9/6/2017	-	(1.48)	-		816.57	-	-	-	-
	8/12/2017	-	(1.49)	-		816.58	-	-	-	-
	8/1/2017	-	-	-		815.09	-	-	-	-
	7/2/2017	-	(1.92)	-		817.01	-	-	-	-
	6/4/2017	-	(1.74)	-		816.83	-	-	-	-
	5/4/2017	-	(1.96)	-		817.05	-	-	-	-
	4/6/2017	-	(1.96)	-		817.05	-	-	-	-
SW-05					838.75			-	-	-
	3/5/2018	-	NM	-		-	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/3/2018	-	NM	-		-	-	-	-	-
	1/8/2018	-	NM	-		-	-	-	-	-
	12/27/2017	-	NM	-		-	-	-	-	-
	12/14/2017	-	NM	-		-	-	-	-	-
	12/5/2017	-	NM	-		-	-	-	-	-
	10/21/2017	-	NM	-		-	-	-	-	-
	9/10/2017	-	NM	-		-	-	-	-	-
	9/6/2017	-	NM	-		-	-	-	-	-
	8/12/2017	-	NM	-		-	-	-	-	-
	7/2/2017	-	NM	-		-	-	-	-	-
	6/4/2017	-	NM	-		-	-	-	-	-
	5/4/2017	-	NM	-		-	-	-	-	-
	4/6/2017	-	NM	-		-	-	-	-	-
SW-08					802.04			-	-	-
	3/5/2018	-	(1.08)	-		803.12	-	-	-	-
	2/21/2018	-	(1.10)	-		803.14	-	-	-	-
	2/3/2018	-	(1.06)	-		803.10	-	-	-	-
	12/27/2017	-	(1.08)	-		803.12	-	-	-	-
	12/14/2017	-	(1.15)	-		803.19	-	-	-	-
	12/5/2017	-	(1.15)	-		803.19	-	-	-	-
	11/17/2017	-	(1.15)	-		803.19	-	-	-	-
	10/21/2017	-	(1.01)	-		803.05	-	-	-	-
	9/10/2017	-	(1.09)	-		803.13	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
SW-08 (cont'd)	9/6/2017	-	(1.43)	-		803.47	-	-	-	-
	8/12/2017	-	(1.05)	-		803.09	-	-	-	-
	7/2/2017	-	(1.05)	-		803.09	-	-	-	-
	6/9/2017	-	(1.07)	-		803.11	-	-	-	-
	6/4/2017	-	NM	-		-	-	-	-	-
	5/4/2017	-	(1.24)	-		803.28	-	-	-	-
	4/6/2017	-	(1.24)	-		803.28	-	-	-	-
SW-10					778.09			-	-	-
	3/5/2018	-	(0.84)	-		778.93	-	-	-	-
	2/21/2018	-	(0.90)	-		778.99	-	-	-	-
	2/3/2018	-	(0.40)	-		778.49	-	-	-	-
	12/27/2017	-	(0.45)	-		778.54	-	-	-	-
	12/14/2017	-	(0.88)	-		778.97	-	-	-	-
	12/5/2017	-	(0.88)	-		778.97	-	-	-	-
	11/17/2017	-	(0.64)	-		778.73	-	-	-	-
	10/21/2017	-	(0.27)	-		778.36	-	-	-	-
	9/10/2017	-	(0.30)	-		778.39	-	-	-	-
	9/6/2017	-	(0.67)	-		778.76	-	-	-	-
	8/12/2017	-	(0.27)	-		778.36	-	-	-	-
	7/2/2017	-	(0.36)	-		778.45	-	-	-	-
	6/9/2017	-	(0.30)	-		778.39	-	-	-	-
	6/4/2017	-	NM	-		-	-	-	-	-
	5/4/2017	-	(0.48)	-		778.57	-	-	-	-
	4/6/2017	-	(0.50)	-		778.59	-	-	-	-
SW-12					-			-	-	-
	1/8/2018	-	NM	-		-	-	-	-	-
SW-13					-			-	-	-
	1/8/2018	-	NM	-		-	-	-	-	-
	11/7/2017	-	(0.90)	-		0.90	-	-	-	-
TW-04R					852.64			-	-	-
	3/5/2018	-	2.68	-		849.96	-	-	-	-
	2/21/2018	-	3.47	-		849.17	-	-	-	-
	2/3/2018	-	4.25	-		848.39	-	-	-	-
	12/27/2017	-	DRY	-		-	-	-	-	-
	11/12/2017	-	4.71	-		847.93	-	-	-	-
	10/21/2017	-	DRY	-		-	-	-	-	-
	9/10/2017	-	DRY	-		-	-	-	-	-
	8/12/2017	-	NM	-		-	-	-	-	-
	7/2/2017	-	3.95	-		848.69	-	-	-	-
	6/4/2017	-	4.01	-		848.63	-	-	-	-
	5/4/2017	-	4.20	-		848.44	-	-	-	-
	4/6/2017	-	4.95	-		847.69	-	-	-	-
TW-05R					849.93			-	-	-
	3/5/2018	-	NM	-		-	-	-	-	-
	2/21/2018	-	2.71	-		847.22	-	-	-	-
	2/3/2018	-	4.32	-		845.61	-	-	-	-
	12/27/2017	-	6.52	-		843.41	-	-	-	-
	11/12/2017	-	5.76	-		844.17	-	-	-	-
	10/21/2017	-	8.44	-		841.49	-	-	-	-
	9/10/2017	-	6.87	-		843.06	-	-	-	-
	8/12/2017	-	8.13	-		841.80	-	-	-	-
	7/2/2017	-	4.55	-		845.38	-	-	-	-
	6/4/2017	-	5.70	-		844.23	-	-	-	-
	5/4/2017	-	3.64	-		846.29	-	-	-	-
	4/6/2017	-	1.90	-		848.03	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
TW-14R					853.37			-	-	-
	3/5/2018	-	3.45	-		849.92	-	-	-	-
	2/21/2018	-	4.00	-		849.37	-	-	-	-
	2/3/2018	-	4.98	-		848.39	-	-	-	-
	12/27/2017	-	DRY	-		-	-	-	-	-
	11/12/2017	-	NM	-		-	-	-	-	-
	10/21/2017	-	DRY	-		-	-	-	-	-
	9/10/2017	-	DRY	-		-	-	-	-	-
	8/12/2017	-	NM	-		-	-	-	-	-
	7/2/2017	-	3.76	-		849.61	-	-	-	-
	6/4/2017	-	4.53	-		848.84	-	-	-	-
	5/4/2017	-	3.43	-		849.94	-	-	-	-
	4/6/2017	-	2.63	-		850.74	-	-	-	-
TW-15R					850.62			-	-	-
	3/5/2018	-	1.25	-		849.37	-	-	-	-
	2/21/2018	-	1.97	-		848.65	-	-	-	-
	2/3/2018	-	2.93	-		847.69	-	-	-	-
	12/27/2017	-	3.92	-		846.70	-	-	-	-
	11/12/2017	-	5.70	-		844.92	-	-	-	-
	10/21/2017	-	DRY	-		-	-	-	-	-
	9/10/2017	-	DRY	-		-	-	-	-	-
	8/12/2017	-	NM	-		-	-	-	-	-
	7/2/2017	-	3.10	-		847.52	-	-	-	-
	6/4/2017	-	2.91	-		847.71	-	-	-	-
	5/4/2017	-	2.58	-		848.04	-	-	-	-
	4/6/2017	-	3.55	-		847.07	-	-	-	-
TW-21					849.70			-	-	-
	3/5/2018	-	0.54	-		849.16	-	-	-	-
	2/21/2018	-	1.45	-		848.25	-	-	-	-
	2/3/2018	-	2.49	-		847.21	-	-	-	-
	12/27/2017	-	4.50	-		845.20	-	-	-	-
	11/12/2017	-	4.25	-		845.45	-	-	-	-
	10/21/2017	-	NM	-		-	-	-	-	-
	9/10/2017	-	5.00	-		844.70	-	-	-	-
	8/12/2017	-	6.10	-		843.60	-	-	-	-
	7/2/2017	-	2.67	-		847.03	-	-	-	-
	6/4/2017	-	2.65	-		847.05	-	-	-	-
	5/4/2017	-	1.89	-		847.81	-	-	-	-
	4/6/2017	-	0.95	-		848.75	-	-	-	-
TW-28					851.42			-	-	-
	3/5/2018	21.45	21.87	0.42		829.55	829.86	-	-	-
	2/21/2018	21.81	22.38	**0.57**		829.04	829.46	-	-	-
	2/3/2018	22.68	22.80	0.12		828.62	828.71	-	-	-
	12/27/2017	23.10	23.70	**0.60**		827.72	828.16	-	-	-
	11/12/2017	22.97	23.10	0.13		828.32	828.42	-	-	-
	10/21/2017	23.60	24.50	**0.90**		826.92	827.58	-	-	-
	9/10/2017	22.80	22.90	0.10		828.52	828.60	-	-	-
	8/12/2017	22.35	22.50	0.15		828.92	829.03	-	-	-
	7/2/2017	21.31	21.58	0.27		829.84	830.04	-	-	-
	6/4/2017	21.59	22.35	**0.76**		829.07	829.63	-	-	-
	5/4/2017	23.16	23.45	0.29		827.97	828.19	-	-	-
	4/6/2017	24.26	25.70	**1.44**		825.72	826.78	-	-	-
TW-30					851.81			-	-	-
	3/5/2018	-	20.16	-		831.65	-	-	-	-
	2/21/2018	-	20.60	-		831.21	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
TW-30 (cont'd)	2/3/2018	-	21.97	-		829.84	-	-	-	-
	12/27/2017	-	22.15	-		829.66	-	-	-	-
	11/12/2017	-	21.90	-		829.91	-	-	-	-
	10/21/2017	-	22.92	-		828.89	-	-	-	-
	9/10/2017	-	22.00	-		829.81	-	-	-	-
	8/12/2017	-	21.26	-		830.55	-	-	-	-
	7/2/2017	-	20.15	-		831.66	-	-	-	-
	6/4/2017	-	20.40	-		831.41	-	-	-	-
	5/4/2017	-	21.45	-		830.36	-	-	-	-
	4/6/2017	-	20.45	-		831.36	-	-	-	-
TW-34					854.79			-	-	-
	3/5/2018	-	22.19	-		832.60	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/3/2018	-	22.23	-		832.56	-	-	-	-
	12/27/2017	-	22.21	-		832.58	-	-	-	-
	11/12/2017	-	22.25	-		832.54	-	-	-	-
	10/21/2017	-	22.21	-		832.58	-	-	-	-
	9/10/2017	-	22.20	-		832.59	-	-	-	-
	8/12/2017	-	22.20	-		832.59	-	-	-	-
	7/2/2017	-	22.23	-		832.56	-	-	-	-
	6/4/2017	-	22.25	-		832.54	-	-	-	-
	5/4/2017	-	22.22	-		832.57	-	-	-	-
	4/6/2017	-	22.25	-		832.54	-	-	-	-
TW-35					854.10			-	-	-
	3/5/2018	-	22.68	-		831.42	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/3/2018	-	22.73	-		831.37	-	-	-	-
	12/27/2017	-	22.70	-		831.40	-	-	-	-
	11/12/2017	-	22.74	-		831.36	-	-	-	-
	10/21/2017	-	22.72	-		831.38	-	-	-	-
	9/10/2017	-	22.72	-		831.38	-	-	-	-
	8/12/2017	-	22.72	-		831.38	-	-	-	-
	7/2/2017	-	22.75	-		831.35	-	-	-	-
	6/4/2017	-	22.71	-		831.39	-	-	-	-
	5/4/2017	-	22.69	-		831.41	-	-	-	-
	4/6/2017	-	22.75	-		831.35	-	-	-	-
TW-40					853.35			-	-	-
	3/5/2018	-	28.13	-		825.22	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/3/2018	-	28.92	-		824.43	-	-	-	-
	12/27/2017	-	28.95	-		824.40	-	-	-	-
	11/12/2017	-	29.08	-		824.27	-	-	-	-
	10/21/2017	-	29.17	-		824.18	-	-	-	-
	9/10/2017	-	28.90	-		824.45	-	-	-	-
	8/12/2017	-	28.65	-		824.70	-	-	-	-
	7/2/2017	-	28.40	-		824.95	-	-	-	-
	6/4/2017	-	28.48	-		824.87	-	-	-	-
	5/4/2017	-	28.76	-		824.59	-	-	-	-
	4/6/2017	-	29.20	-		824.15	-	-	-	-
TW-41					849.38			-	-	-
	3/5/2018	-	25.47	-		823.91	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/3/2018	-	27.50	-		821.88	-	-	-	-
	12/27/2017	-	27.65	-		821.73	-	-	-	-
	11/12/2017	-	27.81	-		821.57	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
TW-41 (cont'd)	10/21/2017	-	28.53	-		820.85	-	-	-	-
	9/10/2017	-	27.89	-		821.49	-	-	-	-
	8/12/2017	-	27.25	-		822.13	-	-	-	-
	7/2/2017	-	26.51	-		822.87	-	-	-	-
	6/4/2017	-	26.70	-		822.68	-	-	-	-
	5/4/2017	-	27.42	-		821.96	-	-	-	-
	4/6/2017	-	28.68	-		820.70	-	-	-	-
TW-42					846.84			-	-	-
	3/5/2018	24.11	24.71	**0.60**		822.13	822.57	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/3/2018	25.87	26.40	**0.53**		820.44	820.83	-	-	-
	12/27/2017	26.10	26.55	0.45		820.29	820.62	-	-	-
	11/12/2017	26.15	26.97	**0.82**		819.87	820.47	-	-	-
	10/21/2017	26.75	NO WATER	**0.75**		-	-	-	-	-
	9/10/2017	26.26	27.20	**0.94**		819.64	820.32	-	-	-
	8/12/2017	25.74	26.58	**0.84**		820.26	820.87	-	-	-
	7/2/2017	24.95	26.22	**1.27**		820.62	821.55	-	-	-
	6/4/2017	25.14	26.30	**1.16**		820.54	821.39	-	-	-
	5/4/2017	25.65	26.85	**1.20**		819.99	820.86	-	-	-
	4/6/2017	26.70	NO WATER	**0.80**		-	-	-	-	-
TW-45					848.31			-	-	-
	3/5/2018	25.93	25.96	0.03		822.35	822.37	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/3/2018	27.45	27.60	0.15		820.71	820.82	-	-	-
	12/27/2017	27.65	27.76	0.11		820.55	820.63	-	-	-
	11/12/2017	27.73	28.10	0.37		820.21	820.48	-	-	-
	10/21/2017	28.38	28.98	**0.60**		819.33	819.77	-	-	-
	9/10/2017	27.85	28.40	**0.55**		819.91	820.31	-	-	-
	8/12/2017	27.32	27.75	0.43		820.56	820.87	-	-	-
	7/2/2017	26.70	26.98	0.28		821.33	821.53	-	-	-
	6/4/2017	26.85	27.20	0.35		821.11	821.36	-	-	-
	5/4/2017	27.27	27.85	**0.58**		820.46	820.88	-	-	-
	4/6/2017	28.30	29.27	**0.97**		819.04	819.75	-	-	-
TW-46					846.88			-	-	-
	3/5/2018	-	NM	-		-	-	-	-	-
	9/10/2017	-	NM	-		-	-	-	-	-
	8/12/2017	-	NM	-		-	-	-	-	-
	7/2/2017	-	NM	-		-	-	-	-	-
	6/4/2017	-	NM	-		-	-	-	-	-
	5/4/2017	-	NM	-		-	-	-	-	-
	4/6/2017	-	NM	-		-	-	-	-	-
TW-55					845.93			-	-	-
	3/5/2018	-	11.50	-		834.43	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/5/2018	-	13.00	-		832.93	-	-	-	-
	2/3/2018	-	15.80	-		830.13	-	-	-	-
	1/8/2018	-	21.73	-		824.20	-	-	-	-
	12/27/2017	-	14.00	-		831.93	-	-	-	-
	12/4/2017	-	5.48	-		840.45	-	-	-	-
	11/12/2017	-	7.51	-		838.42	-	-	-	-
	11/7/2017	-	8.12	-		837.81	-	-	-	-
	10/21/2017	-	8.35	-		837.58	-	-	-	-
	10/3/2017	-	14.90	-		831.03	-	-	-	-
	9/10/2017	-	6.60	-		839.33	-	-	-	-
	9/6/2017	-	6.95	-		838.98	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
TW-55 (cont'd)	8/12/2017	-	3.60	-		842.33	-	-	-	-
	8/1/2017	-	6.46	-		839.47	-	-	-	-
	7/2/2017	-	6.02	-		839.91	-	-	-	-
	6/26/2017	-	5.04	-		840.89	-	-	-	-
	6/4/2017	-	4.95	-		840.98	-	-	-	-
	5/4/2017	-	8.82	-		837.11	-	-	-	-
	4/6/2017	-	10.80	-		835.13	-	-	-	-
TW-59					834.78			-	-	-
	3/5/2018	-	13.26	-		821.52	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/5/2018	-	13.40	-		821.38	-	-	-	-
	2/3/2018	-	11.50	-		823.28	-	-	-	-
	1/8/2018	-	15.25	-		819.53	-	-	-	-
	12/27/2017	-	12.20	-		822.58	-	-	-	-
	12/4/2017	-	15.81	-		818.97	-	-	-	-
	11/12/2017	-	20.41	-		814.37	-	-	-	-
	11/7/2017	-	20.00	-		814.78	-	-	-	-
	10/21/2017	-	14.30	-		820.48	-	-	-	-
	10/3/2017	-	14.80	-		819.98	-	-	-	-
	9/10/2017	-	14.85	-		819.93	-	-	-	-
	9/6/2017	-	15.34	-		819.44	-	-	-	-
	8/12/2017	-	14.25	-		820.53	-	-	-	-
	8/1/2017	-	14.02	-		820.76	-	-	-	-
	7/2/2017	-	13.68	-		821.10	-	-	-	-
	6/26/2017	-	13.47	-		821.31	-	-	-	-
	6/4/2017	-	13.71	-		821.07	-	-	-	-
	5/4/2017	-	13.90	-		820.88	-	-	-	-
	4/26/2017	-	13.73	-		821.05	-	-	-	-
	4/6/2017	-	14.74	-		820.04	-	-	-	-
	4/3/2017	-	15.20	-		819.58	-	-	-	-
TW-60					828.03			-	-	-
	3/5/2018	-	-	-		828.03	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/5/2018	-	8.45	-		819.58	-	-	-	-
	2/3/2018	-	9.78	-		818.25	-	-	-	-
	1/8/2018	-	NM	-		-	-	-	-	-
	12/27/2017	-	10.90	-		817.13	-	-	-	-
	12/4/2017	-	10.27	-		817.76	-	-	-	-
	11/12/2017	-	11.65	-		816.38	-	-	-	-
	11/7/2017	-	10.20	-		817.83	-	-	-	-
	10/21/2017	-	10.37	-		817.66	-	-	-	-
	10/3/2017	-	7.72	-		820.31	-	-	-	-
	9/10/2017	-	10.45	-		817.58	-	-	-	-
	9/6/2017	-	10.11	-		817.92	-	-	-	-
	8/12/2017	-	16.04	-		811.99	-	-	-	-
	8/1/2017	-	7.05	-		820.98	-	-	-	-
	7/2/2017	-	9.38	-		818.65	-	-	-	-
	6/26/2017	-	NM	-		-	-	-	-	-
	6/4/2017	-	9.40	-		818.63	-	-	-	-
	5/4/2017	-	9.45	-		818.58	-	-	-	-
	4/26/2017	-	9.37	-		818.66	-	-	-	-
	4/6/2017	-	8.93	-		819.10	-	-	-	-
	4/3/2017	-	10.01	-		818.02	-	-	-	-
TW-61					847.50			-	-	-
	4/26/2017	-	1.53	-		845.97	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
TW-64					845.88			-	-	-
	3/5/2018	-	15.60	-		830.28	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/5/2018	-	16.26	-		829.62	-	-	-	-
	2/3/2018	-	16.70	-		829.18	-	-	-	-
	1/8/2018	-	21.10	-		824.78	-	-	-	-
	12/27/2017	-	19.61	-		826.27	-	-	-	-
	12/4/2017	-	17.45	-		828.43	-	-	-	-
	11/12/2017	-	18.05	-		827.83	-	-	-	-
	11/7/2017	-	18.20	-		827.68	-	-	-	-
	10/21/2017	-	18.94	-		826.94	-	-	-	-
	10/3/2017	-	20.40	-		825.48	-	-	-	-
	9/10/2017	-	17.25	-		828.63	-	-	-	-
	9/6/2017	-	17.05	-		828.83	-	-	-	-
	8/12/2017	-	16.23	-		829.65	-	-	-	-
	8/1/2017	-	16.38	-		829.50	-	-	-	-
	7/2/2017	-	15.65	-		830.23	-	-	-	-
	6/4/2017	-	15.55	-		830.33	-	-	-	-
	5/4/2017	-	17.87	-		828.01	-	-	-	-
	4/6/2017	-	19.29	-		826.59	-	-	-	-
TW-65					845.62			-	-	-
	3/5/2018	-	19.96	-		825.66	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/3/2018	-	21.18	-		824.44	-	-	-	-
	12/27/2017	-	22.82	-		822.80	-	-	-	-
	11/12/2017	-	22.25	-		823.37	-	-	-	-
	10/21/2017	-	22.97	-		822.65	-	-	-	-
	9/10/2017	-	21.61	-		824.01	-	-	-	-
	8/12/2017	-	21.08	-		824.54	-	-	-	-
	7/2/2017	-	20.14	-		825.48	-	-	-	-
	6/4/2017	-	20.35	-		825.27	-	-	-	-
	5/4/2017	-	21.95	-		823.67	-	-	-	-
	4/6/2017	-	22.95	-		822.67	-	-	-	-
TW-66					820.31			-	-	-
	3/5/2018	-	0.63	-		819.68	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/5/2018	-	1.10	-		819.21	-	-	-	-
	2/3/2018	-	2.45	-		817.86	-	-	-	-
	1/8/2018	-	2.37	-		817.94	-	-	-	-
	12/27/2017	-	3.03	-		817.28	-	-	-	-
	12/4/2017	-	3.32	-		816.99	-	-	-	-
	11/12/2017	-	2.65	-		817.66	-	-	-	-
	11/7/2017	-	2.15	-		818.16	-	-	-	-
	10/21/2017	-	2.68	-		817.63	-	-	-	-
	10/3/2017	-	1.79	-		818.52	-	-	-	-
	9/10/2017	-	2.98	-		817.33	-	-	-	-
	9/6/2017	-	2.45	-		817.86	-	-	-	-
	8/12/2017	-	2.65	-		817.66	-	-	-	-
	8/1/2017	-	1.35	-		818.96	-	-	-	-
	7/2/2017	-	1.78	-		818.53	-	-	-	-
	6/26/2017	-	1.00	-		819.31	-	-	-	-
	6/4/2017	-	1.75	-		818.56	-	-	-	-
	5/4/2017	-	1.78	-		818.53	-	-	-	-
	4/6/2017	-	1.86	-		818.45	-	-	-	-
	4/3/2017	-	2.32	-		817.99	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
TW-67					852.71			-	-	-
	3/5/2018	-	4.60	-		848.11	-	-	-	-
	2/21/2018	-	10.97	-		841.74	-	-	-	-
	2/5/2018	-	11.75	-		840.96	-	-	-	-
	2/3/2018	-	12.61	-		840.10	-	-	-	-
	1/8/2018	-	NM	-		-	-	-	-	-
	12/27/2017	-	9.00	-		843.71	-	-	-	-
	12/4/2017	-	12.48	-		840.23	-	-	-	-
	11/12/2017	-	9.20	-		843.51	-	-	-	-
	11/7/2017	-	13.91	-		838.80	-	-	-	-
	10/21/2017	-	9.00	-		843.71	-	-	-	-
	10/3/2017	-	13.83	-		838.88	-	-	-	-
	9/10/2017	-	9.80	-		842.91	-	-	-	-
	9/6/2017	-	13.32	-		839.39	-	-	-	-
	8/12/2017	-	6.80	-		845.91	-	-	-	-
	8/1/2017	-	12.70	-		840.01	-	-	-	-
	7/2/2017	-	11.95	-		840.76	-	-	-	-
	6/26/2017	-	11.76	-		840.95	-	-	-	-
	6/4/2017	-	12.47	-		840.24	-	-	-	-
	5/4/2017	-	12.65	-		840.06	-	-	-	-
	4/26/2017	-	13.57	-		839.14	-	-	-	-
	4/6/2017	-	14.30	-		838.41	-	-	-	-
	4/3/2017	-	9.54	-		843.17	-	-	-	-
TW-68					846.45			-	-	-
	3/5/2018	-	22.18	-		824.27	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/3/2018	-	23.13	-		823.32	-	-	-	-
	12/27/2017	-	23.90	-		822.55	-	-	-	-
	11/12/2017	-	23.85	-		822.60	-	-	-	-
	10/21/2017	-	24.47	-		821.98	-	-	-	-
	9/10/2017	-	23.11	-		823.34	-	-	-	-
	8/12/2017	-	22.68	-		823.77	-	-	-	-
	7/2/2017	-	22.09	-		824.36	-	-	-	-
	6/4/2017	-	22.41	-		824.04	-	-	-	-
	5/4/2017	-	23.54	-		822.91	-	-	-	-
	4/6/2017	-	24.32	-		822.13	-	-	-	-
TW-69					840.27			-	-	-
	3/5/2018	-	12.11	-		828.16	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/3/2018	-	13.38	-		826.89	-	-	-	-
	12/27/2017	-	17.75	-		822.52	-	-	-	-
	11/12/2017	-	14.95	-		825.32	-	-	-	-
	10/21/2017	-	16.20	-		824.07	-	-	-	-
	9/10/2017	-	15.24	-		825.03	-	-	-	-
	8/12/2017	-	14.77	-		825.50	-	-	-	-
	7/2/2017	-	12.95	-		827.32	-	-	-	-
	6/4/2017	-	12.06	-		828.21	-	-	-	-
	5/4/2017	-	14.15	-		826.12	-	-	-	-
	4/6/2017	-	16.05	-		824.22	-	-	-	-
TW-70					841.95			-	-	-
	3/5/2018	-	16.41	-		825.54	-	-	-	-
	2/21/2018	-	17.44	-		824.51	-	-	-	-
	2/3/2018	-	18.75	-		823.20	-	-	-	-
	12/27/2017	-	19.36	-		822.59	-	-	-	-
	11/12/2017	-	19.58	-		822.37	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
TW-70 (cont'd)	10/21/2017	-	20.22	-		821.73	-	-	-	-
	9/10/2017	-	19.35	-		822.60	-	-	-	-
	8/12/2017	-	18.75	-		823.20	-	-	-	-
	7/2/2017	-	17.75	-		824.20	-	-	-	-
	6/4/2017	-	17.69	-		824.26	-	-	-	-
	5/4/2017	-	18.44	-		823.51	-	-	-	-
	4/6/2017	-	20.14	-		821.81	-	-	-	-
TW-73					850.53			-	-	-
	3/5/2018	7.55	7.56	0.01		842.97	842.98	-	-	-
	2/21/2018	-	5.36	-		845.17	-	-	-	-
	2/5/2018	-	7.65	-		842.88	-	-	-	-
	2/3/2018	-	6.00	-		844.53	-	-	-	-
	1/8/2018	-	9.83	-		840.70	-	-	-	-
	12/27/2017	-	6.00	-		844.53	-	-	-	-
	12/4/2017	-	3.30	-		847.23	-	-	-	-
	11/12/2017	-	9.00	-		841.53	-	-	-	-
	11/7/2017	-	8.55	-		841.98	-	-	-	-
	10/21/2017	-	9.85	-		840.68	-	-	-	-
	10/3/2017	-	9.43	-		841.10	-	-	-	-
	9/10/2017	-	9.15	-		841.38	-	-	-	-
	9/6/2017	-	9.20	-		841.33	-	-	-	-
	8/12/2017	-	8.40	-		842.13	-	-	-	-
	8/1/2017	-	5.31	-		845.22	-	-	-	-
	7/2/2017	-	7.41	-		843.12	-	-	-	-
	6/26/2017	-	6.41	-		844.12	-	-	-	-
	6/4/2017	-	6.18	-		844.35	-	-	-	-
	5/4/2017	-	7.25	-		843.28	-	-	-	-
	4/26/2017	-	DRY	-		-	-	-	-	-
	4/6/2017	-	9.26	-		841.27	-	-	-	-
	4/3/2017	-	8.71	-		841.82	-	-	-	-
TW-76					852.44			-	-	-
	3/5/2018	-	12.51	-		839.93	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/3/2018	-	14.17	-		838.27	-	-	-	-
	12/27/2017	-	14.55	-		837.89	-	-	-	-
	11/12/2017	-	15.10	-		837.34	-	-	-	-
	10/21/2017	-	15.75	-		836.69	-	-	-	-
	9/10/2017	-	14.39	-		838.05	-	-	-	-
	8/12/2017	-	13.92	-		838.52	-	-	-	-
	7/2/2017	-	13.81	-		838.63	-	-	-	-
	6/4/2017	-	14.76	-		837.68	-	-	-	-
	5/4/2017	-	16.50	-		835.94	-	-	-	-
	4/6/2017	-	17.56	-		834.88	-	-	-	-
TW-81					849.43			-	-	-
	3/5/2018	-	0.60	-		848.83	-	-	-	-
	2/21/2018	-	1.51	-		847.92	-	-	-	-
	2/3/2018	-	2.40	-		847.03	-	-	-	-
	12/27/2017	-	4.21	-		845.22	-	-	-	-
	11/12/2017	-	4.05	-		845.38	-	-	-	-
	10/21/2017	-	6.22	-		843.21	-	-	-	-
	9/10/2017	-	4.87	-		844.56	-	-	-	-
	8/12/2017	-	5.58	-		843.85	-	-	-	-
	7/2/2017	-	2.67	-		846.76	-	-	-	-
	6/4/2017	-	2.75	-		846.68	-	-	-	-
	5/4/2017	-	2.06	-		847.37	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
TW-81 (cont'd)	4/6/2017	-	NM	-		-	-	-	-	-
TW-82					849.64			-	-	-
	3/5/2018	-	0.35	-		849.29	-	-	-	-
	2/21/2018	-	1.10	-		848.54	-	-	-	-
	2/3/2018	-	2.45	-		847.19	-	-	-	-
	12/27/2017	-	4.32	-		845.32	-	-	-	-
	11/12/2017	-	4.05	-		845.59	-	-	-	-
	10/21/2017	-	6.74	-		842.90	-	-	-	-
	9/10/2017	-	5.11	-		844.53	-	-	-	-
	8/12/2017	-	5.88	-		843.76	-	-	-	-
	7/2/2017	-	2.65	-		846.99	-	-	-	-
	6/4/2017	-	2.50	-		847.14	-	-	-	-
	5/4/2017	-	1.75	-		847.89	-	-	-	-
	4/6/2017	-	1.52	-		848.12	-	-	-	-
TW-83					850.44			-	-	-
	3/5/2018	-	0.97	-		849.47	-	-	-	-
	2/21/2018	-	2.00	-		848.44	-	-	-	-
	2/3/2018	-	3.18	-		847.26	-	-	-	-
	12/27/2017	-	5.09	-		845.35	-	-	-	-
	11/12/2017	-	4.80	-		845.64	-	-	-	-
	10/21/2017	-	NM	-		-	-	-	-	-
	9/10/2017	-	NM	-		-	-	-	-	-
	8/12/2017	-	NM	-		-	-	-	-	-
	7/2/2017	-	3.45	-		846.99	-	-	-	-
	6/4/2017	-	3.25	-		847.19	-	-	-	-
	5/4/2017	-	2.61	-		847.83	-	-	-	-
	4/6/2017	-	2.32	-		848.12	-	-	-	-
TW-84					851.22			-	-	-
	3/5/2018	-	2.05	-		849.17	-	-	-	-
	2/21/2018	-	3.16	-		848.06	-	-	-	-
	2/3/2018	-	4.15	-		847.07	-	-	-	-
	12/27/2017	-	5.75	-		845.47	-	-	-	-
	11/12/2017	-	5.25	-		845.97	-	-	-	-
	10/21/2017	-	7.90	-		843.32	-	-	-	-
	9/10/2017	-	6.67	-		844.55	-	-	-	-
	8/12/2017	-	7.12	-		844.10	-	-	-	-
	7/2/2017	-	4.06	-		847.16	-	-	-	-
	6/4/2017	3.74	3.75	0.01		847.47	847.47	-	-	-
	5/4/2017	-	3.36	-		847.86	-	-	-	-
	4/6/2017	-	4.25	-		846.97	-	-	-	-
TW-85					843.49			-	-	-
	3/5/2018	-	NM	-		-	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/3/2018	-	-	-		843.49	-	-	-	-
	12/27/2017	-	16.10	-		827.39	-	-	-	-
	11/12/2017	-	10.10	-		833.39	-	-	-	-
	10/21/2017	-	13.40	-		830.09	-	-	-	-
	9/10/2017	-	10.60	-		832.89	-	-	-	-
	8/12/2017	-	6.10	-		837.39	-	-	-	-
	7/2/2017	-	9.51	-		833.98	-	-	-	-
	6/4/2017	-	8.61	-		834.88	-	-	-	-
	5/4/2017	-	11.95	-		831.54	-	-	-	-
	4/6/2017	-	14.45	-		829.04	-	-	-	-
TW-86					853.10			-	-	-
	3/5/2018	-	3.51	-		849.59	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
TW-86 (cont'd)	2/21/2018	-	4.35	-		848.75	-	-	-	-
	2/3/2018	-	5.48	-		847.62	-	-	-	-
	12/27/2017	-	5.52	-		847.58	-	-	-	-
	11/12/2017	-	5.61	-		847.49	-	-	-	-
	10/21/2017	-	5.57	-		847.53	-	-	-	-
	9/10/2017	-	5.56	-		847.54	-	-	-	-
	8/12/2017	-	5.55	-		847.55	-	-	-	-
	7/2/2017	-	5.35	-		847.75	-	-	-	-
	6/4/2017	-	4.94	-		848.16	-	-	-	-
	5/4/2017	-	4.40	-		848.70	-	-	-	-
	4/6/2017	-	4.30	-		848.80	-	-	-	-
TW-87					852.25			-	-	-
	3/5/2018	-	2.58	-		849.67	-	-	-	-
	2/21/2018	-	3.81	-		848.44	-	-	-	-
	2/3/2018	-	5.13	-		847.12	-	-	-	-
	12/27/2017	-	6.60	-		845.65	-	-	-	-
	11/12/2017	-	6.21	-		846.04	-	-	-	-
	10/21/2017	-	6.82	-		845.43	-	-	-	-
	9/10/2017	-	6.80	-		845.45	-	-	-	-
	8/12/2017	-	6.80	-		845.45	-	-	-	-
	7/2/2017	-	5.26	-		846.99	-	-	-	-
	6/4/2017	-	4.95	-		847.30	-	-	-	-
	5/4/2017	-	4.82	-		847.43	-	-	-	-
	4/6/2017	-	6.15	-		846.10	-	-	-	-
TW-90					845.43			-	-	-
	3/5/2018	-	-	-		845.43	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	12/27/2017	-	7.80	-		837.63	-	-	-	-
	11/12/2017	-	11.00	-		834.43	-	-	-	-
	10/21/2017	-	14.66	-		830.77	-	-	-	-
	9/10/2017	-	10.20	-		835.23	-	-	-	-
	8/12/2017	-	7.70	-		837.73	-	-	-	-
	7/2/2017	-	11.42	-		834.01	-	-	-	-
	6/4/2017	-	11.27	-		834.16	-	-	-	-
	5/4/2017	-	15.02	-		830.41	-	-	-	-
	4/6/2017	-	16.89	-		828.54	-	-	-	-
TW-94					840.58			-	-	-
	3/5/2018	-	-	-		840.58	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/3/2018	-	-	-		840.58	-	-	-	-
	12/27/2017	-	-	-		840.58	-	-	-	-
	11/12/2017	-	NM	-		-	-	-	-	-
	10/21/2017	-	2.00	-		838.58	-	-	-	-
	9/10/2017	-	NM	-		-	-	-	-	-
	8/12/2017	-	-	-		840.58	-	-	-	-
	7/2/2017	-	1.80	-		838.78	-	-	-	-
	6/4/2017	-	1.70	-		838.88	-	-	-	-
	5/4/2017	7.17	7.18	0.01		833.40	833.41	-	-	-
	4/6/2017	6.55	6.63	0.08		833.95	834.01	-	-	-
TW-96					840.40			-	-	-
	3/5/2018	-	-	-		840.40	-	-	-	-
	2/21/2018	-	NM	-		-	-	-	-	-
	2/5/2018	-	-	-		840.40	-	-	-	-
	2/3/2018	-	-	-		840.40	-	-	-	-
	1/8/2018	-	15.07	-		825.33	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[a,b] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[c] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
TW-96 (cont'd)	12/27/2017	-	14.96	-		825.44	-	-	-	-
	12/4/2017	-	3.00	-		837.40	-	-	-	-
	11/12/2017	-	6.80	-		833.60	-	-	-	-
	11/7/2017	-	8.58	-		831.82	-	-	-	-
	10/21/2017	-	11.98	-		828.42	-	-	-	-
	10/3/2017	-	16.63	-		823.77	-	-	-	-
	9/10/2017	-	6.70	-		833.70	-	-	-	-
	9/6/2017	-	9.28	-		831.12	-	-	-	-
	8/12/2017	-	8.55	-		831.85	-	-	-	-
	8/1/2017	-	8.25	-		832.15	-	-	-	-
	7/2/2017	-	5.83	-		834.57	-	-	-	-
	6/26/2017	-	NM	-		-	-	-	-	-
	6/4/2017	-	5.35	-		835.05	-	-	-	-
	5/4/2017	-	9.02	-		831.38	-	-	-	-
	4/6/2017	-	10.82	-		829.58	-	-	-	-

Notes:

[a.] Elevation of zero mark (ft amsl) for surface water staff gauges.

[b.] "RS-" and "RT-" features were trimmed to less than 12 inches above ground surface on 3/14/2017. Only the resurveyed top of casing elevation

[c.] Calculated based on an oil:water density ratio of 0.73.

Bold indicates the gauged product thickness was greater than 0.5 foot.

- = not applicable

amsl = above mean sea level

BTOC = below top of casing

DRY = well contained no measurable water or product

ft = feet

ID = identification

NM = not measured

The following features are no longer reliable for calculating groundwater elevation:

- RS-19 was damaged on or about January 20, 2017.
- RT-2H was covered over on or about January 17, 2017, due to construction efforts in the vicinity.
- TW-46 was damaged on or about December 8, 2016.

Table 4. Dissolved Oxygen Results for Groundwater
Plantation Pipe Line Company
Lewis Drive Remediation Site, Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Site Area	Nearest Sparge Well (ft)	Distance to Nearest Sparge Well (ft)	DO (mg/L) 4/3/2017	DO (mg/L) 5/4/2017	DO (mg/L) 6/26/2017	DO (mg/L) 7/17/2017	DO (mg/L) 8/1/2017	DO (mg/L) 9/5-8/2017	DO (mg/L) 10/3/2017	DO (mg/L) 11/7/2017	DO (mg/L) 12/4/2017	DO (mg/L) 1/8/2018	DO (mg/L) 2/5/2018	DO (mg/L) 3/5/2018
MW-12	Brown's Creek	VAS-37	18	FP	1.62	0.50	0.45	0.54	7.95	0.35	6.39	0.70	0.58	4.05	2.90
MW-12B	Brown's Creek	VAS-37	9	1.17	0.51	0.70	0.55	0.67	0.70	0.70	1.86	2.58	2.18	0.70	4.40
MW-15	Brown's Creek	VAS-21	14	1.67	3.91	1.45	2.43	9.84	7.95	0.68	7.84	5.40	3.27	8.86	10.40
MW-15B	Brown's Creek	VAS-22	13	0.95	1.58	0.66	0.98	1.36	0.98	0.77	7.70	0.87	0.33	0.80	0.90
MW-25	Brown's Creek	VAS-29	54	0.75	0.53	0.48	0.44	0.78	0.68	1.83	1.70	0.76	0.78	1.54	2.65
MW-25B	Brown's Creek	VAS-29	56	0.55	0.51	1.13	0.61	0.81	2.10	1.06	0.78	0.60	0.58	0.65	1.10
MW-28	Brown's Creek	VAS-46	26	2.41	0.66	0.50	0.51	0.73	0.40	0.57	0.52	0.60	0.61	1.29	3.46
		Average Brown's Creek Protection Zone Values		**1.25**	**1.33**	**0.77**	**0.85**	**2.10**	**2.97**	**0.85**	**3.83**	**1.64**	**1.19**	**2.56**	**3.69**
MW-19	Cupboard Creek	VAS-08	17	1.74	1.43	0.65	0.63	0.89	0.85	7.56	6.30	1.10	2.96	9.00	1.14
MW-20	Cupboard Creek	VAS-03	23	FP	FP	NM	NM	FP	FP	FP	FP	FP	FP	1.05	FP
MW-29	Cupboard Creek	VAS-19	111	6.76	6.68	5.80	4.55	7.21	6.50	7.79	6.72	3.85	7.03	8.06	4.98
		Average Cupboard Creek Protection Zone Values		**4.25**	**4.06**	**3.23**	**2.59**	**4.05**	**3.68**	**7.68**	**6.51**	**2.48**	**5.00**	**6.04**	**3.06**
MW-02	Hayfield	HAS-02	33	NM	0.35	5.30	7.48	8.71	6.20	0.27	8.22	NM	0.57	11.60	11.62
MW-02B	Hayfield	HAS-02	24	NM	0.26	3.74	3.18	4.23	1.54	2.75	8.45	9.99	8.90	7.80	6.62
MW-03	Hayfield	HAS-02	12	NM	0.27	10.25	10.12	10.86	NM[b]	7.30	9.61	10.44	NC	10.00	11.30
MW-04	Hayfield	HAS-01	82	NM	8.02	6.51	7.53	8.19	7.61	5.81	7.55	6.54	7.34	8.08	NM
MW-08	Hayfield	HAS-03	12	NM	7.00	7.14	18.94	7.24	8.59	7.45	8.30	8.65	NC	10.64	10.08
MW-09	Hayfield	HAS-01	37	NM	0.20	8.72	8.96	9.74	FP	0.44	6.55	0.80	5.55	1.03	11.07
MW-10	Hayfield	HAS-03	27	NM	6.32	5.95	3.66	3.84	1.70	5.70	7.74	7.25	4.92	10.51	9.97
MW-16	Hayfield	HAS-01	24	NM	FP	8.46	9.10	FP	FP	FP	8.92	FP	1.54	10.44	10.81
MW-18	Hayfield	HAS-03	2	NM	FP	1.39	FP	FP	FP	FP	FP	FP	NC	FP	FP
MW-30	Hayfield	HAS-01	15	NM	3.62	7.56	0.58	1.06	NC	NC	8.45	3.62	NC	5.32	3.64
TW-55	Hayfield	HAS-01	40	NM	1.68	8.10	9.03	9.28	9.06	2.36	8.84	NM	8.63	11.00	10.65
TW-59[a]	Hayfield	VAS-38	6	NM	NM	NM	NM	NM	NM	NM	9.70	9.70	10.00	10.04	10.17
TW-60	Hayfield	VAS-25	10	0.76	1.80	NM	5.40	8.46	5.65	8.13	7.43	9.19	NM	7.46	10.20
TW-64	Hayfield	HAS-03	132	NM	7.85	NM	7.85	8.28	4.38	4.43	4.42	8.21	7.71	8.90	8.64
TW-66	Hayfield	VAS-28	49	2.90	5.35	4.57	6.02	6.54	8.93	6.02	5.67	6.30	7.28	7.98	8.30
TW-67	Hayfield	VAS-11	14	9.26	9.82	16.86	9.45	10.03	9.15	8.02	9.60	10.64	NM	10.50	8.63
TW-73	Hayfield	VAS-19	11	9.57	NC	8.34	10.27	10.47	8.90	8.41	9.00	9.60	9.43	10.78	FP
TW-96	Hayfield	HAS-03	78	NM	7.29	NM	9.51	10.04	9.05	8.68	9.17	9.72	9.57	10.10	10.50
		Average Hayfield Zone Values		**5.62**	**4.27**	**7.35**	**7.94**	**7.80**	**6.73**	**5.41**	**8.10**	**7.90**	**6.79**	**8.95**	**9.48**
MW-01	Shallow Bedrock	VBS-01	147	NM	NM	NM	NM	NM	3.40	3.50	7.33	5.94	0.38	1.34	0.95
MW-01B	Shallow Bedrock	VBS-01	152	NM	NM	NM	NM	NM	0.85	0.96	0.86	0.43	0.85	0.65	0.63
MW-11	Shallow Bedrock	VBS-01	368	NM	NM	NM	NM	NM	7.89	NM	NM	NM	FP	FP	0.58
MW-22	Shallow Bedrock	VBS-03	115	NM	NM	NM	NM	NM	NC	0.67	4.74	1.35	1.04	4.80	0.69
		Average Shallow Bedrock Zone Values		**-**	**-**	**-**	**-**	**-**	**4.05**	**1.71**	**4.31**	**2.57**	**0.76**	**2.26**	**0.71**
		Average Residuum Values		**3.98**	**3.92**	**5.71**	**6.33**	**6.64**	**6.04**	**4.57**	**7.11**	**5.73**	**4.69**	**7.37**	**7.10**
		Average Bedrock Values		**0.89**	**0.72**	**1.56**	**1.33**	**1.77**	**1.23**	**1.25**	**3.93**	**2.89**	**2.57**	**2.12**	**2.73**

Notes:

[a] TW-59 could not be measured because the probe does not fit into the well because the polyvinyl chloride pipe has shifted in the vault.

[b] MW-03 could not be measured in September for health and safety reasons (fire ants).

Brown's and Cupboard Creek Protection Zones startup was March 6, 2017.

Hayfield Zone startup was May 9, 2017.

Shallow Bedrock Zone has not been started as of March 31, 2018.

DO = dissolved oxygen

ft = feet

FP = measurement not collected due to the presence of free product in the well

NC = measurement not collected due to insufficient volume of water in the well

mg/L = milligrams per liter

NM = not measured

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	**µg/L**	**5.0**	**700**	**1,000**	**10,000**	**5.0**	**40**	**25**	**0.05**
MW-01	MW-01-072715			7/27/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.02 U
	MW-01-012716			1/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	--			11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-01-062817			6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-01-090717			9/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-01-120517	12/4/2017	9.85	12/5/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-01-030818	3/5/2018	3.80	3/8/2018	µg/L	**1.85**	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-01B	MW-01B-080415			8/4/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.02 U
	MW-01B-012716			1/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
	MW-01B-120116			12/1/2016	µg/L	1 U	1 U	**1.4**	**5.6**	1 U	1 U	**1.3**	--
	MW-01B-062817			6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-01B-062817-FD			6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-01B-090717			9/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-01B-120517	12/4/2017	10.24	12/5/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-01B-030818	3/5/2018	7.40	3/8/2018	µg/L	**3.51**	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-02	MW-02-072715			7/27/2015	µg/L	**4,320**	625 U	**9,670**	**2,460**	5 U[b]	**171**	**74.7**	0.02 U
	MW-02-012616			1/26/2016	µg/L	**9,500**	**1,160**	**25,000**	**6,310**	50 U[b]	**285**	**139**	0.019 U
	--			11/28/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	MW-02-062917			6/29/2017	µg/L	**8,040**	**833**	**27,100**	**9,890**	250 U[b]	250 U[b]	1,250 U[b]	--
	MW-02-090817			9/8/2017	µg/L	**2,340**	**181**	**7,120**	**8,510**	50 U[b]	50 U[b]	**389**	--
	MW-02-100417	10/3/2017	16.03	10/4/2017	µg/L	**3,510**	**306**	**11,900**	**11,200**	50 U[b]	**53.9**	250 U[b]	--
	MW-02-110817	11/7/2017	4.20	11/8/2017	µg/L	**850**	100 U	**1,370**	**3,520**	100 U[b]	100 U[b]	500 U[b]	--
	MW-02-120717	12/4/2017	2.54	12/7/2017	µg/L	**153**	**15.1**	**313**	**441**	1 U	**70.9**	**12.8**	--
	MW-02-010918	1/8/2018	14.26	1/9/2018	µg/L	**307**	10 U	**878**	**1,300**	10 U[b]	**61.8**	**63.7**	--
	MW-02-020618	2/5/2018	0.00	2/6/2018	µg/L	**30.5**	1.09	**29.6**	**88**	1 U	**32.0**	5 U	--
	MW-02-030718	3/5/2018	3.00	3/7/2018	µg/L	**131**	**34.1**	**594**	**442**	1 U	**27.6**	**34.5**	--
MW-02B	MW-02B-080415			8/4/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.02 U
	MW-02B-D-080415			8/4/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.019 U
	--			1/19/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	MW-02B-030116			3/1/2016	µg/L	1 U	1 U	**4.8**	**4.6**	1 U	1 U	1 U	0.019 U
	MW-02B-D-030116			3/1/2016	µg/L	1 U	1 U	**4.8**	**5.3**	1 U	1 U	1 U	0.02 U
	--			11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-02B-033117			3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-02B-062917			6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
MW-02B	MW-02B-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-02B-120717	12/4/2017	24.56	12/7/2017	µg/L	1 U	1 U	**1.11**	3 U	1 U	1 U	5 U	--
	MW-02B-030718	3/5/2018	1.50	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-03	MW-03-072715			7/27/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.02 U
	MW-03-012516			1/25/2016	µg/L	**108**	**20.1**	**958**	**598**	1 U	1 U	**11.1**	0.02 U
	MW-03-120616			12/6/2016	µg/L	**61.1**	**25.1**	**229**	**330**	2 U	2 U	**3.6**	--
	MW-03-062917			6/29/2017	µg/L	**10.9**	1 U	**24.6**	**6.98**	1 U	**2.34**	5 U	--
	--			9/5/2017	--	NS-HS	NS-HS	NS-HS	NS-HS	NS-HS	NS-HS	NS-HS	NS-HS
	--	10/3/2017	19.87	10/3/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-03-110817	11/7/2017	--*	11/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-03-120517	12/4/2017	18.00	12/5/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	--	1/8/2018	19.98	1/8/2018	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-03-020618	2/5/2018	--*	2/6/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-03-030718	3/5/2018	4.12	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-04	MW-04-072815			7/28/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.019 U
	MW-04-012516			1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-04-120616			12/6/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-04-062917			6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-04-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-04-090817-DUP			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-04-120717	12/4/2017	10.07	12/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-04-030718	3/5/2018	10.70	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-05	MW-05-072815			7/28/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.019 U
	MW-05-012516			1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	--			11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-05-050317			5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-05-062917			6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-05-071717			7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-05-080117			8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-05-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-05-100417	10/3/2017	17.03	10/4/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-05-110817	11/7/2017	17.18	11/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-05-120717	12/4/2017	16.55	12/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-05-010918	1/8/2018	16.57	1/9/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-05-020618	2/5/2018	15.87	2/6/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-05	MW-05-030718	3/5/2018	13.06	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
MW-06	MW-06-072815			7/28/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.02 U
	MW-06-012116			1/21/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-06-120216			12/2/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-06-062917			6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-06-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-06-120717	12/4/2017	15.45	12/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-06-030718	3/5/2018	13.25	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-06B	MW-06B-120717	12/4/2017	16.14	12/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-06B-D-120717	12/4/2017	16.14	12/7/2017	µg/L	1 U	1 U	**1.82**	3 U	1 U	1 U	5 U	--
	MW-06B-030718	3/5/2018	4.12	3/7/2018	µg/L	1 U	1 U	**3.63**	3 U	1 U	1 U	5 U	--
MW-07	--			7/27/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-07-012116			1/21/2016	µg/L	**1,060**	**389**	**5,210**	**2,620**	40 U[b]	40 U[b]	40 U[b]	0.02 U
	--			11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-07-062917			6/29/2017	µg/L	**4,290**	**629**	**17,700**	**4,990**	250 U[b]	250 U[b]	1,250 U[b]	--
	--			9/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	10/3/2017	13.20	10/3/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	11/7/2017	13.20	11/7/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/4/2017	13.21	12/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	1/8/2018	13.21	1/8/2018	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	2/5/2018	13.19	2/6/2018	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-07-030818	3/5/2018	11.77	3/8/2018	µg/L	**4,550**	**802**	**14,100**	**7,520**	50 U[b]	50 U[b]	250 U[b]	--
MW-08	MW-08-072815			7/28/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.02 U
	MW-08-012616			1/26/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-08-120616			12/6/2016	µg/L	1 U	1 U	**14.4**	**7.1**	1 U	1 U	1 U	--
	MW-08-062917			6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-08-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-08-120717	12/4/2017	10.47	12/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-08-030718	3/5/2018	7.50	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-09	--			7/27/2015	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			1/19/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			11/28/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	MW-09-062917			6/29/2017	µg/L	**3,860**	**517**	**13,000**	**8,680**	200 U[b]	200 U[b]	1,000 U[b]	--
	--			9/5/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
MW-09	MW-09-120717	12/4/2017	3.05	12/7/2017	µg/L	**54.3**	**3.44**	**19.6**	**64.8**	1 U	**27.5**	5 U	--
	MW-09-030718	3/5/2018	0.50	3/7/2018	µg/L	**3.3**	1 U	**11.0**	**3.92**	1 U	**8.74**	5 U	--
	MW-09D-030718	3/5/2018	0.50	3/7/2018	µg/L	1 U	1 U	**1.32**	3 U	1 U	**8.74**	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
MW-09B	MW-09B-120717	12/4/2017	9.15	12/7/2017	µg/L	**21.8**	**24.7**	**82.1**	**179**	1 U	**4.72**	**11.9**	--
	MW-09B-030718	3/5/2018	0.00	3/7/2018	µg/L	**4.36**	**4.5**	**18.1**	**33.3**	1 U	**1.37**	5 U	--
MW-10	MW-10-072815			7/28/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.019 U
	MW-10-012616			1/26/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
	MW-10-120616			12/6/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-10-050317			5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-050317-FD			5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-062917			6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-071717			7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-080117			8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-100417	10/3/2017	17.33	10/4/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-110817	11/7/2017	12.64	11/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-120717	12/4/2017	10.85	12/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-010918	1/8/2018	15.08	1/9/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-020618	2/5/2018	6.81	2/6/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-D-020618	2/5/2018	6.81	2/6/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-030718	3/5/2018	5.11	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-11	--			7/27/2015	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	MW-11-012616			1/26/2016	µg/L	**10,600**	**948**	**24,400**	**4,700**	10 U[b]	**432**	**123**	0.019 U
	--			11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-11-062817			6/28/2017	µg/L	**10,900**	**2,140**	**29,600**	**11,700**	100 U[b]	**147**	500 U[b]	--
	--			9/5/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	12/4/2017	29.86	12/4/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	3/5/2018	28.10	3/5/2018	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
MW-12	MW-12-072815			7/28/2015	µg/L	**51.3**	5 U	**22.9**	**39.2**	5 U[b]	5 U	5 U	0.02 U
	--			1/19/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			11/28/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			3/13/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			3/20/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			3/31/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
MW-12	--			4/6/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	MW-12-062817			6/28/2017	µg/L	**1,190**	**467**	**7,910**	**5,100**	50 U[b]	50 U[b]	250 U[b]	--
	MW-12-090817			9/8/2017	µg/L	**648**	**436**	**3,470**	**4,440**	100 U[b]	100 U[b]	500 U[b]	--
	MW-12-120617	12/4/2017	15.55	12/6/2017	µg/L	**367**	**137**	**1,540**	**4,660**	10 U[b]	10 U	**54.4**	--
	MW-12-030818	3/5/2018	12.83	3/8/2018	µg/L	**486**	**25.2**	**1,880**	**1,980**	10 U[b]	10 U	50 U[b]	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
MW-12B	MW-12B-012616			1/26/2016	µg/L	**228**	**31.4**	**193**	**532**	1 U	**5.4**	**14.6**	0.019 U
	MW-12B-113016			11/30/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-12B-031417			3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-12B-031417-FD			3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-12B-032017			3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-12B-033117			3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-12B-040617			4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-12B-062817			6/28/2017	µg/L	**30.1**	1 U	**7.28**	**14.3**	1 U	**11.8**	5 U	--
	MW-12B-090817			9/8/2017	µg/L	**126**	**3.81**	**16.8**	**256**	1 U	1 U	**12**	--
	MW-12B-120617	12/4/2017	16.12	12/6/2017	µg/L	**1.01**	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-12B-030818	3/5/2018	12.92	3/8/2018	µg/L	**3.06**	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-13	--			7/27/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-13-012816			1/28/2016	µg/L	**2**	1 U	**12.5**	**6.9**	1 U	1 U	1 U	0.02 U
	--			11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-13-062917			6/29/2017	µg/L	**1.18**	1 U	**3.39**	3 U	1 U	1 U	5 U	--
	--			9/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/4/2017	21.87	12/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-13-030618	3/5/2018	20.40	3/6/2018	µg/L	**6.98**	**1.14**	**15.3**	**4.55**	1 U	1 U	5 U	--
MW-13B	MW-13B-012816			1/28/2016	µg/L	**367**	1 U	**5.6**	**59.5**	1 U	**119**	1 U	0.02 U
	MW-13B-D-012816			1/28/2016	µg/L	**405**	1 U	**6.1**	**59.1**	1 U	**108**	1 U	0.02 U
	MW-13B-113016			11/30/2016	µg/L	**550**	**5.1**	**21.2**	**140**	5 U[b]	**158**	**7.9**	--
	MW-13B-062817			6/28/2017	µg/L	**308**	**3.09**	**10.3**	**103**	1 U	**121**	**5.13**	--
	MW-13B-090817			9/8/2017	--	NS-SL	NS-SL	NS-SL	NS-SL	NS-SL	NS-SL	NS-SL	NS-SL
	MW-13B-110817	11/7/2017	23.08	11/8/2017	µg/L	**325**	**3.42**	**19**	**91.6**	1 U	**173**	**5.55**	--
	MW-13B-D-110817	11/7/2017	23.08	11/8/2017	µg/L	**356**	**3.85**	**20.8**	**100**	1 U	**168**	**6.61**	--
	MW-13B-120617	12/4/2017	22.66	12/6/2017	µg/L	**269**	**3.97**	**24.4**	**100**	1 U	**140**	**8.83**	--
	MW-13B-030718	3/5/2018	21.00	3/7/2018	µg/L	**252**	**3.13**	**12.1**	**60.2**	1 U	**175**	**6.44**	--
MW-14	MW-14-072815			7/28/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.02 U
	MW-14-012816			1/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
MW-14	MW-14-113016			11/30/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-14-062817			6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-14-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-14-120617	12/4/2017	17.62	12/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-14-030718	3/5/2018	15.11	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-14B	MW-14B-052516			5/25/2016	µg/L	**5**	1 U	1 U	**4.4**	1 U	**17.2**	1 U	0.02 U
	MW-14B-052516-FD			5/25/2016	µg/L	**4.6**	1 U	1 U	**4.1**	1 U	**23.6**	1 U	0.02 U
	MW-14B-113016			11/30/2016	µg/L	**10.5**	1 U	**1.1**	**5.5**	1 U	**19.7**	1 U	--
	MW-14B-062817			6/28/2017	µg/L	**38.1**	**1.34**	**2.56**	**19.1**	1 U	**36.2**	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
	MW-14B-090817			9/8/2017	µg/L	**6.81**	1 U	1 U	**6.67**	1 U	**18.7**	5 U	--
	MW-14B-120617	12/4/2017	19.22	12/6/2017	µg/L	**8.82**	1 U	1 U	**6.91**	1 U	**24.4**	5 U	--
	MW-14B-030718	3/5/2018	16.95	3/7/2018	µg/L	**3.57**	1 U	1 U	**5.6**	1 U	**9.28**	5 U	--
MW-15	MW-15-080415			8/4/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.019 U
	MW-15-012816			1/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-15-120716			12/7/2016	µg/L	**3,680**	**139**	**422**	**2,280**	25 U[b]	**188**	**43.8**	--
	MW-15-031417			3/14/2017	µg/L	**1,960**	**72**	**324**	**1,320**	25 U[b]	**161**	125 U[b]	--
	MW-15-031417-FD			3/14/2017	µg/L	**1,820**	**61**	**286**	**1,120**	25 U[b]	**153**	125 U[b]	--
	MW-15-032017			3/20/2017	µg/L	**3,390**	**103**	**505**	**2,460**	50 U[b]	**194**	250 U[b]	--
	MW-15-033117			3/31/2017	µg/L	**2,850**	**65.4**	**444**	**1,860**	20 U[b]	**221**	100 U[b]	--
	MW-15-040617			4/6/2017	µg/L	**1,790**	**60.6**	**465**	**886**	25 U[b]	**181**	125 U[b]	--
	MW-15-062817			6/28/2017	µg/L	**73**	25 U	**29**	**110**	25 U[b]	**91.8**	125 U[b]	--
	MW-15-090817			9/8/2017	µg/L	**454**	**24**	**567**	**338**	5 U[b]	**193**	25 U[b]	--
	MW-15-120617	12/4/2017	13.66	12/6/2017	µg/L	1 U	1 U	**2**	**5**	1 U	**140**	5 U	--
	MW-15-030818	3/5/2018	10.04	3/8/2018	µg/L	**53.1**	**2.75**	**89.9**	**53.1**	1 U	**85**	5 U	--
MW-15B	MW-15B-080415			8/4/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.019 U
	MW-15B-012816			1/28/2016	µg/L	**4.8**	1 U	**2**	**3.9**	1 U	1 U	1 U	0.02 U
	MW-15B-113016			11/30/2016	µg/L	**337**	**34**	**565**	**194**	5 U[b]	**26.7**	**5**	--
	MW-15B-031417			3/14/2017	µg/L	**2,160**	**248**	**4,580**	**1,500**	100 U[b]	**118**	500 U[b]	--
	MW-15B-032017			3/20/2017	µg/L	**615**	**88.6**	**1,270**	**555**	25 U[b]	**67.5**	125 U[b]	--
	MW-15B-033117			3/31/2017	µg/L	**1,630**	**205**	**3,240**	**1,180**	50 U[b]	**115**	250 U[b]	--
	MW-15B-040617			4/6/2017	µg/L	**1,020**	**132**	**2,020**	**789**	25 U[b]	**84.7**	125 U[b]	--
	MW-15B-040617-FD			4/6/2017	µg/L	**973**	**124**	**1,910**	**742**	25 U[b]	**82.9**	125 U[b]	--
	MW-15B-062817			6/28/2017	µg/L	**1,510**	**145**	**3,520**	**1,280**	100 U[b]	100 U[b]	500 U[b]	--
MW-15B	MW-15B-090817			9/8/2017	µg/L	**1,820**	**164**	**3,560**	**1,210**	50 U[b]	**133**	250 U[b]	--
	MW-15B-120617	12/4/2017	16.25	12/6/2017	µg/L	**1,760**	**239**	**3,630**	**1,380**	1 U	**135**	**37.6**	--
	MW-15B-D-120617	12/4/2017	16.25	12/6/2017	µg/L	**491**	**56**	**1,050**	**408**	1 U	**117**	**35.4**	--
	MW-15B-030818	3/5/2018	14.66	3/8/2018	µg/L	**1,290**	**151**	**3,140**	**1,070**	25 U[b]	**93.2**	125 U[b]	--
MW-16	--			7/27/2015	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			1/19/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			11/28/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	MW-16-062917			6/29/2017	µg/L	**12,900**	**1,770**	**36,400**	**12,500**	500 U[b]	**1,740**	2,500 U[b]	--
	--			9/5/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
	--	12/4/2017	7.00	12/7/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	MW-16-030718	3/5/2018	3.00	3/7/2018	µg/L	**130**	**295**	**1,370**	**2,470**	10 U[b]	**132**	**618**	--
MW-17	--			7/27/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			1/19/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			3/13/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			3/20/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			3/31/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			4/6/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			6/26/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			9/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/4/2017	10.85	12/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/5/2018	10.85	3/5/2018	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
MW-17B	MW-17B-030116			3/1/2016	µg/L	**6,480**	**488**	**11,900**	**2,870**	**5**	**742**	**104**	0.019 U
	MW-17B-120116			12/1/2016	µg/L	**9,370**	**761**	**16,900**	**4,500**	100 U[b]	**954**	**112**	--
	MW-17B-031317			3/13/2017	µg/L	**7,350**	**770**	**14,100**	**4,510**	200 U[b]	**944**	1,000 U[b]	--
	MW-17B-032017			3/20/2017	µg/L	**10,700**	**1,360**	**21,400**	**7,910**	**323**	**1,210**	1,000 U[b]	--
	MW-17B-033117			3/31/2017	µg/L	**9,190**	**900**	**17,500**	**5,910**	100 U[b]	**1,200**	500 U[b]	
	MW-17B-033117FD			3/31/2017	µg/L	**9,190**	**956**	**18,200**	**6,330**	100 U[b]	**1,210**	500 U[b]	--
	MW-17B-040617			4/6/2017	µg/L	**7,780**	**833**	**14,900**	**5,330**	200 U[b]	**991**	1,000 U[b]	--
	MW-17B-062817			6/28/2017	µg/L	**11,200**	**704**	**21,600**	**5,650**	200 U[b]	**1,150**	1,000 U[b]	--
	MW-17-090817			9/8/2017	µg/L	**11,400**	**1,240**	**23,900**	**8,460**	20 U[b]	**1,330**	**201**	--
	MW-17B-120717	12/4/2017	17.05	12/7/2017	µg/L	**10,600**	**1,060**	**14,900**	**9,210**	10 U[b]	**1,140**	**178**	--
	MW-17B-030718	3/5/2018	14.80	3/7/2018	µg/L	**8,830**	**1,110**	**20,200**	**8,220**	50 U[b]	**960**	250 U[b]	--
MW-17B	MW-17BD-030718	3/5/2018	14.80	3/7/2018	µg/L	**8,700**	**1,080**	**19,400**	**7,770**	50 U[b]	**983**	250 U[b]	--
MW-18	--			7/27/2015	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			1/19/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			11/28/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			6/26/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			9/5/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	12/4/2017	11.64	12/4/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	3/5/2018	18.25	3/5/2018	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
MW-19	--			7/27/2015	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	MW-19-012116			1/21/2016	µg/L	**22.8**	**18.5**	**256**	**437**	1 U	1 U	**10.7**	0.02 U
	--			11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			3/13/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	**µg/L**	**5.0**	**700**	**1,000**	**10,000**	**5.0**	**40**	**25**	**0.05**
	--			3/20/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
				3/31/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-19-040617			4/6/2017	µg/L	**9,810**	**1,030**	**25,000**	**10,300**	250 U[b]	250 U[b]	1,250 U[b]	--
	MW-19-062917			6/29/2017	µg/L	**9,410**	**683**	**27,200**	**9,580**	200 U[b]	**320**	1,000 U[b]	--
	--			9/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/4/2017	11.77	12/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/5/2018	11.75	3/5/2018	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
MW-20	--			7/27/2015	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			1/19/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			11/28/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			3/13/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			3/20/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			3/31/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			4/6/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			5/4/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			6/26/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			7/17/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			8/1/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--			9/5/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	10/3/2017	13.79	10/4/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	11/7/2017	13.61	11/8/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	12/4/2017	14.64	12/4/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	1/8/2018	14.04	1/8/2018	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
MW-20	--	2/5/2018	12.57	2/6/2018	--	NS-OL	NS-OL	NS-OL	NS-OL	NS-OL	NS-OL	NS-OL	NS-OL
	--	3/5/2018	10.90	3/6/2018	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
MW-21	MW-21-072715			7/27/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.02 U
	MW-21-012116			1/21/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-21-D-012116			1/21/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
	MW-21-112916			11/29/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-21-031417			3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-21-032117			3/21/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-21-033117			3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-21-040617			4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-21-062817			6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-21-062817-FD			6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-21-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-21-120717	12/4/2017	17.42	12/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-21-030718	3/5/2018	8.05	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
MW-22	--			7/27/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-22-012116			1/21/2016	µg/L	**19.8**	**3.4**	**47.2**	**37.4**	1 U	1 U	1 U	0.02 U
	--			11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			5/3/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-22-062917			6/29/2017	µg/L	**234**	10 U	**125**	30 U	10 U[b]	10 U	50 U[b]	--
	--			7/17/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			8/1/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			9/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	10/3/2017	9.94	10/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	11/7/2017	9.96	11/8/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/4/2017	9.99	12/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	1/8/2018	10.01	1/8/2018	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	2/5/2018	9.81	2/6/2018	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-22-030618	3/5/2018	8.05	3/6/2018	µg/L	1 U	1 U	**1.03**	3 U	1 U	1 U	5 U	--
MW-23	MW-23-072715			7/27/2015	µg/L	5 U[b]	5 U	**7.5**	10 U	5 U[b]	5 U	5 U	0.02 U
	MW-23D-072715			7/27/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.02 U
	MW-23-012016			1/20/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
	MW-23-120216			12/2/2016	µg/L	**450**	5 U	**14.6**	**336**	5 U[b]	**46.4**	**5.9**	--
	MW-23-031317			3/13/2017	µg/L	**709**	5 U	**23.1**	**548**	5 U[b]	**127**	25 U[b]	--
MW-23	MW-23-032017			3/20/2017	µg/L	**642**	10 U	**12.7**	**579**	10 U[b]	**108**	50 U[b]	--
	MW-23-032017-FD			3/20/2017	µg/L	**620**	10 U	**12.0**	**548**	10 U[b]	**110**	50 U[b]	--
	MW-23-033117			3/31/2017	µg/L	**685**	10 U	**16.5**	**624**	10 U[b]	**130**	50 U[b]	--
	MW-23-040617			4/6/2017	µg/L	**432**	1 U	**6.6**	**254**	1 U	**76.5**	5 U	--
	MW-23-062817			6/28/2017	µg/L	**131**	10 U	10 U	**117**	10 U[b]	**19.1**	5 U	--
	MW-23-071717			7/17/2017	µg/L	**1.2**	1 U	1 U	3 U	1 U	**1** U	5 U	--
	MW-23-080117			8/1/2017	µg/L	**132**	1 U	**6.2**	**252**	1 U	**48.1**	5 U	--
	MW-23-090717			9/7/2017	µg/L	**1,110**	**9.25**	**43.1**	**999**	5 U[b]	**141**	25 U[b]	--
	MW-23-100417	10/3/2017	11.52	10/4/2017	µg/L	**703**	10 U	**17.5**	**515**	10 U[b]	**90.1**	50 U[b]	--
	MW-23-100417-DUP	10/3/2017	11.52	10/4/2017	µg/L	**543**	**2.65**	**11.5**	**424**	1 U	**69.2**	5 U	--
	MW-23-110817	11/7/2017	11.10	11/8/2017	µg/L	**788**	10 U	**21.5**	**580**	10 U[b]	**118**	50 U[b]	--
	MW-23-120617	12/4/2017	11.13	12/6/2017	µg/L	**693**	10 U	**17.0**	**408**	10 U[b]	**99.5**	50 U[b]	--
	MW-23-010918	1/8/2018	11.02	1/9/2018	µg/L	**127**	10 U	10 U	**137**	10 U[b]	**69.6**	50 U[b]	--
	MW-23-020618	2/5/2018	9.76	2/6/2018	µg/L	**1.1**	1 U	1 U	3 U	1 U	**33.8**	5 U	--
	MW-23-030618	3/5/2018	8.27	3/6/2018	µg/L	1 U	1 U	1 U	3 U	1 U	**17.5**	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
MW-23B	MW-23B-080515			8/5/2015	µg/L	5 U[b]	5 U	**7.0**	10 U	5 U[b]	5 U	5 U	0.02 U
	MW-23B-012016			1/20/2016	µg/L	1 U	1 U	**3.9**	**7.1**	1 U	1 U	1 U	0.02 U
	MW-23B-120216			12/2/2016	µg/L	1 U	**1.4**	**3.5**	**11.0**	1 U	1 U	**1.3**	--
	MW-23B-031317			3/13/2017	µg/L	1 U	**1.11**	**2.63**	**8.86**	1 U	1 U	5 U	--
	MW-23B-032017			3/20/2017	µg/L	1 U	**1.55**	**2.98**	**11.7**	1 U	1 U	5 U	--
	MW-23B-033117			3/31/2017	µg/L	1 U	**1.24**	**2.41**	**8.86**	1 U	1 U	5 U	--
	MW-23B-040617			4/6/2017	µg/L	1 U	**1.21**	**2.41**	**9.23**	1 U	1 U	5 U	--
	MW-23B-062817			6/28/2017	µg/L	1 U	1 U	**1.73**	**6.20**	1 U	1 U	5 U	--
	MW-23B-090717			9/7/2017	µg/L	1 U	1 U	**1.65**	**5.40**	1 U	1 U	5 U	--
	MW-23B-120617	12/4/2017	11.45	12/6/2017	µg/L	1 U	**1.2**	**2.48**	**7.93**	1 U	1 U	5 U	--
	MW-23B-030618	3/5/2018	10.88	3/6/2018	µg/L	1 U	**1.2**	**4.57**	**9.14**	1 U	1 U	5 U	--
MW-24	MW-24-080515			8/5/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.02 U
	MW-24-012616			1/26/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
	MW-24-120716			12/7/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-24-062817			6/28/2017	µg/L	**28.8**	**3.96**	**1.7**	**22.2**	1 U	1 U	5 U	--
	MW-24-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-24-120617	12/4/2017	4.51	12/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-24-030818	3/5/2018	4.15	3/8/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-24B	MW-24B-080515			8/5/2015	µg/L	5 U[b]	5 U	5 U	10 U	5 U[b]	5 U	5 U	0.02 U
	MW-24B-012616			1/26/2016	µg/L	1 U	1 U	**3.3**	**6.8**	1 U	1 U	1 U	0.019 U
	MW-24B-120716			12/7/2016	µg/L	1 U	1 U	**2.9**	**1.6**	1 U	1 U	1 U	--
	MW-24B-062817			6/28/2017	µg/L	**28.9**	**3.89**	**1.77**	**20.7**	1 U	1 U	5 U	--
	MW-24B-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-24B-120617	12/4/2017	5.69	12/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-24B-030818	3/5/2018	5.03	3/8/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-25	MW-25-012716			1/27/2016	µg/L	**101**	1 U	1 U	**115**	1 U	1 U	**1.8**	0.02 U
	MW-25-012716			12/1/2016	µg/L	**675**	**30.2**	**15.3**	**619**	5 U[b]	**5.9**	**29.7**	--
	MW-25-031417			3/14/2017	µg/L	**627**	**28.6**	**10.1**	**668**	10 U[b]	10 U	50 U[b]	--
	MW-25-032017			3/20/2017	µg/L	**604**	**20.4**	20 U	**680**	20 U[b]	20 U	100 U[b]	--
	MW-25-033117			3/31/2017	µg/L	**673**	**30.1**	**12**	**736**	10 U[b]	10 U	50 U[b]	--
	MW-25-033117FD			3/31/2017	µg/L	**790**	**35.4**	**12.5**	**861**	10 U[b]	10 U	50 U[b]	--
	MW-25-040617			4/6/2017	µg/L	**558**	**24.3**	10 U	**682**	10 U[b]	10 U	50 U[b]	--
	MW-25-050317			5/3/2017	µg/L	**519**	**49.3**	**10.1**	**614**	1 U	1 U	**43.2**	--
	MW-25-062817			6/28/2017	µg/L	**431**	**34.8**	10 U	**520**	10 U[b]	10 U	50 U[b]	--
	MW-25-071717			7/17/2017	µg/L	**230**	**13.4**	10 U	**264**	10 U[b]	10 U	50 U[b]	--
	MW-25-080117			8/1/2017	µg/L	**234**	**14.4**	10 U	**277**	10 U[b]	10 U	50 U[b]	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
	MW-25-090817			9/8/2017	µg/L	**200**	**12.2**	**1.27**	**214**	1 U	1 U	**10.6**	--
	MW-25-100417	10/3/2017	8.52	10/4/2017	µg/L	**173**	**16.2**	**1.73**	**276**	1 U	**1.1**	**6.77**	--
	MW-25-110817	11/7/2017	8.35	11/8/2017	µg/L	**82.9**	**7.21**	1 U	**143**	1 U	1 U	**7.74**	--
	MW-25-120617	12/4/2017	7.10	12/6/2017	µg/L	**23.8**	**1.84**	1 U	**60.5**	1 U	1 U	5 U	--
	MW-25-010918	1/8/2018	8.80	1/9/2018	µg/L	**72**	**2.74**	1 U	**111**	1 U	1 U	5 U	--
	MW-25-020618	2/5/2018	8.15	2/6/2018	µg/L	**10.8**	1 U	1 U	**19.3**	1 U	1 U	5 U	--
	MW-25-030818	3/5/2018	7.84	3/8/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-25B	MW-25B-012716			1/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-25B-120116			12/1/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-25B-031417			3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-25B-032017			3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-25B-033117			3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-25B-040617			4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-25B-062817			6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-25B-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-25B-090817-DUP			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-25B	MW-25B-120617	12/4/2017	5.30	12/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-25B-030818	3/5/2018	4.12	3/8/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-26	MW-26-012016			1/20/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
	MW-26-120116			12/1/2016	µg/L	1 U	1 U	**2.3**	1 U	1 U	1 U	1 U	--
	MW-26-031417			3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-032017			3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-033117			3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-040617			4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-040617-FD			4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-050317			5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-062817			6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-071717			7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-080117			8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-090717			9/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-100417	10/3/2017	7.71	10/4/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-110817	11/7/2017	6.56	11/8/2017	µg/L	1 U	1 U	**1.17**	3 U	1 U	1 U	5 U	--
	MW-26-120617	12/4/2017	6.83	12/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-010918	1/8/2018	6.68	1/9/2018	µg/L	1 U	**1.79**	**6.2**	**13.8**	1 U	1 U	5 U	--
	MW-26-020618	2/5/2018	4.37	2/6/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-030618	3/5/2018	2.94	3/6/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
MW-26B	MW-26B-012016			1/20/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-26B-120116			12/1/2016	µg/L	1 U	1 U	1 U	**1.3**	1 U	1 U	1 U	--
	MW-26B-031417			3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26B-032017			3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26B-033117			3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26B-040617			4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26B-062817			6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26B-090717			9/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26B-090717-DUP			9/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26B-120617	12/4/2017	9.17	12/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26B-030618	3/5/2018	6.30	3/6/2018	µg/L	1 U	1 U	**1.03**	3 U	1 U	1 U	5 U	--
MW-27	MW-27-012716			1/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
	--			11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-27-062817			6/28/2017	µg/L	**2.69**	**4.06**	**3.88**	**35.9**	1 U	1 U	5 U	--
	MW-27-090817			9/8/2017	µg/L	**4.96**	**5.75**	**2.13**	**14.8**	1 U	1 U	5 U	--
MW-27	MW-27-120517	12/4/2017	27.46	12/5/2017	µg/L	**6.48**	**8.23**	**12.5**	**20.5**	1 U	1 U	5 U	--
	MW-27-030818	3/5/2018	25.29	3/8/2018	µg/L	**14.5**	**29.7**	**62.3**	**227**	1 U	1 U	5 U	--
MW-27B	MW-27B-051216			5/12/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.02 U
	MW-27B-120216			12/2/2016	µg/L	1 U	**5.3**	**9.1**	**45.7**	1 U	1 U	**8.9**	--
	MW-27B-062817			6/28/2017	µg/L	1 U	**4.04**	**4.04**	**32.7**	1 U	1 U	**6.09**	--
	MW-27B-090717			9/7/2017	µg/L	1 U	**3.73**	**6.35**	**30.3**	1 U	1 U	**7.54**	--
	MW-27B-120517	12/4/2017	30.70	12/5/2017	µg/L	1 U	**3.1**	**5.91**	**24.8**	1 U	1 U	**5.81**	--
	MW-27B-D-120517	12/4/2017	30.70	12/5/2017	µg/L	1 U	**3.96**	**7.24**	**31.6**	1 U	1 U	**7.09**	--
	MW-27B-030818	3/5/2018	3.20	3/8/2018	µg/L	1 U	**3.44**	**6.82**	**28.8**	1 U	1 U	5 U	--
MW-28	MW-28-012716			1/27/2016	µg/L	**542**	**430**	**3,850**	**3,370**	1 U	**4.8**	**96.3**	0.02 U
	--			11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-28-031517			3/15/2017	µg/L	**1,120**	**68.9**	**3,350**	**1,370**	50 U[b]	50 U[b]	250 U	--
	--			3/20/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			3/31/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			4/6/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-28-050317			5/3/2017	µg/L	**65.9**	**14.5**	**263**	**1,010**	1 U	**2.94**	**9.33**	--
	MW-28-062817			6/28/2017	µg/L	**199**	**55**	**108**	**546**	1 U	1 U	**10.1**	--
	MW-28-071717			7/17/2017	µg/L	**219**	**64.2**	**85.8**	**422**	1 U	1 U	**14.7**	--
	MW-28-080217			8/2/2017	µg/L	**219**	**48.7**	**52.7**	**187**	1 U	**3.46**	**11.9**	--
	MW-28-090817			9/8/2017	µg/L	**130**	**16.2**	**175**	**388**	1 U	**4.77**	**13.6**	--
	--	10/3/2017	23.80	10/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	11/7/2017	23.78	11/7/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/4/2017	23.94	12/7/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
	--	1/8/2018	24.15	1/9/2018	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-28-020618	2/5/2018	22.60	2/6/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-28-030818	3/5/2018	21.65	3/8/2018	µg/L	**10.1**	**9.92**	**5.27**	**21.2**	1 U	1 U	5 U	--
MW-29	MW-29-012116			1/21/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-29-112916			11/29/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-29-031317			3/13/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-032017			3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-033117			3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-040617			4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-050317			5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-062817			6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-071717			7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-29	MW-29-080117			8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-090717			9/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-100417	10/3/2017	10.85	10/4/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-110817	11/7/2017	10.06	11/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-120617	12/4/2017	10.39	12/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-010918	1/8/2018	10.36	1/9/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-020618	2/5/2018	7.80	2/6/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-030718	3/5/2018	4.20	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-30	MW-30-012516			1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	--			11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-30-050417			5/4/2017	µg/L	**104**	**3.98**	**341**	**161**	1 U	1 U	5 U	--
	MW-30-062917			6/29/2017	µg/L	**646**	25 U	**1,630**	**736**	25 U[b]	25 U	125 U[b]	--
	MW-30-071717			7/17/2017	µg/L	**922**	25 U	**2,050**	**1,320**	25 U[b]	25 U	125 U[b]	--
	MW-30-080217			8/2/2017	µg/L	**1,240**	**25.9**	**1,020**	**2,230**	25 U[b]	25 U	125 U[b]	--
	--			9/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	10/3/2017	14.58	10/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	11/7/2017	14.60	11/8/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/4/2017	14.47	12/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	1/8/2018	14.59	1/8/2018	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-30-020518	2/5/2018	13.11	2/5/2018	µg/L	**2.2**	1 U	**1.86**	**4.1**	1 U	1 U	5 U	--
	MW-30-030718	3/5/2018	11.43	3/7/2018	µg/L	**22.1**	1 U	**8.94**	**19.1**	1 U	**2.25**	5 U	--
MW-31	MW-31-051016			5/10/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.02 U
	MW-31-112916			11/29/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-31-050317			5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-062817			6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-071717			7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
	MW-31-080117			8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-D-080117			8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-100417	10/3/2017	22.70	10/4/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-110817	11/7/2017	20.81	11/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-120617	12/4/2017	20.05	12/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-010918	1/8/2018	22.55	1/9/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-020618	2/5/2018	18.90	2/6/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-030718	3/5/2018	18.01	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-31B	MW-31B-051116			5/11/2016	µg/L	1 U	1 U	**2.7**	1 U	1 U	1 U	1 U	0.02 U
MW-32	MW-32-051016			5/10/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.02 U
	MW-32-120616			12/6/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-32-062917			6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-32-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-32-120717	12/4/2017	10.02	12/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-32-030718	3/5/2018	6.82	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-33	MW-33-051016			5/10/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.02 U
MW-33T	MW-33T-051016			5/10/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.02 U
	MW-33T-120617	12/4/2017	27.12	12/6/2017	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-33T-030718	3/5/2018	25.23	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-34	MW-34-031517			3/15/2017	--	**978**	**33.0**	**143**	**218**	10 U[b]	**157**	50 U[b]	--
	MW-34-032017			3/20/2017	µg/L	**801**	10.0 U	**113**	**305**	10 U[b]	**149**	50 U[b]	--
	MW-34-033117			3/31/2017	µg/L	**728**	10.0 U	**81.4**	**224**	10 U[b]	**152**	50 U[b]	--
	MW-34-040617			4/6/2017	µg/L	**860**	**1.7**	**58.6**	**181**	1 U	**123**	5 U	--
	MW-34-050317			5/3/2017	µg/L	**287**	**2.62**	**27.2**	**130**	1 U	**124**	5 U	--
	MW-34-062817			6/28/2017	µg/L	**167**	**4.59**	**9.3**	**39.2**	1 U	**68.3**	5 U	--
	MW-34-071717			7/17/2017	µg/L	**137**	**5.83**	**19.8**	**69.5**	1 U	**73.8**	5 U	--
	MW-34-080117			8/1/2017	µg/L	**517**	10 U	**31.7**	**110**	10 U[b]	**98.3**	50 U[b]	--
	MW-34-090817			9/8/2017	µg/L	**1,430**	**6.01**	**98.0**	**264**	1 U	**191**	**7.33**	--
	MW-34-100417	10/3/2017	2.76	10/4/2017	µg/L	**919**	10 U	**36.8**	**157**	10 U[b]	**151**	50 U[b]	--
	MW-34-100417-DUP	10/3/2017	2.76	10/4/2017	µg/L	**846**	**1.49**	**40.8**	**186**	1 U	**148**	5 U	--
	MW-34-110817	11/7/2017	2.48	11/8/2017	µg/L	**338**	10 U	**15.3**	**140**	10 U[b]	**266**	50 U[b]	--
	MW-34-120617	12/4/2017	2.52	12/6/2017	µg/L	**169**	10 U	**29.7**	**70**	10 U[b]	**218**	50 U[b]	--
	MW-34-010918	1/8/2018	2.48	1/9/2018	µg/L	**147**	10 U	**13.1**	**80**	10 U[b]	**246**	50 U[b]	--
	MW-34-020618	2/5/2018	2.27	2/6/2018	µg/L	**249**	10 U	**19.2**	**88.3**	10 U[b]	**191**	50 U[b]	--
	MW-34-030818	3/5/2018	2.23	3/8/2018	µg/L	**696**	**7.35**	**51.6**	**180**	1 U	**229**	**5.84**	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
MW-35	MW-35-051016			5/10/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.02 U
	MW-35-120116			12/1/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-35-031417			3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-032017			3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-033117			3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-040617			4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-050317			5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-35	MW-35-062817			6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-071717			7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-080117			8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-100417	10/3/2017	10.34	10/4/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-110817	11/7/2017	8.94	11/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-120617	12/4/2017	10.41	12/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-010918	1/8/2018	10.57	1/9/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-D-010918	1/8/2018	10.57	1/9/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-020618	2/5/2018	9.00	2/6/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-030818	3/5/2018	8.33	3/8/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-36	MW-36-051116			5/11/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.02 U
	MW-36-112916			11/29/2016	µg/L	**1.3**	1 U	**6.5**	**1.1**	1 U	1 U	1 U	--
	MW-36-D-112916			11/29/2016	µg/L	1 U	1 U	**5.4**	1 U	1 U	1 U	1 U	--
	MW-36-062917			6/29/2017	µg/L	**2.11**	1 U	**2.28**	3 U	1 U	1 U	5 U	--
	MW-36-090817			9/8/2017	µg/L	**4.75**	1 U	**6.16**	**4.62**	1 U	1 U	5 U	--
	MW-36-120717	12/4/2017	20.14	12/7/2017	µg/L	**17.5**	1 U	**30.2**	**14.4**	1 U	1 U	5 U	--
	MW-36-030718	3/5/2018	18.11	3/7/2018	µg/L	**44.2**	10 U	**75.2**	**38.4**	10 U[b]	10 U	50 U[b]	--
MW-36B	MW-36B-051116			5/11/2016	µg/L	1 U	1 U	**7.2**	1 U	1 U	1 U	1 U	0.02 U
	MW-36B-112916			11/29/2016	µg/L	1 U	1 U	**1.6**	1 U	1 U	1 U	1 U	--
	MW-36B-062917			6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-36B-062917-FD			6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-36B-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-36B-120717	12/4/2017	20.90	12/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-36B-030718	3/5/2018	17.81	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-37	MW-37-113016			11/30/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-37-062817			6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	**1.44**	5 U	--
	MW-37-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	**1.5**	5 U	--
	MW-37-120617	12/4/2017	3.47	12/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	**2.93**	5 U	--
	MW-37-030818	3/5/2018	3.28	3/8/2018	µg/L	1 U	1 U	1 U	3 U	1 U	**3.71**	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
MW-38	MW-38-113016			11/30/2016	µg/L	1 U	1 U	1 U	1 U	1 U	**5.5**	1 U	--
	MW-38-031417			3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	**9.14**	5 U	--
	MW-38-032017			3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	**7.55**	5 U	--
	MW-38-033117			3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	**10.2**	5 U	--
	MW-38-040617			4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	**8.06**	5 U	--
MW-38	MW-38-050317			5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	**9.08**	5 U	--
	MW-38-062817			6/28/2017	µg/L	**9.71**	**1.17**	1 U	**6.63**	1 U	1 U	5 U	--
	MW-38-071717			7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	**8.59**	5 U	--
	MW-38-071717-FD			7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	**9.78**	5 U	--
	MW-38-080117			8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	**7.25**	5 U	--
	MW-38-090817			9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	**12.9**	5 U	--
	MW-38-100417	10/3/2017	2.23	10/4/2017	µg/L	**1.75**	1 U	1 U	3 U	1 U	**11.2**	5 U	--
	MW-38-110817	11/7/2017	1.88	11/8/2017	µg/L	**4.48**	1 U	1 U	**12.4**	1 U	**29.2**	5 U	--
	MW-38-120617	12/4/2017	2.01	12/6/2017	µg/L	**102**	1 U	1 U	**86.1**	1 U	**38**	5 U	--
	MW-38-010918	1/8/2018	1.95	1/9/2018	µg/L	**311**	1 U	**2.31**	**158**	1 U	**49.4**	5 U	--
	MW-38-020618	2/5/2018	1.58	2/6/2018	µg/L	**389**	5 U	5 U	**208**	5 U	**48.8**	25 U	--
	MW-38-030818	3/5/2018	1.25	3/8/2018	µg/L	**364**	5 U	5 U	**202**	5 U	**54.8**	25 U	--
MW-39	MW-39-120716			12/7/2016	µg/L	**6,320**	**682**	**1,290**	**3,650**	50 U[b]	**311**	**86**	--
	MW-39-031417			3/14/2017	µg/L	**6,370**	**431**	**2,200**	**3,700**	10 U[b]	**199**	**117**	--
	MW-39-032017			3/20/2017	µg/L	**7,340**	**704**	**2,990**	**4,050**	100 U[b]	**248**	500 U[b]	--
	MW-39-033117			3/31/2017	µg/L	**7,540**	**899**	**3,140**	**4,400**	50 U[b]	**272**	250 U[b]	--
	MW-39-040617			4/6/2017	µg/L	**6,180**	**754**	**3,280**	**3,860**	50 U[b]	**257**	250 U[b]	--
	MW-39-062817			6/28/2017	µg/L	**5,470**	**58**	**3,360**	**3,900**	20 U[b]	**239**	100 U[b]	--
	MW-39-071717			7/17/2017	µg/L	**4,690**	100 U	**3,760**	**4,580**	100 U[b]	**344**	500 U[b]	--
	MW-39-080117			8/1/2017	µg/L	**4,630**	100 U	**2,880**	**4,740**	100 U[b]	**348**	500 U[b]	--
	MW-39-090817			9/8/2017	µg/L	**3,380**	**10.7**	**1,040**	**2,740**	1 U	**376**	**15.6**	--
	MW-39-100417	10/3/2017	3.75	10/4/2017	µg/L	**1,560**	50 U	**365**	**1,350**	50 U[b]	**305**	250 U[b]	--
	MW-39-110817	11/7/2017	4.89	11/8/2017	µg/L	**878**	50 U	**123**	**368**	50 U[b]	**442**	250 U[b]	--
	MW-39-120617	12/4/2017	5.72	12/6/2017	µg/L	**345**	50 U	**69**	**150**	50 U[b]	**355**	250 U[b]	--
	MW-39-D-120617	12/4/2017	5.72	12/6/2017	µg/L	**286**	1 U	**31**	**131**	1 U	**353**	5 U	--
	MW-39-010918	1/8/2018	4.86	1/9/2018	µg/L	**23.8**	5 U	5 U	15 U	5 U	**370**	25 U	--
	MW-39-020618	2/5/2018	4.85	2/6/2018	µg/L	**46.9**	5 U	5 U	15 U	5 U	**263**	25 U	--
	MW-39-030818	3/5/2018	4.66	3/8/2018	µg/L	1 U	1 U	1 U	3 U	1 U	**304**	5 U	--
MW-40	MW-40-120716			12/7/2016	µg/L	**6,730**	**588**	**7,460**	**3,390**	50 U[b]	**373**	**64.8**	--
	MW-40-031417			3/14/2017	µg/L	**11,600**	**1,280**	**16,100**	**7,260**	50 U[b]	**691**	250 U[b]	--
	MW-40-032017			3/20/2017	µg/L	**12,300**	**1,330**	**19,600**	**7,500**	200 U[b]	**654**	1,000 U[b]	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
	MW-40-033117			3/31/2017	µg/L	**13,300**	**1,500**	**19,500**	**8,070**	100 U[b]	**727**	500 U[b]	--
	MW-40-040617			4/6/2017	µg/L	**10,400**	**1,180**	**16,200**	**6,570**	200 U[b]	**650**	1,000 U[b]	--
MW-40	MW-40-062817			6/28/2017	µg/L	**9,250**	**1,030**	**19,200**	**6,540**	500 U[b]	**590**	2,500 U[b]	--
	MW-40-071717			7/17/2017	µg/L	**11,400**	**1,210**	**25,300**	**7,430**	500 U[b]	**727**	2,500 U[b]	--
	MW-40-080117			8/1/2017	µg/L	**12,000**	**1,120**	**23,200**	**8,070**	500 U[b]	**631**	2,500 U[b]	--
	MW-40-090817			9/8/2017	µg/L	**14,300**	**1,250**	**28,700**	**9,250**	20 U[b]	**716**	**219**	--
	MW-40-100417	10/3/2017	1.95	10/4/2017	µg/L	**13,800**	1,000 U[b]	**28,800**	**9,530**	1,000 U[b]	1,000 U[b]	5,000 U[b]	--
	MW-40-110817	11/7/2017	2.11	11/8/2017	µg/L	**13,500**	1,000 U[b]	**23,000**	**9,290**	1,000 U[b]	1,000 U[b]	5,000 U[b]	--
	MW-40-120617	12/4/2017	3.43	12/6/2017	µg/L	**14,300**	1,000 U[b]	**22,300**	**10,100**	1,000 U[b]	1,000 U[b]	5,000 U[b]	--
	MW-40-010918	1/8/2018	2.72	1/9/2018	µg/L	**12,400**	**773**	**22,300**	**10,200**	200 U[b]	**497**	1,000 U[b]	--
	MW-40-020618	2/5/2018	2.75	2/6/2018	µg/L	**11,100**	**777**	**20,300**	**9,350**	200 U[b]	**373**	1,000 U[b]	--
	MW-40-030818	3/5/2018	2.44	3/8/2018	µg/L	**8,450**	**498**	**14,500**	**7,580**	50 U[b]	**337**	250 U[b]	--
MW-41	MW-41-120716			12/7/2016	µg/L	**212**	2 U	2 U	**155**	2 U	**6.7**	**5.6**	--
	MW-41-031417			3/14/2017	µg/L	**469**	**1.78**	1 U	**275**	1 U	**4.34**	**18.1**	--
	MW-41-032017			3/20/2017	µg/L	**424**	**2.62**	1 U	**342**	1 U	1 U	**16.9**	--
	MW-41-033117			3/31/2017	µg/L	**449**	5 U	5 U	**343**	5 U[b]	5 U	25 U[b]	--
	MW-41-040617			4/6/2017	µg/L	**470**	**2.06**	1 U	**258**	1 U	**3.84**	**10.6**	--
	MW-41-062817			6/28/2017	µg/L	**292**	**8.83**	**2.09**	**271**	1 U	**3.36**	**13.3**	--
	MW-41-071717			7/17/2017	µg/L	**487**	**15.8**	**3.09**	**366**	1 U	**3.62**	**27.9**	--
	MW-41-080117			8/1/2017	µg/L	**371**	10 U	10 U	**260**	10 U[b]	10 U	50 U[b]	--
	MW-41-090817			9/8/2017	µg/L	**189**	**1.51**	1 U	**90**	1 U	**3.74**	5 U	--
	MW-41-100417	10/3/2017	4.37	10/4/2017	µg/L	**93.5**	1 U	1 U	**59.9**	1 U	**1.84**	5 U	--
	MW-41-110817	11/7/2017	4.39	11/8/2017	µg/L	**99.6**	1 U	1 U	**56.6**	1 U	**2.46**	**5.68**	--
	MW-41-120617	12/4/2017	5.55	12/6/2017	µg/L	**27.6**	1 U	1 U	**11.1**	1 U	**1.62**	5 U	--
	MW-41-010918	1/8/2018	4.40	1/9/2018	µg/L	**2.06**	1 U	1 U	3 U	1 U	**1.43**	5 U	--
	MW-41-020618	2/5/2018	3.82	2/6/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-41-030818	3/5/2018	3.94	3/8/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-42	MW-42-120716			12/7/2016	µg/L	**3.8**	1 U	1 U	**2.7**	1 U	1 U	1 U	--
	MW-42-031417			3/14/2017	µg/L	**19.3**	1 U	1 U	3 U	1 U	**1.12**	5 U	--
	MW-42-032017			3/20/2017	µg/L	**59.6**	1 U	1 U	**16.9**	1 U	**1.24**	5 U	--
	MW-42-033117			3/31/2017	µg/L	**135**	1 U	1 U	**73.8**	1 U	1 U	**5.19**	--
	MW-42-040617			4/6/2017	µg/L	**93.5**	1 U	1 U	**53.3**	1 U	**1.18**	5 U	--
	MW-42-062817			6/28/2017	µg/L	**15.1**	1 U	1 U	**11.7**	1 U	**1.25**	5 U	--
	MW-42-090817			9/8/2017	µg/L	**143**	1 U	1 U	**100**	1 U	**1.51**	**5.52**	--
	MW-42-120617	12/4/2017	5.26	12/6/2017	µg/L	**9.82**	1 U	1 U	**45**	1 U	**1.24**	5 U	--
MW-42	MW-42-030818	3/5/2018	4.86	3/8/2018	µg/L	1.02	1 U	1 U	3 U	1 U	1 U	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
MW-43	MW-43-110817	11/7/2017	4.45	11/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-43-120617	12/4/2017	4.50	12/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-43-010918	1/8/2018	4.35	1/9/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-43-020618	2/5/2018	3.70	2/6/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-43-030818	3/5/2018	3.90	3/8/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-43B	MW-43B-120617	12/4/2017	4.08	12/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-43B-030818	3/5/2018	1.21	3/8/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-44	--			3/13/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-44-062917			6/29/2017	µg/L	**1.06**	1 U	**7.12**	**3.11**	1 U	1 U	5 U	--
	--			9/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/4/2017	9.40	12/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-44-030818	3/5/2018	4.00	3/8/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-44D-030818	3/5/2018	4.00	3/8/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-44B	MW-44B-031317			3/13/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-44B-062817			6/28/2017	µg/L	1 U	1 U	**2.39**	3 U	1 U	1 U	5 U	--
	MW-44B-090717			9/7/2017	µg/L	1 U	1 U	**3.07**	3 U	1 U	1 U	5 U	--
	MW-44B-120517	12/4/2017	14.32	12/5/2017	µg/L	1 U	1 U	**2.27**	3 U	1 U	1 U	5 U	--
	MW-44B-030818	3/5/2018	12.10	3/8/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-45	--			3/13/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			3/20/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			3/31/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			4/6/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--			5/3/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-45-062917			6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-45-071717			7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-45-080217			8/2/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	--			9/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	10/3/2017	14.25	10/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	11/7/2017	14.24	11/8/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/4/2017	14.22	12/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	1/8/2018	14.25	1/8/2018	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	2/5/2018	13.95	2/6/2018	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-45-030618	3/5/2018	12.31	3/6/2018	µg/L	**24.3**	**6.11**	**28.9**	**41.2**	1 U	1 U	5 U	--
MW-45B	MW-45B-031317			3/13/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-45B	MW-45B-032017			3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-45B-033117			3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-45B-040617			4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-45B-062817			6/28/2017	µg/L	1 U	1 U	**1.73**	3 U	1 U	1 U	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Gauging Date	Depth to Water	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
				RBSL[a]:	µg/L	5.0	700	1,000	10,000	5.0	40	25	0.05
	--			9/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-45B-120717	12/4/2017	15.93	12/7/2017	µg/L	1 U	1 U	**3.26**	3 U	1 U	1 U	5 U	--
	MW-45B-030618	3/5/2018	14.65	3/6/2018	µg/L	1 U	1 U	**2.75**	3 U	1 U	1 U	5 U	--
MW-46	MW-46-120617	12/4/2017	9.48	12/6/2017	µg/L	**4.97**	1 U	1 U	**7.74**	1 U	**85.5**	5 U	--
	MW-46-030618	3/5/2018	6.33	3/6/2018	µg/L	**173**	**1.76**	**16.5**	**29.5**	1 U	**129**	**7.21**	--
MW-47	MW-47-120617	12/4/2017	17.75	12/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-47-030718	3/5/2018	14.74	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-48B	MW-48B-120617	12/4/2017	18.22	12/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	**2.92**	5 U	--
	MW-48B-030718	3/5/2018	16.70	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	**2.97**	5 U	--
MW-49	MW-49-120617	12/4/2017	20.29	12/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-49-030818	3/5/2018	17.68	3/8/2018	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-50B	MW-50B-120617	12/4/2017	21.37	12/6/2017	µg/L	**1.37**	1 U	1 U	3 U	1 U	**35.5**	5 U	--
	MW-50B-030718	3/5/2018	19.10	3/7/2018	µg/L	1 U	1 U	1 U	3 U	1 U	**26.7**	5 U	--

Notes:

[a] RBSL = Risk-based screening levels identified in South Carolina Underground Storage Tank Management Division *Programmatic Quality Assurance Program Plan* , *Revision 3.1* , Table D1 "RBSLs for Groundwater," February 2016.

[b] The analyte was analyzed for, but was not detected above the laboratory reporting/quantitation limit. However, the laboratory reporting/quantitation limit is above the screening criteria. The actual absence or presence of this analyte between the screening criteria and the laboratory reporting/quantitation limit cannot be determined

*Unable to collect depth to water due to fluctuation from the sparging system operating.

Samples analyzed by EPA Methods SW 8260B and 8011.

Bold indicates the analyte was detected above the method detection limit.

Gray shading indicates the analyte exceeded RBSLs.

U = analyte was not detected above the reported sample quantitation limit

µg/L = microgram(s) per liter

1,2-DCA = 1,2-dichloroethane

EDB = 1,2-dibromoethane

ID = identification

MTBE = methyl tertiary butyl ether

NS-FP = sample not collected due to the presence of free product in the well

NS-HS = sample not collected due to health and safety concerns

NS-IW = sample not collected due to insufficient volume of water in well

NS-OL = sample not collected because it was overlooked in the field

NS-SL = sample not analyzed due to sample being lost in transit to laboratory

Table 6. Cumulative Product Shipped from the Site

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Date	Destination	Total Product (gal)
12/9/2014	PPL Greensboro	4,289
12/9/2014	PPL Greensboro	3,100
12/12/2014	PPL Greensboro	1,189
12/30/2014	Crystal Clean (FCC)	5,057
12/31/2014	Crystal Clean (FCC)	5,333
1/4/2015	Crystal Clean (FCC)	5,000
1/4/2015	Crystal Clean (FCC)	2,872
1/5/2015	Crystal Clean (FCC)	5,013
1/6/2015	Crystal Clean (FCC)	4,800
1/7/2015	Allied Energies	6,532
1/7/2015	Allied Energies	6,425
1/7/2015	Allied Energies	8,200
1/9/2015	Allied Energies	6,482
1/9/2015	Allied Energies	7,825
1/12/2015	Allied Energies	6,540
1/12/2015	Allied Energies	6,467
1/13/2015	Allied Energies	6,732
1/13/2015	Allied Energies	6,595
1/15/2015	Allied Energies	6,500
1/22/2015	Allied Energies	5,791
1/23/2015	Allied Energies	5,450
1/27/2015	Allied Energies	5,791
1/27/2015	Allied Energies	5,557
1/27/2015	Allied Energies	6,043
1/28/2015	Allied Energies	4,411
2/5/2015	Allied Energies	5,513
2/11/2015	Allied Energies	5,732
2/11/2015	Allied Energies	5,606
2/25/2015	Allied Energies	5,583
3/4/2015	Allied Energies	4,000
3/16/2015	Allied Energies	5,200
6/3/2015	Allied Energies	6,500
6/3/2015	Allied Energies	4,214
8/10/2015	Allied Energies	6,000
11/2/2015	Allied Energies	5,800
11/13/2015	Crystal Clean (FCC)	2,900
12/1/2015	Allied Energies	6,690
12/1/2015	Allied Energies	6,700
12/7/2015	Crystal Clean (FCC)	500
9/28/2016	Shamrock	495
10/17/2016	Shamrock	110
10/24/2016	Shamrock	85
10/31/2016	Shamrock	70
11/10/2016	Shamrock	168
1/18/2017	A&D Archdale, NC	3,758
3/3/2017	A&D Archdale, NC	460
3/8/2017	A&D Archdale, NC	500
3/15/2017	A&D Archdale, NC	4,189
4/3/2017	A&D Archdale, NC	458
4/19/2017	A&D Archdale, NC	927
4/19/2017	A&D Archdale, NC	747
5/22/2017	A&D Archdale, NC	50
6/7/2017	A&D Archdale, NC	658
6/29/2017	A&D Archdale, NC	695
8/25/2017	A&D Archdale, NC	566
9/8/2017	A&D Archdale, NC	99
1/8/2018	A&D Archdale, NC	6
3/31/2018	Remaining in frac tanks	5.7
	Total (gallons)	**222,980**
	Total (barrels)	**5,309**

Notes:

Gasoline and water are field-segregated using two 1,550-gallon poly tanks prior to offsite disposal.

A&D = A&D Environmental

gal = gallons

NC = North Carolina

PPL = Plantation Pipe Line Company

Table 7. Product Skimmer Recovery Results

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Well Identifier	Week 1 Volume Recovered (gal)	Week 2 Volume Recovered (gal)	Week 3 Volume Recovered (gal)	Week 4 Volume Recovered (gal)	Total Recovered to Date (gal)	Note
Date	**2/20/2018**	**2/26/2018**	**3/9/2018**	**3/15/2018**		
Product Skimmers						
MW-08	-	-	-	-	**-**	No measurable product recovered
MW-15	-	-	0.023	0.004	**0.027**	
MW-20	0.004	0.017	0.016	-	**0.037**	
RS-01	NA	NA	0.031	0.008	**0.039**	Difficulty inserting product skimmer; replaced with smaller size
RS-02	-	-	0.001	-	**0.001**	
RS-05	0.844	0.813	1.094	1.125	**3.875**	
RS-10	0.002	-	-	-	**0.002**	
RS-14	0.016	-	-	-	**0.016**	
RS-17	-	-	0.001	-	**0.001**	
RW-02	-	0.090	0.047	-	**0.137**	
RW-03	-	-	0.008	0.008	**0.016**	
RW-04	-	0.008	0.016	-	**0.023**	
RW-05	-	0.016	0.016	0.656	**0.688**	
RW-07	0.002	-	0.008	-	**0.010**	
RW-08	-	-	-	-	**-**	No measurable product recovered
RW-15	0.078	-	-	0.117	**0.195**	
Petroleum-Absorbent Socks						
MW-11	0.200	0.224	-	0.256	**0.680**	
RS-08	-	-	-	-	**-**	Skimmer incompatible with well; cage to hang sock ordered
RT-2K	-	-	-	-	**-**	Skimmer incompatible with well; cage to hang sock ordered
RT-1A	-	-	-	-	**-**	Skimmer incompatible with well; cage to hang sock ordered
RT-1B	-	-	-	-	**-**	Skimmer incompatible with well; cage to hang sock ordered
RT-1C	-	-	-	-	**-**	Skimmer incompatible with well; cage to hang sock ordered
Total:	**1.145**	**1.167**	**1.259**	**2.174**	**5.746**	

Notes:

- = no product recovered

gal = gallons

ID = identification

NA = no applicable

Table 8. Stream Gauge Construction Information

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Installation Method	Date Installed	Stream Bottom Elevation (ft amsl)	Elevation of Zero Mark (ft amsl)
SW-01	By hand	3/29/2016	812.39	812.82
SW-02	By hand	3/29/2016	808.36	808.65
SW-03	By hand	3/29/2016	815.05	815.09
SW-05	By hand	3/29/2016	838.69	838.75
SW-08	By hand	3/29/2016	802.14	802.04
SW-10	By hand	3/29/2016	776.62	778.09
SW-14	By hand	7/18/2017	837.13	NS

Notes:

amsl = above mean sea level relative to North American Vertical Datum of 1988 (NAVD88). Benchmark is 34.8289659 degrees north, 82.3710354 degrees west (NAD83, 2011), elevation 929.1 ft NAVD88.

ft = feet

Table 9. Well Construction Information

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Installation Method	Permit #	Date Installed	Date Abandoned	Purpose	Ground Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Measured Depth to Bottom (ft BTOC)	Bore Hole Diameter (in)	Well Dia (in)	Well Depth (ft bgs)	Bottom of Well (ft amsl)	Top of Screen or Open Borehole Interval (ft BTOC)	Bottom of Screen or Open Borehole Interval (ft BTOC)	Top of Screen or Open Borehole Interval (ft bgs)	Bottom of Screen or Open Borehole Interval (ft bgs)	Top of Screen or Open Borehole Interval (ft amsl)	Bottom of Screen or Open Borehole Interval (ft amsl)	Length of Screen or Open Borehole Interval (ft)
Monitoring Wells																			
MW-01	CME 550 HSA	MW-10136	6/26/2015	Still in use	Monitoring Well/Gauging	850.25	853.07	15.61	8	2	13.00	837.2	5.82	15.82	3.0	13.0	847.2	837.2	10.00
MW-01B	Schramm Air Rig	MW-10136	6/25/2015	Still in use	Monitoring Well/Gauging	850.45	852.99	45.26	10	6	38.50	812.0	21.03	41.03	18.5	38.5	832.0	812.0	20.00
MW-02	CME 750 HSA	MW-10136	6/25/2015	Still in use	Monitoring Well/Gauging	841.24	841.04	19.78	8	2	20.00	821.2	4.80	19.80	5.0	20.0	836.2	821.2	15.00
MW-02B	Schramm Air Rig/rehabbed (10/5/2017) with a Mobile Drill B57	MW-10136	6/24/2015	Still in use	Monitoring Well/Gauging	841.18	841.19	81.55	10	2	81.70	759.5	70.00	81.70	70.0	81.7	771.2	759.5	13.00
MW-03	CME 550 HSA	MW-10136	6/23/2015	Still in use	Monitoring Well/Gauging	838.38	838.36	22.19	8	2	20.00	818.4	4.98	19.98	5.0	20.0	833.4	818.4	15.00
MW-04	CME 550 HSA	MW-10136	6/23/2015	Still in use	Monitoring Well/Gauging	844.51	844.42	20.65	8	2	20.00	824.5	4.91	19.91	5.0	20.0	839.5	824.5	15.00
MW-05	CME 550 HSA	MW-10136	6/24/2015	Still in use	Monitoring Well/Gauging	851.15	851.11	19.89	8	2	20.00	831.1	4.96	19.96	5.0	20.0	846.1	831.1	15.00
MW-06	CME 550 HSA	MW-10136	6/24/2015	Still in use	Monitoring Well/Gauging	852.98	852.92	19.20	8	2	19.60	833.4	4.54	19.54	5.0	19.6	848.0	833.4	15.00
MW-06B	Mobile Drill B57	MW-11117	10/17/2017	Still in use	Monitoring Well/Gauging	852.42	852.57	85.65	13.75	4	85.20	767.2	65.50	85.50	65.5	85.5	786.9	766.9	20.00
MW-07	CME 550 HSA	MW-10136	6/25/2015	Still in use	Monitoring Well/Gauging	853.02	853.02	13.60	8	2	13.50	839.5	3.50	13.50	3.5	13.5	849.5	839.5	10.00
MW-08	CME 550 HSA	MW-10136	6/25/2015	Still in use	Monitoring Well/Gauging	844.75	844.72	19.80	8	2	19.70	825.1	4.67	19.67	4.7	19.7	840.1	825.1	15.00
MW-09	CME 550 HSA	MW-10136	6/25/2015	Still in use	Monitoring Well/Gauging	843.72	843.63	20.21	8	2	19.50	824.2	4.41	19.41	4.5	19.5	839.2	824.2	15.00
MW-09B	Mobile Drill B57	MW-11117	10/17/2017	Still in use	Monitoring Well/Gauging	843.71	843.92	151.00	13.75	4	151.00	692.7	132.20	151.00	132.2	151.0	711.5	692.7	20.00
MW-10	CME 550 HSA	MW-10136	6/25/2015	Still in use	Monitoring Well/Gauging	842.33	845.41	23.54	8	2	20.00	822.3	8.08	23.08	5.0	20.0	837.3	822.3	15.00
MW-11	CME 550 HSA	MW-10136	7/1/2015	Still in use	Monitoring Well/Gauging	852.36	855.63	32.50	8	2	25.20	827.2	13.27	28.27	14.2	25.0	838.2	827.4	15.00
MW-12	CME 550 HSA	MW-10136	6/25/2015	Still in use	Monitoring Well/Gauging	832.20	834.53	21.69	8	2	19.30	812.9	6.63	21.63	4.3	19.3	827.9	812.9	15.00
MW-12B	Geoprobe 3230 DT HSA	MW-10460	12/22/2015	Still in use	Monitoring Well/Gauging	832.26	834.98	45.81	10	6	43.00	789.3	35.72	45.72	33.0	43.0	799.3	789.3	10.00
MW-13	CME 550 HSA	MW-10136	6/26/2015	Still in use	Monitoring Well/Gauging	845.93	848.84	22.18	8	2	19.00	826.9	6.92	21.92	4.0	19.0	841.9	826.9	15.00
MW-13B	Geoprobe 3230 DT HSA	MW-10461	12/21/2015	Still in use	Monitoring Well/Gauging	847.19	849.82	55.36	10	6	58.00	789.2	50.64	60.64	48.0	58.0	799.2	789.2	10.00
MW-14	CME 550 HSA	MW-10136	6/26/2015	Still in use	Monitoring Well/Gauging	836.47	838.70	22.20	8	2	19.30	817.2	6.53	21.53	4.3	19.3	832.2	817.2	15.00
MW-14B	Mobile ST Schramm	MW-10578	5/3/2016	Still in use	Monitoring Well/Gauging	837.12	840.20	76.97	10	6	76.90	760.2	66.07	76.07	66.0	76.0	771.1	761.1	10.00
MW-15	CME 550 HSA	MW-10136	6/29/2015	Still in use	Monitoring Well/Gauging	828.68	831.03	21.22	8	2	19.00	809.7	6.35	21.35	4.0	19.0	824.7	809.7	15.00
MW-15B	CME 550 HSA	MW-10136	7/28/2015	Still in use	Monitoring Well/Gauging	828.66	831.29	74.41	10	6	77.85	750.8	70.48	80.48	67.9	77.9	760.8	750.8	10.00
MW-16	CME 750 HSA	MW-10136	6/26/2015	Still in use	Monitoring Well/Gauging	847.63	847.67	20.37	8	2	20.00	827.6	5.03	20.03	5.0	20.0	842.6	827.6	15.00
MW-17	CME 750 HSA	MW-10136	6/29/2015	Still in use	Monitoring Well/Gauging	855.32	855.35	15.30	8	2	11.00	844.3	6.03	11.03	6.0	11.0	849.3	844.3	5.00
MW-17B	Geoprobe 3230 DT HSA	MW-10462	1/7/2016	Still in use	Monitoring Well/Gauging	855.37	855.37	27.50	10	6	27.00	828.4	17.00	27.00	17.0	27.0	838.4	828.4	10.00
MW-18	CME 550 HSA	MW-10136	6/29/2015	Still in use	Monitoring Well/Gauging	846.82	846.89	19.75	8	2	20.00	826.8	5.06	20.06	5.0	20.0	841.8	826.8	15.00
MW-19	CME 750 HSA	MW-10136	6/29/2015	Still in use	Monitoring Well/Gauging	851.23	853.94	12.13	8	2	9.50	841.7	7.20	12.20	4.5	9.5	846.7	841.7	5.00
MW-20	CME 750 HSA	MW-10136	6/30/2015	Still in use	Monitoring Well/Gauging	853.07	852.89	19.45	8	2	19.00	834.1	3.81	18.81	4.0	19.0	849.1	834.1	15.00
MW-21	CME 750 HSA	MW-10136	6/30/2015	Still in use	Monitoring Well/Gauging	855.68	855.77	20.70	8	2	20.00	835.7	5.09	20.09	5.0	20.0	850.7	835.7	15.00
MW-22	CME 750 HSA	MW-10136	7/1/2015	Still in use	Monitoring Well/Gauging	854.62	854.60	10.30	8	2	11.00	843.6	5.98	10.98	6.0	11.0	848.6	843.6	5.00
MW-23	CME 750 HSA	MW-10136	7/1/2015	Still in use	Monitoring Well/Gauging	846.66	849.57	23.50	8	2	20.00	826.7	7.91	22.91	5.0	20.0	841.7	826.7	15.00
MW-23B	CME 550 HSA	MW-10136	7/22/2015	Still in use	Monitoring Well/Gauging	846.81	849.69	53.48	10	6	50.50	796.3	30.88	53.38	28.0	50.5	818.8	796.3	22.50
MW-24	CME 550 HSA	MW-10136	7/15/2015	Still in use	Monitoring Well/Gauging	815.72	817.92	15.30	8	2	13.00	802.7	10.20	15.20	8.0	13.0	807.7	802.7	5.00
MW-24B	CME 550 HSA	MW-10136	7/20/2015	Still in use	Monitoring Well/Gauging	815.83	818.72	45.10	10	6	39.50	776.3	22.39	42.39	19.5	39.5	796.3	776.3	20.00
MW-25	Geoprobe 3230 DT HSA	MW-10463	1/5/2016	Still in use	Monitoring Well/Gauging	823.46	826.18	18.07	8	2	15.00	808.5	8.04	18.04	5.0	15.0	818.5	808.5	10.00
MW-25B	Geoprobe 3230 DT HSA	MW-10464	1/5/2016	Still in use	Monitoring Well/Gauging	822.59	823.81	59.00	10	6	58.00	764.6	49.22	59.22	48.0	58.0	774.6	764.6	10.00
MW-26	Geoprobe 3230 DT HSA	MW-10465	1/4/2016	Still in use	Monitoring Well/Gauging	844.76	847.56	17.15	8	2	15.25	829.5	7.27	17.27	5.0	15.0	839.8	829.8	10.00
MW-26B	Geoprobe 3230 DT HSA	MW-10466	1/4/2016	Still in use	Monitoring Well/Gauging	844.81	847.81	43.84	10	6	38.00	806.8	29.00	41.00	26.0	38.0	818.8	806.8	12.00
MW-27	Geoprobe 3230 DT HSA	MW-10467	1/5/2016	Still in use	Monitoring Well/Gauging	854.22	854.11	29.51	8	2	30.25	824.0	15.11	30.11	15.0	30.0	839.2	824.2	15.00
MW-27B	CME 550 HSA / Schramm	MW-10578	4/26/2016	Still in use	Monitoring Well/Gauging	854.27	857.14	41.45	10	6	46.00	808.3	31.45	41.45	36.0	46.0	818.3	808.3	10.00
MW-28	Geoprobe 3230 DT HSA	MW-10468	1/5/2016	Still in use	Monitoring Well/Gauging	841.49	844.31	25.93	8	2	25.25	816.2	13.50	23.50	15.0	25.0	826.5	816.5	10.00
MW-29	Geoprobe 3230 DT HSA	MW-10469	1/4/2016	Still in use	Monitoring Well/Gauging	852.07	852.20	15.10	8	2	15.25	836.8	5.00	15.00	5.0	15.0	847.1	837.1	10.00
MW-30	Geoprobe 3230 DT HSA	MW-10470	1/6/2016	Still in use	Monitoring Well/Gauging	841.21	841.28	14.69	8	2	15.25	826.0	5.00	15.00	5.0	15.0	836.2	826.2	10.00
MW-31	CME 550 HSA	MW-10578	4/19/2016	Still in use	Monitoring Well/Gauging	842.26	845.04	28.20	8	2	25.00	817.3	13.20	28.20	10.0	25.0	832.3	817.3	15.00
MW-31B	CME 550 HSA / Schramm	MW-10578	4/22/2016	Still in use	Monitoring Well/Gauging	842.01	844.94	79.25	10	6	76.00	766.0	68.25	79.25	65.0	76.0	777.0	766.0	11.00

Table 9. Well Construction Information

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Installation Method	Permit #	Date Installed	Date Abandoned	Purpose	Ground Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Measured Depth to Bottom (ft BTOC)	Bore Hole Diameter (in)	Well Dia (in)	Well Depth (ft bgs)	Bottom of Well (ft amsl)	Top of Screen or Open Borehole Interval (ft BTOC)	Bottom of Screen or Open Borehole Interval (ft BTOC)	Top of Screen or Open Borehole Interval (ft bgs)	Bottom of Screen or Open Borehole Interval (ft bgs)	Top of Screen or Open Borehole Interval (ft amsl)	Bottom of Screen or Open Borehole Interval (ft amsl)	Length of Screen or Open Borehole Interval (ft)
MW-32	CME 550 HSA	MW-10578	4/19/2016	Still in use	Monitoring Well/Gauging	839.81	842.93	29.09	8	2	26.00	813.8	13.09	28.09	10.0	25.0	829.8	814.8	15.00
MW-33	CME 550 HSA	MW-10578	4/15/2016	Still in use	Monitoring Well/Gauging	846.20	849.20	28.30	8	2	27.00	819.2	11.30	26.30	10.0	25.0	836.2	821.2	15.00
MW-33T	CME 550 HSA/Air Rotary	MW-10578	4/14/2016	Still in use	Monitoring Well/Gauging	846.15	849.11	100.35	8	2	96.50	749.7	87.85	97.85	84.0	94.0	762.2	752.2	10.00
MW-34	Hand Auger	MW-10994	3/16/2017	Still in use	Monitoring Well/Gauging	813.99	816.35	7.86	4	2	5.00	809.0	5.36	7.86	2.5	5.0	811.5	809.0	2.50
MW-35	CME 550 HSA	MW-10578	4/20/2016	Still in use	Monitoring Well/Gauging	826.22	829.40	28.42	8	2	26.00	800.2	12.42	27.42	10.0	25.0	816.2	801.2	15.00
MW-36	CME 550 HSA	MW-10578	4/22/2016	Still in use	Monitoring Well/Gauging	858.66	858.47	23.65	8	2	24.50	834.2	8.65	23.65	9.5	24.5	849.2	834.2	15.00
MW-36B	CME 550 HSA / Schramm	MW-10578	4/28/2016	Still in use	Monitoring Well/Gauging	858.49	858.15	47.54	10	6	54.90	803.6	36.64	46.64	44.0	54.0	814.5	804.5	10.00
MW-37	Geoprobe 8040 HSA	MW-10759	8/9/2016	Still in use	Monitoring Well/Gauging	810.93	813.92	18.11	6.25	2	16.00	794.9	7.11	17.11	5.0	15.0	805.9	795.9	10.00
MW-38	Geoprobe 8040 HSA	MW-10759	8/9/2016	Still in use	Monitoring Well/Gauging	810.49	813.28	11.61	6.25	2	9.10	801.4	6.41	11.41	3.9	8.9	806.6	801.6	5.00
MW-39	Geoprobe 8040 HSA	MW-10759	11/29/2016	Still in use	Monitoring Well/Gauging	816.92	819.90	13.01	6.25	2	11.00	805.9	7.01	12.01	5.0	10.0	811.9	806.9	5.00
MW-40	Geoprobe 8040 HSA	MW-10759	11/30/2016	Still in use	Monitoring Well/Gauging	814.75	817.79	13.18	6.25	2	11.00	803.8	7.18	12.18	5.0	10.0	809.8	804.8	5.00
MW-41	Geoprobe 8040 HSA	MW-10759	11/28/2016	Still in use	Monitoring Well/Gauging	816.67	819.68	13.20	6.25	2	11.00	805.7	7.20	12.20	5.0	10.0	811.7	806.7	5.00
MW-42	Geoprobe 8040 HSA	MW-10759	11/28/2016	Still in use	Monitoring Well/Gauging	817.31	820.33	13.40	6.25	2	11.00	806.3	7.40	12.40	5.0	10.0	812.3	807.3	5.00
MW-43	Mobile Drill B57	MW-10964	10/20/2017	Still in use	Monitoring Well/Gauging	815.92	818.12	10.30	8.5	2	7.50	808.42	5.30	10.30	2.5	7.5	813.42	808.42	5.00
MW-43B	Mobile Drill B57	MW-10964	10/20/2017	Still in use	Monitoring Well/Gauging	816.08	818.80	54.40	13.75	4	51.00	765.08	34.40	54.40	31.0	51.0	785.08	765.08	20.00
MW-44	Hollow Stem Auger	MW-10964	1/23/2017	Still in use	Monitoring Well/Gauging	853.82	853.67	9.82	6.25	2	10.00	843.8	4.82	9.82	5.0	10.0	848.8	843.8	5.00
MW-44B	Hollow Stem Auger/Wire Line/Air Rotary	MW-10964	1/23/2017	Still in use	Monitoring Well/Gauging	853.66	853.38	34.50	10.25	4	37.10	816.6	13.50	34.50	16.1	37.1	837.6	816.6	21.00
MW-45	Hollow Stem Auger	MW-10964	1/26/2017	Still in use	Monitoring Well/Gauging	852.39	852.47	14.42	6.25	2	14.00	838.4	4.42	14.42	4.0	14.0	848.4	838.4	10.00
MW-45B	Hollow Stem Auger/Wire Line/Air Rotary	MW-10964	1/25/2017	Still in use	Monitoring Well/Gauging	852.69	852.85	40.30	10.25	4	40.30	812.4	19.00	40.30	19.0	40.3	833.7	812.4	21.30
MW-46	Geoprobe 8040 DT	MW-11117	9/13/2017	Still in use	Monitoring Well/Gauging	842.43	845.47	17.05	8.5	2	14.00	828.4	12.05	17.05	9.0	14.0	833.4	828.4	5.00
MW-47	Geoprobe 8040 DT	MW-11117	9/14/2017	Still in use	Monitoring Well/Gauging	839.89	842.98	22.79	8.5	2	20.00	819.9	12.79	22.79	10.0	20.0	829.9	819.9	10.00
MW-48B	Mobile Drill B57	MW-11117	10/18/2017	Still in use	Monitoring Well/Gauging	829.53	832.34	94.50	13.75	4	91.00	738.5	74.50	94.50	71.0	91.0	758.5	738.5	20.00
MW-49	Geoprobe 8040 DT	MW-11117	9/14/2017	Still in use	Monitoring Well/Gauging	843.65	846.78	23.30	8.5	2	21.00	822.7	8.30	23.30	6.0	21.0	837.7	822.7	15.00
MW-50B	Mobile Drill B57	MW-11247	10/17/2017	Still in use	Monitoring Well/Gauging	847.11	850.34	109.60	13.75	4	106.00	741.1	89.60	109.60	96.0	106.0	751.1	741.1	20.00
Recovery Wells																			
RW-01	HSA	MW-09978	1/28/2015	Still in use	Gauging/LNAPL Recovery	849.49	851.92	20.80	6.25	4	17	832.5	4.44	19.44	2.0	17.0	847.5	832.5	15.00
RW-02	HSA	MW-09978	1/29/2015	Still in use	Gauging/LNAPL Recovery	850.22	852.69	25.72	6.25	4	23	827.2	15.47	25.47	13.0	23.0	837.2	827.2	10.00
RW-03	HSA	MW-09978	1/29/2015	Still in use	Gauging/LNAPL Recovery	850.03	852.34	33.39	6.25	4	31.2	818.8	18.51	33.51	16.2	31.2	833.8	818.8	15.00
RW-04	HSA	MW-09978	1/29/2015	Still in use	Gauging/LNAPL Recovery	852.15	853.93	35.04	6.25	4	33	819.2	14.78	34.78	13.0	33.0	839.2	819.2	20.00
RW-05	HSA	MW-09978	1/30/2015	Still in use	Gauging/LNAPL Recovery	850.99	853.53	38.25	6.25	4	34.5	816.5	22.04	37.04	19.5	34.5	831.5	816.5	15.00
RW-06	HSA	MW-09978	1/30/2015	Still in use	Gauging/LNAPL Recovery	844.21	846.21	38.50	6.25	4	38.5	805.7	20.49	40.49	18.5	38.5	825.7	805.7	20.00
RW-07	HSA	MW-09978	2/2/2015	Still in use	Gauging/LNAPL Recovery	841.01	843.19	38.00	6.25	4	38	803.0	15.18	40.18	13.0	38.0	828.0	803.0	25.00
RW-08	HSA	MW-09978	2/2/2015	Still in use	Gauging/LNAPL Recovery	833.46	835.48	33.50	6.25	4	33.5	800.0	10.52	35.52	8.5	33.5	825.0	800.0	25.00
RW-09	HSA	MW-09978	2/3/2015	Still in use	Gauging/LNAPL Recovery	831.13	835.12	42.13	6.25	4	41.5	789.6	15.49	45.49	11.5	41.5	819.6	789.6	30.00
RW-10	HSA	MW-10006	2/4/2015	Still in use	Gauging/LNAPL Recovery	846.76	848.53	66.51	6.25	4	68.5	778.3	5.27	70.27	3.5	68.5	843.3	778.3	65.00
RW-11	HSA	MW-10006	2/4/2015	Still in use	Gauging/LNAPL Recovery	851.03	852.97	21.40	6.25	4	19.5	831.5	6.44	21.44	4.5	19.5	846.5	831.5	15.00
RW-12	HSA	MW-10006	2/5/2015	Still in use	Gauging/LNAPL Recovery	851.64	854.49	16.90	6.25	4	14	837.6	6.90	16.90	4.0	14.0	847.6	837.6	10.00
RW-13	HSA	MW-10006	2/5/2015	Still in use	Gauging/LNAPL Recovery	847.57	847.97	45.53	6.25	4	50	797.6	0.53	45.53	5.0	50.0	842.6	797.6	45.00
RW-14	HSA	MW-10006	2/6/2015	Still in use	Gauging/LNAPL Recovery	826.25	827.54	55.00	6.25	4	55	771.2	5.00	55.00	5.0	55.0	821.2	771.2	50.00
RW-15	HSA	MW-10006	2/10/2015	Still in use	Gauging/LNAPL Recovery	849.48	851.64	36.50	6.25	4	36.5	813.0	1.50	36.50	1.5	36.5	848.0	813.0	35.00
Recovery Sumps																			
RS-01	Trackhoe	MW-09978	12/29/2014	Still in use	Gauging/LNAPL Recovery	847.95	849.13	23.60	NA	4	22.42	825.5	3.18	23.60	2.0	22.4	845.9	825.5	20.42
RS-02	Trackhoe	MW-09978	12/29/2014	Still in use	Gauging/LNAPL Recovery	848.54	849.52	20.00	NA	4	19.02	829.5	2.98	20.00	2.0	19.0	846.5	829.5	17.02
RS-04	Trackhoe	MW-09978	12/30/2014	Still in use	Gauging/LNAPL Recovery	850.36	851.47	10.75	NA	4	9.64	840.7	3.11	10.75	2.0	9.6	848.4	840.7	7.64
RS-05	Trackhoe	MW-09978	12/31/2014	Still in use	Gauging/LNAPL Recovery	847.14	848.31	25.20	NA	4	24.03	823.1	3.17	25.20	2.0	24.0	845.1	823.1	22.03
RS-06	Trackhoe	MW-09978	12/31/2014	Still in use	Gauging/LNAPL Recovery	848.25	849.47	25.18	NA	4	23.96	824.3	3.22	25.18	2.0	24.0	846.2	824.3	21.96
RS-07	Trackhoe	MW-09978	12/31/2014	Still in use	Gauging/LNAPL Recovery	854.06	855.08	16.65	NA	4	15.63	838.4	3.02	16.65	2.0	15.6	852.1	838.4	13.63

Table 9. Well Construction Information

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Installation Method	Permit #	Date Installed	Date Abandoned	Purpose	Ground Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Measured Depth to Bottom (ft BTOC)	Bore Hole Diameter (in)	Well Dia (in)	Well Depth (ft bgs)	Bottom of Well (ft amsl)	Top of Screen or Open Borehole Interval (ft BTOC)	Bottom of Screen or Open Borehole Interval (ft BTOC)	Top of Screen or Open Borehole Interval (ft bgs)	Bottom of Screen or Open Borehole Interval (ft bgs)	Top of Screen or Open Borehole Interval (ft amsl)	Bottom of Screen or Open Borehole Interval (ft amsl)	Length of Screen or Open Borehole Interval (ft)
RS-08	Trackhoe	MW-09978	12/31/2014	Still in use	Gauging/LNAPL Recovery	852.59	854.00	20.22	NA	4	18.81	833.8	3.41	20.22	2.0	18.8	850.6	833.8	16.81
RS-09	Trackhoe	MW-09978	1/7/2015	Still in use	Gauging/LNAPL Recovery	846.75	847.60	18.85	NA	4	18.00	828.8	2.85	18.85	2.0	18.0	844.8	828.8	16.00
RS-10	Trackhoe	MW-09978	1/7/2015	Still in use	Gauging/LNAPL Recovery	846.28	847.42	20.06	NA	4	18.92	827.4	3.14	20.06	2.0	18.9	844.3	827.4	16.92
RS-11	Trackhoe	MW-09978	1/7/2015	Still in use	Gauging/LNAPL Recovery	846.35	847.44	22.06	NA	4	20.97	825.4	3.09	22.06	2.0	21.0	844.3	825.4	18.97
RS-12	Trackhoe	MW-09978	1/7/2015	Still in use	Gauging/LNAPL Recovery	846.58	847.74	21.29	NA	4	20.13	826.5	3.16	21.29	2.0	20.1	844.6	826.5	18.13
RS-13	Trackhoe	MW-09978	1/8/2015	Still in use	Gauging/LNAPL Recovery	845.39	845.98	19.92	NA	4	19.33	826.1	1.96	19.92	1.4	19.3	844.0	826.1	17.96
RS-14	Trackhoe	MW-09978	1/8/2015	Still in use	Gauging/LNAPL Recovery	844.66	845.97	19.93	NA	4	18.62	826.0	3.31	19.93	2.0	18.6	842.7	826.0	16.62
RS-15	Trackhoe	MW-09978	1/8/2015	Still in use	Gauging/LNAPL Recovery	845.36	846.41	19.93	NA	4	18.88	826.5	3.05	19.93	2.0	18.9	843.4	826.5	16.88
RS-16	Trackhoe	MW-09978	1/8/2015	Still in use	Gauging/LNAPL Recovery	844.56	845.44	19.98	NA	4	19.10	825.5	2.88	19.98	2.0	19.1	842.6	825.5	17.10
RS-17	Trackhoe	MW-09978	1/8/2015	Still in use	Gauging/LNAPL Recovery	843.29	844.22	19.91	NA	4	18.98	824.3	2.93	19.91	2.0	19.0	841.3	824.3	16.98
RS-18	Trackhoe	MW-09978	1/8/2015	Still in use	Gauging/LNAPL Recovery	846.82	847.89	19.98	NA	4	18.91	827.9	3.07	19.98	2.0	18.9	844.8	827.9	16.91
RS-20	Trackhoe	MW-09978	3/19/2015	Still in use	Gauging/LNAPL Recovery	841.73	842.69	11.84	NA	4	9.91	831.8	3.93	11.84	2.0	9.9	839.7	831.8	7.91
Recovery Trench Sumps																			
RT-1A	Trackhoe	MW-09978	1/6/2015	Still in use	Gauging/LNAPL Recovery	852.86	854.06	20.89	NA	4	20.00	832.9	3.20	21.20	2.0	20.0	850.9	832.9	18.00
RT-1B	Trackhoe	MW-09978	1/6/2015	Still in use	Gauging/LNAPL Recovery	853.29	854.15	21.10	NA	4	20.00	833.3	2.86	20.86	2.0	20.0	851.3	833.3	18.00
RT-1C	Trackhoe	MW-09978	1/6/2015	Still in use	Gauging/LNAPL Recovery	853.55	854.55	21.27	NA	4	20.00	833.5	3.00	21.00	2.0	20.0	851.5	833.5	18.00
RT-2A	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	815.66	817.48	10.81	NA	4	10.00	805.7	3.82	11.82	2.0	10.0	813.7	805.7	8.00
RT-2B	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	816.72	817.61	10.82	NA	4	10.00	806.7	2.89	10.89	2.0	10.0	814.7	806.7	8.00
RT-2C	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	816.86	818.06	10.23	NA	4	10.00	806.9	3.20	11.20	2.0	10.0	814.9	806.9	8.00
RT-2D	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	817.11	818.12	10.21	NA	4	10.00	807.1	3.01	11.01	2.0	10.0	815.1	807.1	8.00
RT-2E	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	817.32	818.25	10.24	NA	4	10.00	807.3	2.93	10.93	2.0	10.0	815.3	807.3	8.00
RT-2F	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	817.74	818.57	10.23	NA	4	10.00	807.7	2.83	10.83	2.0	10.0	815.7	807.7	8.00
RT-2G	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	819.27	820.07	10.24	NA	4	10.00	809.3	2.80	10.80	2.0	10.0	817.3	809.3	8.00
RT-2I	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	819.23	819.51	10.20	NA	4	10.00	809.2	2.28	10.28	2.0	10.0	817.2	809.2	8.00
RT-2J	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	817.47	817.63	10.22	NA	4	10.00	807.5	2.16	10.16	2.0	10.0	815.5	807.5	8.00
RT-2K	Trackhoe	MW-09978	3/20/2015	Still in use	Gauging/LNAPL Recovery	816.11	817.40	4.14	NA	4	2.50	813.6	2.64	4.14	1.0	2.5	815.1	813.6	1.50
RT-2L	Trackhoe	MW-09978	3/20/2015	Still in use	Gauging/LNAPL Recovery	817.95	819.54	6.60	NA	4	3.71	814.2	3.89	6.60	1.0	3.7	816.9	814.2	2.71
Piezometers																			
TW-04R	DPT	MW-10006	2/4/2015	Still in use	Gauging	852.68	852.64	5.46	2.2	1	5.5	847.2	2.46	5.46	2.5	5.5	850.2	847.2	3.00
TW-05R	DPT	MW-10006	2/4/2015	Still in use	Gauging	849.96	849.93	8.87	2.2	1	8.8	841.2	2.87	8.87	2.8	8.9	847.2	841.1	6.00
TW-14R	DPT	MW-10006	2/4/2015	Still in use	Gauging	853.47	853.37	6.20	2.2	1	6.5	847.0	2.20	6.20	2.5	6.3	851.0	847.2	4.00
TW-15R	DPT	MW-10006	2/4/2015	Still in use	Gauging	850.70	850.62	4.85	2.2	1	5	845.7	1.85	4.85	2.0	4.9	848.7	845.8	3.00
TW-21	DPT	MW-09978	1/22/2015	Still in use	Gauging	849.72	849.70	9.54	2.2	1	14	835.7	-0.46	9.54	4.0	9.6	845.7	840.2	10.00
TW-28	DPT	MW-09978	1/23/2015	Still in use	Gauging	851.57	851.42	31.84	2.2	1	30	821.6	11.84	31.84	10.0	32.0	841.6	819.6	20.00
TW-30	DPT	MW-09978	1/23/2015	Still in use	Gauging	851.86	851.81	23.15	2.2	1	24	827.9	8.15	23.15	9.0	23.2	842.9	828.7	15.00
TW-34	DPT	MW-09978	1/24/2015	Still in use	Gauging	854.92	854.79	25.04	2.2	1	23	831.9	10.04	25.04	8.0	25.2	846.9	829.7	15.00
TW-35	DPT	MW-09978	1/24/2015	Still in use	Gauging	854.22	854.10	25.12	2.2	1	23	831.2	10.12	25.12	8.0	25.2	846.2	829.0	15.00
TW-40	DPT	MW-09978	1/24/2015	Still in use	Gauging	853.45	853.35	34.05	2.2	1	33	820.5	14.05	34.05	13.0	34.2	840.5	819.3	20.00
TW-41	DPT	MW-09978	1/25/2015	Still in use	Gauging	849.38	849.38	32.15	2.2	1	34	815.4	7.15	32.15	9.0	32.1	840.4	817.2	25.00
TW-42	DPT	MW-09978	1/25/2015	Still in use	Gauging	847.02	846.84	27.50	2.2	1	29.5	817.5	7.50	27.50	9.5	27.7	837.5	819.3	20.00
TW-45	DPT	MW-09978	1/25/2015	Still in use	Gauging	848.26	848.31	36.86	2.2	1	37.5	810.8	11.86	36.86	12.5	36.8	835.8	811.4	25.00
TW-55	DPT	MW-10006	2/5/2015	Still in use	Gauging	846.00	845.93	41.50	2.7	1	43	803.0	11.50	41.50	13.0	41.6	833.0	804.4	30.00
TW-59	DPT	MW-09978	1/30/2015	Still in use	Gauging	834.84	834.78	21.15	2.7	1	22	812.8	6.15	21.15	7.0	21.2	827.8	813.6	15.00
TW-60	DPT	MW-09978	1/30/2015	Still in use	Gauging	828.00	828.03	37.20	2.7	1	41.5	786.5	2.20	37.20	6.5	37.2	821.5	790.8	35.00
TW-64	DPT	MW-09978	2/2/2015	Still in use	Gauging	845.89	845.88	52.85	2.2	1	55	790.9	2.85	52.85	5.0	52.9	840.9	793.0	50.00
TW-65	DPT	MW-09978	2/2/2015	Still in use	Gauging	845.66	845.62	44.81	2.2	1	44.5	801.2	9.81	44.81	9.5	44.8	836.2	800.8	35.00
TW-66	DPT	MW-09978	2/2/2015	Still in use	Gauging	820.18	820.31	23.81	2.7	1	24	796.2	3.81	23.81	4.0	23.7	816.2	796.5	20.00
TW-67	DPT	MW-09978	2/3/2015	Still in use	Gauging	852.88	852.71	26.47	2.7	1	27	825.9	6.47	26.47	7.0	26.6	845.9	826.2	20.00
TW-68	DPT	MW-09978	2/3/2015	Still in use	Gauging	846.59	846.45	29.96	2.2	1	27	819.6	9.96	29.96	7.0	30.1	839.6	816.5	20.00

Table 9. Well Construction Information

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Installation Method	Permit #	Date Installed	Date Abandoned	Purpose	Ground Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Measured Depth to Bottom (ft BTOC)	Bore Hole Diameter (in)	Well Dia (in)	Well Depth (ft bgs)	Bottom of Well (ft amsl)	Top of Screen or Open Borehole Interval (ft BTOC)	Bottom of Screen or Open Borehole Interval (ft BTOC)	Top of Screen or Open Borehole Interval (ft bgs)	Bottom of Screen or Open Borehole Interval (ft bgs)	Top of Screen or Open Borehole Interval (ft amsl)	Bottom of Screen or Open Borehole Interval (ft amsl)	Length of Screen or Open Borehole Interval (ft)
TW-69	DPT	MW-09978	2/3/2015	Still in use	Gauging	840.38	840.27	51.91	2.2	1	50	790.4	11.91	51.91	10.0	52.0	830.4	788.4	40.00
TW-70	DPT	MW-09978	2/3/2015	Still in use	Gauging	842.07	841.95	45.05	2.2	1	43	799.1	10.05	45.05	8.0	45.2	834.1	796.9	35.00
TW-73	DPT	MW-09978	2/3/2015	Still in use	Gauging	850.60	850.53	16.00	2.7	1	16	834.6	6.00	16.00	6.0	16.1	844.6	834.5	10.00
TW-76	DPT	MW-10006	2/4/2015	Still in use	Gauging	852.53	852.44	43.62	2.7	1	43	809.5	8.62	43.62	8.0	43.7	844.5	808.8	35.00
TW-81	DPT	MW-10006	2/5/2015	Still in use	Gauging	849.48	849.43	7.00	2.2	1	7	842.5	2.00	7.00	2.0	7.0	847.5	842.4	5.00
TW-82	DPT	MW-10006	2/5/2015	Still in use	Gauging	849.83	849.64	10.00	2.2	1	10	839.8	2.00	10.00	2.0	10.2	847.8	839.6	8.00
TW-83	DPT	MW-10006	2/5/2015	Still in use	Gauging	850.54	850.44	17.00	2.2	1	17	833.5	2.00	17.00	2.0	17.1	848.5	833.4	15.00
TW-84	DPT	MW-10006	2/5/2015	Still in use	Gauging	851.38	851.22	13.50	2.2	1	13.5	837.9	3.50	13.50	3.5	13.7	847.9	837.7	10.00
TW-85	DPT	MW-10006	2/5/2015	Still in use	Gauging	843.64	843.49	39.00	2.7	1	39	804.6	9.00	39.00	9.0	39.2	834.6	804.5	30.00
TW-86	DPT	MW-10006	2/5/2015	Still in use	Gauging	853.28	853.10	6.00	2.2	1	6	847.3	2.00	6.00	2.0	6.2	851.3	847.1	4.00
TW-87	DPT	MW-10006	2/5/2015	Still in use	Gauging	852.33	852.25	7.00	2.2	1	7	845.3	2.00	7.00	2.0	7.1	850.3	845.3	5.00
TW-90	DPT	MW-10006	2/6/2015	Still in use	Gauging	845.48	845.43	46.50	2.7	1	46.5	799.0	6.50	46.50	6.5	46.6	839.0	798.9	40.00
TW-94	DPT	MW-10006	2/10/2015	Still in use	Gauging	840.75	840.58	40.00	2.7	1	40	800.8	5.00	40.00	5.0	40.2	835.8	800.6	35.00
TW-96	DPT	MW-10006	2/11/2015	Still in use	Gauging	840.52	840.40	28.76	2.7	1	30	810.5	3.76	28.76	5.0	28.9	835.5	811.6	25.00
Vertical Air Sparging Wells																			
VAS-01	Mobile B57 HSA	SCHE03020469	7/28/2016	Still in use	Cupboard Creek Protection	853.269	NS	NA	8.50	2.00	32.20	NA	NA	NA	28.70	31.20	NA	NA	2.50
VAS-02	Mobile B57 HSA	SCHE03020469	7/27/2016	Still in use	Cupboard Creek Protection	852.360	NS	NA	8.50	2.00	27.00	NA	NA	NA	23.50	26.00	NA	NA	2.50
VAS-03	Mobile B57 HSA	SCHE03020469	7/27/2016	Still in use	Cupboard Creek Protection	852.132	NS	NA	8.50	2.00	18.30	NA	NA	NA	14.80	17.30	NA	NA	2.50
VAS-04	Geoprobe 8040 HSA	SCHE03020469	8/4/2016	Still in use	Cupboard Creek Protection	852.056	NS	NA	8.50	2.00	16.70	NA	NA	NA	13.20	15.70	NA	NA	2.50
VAS-05	Mobile B57 HSA	SCHE03020469	7/27/2016	Still in use	Cupboard Creek Protection	851.559	NS	NA	8.50	2.00	13.00	NA	NA	NA	9.50	12.00	NA	NA	2.50
VAS-06	Mobile B57 HSA	SCHE03020469	7/26/2016	Still in use	Cupboard Creek Protection	851.612	NS	NA	8.50	2.00	14.40	NA	NA	NA	10.90	13.40	NA	NA	2.50
VAS-07	Mobile B57 HSA	SCHE03020469	7/26/2016	Still in use	Cupboard Creek Protection	851.603	NS	NA	8.50	2.00	19.40	NA	NA	NA	15.90	18.40	NA	NA	2.50
VAS-08	Mobile B57 HSA	SCHE03020469	7/25/2016	Still in use	Cupboard Creek Protection	851.583	NS	NA	8.50	2.00	22.00	NA	NA	NA	18.50	21.00	NA	NA	2.50
VAS-09	Mobile B57 HSA	SCHE03020469	7/25/2016	Still in use	Cupboard Creek Protection	851.607	NS	NA	8.50	2.00	14.00	NA	NA	NA	10.50	13.00	NA	NA	2.50
VAS-10	Mobile B57 HSA	SCHE03020469	7/25/2016	Still in use	Cupboard Creek Protection	851.411	NS	NA	8.50	2.00	16.10	NA	NA	NA	12.60	15.10	NA	NA	2.50
VAS-11	Mobile B57 HSA	SCHE03020469	7/28/2016	Still in use	Cupboard Creek Protection	852.476	NS	NA	8.50	2.00	25.30	NA	NA	NA	21.80	24.30	NA	NA	2.50
VAS-12	Geoprobe 8040 HSA	SCHE03020469	8/5/2016	Still in use	Cupboard Creek Protection	851.535	NS	NA	8.50	2.00	24.20	NA	NA	NA	20.70	23.20	NA	NA	2.50
VAS-13	Geoprobe 8040 HSA	SCHE03020469	8/5/2016	Still in use	Cupboard Creek Protection	851.701	NS	NA	8.50	2.00	19.60	NA	NA	NA	16.10	18.60	NA	NA	2.50
VAS-14	Geoprobe 8040 HSA	SCHE03020469	8/4/2016	Still in use	Cupboard Creek Protection	851.239	NS	NA	8.50	2.00	16.20	NA	NA	NA	12.70	15.20	NA	NA	2.50
VAS-15	Geoprobe 8040 HSA	SCHE03020469	8/4/2016	Still in use	Cupboard Creek Protection	850.732	NS	NA	8.50	2.00	15.50	NA	NA	NA	12.00	14.50	NA	NA	2.50
VAS-16	Geoprobe 8040 HSA	SCHE03020469	8/3/2016	Still in use	Cupboard Creek Protection	850.305	NS	NA	8.50	2.00	17.90	NA	NA	NA	14.40	16.90	NA	NA	2.50
VAS-17	Geoprobe 8040 HSA	SCHE03020469	8/3/2016	Still in use	Cupboard Creek Protection	849.842	NS	NA	8.50	2.00	19.30	NA	NA	NA	15.80	18.30	NA	NA	2.50
VAS-18	Geoprobe 8040 HSA	SCHE03020469	8/8/2016	Still in use	Cupboard Creek Protection	849.513	NS	NA	8.50	2.00	16.50	NA	NA	NA	13.00	15.50	NA	NA	2.50
VAS-19	Mobile B57 HSA	SCHE03020469	7/26/2016	Still in use	Cupboard Creek Protection	850.465	NS	NA	8.50	2.00	17.20	NA	NA	NA	13.60	16.10	NA	NA	2.50
VAS-20	Mobile B57 HSA	SCHE03020469	7/19/2016	Still in use	Brown's Creek Protection	827.789	NS	NA	8.50	2.00	47.60	NA	NA	NA	44.60	47.10	NA	NA	2.50
VAS-21	Mobile B57 HSA	SCHE03020469	7/19/2016	Still in use	Brown's Creek Protection	826.304	NS	NA	8.50	2.00	53.50	NA	NA	NA	50.00	52.50	NA	NA	2.50
VAS-22	Mobile B57 HSA	SCHE03020469	7/21/2016	Still in use	Brown's Creek Protection	827.394	NS	NA	8.50	2.00	57.00	NA	NA	NA	53.50	56.00	NA	NA	2.50
VAS-23	Mobile B57 HSA	SCHE03020469	7/22/2016	Still in use	Brown's Creek Protection	827.211	NS	NA	8.50	2.00	49.50	NA	NA	NA	46.00	48.50	NA	NA	2.50
VAS-24	Mobile B57 HSA	SCHE03020469	7/5/2016	Still in use	Brown's Creek Protection	826.803	NS	NA	8.50	2.00	58.50	NA	NA	NA	55.00	57.50	NA	NA	2.50
VAS-25	Mobile B57 HSA	SCHE03020469	7/11/2016	Still in use	Brown's Creek Protection	826.411	NS	NA	8.50	2.00	54.00	NA	NA	NA	50.50	53.00	NA	NA	2.50
VAS-26	Mobile B57 HSA	SCHE03020469	7/11/2016	Still in use	Brown's Creek Protection	825.180	NS	NA	8.50	2.00	55.00	NA	NA	NA	51.50	54.00	NA	NA	2.50
VAS-27	Mobile B57 HSA	SCHE03020469	7/8/2016	Still in use	Brown's Creek Protection	826.369	NS	NA	8.50	2.00	54.00	NA	NA	NA	50.50	53.00	NA	NA	2.50
VAS-28	Mobile B57 HSA	SCHE03020469	7/6/2016	Still in use	Brown's Creek Protection	828.930	NS	NA	8.50	2.00	23.10	NA	NA	NA	19.80	22.30	NA	NA	2.50
VAS-29	Mobile B57 HSA	SCHE03020469	7/6/2016	Still in use	Brown's Creek Protection	832.025	NS	NA	8.50	2.00	27.50	NA	NA	NA	24.00	26.50	NA	NA	2.50
VAS-30	Mobile B57 HSA	SCHE03020469	6/21/2016	Still in use	Brown's Creek Protection	831.485	NS	NA	8.50	2.00	52.90	NA	NA	NA	49.40	51.90	NA	NA	2.50

Table 9. Well Construction Information

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Installation Method	Permit #	Date Installed	Date Abandoned	Purpose	Ground Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Measured Depth to Bottom (ft BTOC)	Bore Hole Diameter (in)	Well Dia (in)	Well Depth (ft bgs)	Bottom of Well (ft amsl)	Top of Screen or Open Borehole Interval (ft BTOC)	Bottom of Screen or Open Borehole Interval (ft BTOC)	Top of Screen or Open Borehole Interval (ft bgs)	Bottom of Screen or Open Borehole Interval (ft bgs)	Top of Screen or Open Borehole Interval (ft amsl)	Bottom of Screen or Open Borehole Interval (ft amsl)	Length of Screen or Open Borehole Interval (ft)
VAS-31	Mobile B57 HSA	SCHE03020469	6/21/2016	Still in use	Brown's Creek Protection	828.337	NS	NA	8.50	2.00	42.00	NA	NA	NA	38.50	41.00	NA	NA	2.50
VAS-32	Mobile B57 HSA	SCHE03020469	6/30/2016	Still in use	Brown's Creek Protection	836.257	NS	NA	8.50	2.00	43.00	NA	NA	NA	39.50	42.00	NA	NA	2.50
VAS-33	Mobile B57 HSA	SCHE03020469	6/29/2016	Still in use	Brown's Creek Protection	840.900	NS	NA	8.50	2.00	52.60	NA	NA	NA	49.10	51.60	NA	NA	2.50
VAS-34	Mobile B57 HSA	SCHE03020469	7/13/2016	Still in use	Brown's Creek Protection	836.585	NS	NA	8.50	2.00	53.50	NA	NA	NA	50.00	52.50	NA	NA	2.50
VAS-35	Mobile B57 HSA	SCHE03020469	7/13/2016	Still in use	Brown's Creek Protection	831.212	NS	NA	8.50	2.00	40.00	NA	NA	NA	36.50	39.00	NA	NA	2.50
VAS-36	Mobile B57 HSA	SCHE03020469	7/7/2016	Still in use	Brown's Creek Protection	831.361	NS	NA	8.50	2.00	33.20	NA	NA	NA	29.70	32.20	NA	NA	2.50
VAS-37	Mobile B57 HSA	SCHE03020469	7/7/2016	Still in use	Brown's Creek Protection	832.454	NS	NA	8.50	2.00	16.50	NA	NA	NA	13.00	15.50	NA	NA	2.50
VAS-38	Mobile B57 HSA	SCHE03020469	7/6/2016	Still in use	Brown's Creek Protection	834.566	NS	NA	8.50	2.00	21.10	NA	NA	NA	16.60	19.10	NA	NA	2.50
VAS-39	Mobile B57 HSA	SCHE03020469	6/22/2016	Still in use	Brown's Creek Protection	835.956	NS	NA	8.50	2.00	42.40	NA	NA	NA	38.90	41.40	NA	NA	2.50
VAS-40	Mobile B57 HSA	SCHE03020469	6/23/2016	Still in use	Brown's Creek Protection	833.753	NS	NA	8.50	2.00	40.00	NA	NA	NA	36.50	39.00	NA	NA	2.50
VAS-41	Mobile B57 HSA	SCHE03020469	6/28/2016	Still in use	Brown's Creek Protection	845.071	NS	NA	8.50	2.00	27.80	NA	NA	NA	24.30	26.80	NA	NA	2.50
VAS-42A	Mobile B57 HSA	SCHE03020469	7/14/2016	Still in use	Brown's Creek Protection	845.304	NS	NA	8.50	2.00	39.30	NA	NA	NA	35.80	38.30	NA	NA	2.50
VAS-43A	Mobile B57 HSA	SCHE03020469	7/15/2016	Still in use	Brown's Creek Protection	843.078	NS	NA	8.50	2.00	66.50	NA	NA	NA	63.00	65.50	NA	NA	2.50
VAS-44A	Mobile B57 HSA	SCHE03020469	7/18/2016	Still in use	Brown's Creek Protection	838.353	NS	NA	8.50	2.00	72.50	NA	NA	NA	69.00	71.50	NA	NA	2.50
VAS-46	Mobile B57 HSA	SCHE03020469	6/24/2016	Still in use	Brown's Creek Protection	839.503	NS	NA	8.50	2.00	20.80	NA	NA	NA	18.00	20.50	NA	NA	2.50
Vertical Bedrock Sparging Wells																			
VBS-01	Hollow Stem Auger/Wire Line/Air Rotary	SCHE03020469M	1/28/2017	Still in use	Brown's Creek Protection	NS	NS	38.15	4.00	2.00	38.50	NA	NA	NA	34.50	38.50	NA	NA	2.00
VBS-02	Hollow Stem Auger/Wire Line/Air Rotary	SCHE03020469M	1/28/2017	Still in use	Brown's Creek Protection	NS	NS	31.05	4.00	2.00	31.00	NA	NA	NA	27.00	31.00	NA	NA	2.00
VBS-03	Hollow Stem Auger/Wire Line/Air Rotary	SCHE03020469M	1/27/2017	Still in use	Brown's Creek Protection	NS	NS	36.20	4.00	2.00	36.20	NA	NA	NA	32.20	36.20	NA	NA	2.00

Notes:

amsl = above mean sea level relative to North American Vertical Datum of 1988 (NAVD88). Benchmark is 34.8289659 degrees north, 82.3710354 degrees west (NAD83, 2011), elevation 929.1 ft NAVD88.

bgs = below ground surface

BTOC = below top of casing

DPT = direct push

ft = feet

HSA = hollow-stem auger

in = inches

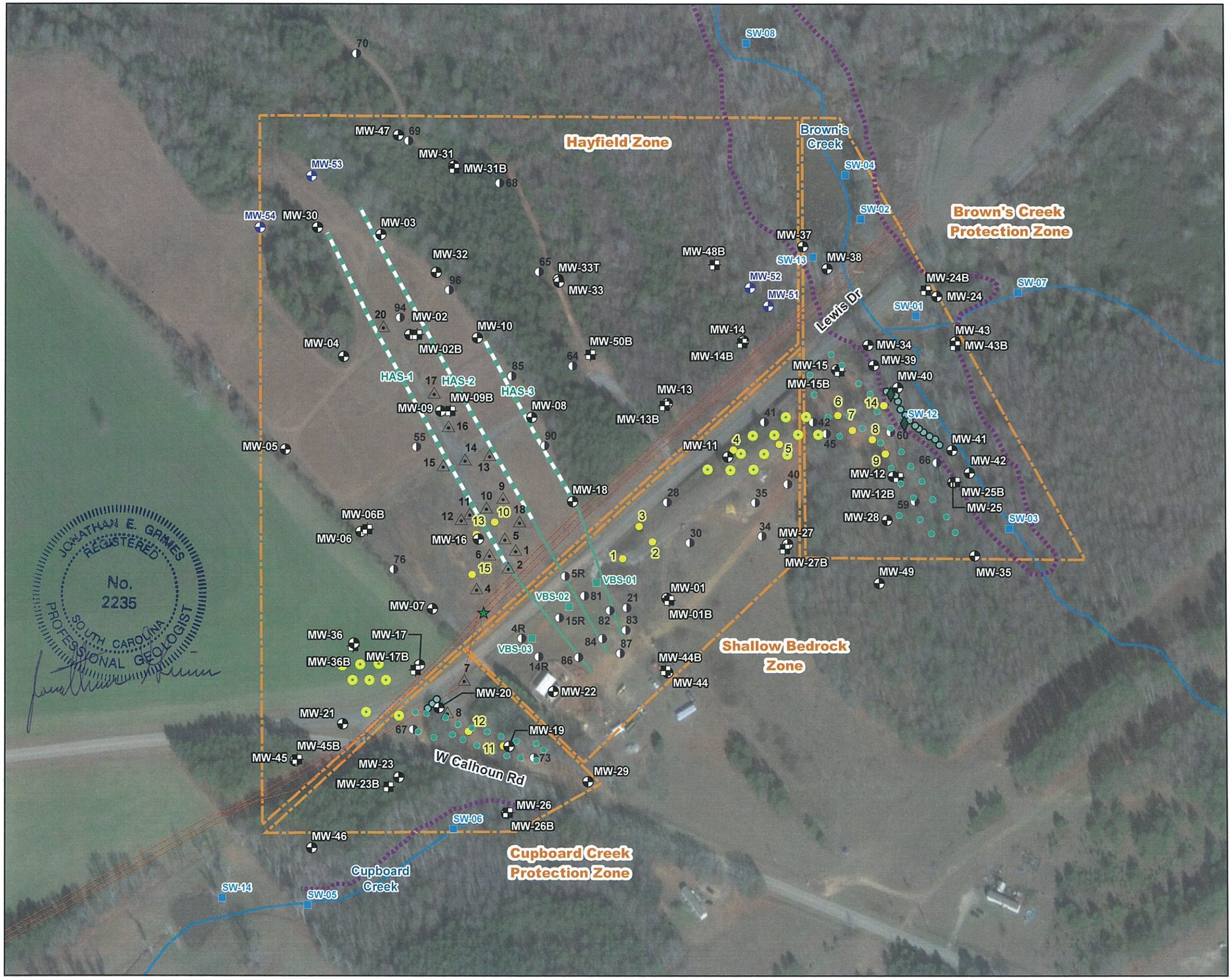
NA = not applicable

NS = location not surveyed

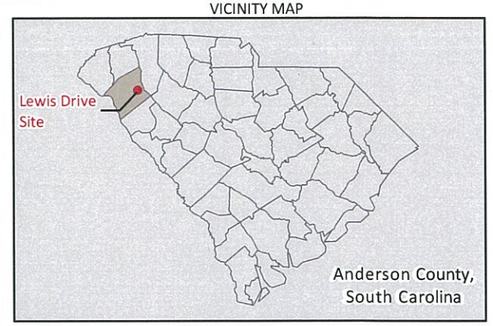
RNE = Refusal not encountered

TOC = top of casing

Figures



VICINITY MAP



LEGEND

- Release Point
- Proposed Residuum Monitoring Well
- Residuum Monitoring Well
- Bedrock Monitoring Well
- Piezometer to Abandon
- Recovery Sump
- Recovery Trench Point
- Recovery Well (4" diameter)
- Surface Water Sampling Location
- Seep Location
- Proposed Vertical Sparging Well
- Vertical Bedrock Sparging Well
- Vertical Saprolite Sparging Well
- Pipeline
- Horizontal Sparging Well Riser
- Horizontal Sparging Well Screen
- National Hydrography Dataset Stream
- Inspection Route for Sheen or Distressed Vegetation
- Remediation Zone

Base Map Sources:
*Environmental Systems Research Institute (ESRI) ArcMap World Imagery, 2017. Basemap features are approximate.
*United States Geological Survey (USGS) National Hydrography Dataset (NHD)

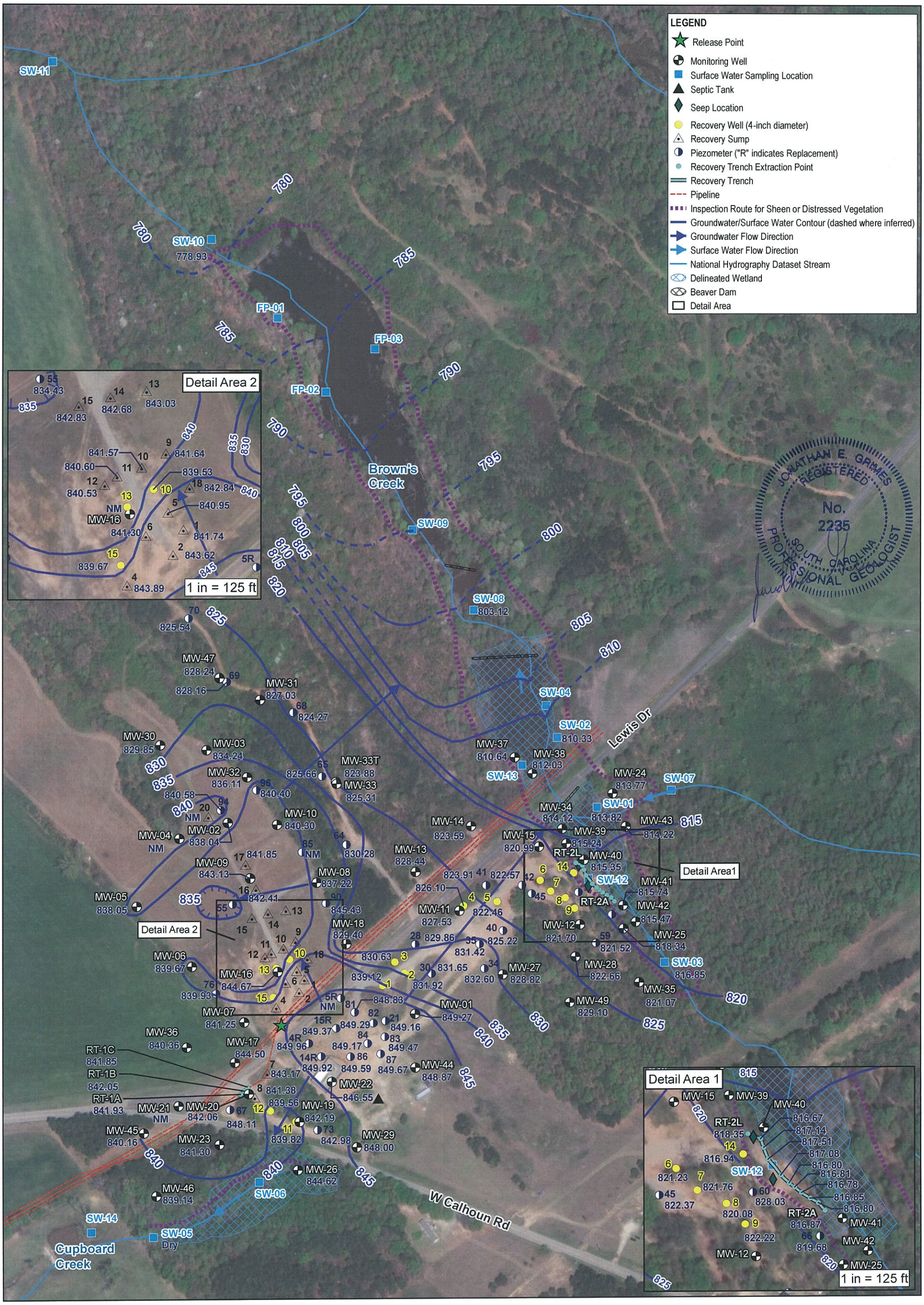
N

0 200 400

Scale in feet

JONATHAN E. GRIMES REGISTERED No. 2235 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

Figure 1. Site Overview
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"



821.70 Corrected Groundwater Elevation as of 3/5/2018 in feet above mean sea level

NM Not Measured

Base Map Sources:
*Environmental Systems Research Institute (ESRI) ArcMap World Imagery, 2017. Basemap features are approximate.
*United States Geological Survey (USGS) National Hydrography Dataset (NHD)

N

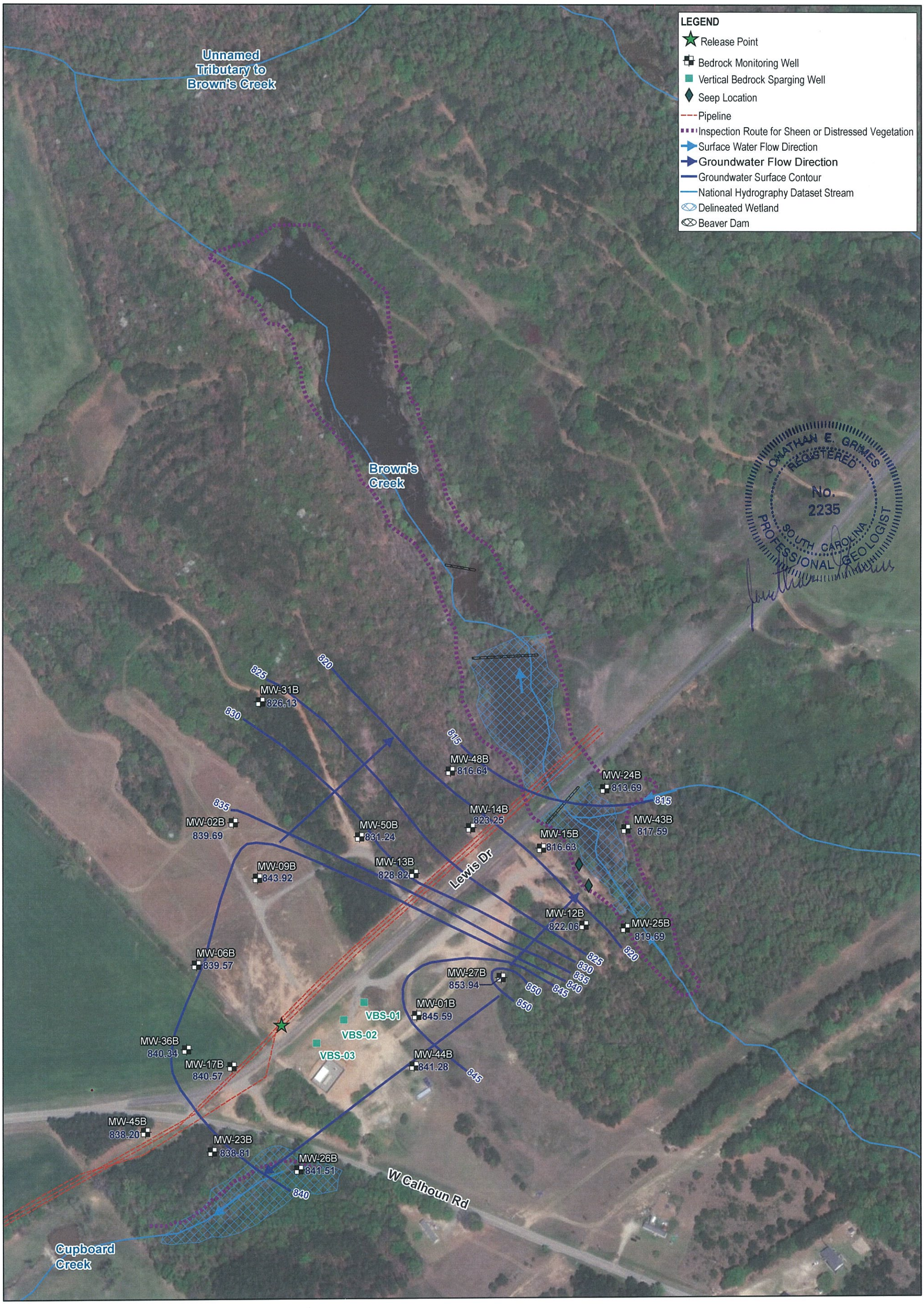
0 250 500

Scale in Feet

Figure 2A. Residuum Groundwater and Surface Water Elevation Map
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

ch2m:

\\brooksidefiles\GIS_SHARE\ENBG\00_Proj\K\KinderMorgan\654558LewisDr_ER\GIS\Maps\2018_Annual_Report\Figure2A_Residuum_GW_Elevation.mxd saselage 6/20/2018



838.81 Corrected Groundwater Elevation as of 3/5/2018 in feet above mean sea level

Base Map Sources:
*Environmental Systems Research Institute (ESRI) ArcMap World Imagery, 2017. Basemap features are approximate.
*United States Geological Survey (USGS) National Hydrography Dataset (NHD)

N

0 250 500

Scale in Feet

Figure 2B. Bedrock Groundwater Elevation Map
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

ch2m

\\brooksidefiles\GIS_SHARE\ENBG\00_Proj\K\KinderMorgan\654558LewisDr_ER\GIS\Maps\2018_Annual_Report\Figure2B_Bedrock_GW_Elevation.mxd saselage 6/19/2018

LEGEND

- Release Point
- Monitoring Well
- Bedrock Monitoring Well
- Seep Location
- Recovery Sump
- Piezometer ("R" indicates Replacement)
- Recovery Well (4-inch diameter)
- Vertical Bedrock Sparging Well
- Vertical Saprolite Sparging Well
- Surface Water Sampling Location
- Septic Tank
- Recovery Trench Extraction Point
- Recovery Trench
- Surface Water Flow Direction
- Horizontal Sparging Well Riser
- Horizontal Sparging Well Screen
- Pipeline
- National Hydrography Dataset Stream
- Delineated Wetland
- Beaver Dam
- Detail Area
- Approximate Extent of Product > 0.01' Thickness based on 6/10/2016 data (data not shown)
- Approximate Extent of Product > 0.01' Thickness based on 3/5/2018 data

0.53 Product thickness in feet as of 3/5/2018

NP No product detected

NM Not measured

Base Map Sources:
*Environmental Systems Research Institute (ESRI) ArcMap World Imagery, 2017. Basemap features are approximate.
*United States Geological Survey (USGS) National Hydrography Dataset (NHD)

N

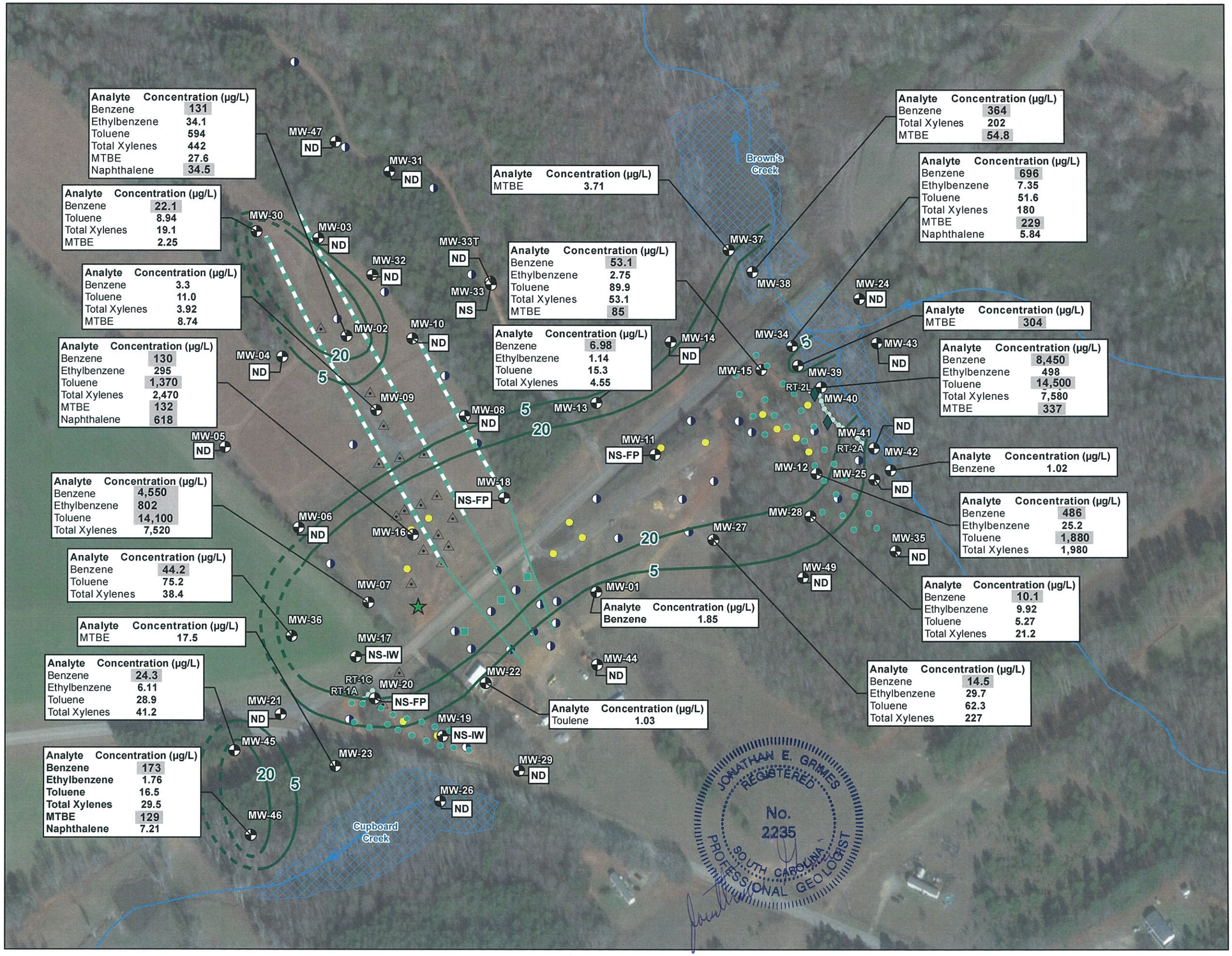
0 175 350

Scale in Feet

JONATHAN E. GRIMES REGISTERED No. 2235 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

Figure 3. Product Thickness Map
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

\\brooksidefiles\GIS_SHARE\ENBG\00_Proj\K\KinderMorgan\654558LewisDr_ER\GIS\Maps\2018_Annual_Report\Figure3_Product_Thcknss.mxd ag017958 5/9/2018



LEGEND

- Release Point
- Residuum Monitoring Well
- Piezometer
- Vertical Bedrock Sparging Well
- Vertical Saprolite Sparging Well
- Seep Location
- Recovery Well (4" diameter)
- Recovery Sump
- Recovery Trench Point
- Recovery Trench
- Surface Water Flow Direction
- Horizontal Sparging Well Riser
- Horizontal Sparging Well Screen
- Dissolved Benzene Plume Extent (µg/L) (Dashed where inferred)
- National Hydrography Dataset Stream
- Delineated Wetland

NOTES:
1. Total Xylenes is the sum of m&p xylenes and o-xylene.
2. MTBE = Methyl Tertiary Butyl Ether
3. µg/L = microgram(s) per liter
4. Only detected analytes are shown on map.
5. ND = Groundwater was collected and analyzed, but no analytes were detected above the reported sample quantitation limit.
6. NS = Not scheduled to be sampled for this event
7. NS-FP = Sample not collected due to the presence of free product in the well
8. NS-IW = Sample not collected due to insufficient volume of water in well

Gray shading indicates the analyte exceeded risk-based screening levels (RBSLs) identified in South Carolina Underground Storage Tank Management Division Programmatic Quality Assurance Program Plan Revision 3.1, Table D1 "RBSLs for Groundwater", February 2016.

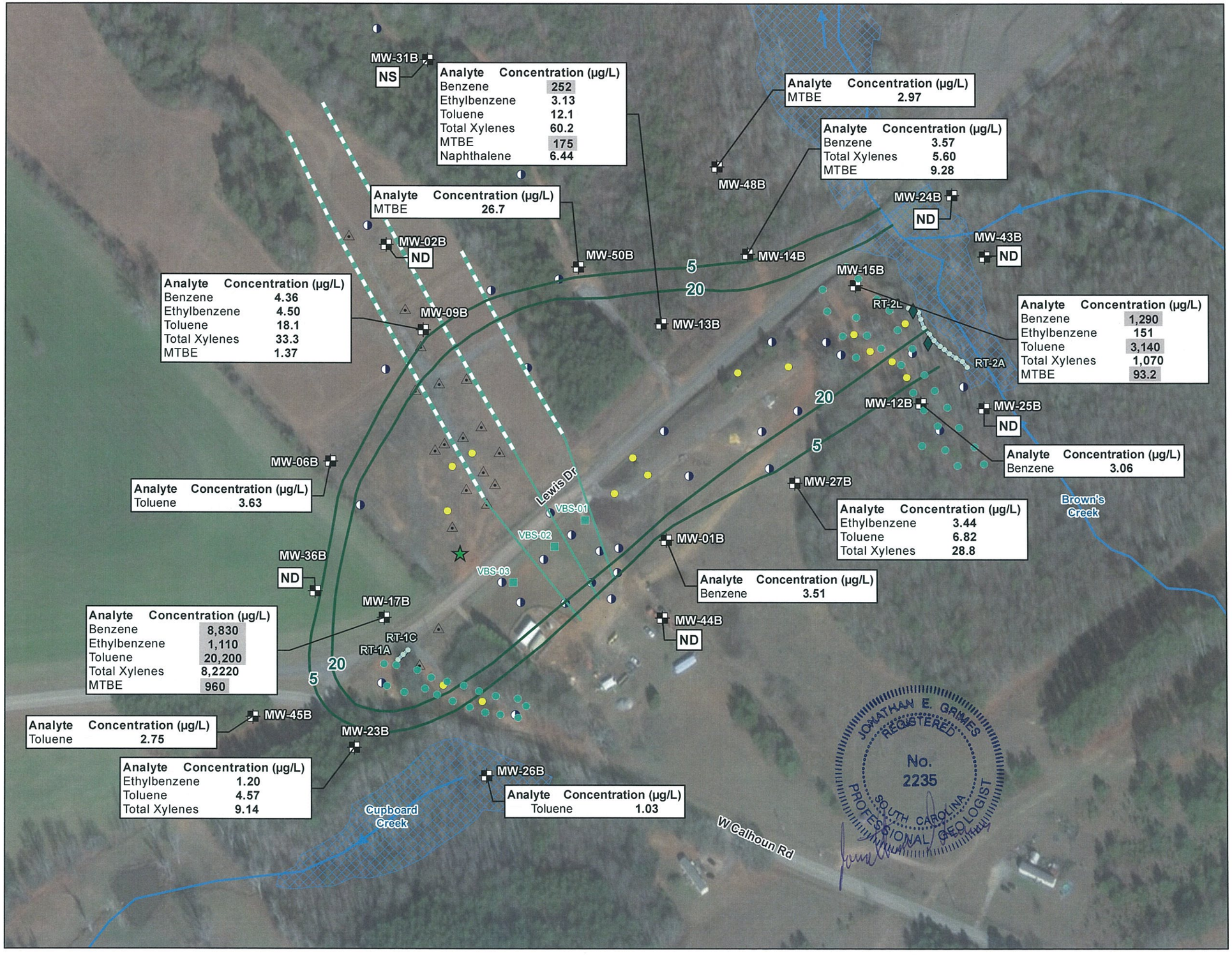
Base Map Sources:
*Environmental Systems Research Institute (ESRI) ArcMap World Imagery, 2017. Basemap features are approximate.
*United States Geological Survey (USGS) National Hydrography Dataset (NHD)

N

0 200 400

Approximate scale in feet

FIGURE 4A. Groundwater Analytical Results in Residuum Aquifer, March 2018
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"



LEGEND

- Release Point
- Bedrock Monitoring Well
- Piezometer
- Vertical Bedrock Sparing Well
- Vertical Saprolite Sparing Well
- Seep Location
- Recovery Well (4" diameter)
- Recovery Sump
- Recovery Trench Point
- Recovery Trench
- Surface Water Flow Direction
- Horizontal Sparging Well Riser
- Horizontal Sparging Well Screen
- Dissolved Benzene Plume Extent (µg/L)
- National Hydrography Dataset Stream
- Delineated Wetland

NOTES:

Total Xylenes is the sum of m&p xylenes and o-xylene.
MTBE = Methyl Tertiary Butyl Ether
µg/L = microgram(s) per liter
Only detected analytes are shown on map.
ND = Groundwater was collected and analyzed, but no analytes were detected above the reported sample quantitation limit.
NS = Not sampled during this event.

Gray shading indicates the analyte exceeded risk-based screening levels (RBSLs) identified in South Carolina Underground Storage Tank Management Division Programmatic Quality Assurance Program Plan Revision 3.1, Table D1 "RBSLs for Groundwater", February 2016.

Base Map Sources:
*Environmental Systems Research Institute (ESRI) ArcMap World Imagery, 2017. Basemap features are approximate.
*United States Geological Survey (USGS) National Hydrography Dataset (NHD)

0 175 350
Approximate scale in feet

FIGURE 4B. Groundwater Analytical Results in Bedrock Aquifer, March 2018
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Appendix A
Field Notes, Gauging Sheets, and Purge Logs

Location Belton, SC Date 4/5/17
Project / Client Lewis Dr/PPL
Startup GW sampling

Objective: collect surface water samples (3x40mL amber glass w/HCl for 8260B BTEX + Napthelene)
Weather: severe afternoon storms, cloudy, 58-68°F
Personnel: J. McCann/ATL, J. Hansen/MGM
0724 Team onsite
0725 H&S meeting, severe weather, snakes
0810 SW-11-040517 biosheen, no distressed vegetation
0820 SW-10-040517 no sheen or distressed vegetation, water level=0.4ft
0830 FP-01-040517 no sheen or distressed vegetation, pollen film
0835 FP-02-040517 no sheen or distressed vegetation, pollen film
0845 SW-09-040517 no sheen or distressed vegetation
0855 SW-08-040517 no sheen or distressed vegetation, water level=1.18ft
0905 SW-13-040517 biosheen, no distressed vegetation

Location Belton, SC Date 4/5/17

Project / Client Lewis Dr / PPL

Startup GW Sampling

0915 SW-04-040517 no sheen or distressed vegetation

0920 SW-02-040517 no sheen or distressed vegetation
water level = 1.52 ft

0925 SW-01-040517 no sheen or distressed vegetation,
water level = 0.28 ft

0930 SW-07-040517 no sheen or distressed vegetation

0935 SW-12-040517 no sheen or distressed vegetation

0940 SW-08-040517 no sheen or distressed vegetation,
water level = 1.92 ft

0952 SW-06 is dry

0955 SW-05 is dry

1000 Lightning in area, stopped work

1052 Team offsite to FedEx & lunch
(will not collect FP-03 due to significant rain event)

1136 Dropped cooler at FedEx

1256 Returned from lunch

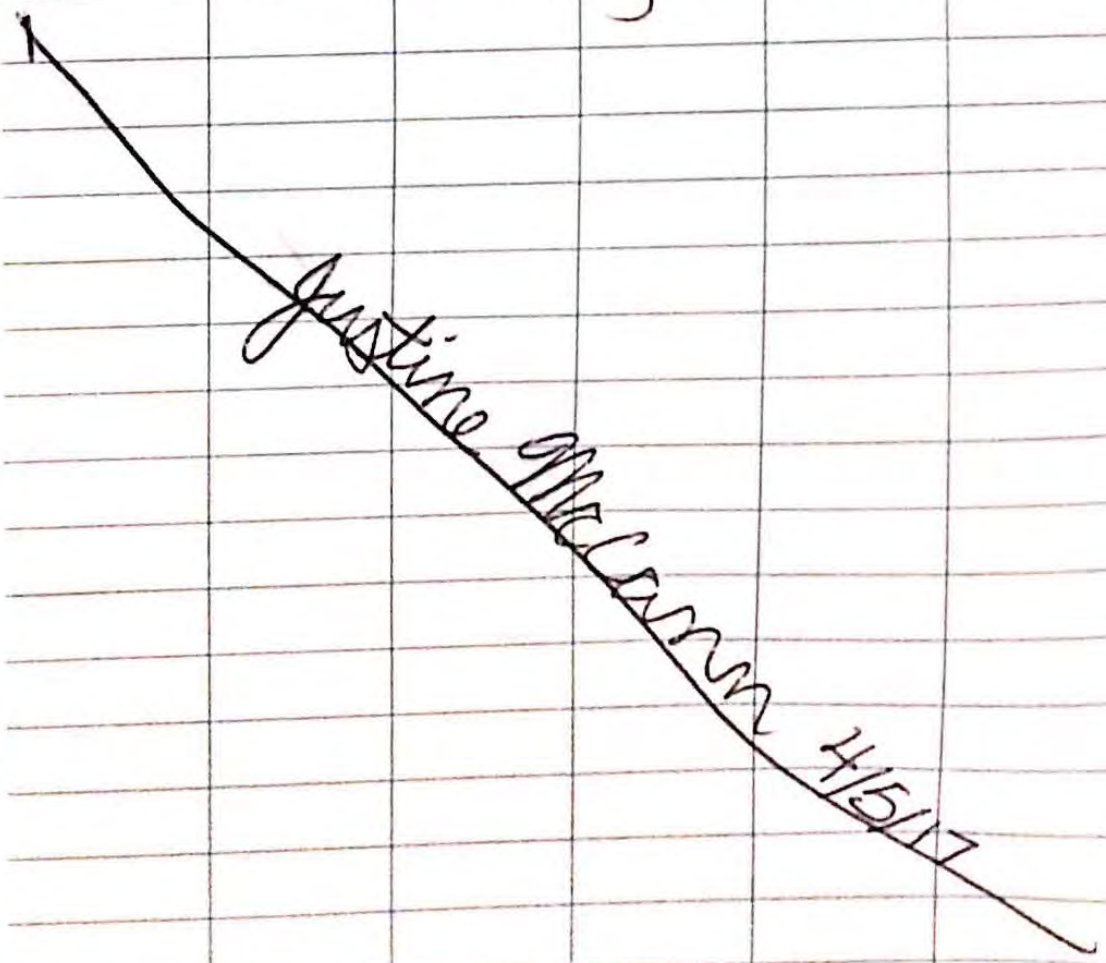
56

Location Belton, SC Date 4/5/17

Project / Client Lewis Dr/AOL

Startup GW sampling

1310	Stopped work for thunder
1323	Checked to see if transducer issue was resolved, program successfully
1330	Attended safety standdown skype call
1358	Finished skype call
1400	Team offsite due to continuing storms



Location Belton, SC Date 4/6/17

Project / Client Lewis Dr / PPL

startup GW sampling

Objective: sample startup monitoring wells for BTEXMN 8260B (3x40 mL amber glass w/HCl, collect stream DO measurements, collect transducer data and install new transducers, retrieve items dropped down MW-12B + MW-45B

Weather: chance of rain, 43/56°F

Personnel: J. McCann/ATL, J. Hansen/MGM

0708 Team onsite

0710 Health + safety meeting: slick surfaces, rushing

0724 Calibrated PID Pinett 032402 fresh air = 0.0 ppm, span cal using 100 ppm Isobutylene lot # DAQ-248-100-19 exp: 3/20 reading = 100.0 ppm

0732 Retrieved bag from MW-12B

0740 MW-12B - 040617

0815 MW-45B - 040617 * removed TS

0823 Gauged Cuptoard Creek

Rain on the Rain

58

Location Belton, SC Date 4/6/17

Project / Client Lewis Dr / APC

Startup GW sampling

	wells
0925	MW-17B-040617
0945	MW-23-040617
0950	MW-23B-040617
1005	MW-26B-040617
1015	MW-26-040617
1020	MW-26-040617-FD
1025	MW-29-040617
1040	MW-19-040617
1052	Gauged Brown's Creek wells
1145	Team to lunch
1242	Returned from lunch
1255	MW-38-040617
1305	MW-15-040617
1315	MW-15B-040617
1320	MW-15B-040617-FD
1325	MW-34-040617
1335	MW-39-040617
1345	MW-40-040617
1353	MW-41-040617
1405	MW-42-040617
1415	MW-25B-040617
1425	MW-25-040617
1435	MW-35-040617

Location Belton, SC Date 4/6/17

Project / Client Lewis Dr/PPL

1451 Calibrated YSI 6920
pine# 8977/0346604
pressure: 754. it temp. 15.72°C

parameter	pre-cal	post-cal	lot#	exp
pH 7	6.96	7.00	26D837	7/17
pH 4	4.07	4.00	251B04	11/17
pH 10	10.20	10.03	260832	2/18
1.413 mS/cm	1.513	1.413	46D211	4/17
0.0 NTU	-4.2	0.0	16L8039	12/17
126.0 NTU	125.9	126.0	16L9067	9/17
240 mV	251.5	240.1	9539	11/20
DO%	103.9	99.2	—	—

1515 ~~AM~~ FB-01-040617

1520 Started pumping MW-21
DTW = 18.17' btoc

1545 MW-21-040617

1548 Stopped pumping MW-21
Purge volume ≈ 1.5 gal

1555 Dumped purge water

1600 Started stream DO measurements

location	reading
SW-03	8.39
SW-12	8.30
SW-13	2.39
SW-01	7.54

Rite in the Rain

Location Belton, SC Date 4/6/17

Project / Client Lewis Dr / PPL

Startup GW sampling

1630	TB-01-040617

1708 Team offsite to FedEX

1637 Decon ed weights and filled out CoC)

1742 Dropped off cooler

1812 J. McCann returned to site to collect transducer data and install new transducer in MW-08 and MW-25

1935 Completed inventory of sampling supplies
- 1 small cooler
- 2 trip blanks
- CoCs + airbills
- 5 VOA sets of 3 + 1 extra bottle
- 0.5 liters lab DI water
- HydraSleeve weights + twine

1945 J. McCann offsite

Justine McCann 4/6/17

Location Belton, SC Date 5/3/17

Project / Client Lewis Dr/PEL

monthly GW sampling

Objective: begin sampling and DO measurements in select wells, sampling for BTEXMN, 3x40mL amber glass w/HCl

Weather: Sunny, 60°/83°F

Personnel: J. McCann/ATL, M. Warren/ATL

0837 J. McCann onsite

0903 Calibrated PID, pine#038158, fresh air: 0.0ppm, span cal with 100 ppm Isobutylene, lot# 544886, exp. 9/19, reading: 100.0 ppm

0925 TB-01-050317 2x40mL

(0850 M. Warren onsite)

0945 Health and safety meeting: ticks

0954 Began gauging wells

1010 MW-31-050317

1030 MW-10-050317

1035 MW-10-050317-FD

1100 MW-05-050317

1135 Team to lunch

Rite in the Rain

70

Location Belton, SC Date 5/3/17

Project / Client Lewis Dr / PPL

monthly GW sampling

1253 Returned from lunch

1300	MW-29-050317
1325	MW-26-050317
1400	MW-28-050317
1420	MW-25-050317
1450	MW-35-050317
1515	MW-34-050317
1530	MW-38-050317

1544 Finished gauging

1546 Setup at MW-30 to pump
DTW = 13.66' btoc

1600 Started pumping MW-30

1604 Well dry, will pump again tomorrow to collect sample

1615	FB-01-050317

1630 Put away Hydra Sleeves and dumped purge water

1640 Team offsite to FedEx

Justine McCann 5/3/17

Location Belton, SC Date 5/4/17

Project / Client Lewis Dr/APH

monthly GW sampling

Objective: collect surface water samples, measure downhole DO

Weather: cloudy, chance of afternoon rain, 71-82°F

Personnel: J. McCann/ATL, M. Warren/ATL

0710 Team onsite.

0726 H+S meeting: focus

0805 SW-11-050417 3x40 mL amber glass w/HCl for BTEXN, no sheen or distressed vegetation

(All BTEXN samples for BTEXN, 3x40 mL amber glass w/HCl unless otherwise noted)

0825 SW-10-050417 no sheen or distressed vegetation, water level = 0.3 ft

0835 FP-01-050417 no sheen or distressed vegetation, pollen film

0845 FP-02-050417 no sheen or distressed vegetation

0900 SW-09-050417 no sheen or

Rite in the Rain

Location Belton, SC Date 5/4/17

Project / Client Lewis Dr / PPL

monthly GW sampling

distressed vegetation

0910 SW-08-050417 no sheen or distressed vegetation, water level = 1.14 ft

0920 SW-13-050417 biosheen, no distressed vegetation

0940 FP-03-050417 no sheen or distressed vegetation

0955 SW-04-050417 no sheen or distressed vegetation

1005 SW-02-050417 no sheen or distressed vegetation, water level = 1.52 ft

1010 SW-01-050417 ~~no~~ mild sheen, no distressed vegetation, water level = 0.88 ft

1015 SW-07-050417 no sheen or distressed vegetation

1025 SW-12-050417 biosheen, odor, no distressed vegetation

1030 SW-03-050417 no sheen or distressed vegetation, pollen film, water level = 1.90 ft

1054 called T. Wiley to get

Location Belton, SC Date 5/4/17

Project / Client Lewis Dr / PPL

monthly GW sampling

List of DO measurements taken by S. Smith last week, will not duplicate his measurements

1105 SW-06 is dry

1100 SW-05 is dry

1126 Lent interface probe to T. Barnes for last 10 wells of his gauging

1127 Calibrated PID, same ID numbers as 5/3, span cal = 100.0 ppm, fresh air = 0.1 ppm

1144 Team to lunch

1045	TB-01-050417	1x40 mL)

1223 Returned from lunch, began taking DO measurements

1425	MW-30-050417
1440	FB-01-050417

1446 Took stream DO measurements

1514 Measurements completed, M. Warren offsite

1521 J. McCann offsite

Justine McCann 5/4/17

Location Belton, SC Date 6/13/17

Project / Client Lewis Drive / FPL

surface water sampling

~~0905~~ 0903 Objective: sample all surface water sampling locations for BTEXN (8260B, 3x40 mL amber glass w/ HCl)

Weather: partly cloudy, chance of afternoon storms, 76/88°F

Personnel: S. McCann / ATL

0903 S. McCann onsite, begin preparing to sample

0940 Started walking downstream

1020 SW-11-060317 3x40 mL, no sheen or distressed vegetation

1040 SW-10-060317 no sheen or distressed vegetation, water level ≈ 0.30ft

1055 FP-01-060317 no sheen or distressed vegetation

1105 FP-02-060317 pollen film, no distressed vegetation

1115 SW-09-060317 no sheen or distressed vegetation

Location Belton, SC Date 6/13/17

Project / Client Lewis Drive / PPL

surface water sampling

1130 SW-08-061317 no sheen or distressed vegetation. water level = 1.04 ft

1140 SW-13-061317 no sheen or distressed vegetation

1210 SW-03-061317 no sheen or distressed vegetation

1235 SW-04-061317 no sheen or distressed vegetation

1240 SW-02-061317 no sheen or distressed vegetation water level = 1.62 ft

1250 SW-01-061317 biosheen, no distressed vegetation water level = 0.98 ft

1305 SW-07-061317 no sheen or distressed vegetation

1315 SW-12-061317 odor, no sheen or distressed vegetation

1325 SW-03-061317 no sheen or distressed vegetation water level = 1.88 ft

1339 SW-05 is dry

1344 SW-06 is dry

Rite in the Rain

Location Belton, SC Date 6/13/17

Project / Client Lewis Drive / PPL

surface water sampling

1349 J. McCann offsite to FedEx and lunch

1430 TB-01-061317 2x40 mL

1613 Dropped cooler off at FedEx

Justine McCann 6/13/17

Location Belton, SC Date 6/26/17 77

Project / Client Lewis Dr/PPL

Groundwater sampling

Objective: Complete gauging and DO readings on monitoring wel
Weather: Sunny, 74/84°F
Personnel: J. McCann/ATL, M. Warren/ATL, M. Sumner/CLT
1133 J. McCann onsite, rest of team present along with S. Powell/ATL, went over HASP
1206 Started gauging wells
1226 No signal from probe in well that has both product and water, begin to troubleshoot
1327 Pine to send another interface probe, team to borrow ECS's probe for day, regauged wells gauged with bad probe
1925 Gauged all MWs except O'Dell well pair - field was being mowed
1937 O'Dell gate locked
Team offsite for day

Justine McCann 6/26/17

Rite in the Rain

Location Belton, SC Date 6/28/17

Project / Client Lewis Dr/PPL groundwater sampling

Objective: begin sampling monitoring wells for BTEXMN (3x40 mL amber glass w/HCl) via HydraSleeve

Weather: sunny, 63/84°F

Personnel: J. McCann/ATL, M. Warren/ATL, M. Sumner/CLT

0712 J. McCann onsite, begin moving equipment into compound

0730 Downloaded game cam photos

0803 Downloaded transducer data, M. Sumner onsite

0855 M. Warren onsite, had health & safety meeting: repetitive motion

0918 Calibrated PID, fine #03570 fresh air = 0.1 ppm, span cal with 100 ppm isobutylene lot# ~~D80~~-248-100-19, exp 3/20 reading = 100.0 ppm

0945 MW-29-062817

0950 MW-26B-062817

Location Belton, SC Date 6/28/17

Project / Client Lewis Dr / PPL

groundwater sampling

0955	MW-20-062817
1012	MW-45B-062817
1020	MW-23B-062817
1028	MW-23-062817
1037	MW-21-062817
1040	MW-21-062817-FD
1050	MW-11-062817
1105	MW-27B-062817
1110	MW-27-062817
1120	MW-01-062817
1125	MW-01B-062817
1130	MW-01B-062817-FD
1145	MW-44B-062817
1148	Dumped purge water
1154	Team to lunch
1233	Returned from lunch
1242	MW-15B-062817
1250	MW-15-062817
1302	MW-34-062817
1308	MW-39-062817
1317	MW-40-062817
1325	MW-41-062817
1334	MW-42-062817
1341	MW-25-062817

Rite in the Rain

Location Belton, SC Date 6/28/17

Project / Client Lewis Dr/PPL groundwater sampling

1348	MW-25B-062817
1355	MW-35-062817
1401	MW-28-062817
1410	MW-12-062817
1414	MW-12B-062817
1426	Decanned weights
1450	Dumped purge water
1502	MW-24B-062817
1509	MW-24-062817 TD = 15.31'
1519	MW-38-062817
1531	MW-37-062817
1546	MW-13B-062817
1558	MW-14B-062817
1601	MW-14-062817
1615	MW-31-062817
1626	MW-17B-062817

1630 Re-did TDs for select wells

MW-17	11.18	DTW
MW-06	19.28	14.87
MW-15	21.22	—

1654 Dumped purge water

1658	FB-01-062817
1703	TB-01-062817 2x40 mL

1707 Team offsite to FedEx

Justine McCann 6/28/17

Location Belton, SC Date 6/29/17

Project / Client Lewis Dr / PFL

groundwater sampling

Objective: begin sampling
low-flow wells (3x40mL w/HCl) BTEXMN
Weather: 65/84°F, sunny
Personnel: J. McCann/ATL, M. Sumner/CLT, M. Warren/ATL
0708 J. McCann onsite, M. Sumner and M. Warren present
0721 Calibrated PID, pine #035570, fresh air: 0.0 ppm
100 ppm Isobutylene: 100.3 ppm
0729 Calibrated YSI, pine# 57C09/1004
temp: 25.55°C pressure: 768.6mm

parameter	pre-cal	post-cal	lot#	exp
1.413 ms/cm	1.428	1.413	16D052	4/18
pH 7	6.99	7.00	260720	7/18
pH 4	3.79	4.00	260816	7/18
pH 10	9.88	9.98	260832	2/18
0 NTU	1.1	0.0	0693065	12/17
126 NTU	122.3	126.0	16M1383A	12/17
240 mV	237.8	246.1	0647	10/21
DO%	103.6	101.3	—	—

0740 FB-01-062917
0750 TB-01-062917
TD=10.32
0804 Setup at MW-22, DTW=9.52

Rite in the Rain

Location Belton, SC Date 6/28/17

Project / Client Lewis Drive / PPL

groundwater sampling

0810 Started pumping MW-22

0816 Well dry, purged ~0.2 gal, will return to sample after allowing recharge

0822 Setup at MW-19 DTW=10.42

0828 Started pumping MW-19 TD=12.12

0832 Well dry, purged ~0.3 gal

0840 Setup at MW-44 DTW=7.57 TD=9.76

0846 Started pumping MW-44

0857 Well dry, purged ~1 gal

0904 Setup on MW-45 DTW=8.40 TD=14.42

0909 Started pumping MW-45

0912 Well dry, purged ~0.3 gal

0925 Setup at MW-13 DTW=20.88 TD=22.15

0930 Started pumping MW-13

0934 Well dry, pumped ~0.3 gal

0936 YSI not connecting to Sonde, went back to compound to troubleshoot

0956 Calibrated YSI, pine #1080/R19985 temp: 24.40°C pressure: 771.6 mm Hg

Location Belton, SC Date 6/29/17

Project / Client Lewis Dr/PPL

groundwater sampling

for standard information, see p. 81

parameter	pre-cal	post-cal
1.413 mS/cm	1.444	1.413
pH 7	7.03	7.00
pH 4	3.78	4.00
pH 10	9.76	9.99
240 mV	239.8	240.0
0.0 NTU	0.4	0.0
126 NTU	120.3	126.0
DO %	101.3	101.4

1020 Setup at MW-30
DTW = 12.21 TD = 14.56
1025 Started pumping MW-30
1030 Well dry, pumped ~0.3 gal
1034 Setup at MW-07
DTW = 12.76 TD = 13.58
1040 Started pumping MW-07
1042 Well dry, pumped 0.2 gal
1055 MW-16-062917
1059 Went to gauge MW-36/MW-36B
1110 MW-36-062917
1113 MW-36B-062917
1115 MW-36B-062917-FD

Rite in the Rain

Location Belton, SC Date 6/29/17

Project / Client Lewis Drive / APL
groundwater sampling

1130	MW-08-062917
1140	MW-09-062917
1145	MW-10-062917
1155	MW-32-062917
1202	Dumped purge water
1206	Team to lunch
1306	Returned from lunch
1315	MW-02-062917 TD=19.85
1320	MW-02B-062917 TD=71.45'
1335	MW-03-062917
1340	MW-04-062917
1350	MW-05-062917
1353	Setup at MW-06
	DTW=14.91 TD=19.10
1359	Started pumping MW-06
1417	MW-06-062917
1420	Stopped pumping MW-06
	purge volume=2.3 gal
1430	MW-07-062917
1440	MW-30-062917
1450	MW-13-062917
1500	MW-44-062917
1515	MW-45-062917
1525	MW-19-062917

Location Belton, SC Date 6/29/17

Project / Client Lewis Drive / DPL
groundwater sampling

1530 MW-22-062917

1532 Loaded car, dumped purget

1546 Took DO readings at stream

station	reading
SW-12	5.06 mg/L
SW-03	4.02 mg/L
SW-13	5.58 mg/L
SW-01	5.35 mg/L

1620 Team offsite

Justine McCann 6/29/17

Location Belton, SC Date 7/17/17

Project / Client Lewis Dr/AFL

Monthly monitoring

Objective: Complete gauging, DO Measurements, and groundwater sampling in select wells for BTEX/MN (3x40 ml amber glass, 8260)

Weather: Partly cloudy. Chance of afternoon storms, 68/84°F

Personnel: J. McCann/ATL, M. Sumner/CLT

0835 Team onsite

0840 Health and safety meeting: slips, trips & falls

0855 started gauging

1235 Finished gauging, team to lunch

1326 Returned from lunch

1340 MW-29-071717

1350 MW-26-071717

1400 MW-23-071717

1420 MW-34-071717

1425 MW-39-071717

1435 MW-40-071717

1440 MW-41-071717

1450 MW-25-071717

Location Belton, SC Date 7/17/17

Project / Client Lewis Dr/PPL

Monthly monitoring

1500 MW-35-071717

1510 MW-28-071717

1520 MW-38-071717

1525 MW-38-071717-FD

1535 MW-31-071717

1550 MW-10-071717

1555 MW-05-071717

1614 Set up at MW-30
DTW=12.69 TD=14.51

1618 Started purging

1622 Well dry, will sample later

1631 Set up at MW-45
DTW=13.55 TD=14.41

1636 Started purging

1639 Well dry, will return later

1650 MW-30-071717

1710 MW-45-071717

1715 FB-01-071717

1718 TB-01-071717

1720 Dumped purge water

1722 Team offsite for day

Justine McCann 7/17/17

88

Location Belton, SC Date 7/18/17

Project / Client Lewis Dr/PPL

monthly monitoring

Objective: Mark new well locations, sample surface water for BTEXN (3x40 mL amber glass, 8260), collect transducer data.

Weather: mostly sunny, 74-88°F

Personnel: J. McCann/ATL, M. Sumner/CHT

0705 Team onsite

0717 Health & Safety meeting: biological hazards

0720 Begin marking new well locations

0830 Finished marking well locations, started walk to SW-11

0900 SW-11-071817 no sheen or distressed vegetation

0915 SW-10-071817 no sheen or distressed vegetation, water level = 0.30 ft

0925 FP-01-071817 no sheen or distressed vegetation

0935 FP-02-071817 pollen film, no distressed vegetation

Location Belton, SC Date 7/18/17

Project / Client Lewis Dr / APL

monthly monitoring

0945 SW-09-071817 no sheen or distressed vegetation

1000 SW-08-071817 no sheen or distressed vegetation water level = 1.06 ft

1010 SW-13-071817 biosheen, no distressed vegetation

1020 SW-04-071817 no sheen or distressed vegetation

1025 SW-02-071817 no sheen or distressed vegetation, water level = 1.67 ft

1035 SW-01-071817 no sheen or distressed vegetation, water level = 0.96 ft

1040 SW-07-071817 no sheen or distressed vegetation

1042 R. Phillips / AE onsite to look at new well locations. Informed him that most would only need bushwhacked Looked at path to MW-4/3R determined best course of action was to lay mats

Rite in the Rain.

Location Belton, SC Date 7/18/17

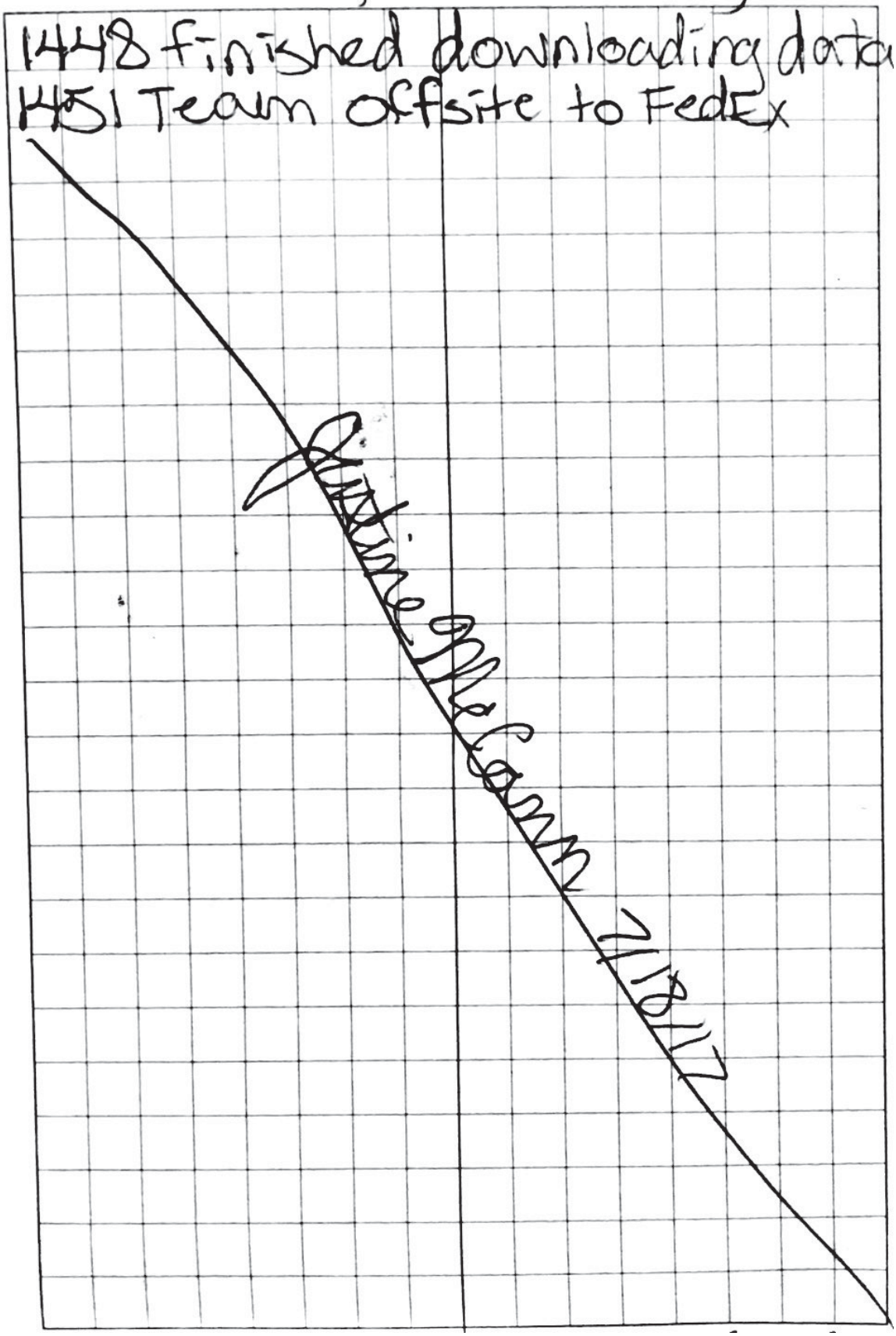
Project / Client Lewis Drive / PPL monthly monitoring

	across creek
1102	R. Phillips offsite
1105	SW-12-071817 odor, no sheen or distressed vegetation
1115	SW-03-071817 no sheen or distressed vegetation, water level = 1.78 ft
1155	FP-03-071817 no sheen or distressed vegetation
1215	Team to lunch
1245	Returned from lunch
1255	SW-05 is dry
1300	SW-06 is dry
1320	SW-14-071817 no sheen or distressed vegetation *SW-14 is on north side of upper O'Dell pond next to tree, go through 3 gates, left behind barn, and through another gate
1330	IB-01-071817
1331	Decomed weights
1344	Started downloading transducer data

Location Belton, SC Date 7/18/17

Project / Client Lewis Drive/APL
monthly monitoring

1448 finished downloading data
1451 Team offsite to FedEx



8/01/17

Objective - Groundwater gauging and sampling at PPL Lewis Dr.

Weather - Site 88°/65°; Sunny

personnel - M. Teckle/CLT, M. Sumner/CLT

Equipment - water level meter/interface probe, DO meter/optical/, YSI peristaltic pump, and hand tools.

Daily log

0920 - M. Teckle arrived at Lewis Dr. Site and met M. Sumner

0925 - Sign PTSP

0930 - Begin groundwater gauging (see gauging sheet)

1250 - Finished gauging all wells

1255 - Lunch

1340 - Back to the site

1345 - Got materials to collect groundwater samples using hydrasleeve

1356 - went to collect groundwater samples.

1400 - Collected MW-26-080117

1410 - Collected MW-23-080117

1420 - Collected MW-29-080117

1435 - Collected MW-34-080117

1440 - Collected MW-39-080117

1450 - Collected MW-40-080117

1455 - Collected MW-41-080117

1500 - Collected MW-25-080117

1510 - Collected MW-35-080117

1520 - Collected MW-38-080117

1530 - Collected MW-31-080117

1535 - Collected MW-31-D-080117

1540 - Collected MW-05-080117

1555 - Collected MW-10-080115

1600 - Finished groundwater sampling using hydrasleeve.

1605 - Collected field blank FB01-080117

1610 - Trip blank TB01-080117

1620 - packed cooler and filled COCs.

1635 - Dump ~1 gal. IDW water into the frac tank.

1637 - went to FedEx to ship samples.

PPL · Lewis Dr Site
Belton, SC

8/2/17

Objective - Finish groundwater and surface water sampling and download transducer data from five wells.

Weather - 87°/65°, P. Cloudy

Personnel - M. Tekle/CLT, M. Sumner/CLT

Equipment - Peristaltic pump, YSI, Interface probe, Hand tools, and PID.

Daily Log

0715 - M. Tekle & M. Sumner met at the site
0720 - Sign PTSP
0723 - Begin Low flow Sampling.
0725 - Setup on MW-22
0733 - Begin purging well (MW-22)
0735 - well went dry after filling the flow through cell on the YSI.
0740 - Set up on MW-45
0745 - Begin purging well and well went dry
0746 - left tubing in the well to let it recharge.
0750 - Went to MW-28
0810 - Set up on MW-28
0815 - Begin purging well
0821 - well went dry and left tubing in the well to let it recharge.
0825 - went to MW-30
0830 - Set up on MW-30
0835 - Begin purging
0836 - well went dry and left tubing in the well to let it recharge

8/2/17

(MT) 0838 - Went to Collect Surface water samples.

0905 - Collected SW11 - 080217 ✓
0915 - Collected SW10 - 080217 ✓
0920 - Collected FP01 - 080217 ✓
0925 - Collected FP02 - 080217 ✓
0930 - Collected SW09 - 080217
0935 - Collected SW08 - 080217 ✓
0945 - Collected SW13 - 080217 ✓, DO = 2.84 mg/L
0950 - Collected SW04 - 080217 ✓
0955 - Collected SW02 - 080217 ✓
1000 - SW-07 was dry
1005 - Collected SW01 - 080217 ✓, DO = 2.33 mg/L
1015 - Collected SW12 - 080217 ✓, DO = 5.02 mg/L
1020 - Collected SW03 - 080217, DO = 2.64 mg/L
1035 - Collected MW-28 - 080217 ✓
1105 - Collected MW-30 - 080217 ✓ → 1050 - FP03-080217 collected
1115 - Collected MW-45 - 080217 ✓
1125 - Collected ~~MW-14~~ (MT) SW14 - 080217 ✓
1130 - SW-05 and SW-06 were dry
~~1235 - Collected MW-22 - 080217~~ (MT)
1135 - Checked MW-22 and well is still dry.
1145 - Lunch
1230 - Back from Lunch
1240 - Checked MW-22 and well is still dry.
1255 - Went to download transducer data from

8/2/17

Daily Log Cont'd

1305 - Downloaded data from barotroll at MW-01
1315 - Downloaded data (transducer) from MW-15 (memory used = 15%, battery used = 3%)
1330 - Downloaded transducer data from MW-25 (memory used = 25%, battery used = 22%)
1339 - Downloaded transducer data from MW-10 (memory used = 25%, battery used = 22%)
1358 - Downloaded transducer data from MW-20 (memory used = 15% Battery used = 3%)
1400 - packed coolers & filled COCs.
1405 - Decon hydrasleeve sampling weights.
1407 - Retrieve hydrasleeve weight and bags to the System building.

NOTE - Only six hydrasleeve bags are remaining and additional order is needed.

1410 - Dump ~1 gal. purge water into the frac tank
1415 - off site and went to fedex to Ship Samples.

Location BELTON, SC Date 09/05/2017

Project / Client LEWIS DR.

AUTHOR: M. WARREN

TASK: GROUNDWATER AND SURFACE WATER SAMPLING

TEAM: M. WARREN (BIO/FTL), K. SEXTON (GEO), M. TRAMONTE

EQUIPMENT: MINIRAE 3000 ID: 36353
LOT # 592-917419 / ISOBUTYLENE
LOT # FBH-248-100-1.
SOLINST INTERFACE METER
MODEL 122 / 037341.

0830: M. WARREN ARRIVES ON SITE. M. TRAMONTE AND K. SEXTON PRESENT ON SITE. MW

0840: TEAM HOLDS PTSP AND SAFETY SHARES

0850: BEGIN CALIBRATION OF MINIRAE 3000 S/N 36353 - zero calib. and Span Calib. - isobutylene 99.9%

0935: TEAM BEGINS DEPTH OF WATER AND TOTAL DEPTH IN BIC CLIPBOARD CREEK WELLS.

	TOTAL DEPTH	DTW	PID
MW-29	14.95	10.44	0.4
TW-73	12.75	9.21	0.3
MW-19	~~11.73~~ 12.15 MW	~~12.15~~ 11.73 MW	12,178

0945: M. WARREN AND K. SEXTON SPLIT

MW

Location BELTON, SC Date 09/05/2017

Project / Client LEWIS DR.

AUTHOR: M. WARREN

OFF FROM M. TRAMONTE TO COLLECT SURFACE WATER SAMPLES. M. TRAMONTE CONTINUES TO GUAGE WELL WATER DEPTHS.

1120: TEAM ARRIVES TO SW-11:
SW01 (SW11) - ~~09/05/17~~ 090517

1145: TEAM ARRIVES TO SW-10:
SW10 - 090517 (WL = 0.67 ft)

NO VISIBLE SHEEN ON WATER.

1210, TEAM ARRIVES TO FP-01:
~~FP-01~~ (2) FP01-090517

BIOLOGICAL SHEEN ON WATER

1220: TEAM COLLECTS FP-02 SAMPLE:
~~1225: TEA~~ FP02-090517

1225: TEAM COLLECTS SW-09:
SW09 - 090517

1245: TEAM COLLECTS SW-08:
SW08 - 090517 (WL = 1.43 Ft)

1300: TEAM COLLECTS SW-13:
SW13 - 090517

1400: COLLECTS FP03: FP03-090517

1515: COLLECTS SW04: SW04-090517

1520: COLLECTS SW02: SW02-090517

1530: COLLECTS SW01: SW01-090517

Location BELTON, SC Date 09/05/2017

Project / Client LEWIS DR.

AUTHOR M. WARREN

1545: COLLECTS: SW03-090517
1550: COLLECTS: SW12-090517
1620: COLLECTS: SW14-090517
1640: COLLECTS: TB-090517
1645: COLLECTS: SW12-090517-DUP
1655: COLLECTS: FB-090517
1700: TEAM DEPARTS FIELD TO PREPARE SURFACE WATER SAMPLES FOR SHIPMENT.

*WATER DEPTHS AT SW05, SW06, AND SW07 WERE DRY.

WATER LEVEL OF:

SW08 = 1.43ft
SW10 = ~~090~~ 0.67 ft
SW02 = 1.58ft
SW03 = 1.48ft

*NO VISIBLE SHEEN OR DISTRESSED VEGITATION ALONG SW MONITORING ZONES.

09/05/2017

Location BELTON, SC Date 09/06/17

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

TASK: GROUNDWATER LEVEL GAUGING AND DO MEASUREMENTS.

TEAM: M. WARREN (BIO/FTL), K. SEXTON (GEO) M. TRAMONTE (ENV. SCI)

WEATHER: MID 70'S, OVERCAST, 100% HUMID POSSIBLE POP UP THUNDERSTORMS

EQUIPMENT: SEE PAGE 3. ADDITIONAL EQUIPMENT: SOLINST 037326 INTERFACE METER MODEL 122. YSI PROODO ID# 35562

0530: TEAM OBSERVES H&S PLAN AND STAYS OUT OF FIELD DUE TO THUNDER.

0900: TEAM DEPARTS HOTEL TO FIELD

0915: TEAM ARRIVES ON SITE TO GEAR UP AND HOLD PTSP.

0930: BEGIN MINI RAE CALIBRATION:

	BEFORE CAL	AFTER CAL
AIR	0ppm	0ppm
VOC	0ppm	100ppm

0945: TEAM BEGINS GAUGING MONITORING WELLS MW-34:

1009: 36.0ppm DTW 2.53 DTB 7.86

1011: MW-39 58.3ppm DTW 5.50 DTB 13.01

Location BELTON, SC Date 09/06/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

1015: MW-40 1113ppm DTW 2.88 DTB 13.18
1021: MW-41 2.3ppm DTW 4.49 DTB 13.20
1025: MW-42 1.0ppm DTW 5.16 DTB 13.40
1028: MW-25B 0.4ppm DTW: 5.62 DTB: 62.2 DO:
1030: MW-25 0.1ppm DTW: 8.83 DTB: 14.4 DO: 0.68
1038: MW-28 1205ppm DTW: 23.48 DTB 25.93 DO: 0.4
1047: MW-35 3.3ppm DTW: 9.74 DTB 28.42
1055 SW-03 DO: 2.36 DEPTH: 1.59
1100 MW-12 2712ppm DTW: 14.84 DTB: 19.09 DO: 7.9
1105 MW-12B ~~27+2~~ 10.7 ppm DTW: 15.2 DTB: 45.81 DO: 0.7
1110 SW-12 DO: 2.60 *SPARGE SYSTEM OFF
1118 MW-15 12.8ppm DTW: 13.87 DTB: 21.23 DO: 7.9
1123 MW-15B 26.1 PPM DTW: 16.40 DTB: 74.41 DO: 0.9
1135 MW-37 0.1 PPM DTW: 3.46 DTB: 18.11
HEAVY RAINS BEGIN. TEAM BREAKS FOR LUNCH
1230 TEAM RETURNS FROM BREAK. RAIN STOPS
1240 MW-38: 0.3ppm DTW: 1.88 DTB: 11.61
1246 SW-01 DO = 6.65
1250 MW-24: 2.7ppm DTW: 4.47 DTB 15.32
1252: MW-24B: 0.5ppm DTW: 5.83 DTB 45.10
1255: SW-02 DO = 4.9 DEPTH = 1.2in
1303: MW-13 184.4ppm DTW: 21.85 DTB: 22.1
1307 MW-13B 3.0ppm DTW: 23.70 DTB: 47.9
1310 MW-14 0.0ppm DTW: 18.08 DTB: 22.20

Location BELTON, SC Date 09/06/17

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

1314 MW-14B 4.2ppm DTW 18.84 DTB 76.97

1326 MW-31 0.1ppm DTW 20.35 DTB 28.20

1329 MW-31B 1.3ppm DTW 20.34 DTB 51.3?

1345 MW-33T 0.7ppm DTW 26.71 DTB 100.35

1348 MW-33 0.1ppm DTW 25.30 DTB 28.30

1405 MW-10 1.8ppm DTW 13.50 DTB 23.54 DO 1.

1413 TW-96 1.6ppm DTW 9.28 ~~DTB~~ 28.76 DO 9.

1416 MW-32 0.0ppm DTW 12.32 DTB 29.09

1420 MW-03 PRESSURE TOO HIGH TO ~~TAKE~~ TAKE ACCURATE AND SAFE READINGS

1429 MW-30 104.27ppm DTW 14.56 DTB 14.69

☆TOO SHALLOW TO TAKE ACCURATE DO.

1432 TEAM NOTICES AIR COMING FROM WELLS

1439 TW-90 ———————————

1447 MW-02B 3.6ppm 1.94 DTW DTB 72.50 DO 1.54

1454 MW-02 5002ppm 4.21 DTW DTB 19.84 (6.2)

1514 MW-04 0.3ppm DTW 11.07 DTB 19.59 DO 7.6

1510 MW-05 0.1ppm DTW 16.50 DTB 19.89

1529 MW-09: 532.1ppm ~~DTB~~ DTP 2.81 DTW 3.00 DTB 20.2

☆PRODUCT PRESENT. DO = ND

1539 MW-08 0.1ppm DTW 11.92 DTB 16.69

DO = 8.59

1547 MW-18 5500ppm DTP 12.68 DTW 12.71

☆PRODUCT PRESENT. ~~DO = ND~~ DTB 19.

DO = 9.31

Location BELTON, SC Date 09/06/17

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

1557 MW-07 79.5ppm DTW 13.20 DTB 13.62
1606 MW-06 0.5ppm DTW 15.34 DTB 19.20
1613 MW-16 1216ppm DTP 8.95 DTW 9.10 DTB 23
1632 MW-36 59.1ppm DTW 19.82 DTB 23.65
DO = 0.5
1638 MW-36B 0.9 PPM DTW ~~20.~~ 19.53 DTB 47.54
DO = 0.9
1652 MW-17 58) ppm DTW 16.71 DTB 27.50
1656 MW-17B 234.7PPM DTW 10.85 DTB 11.20
1700 MW-21 71 PPM DTW 17.34 DTB 28.93
1707 MW-45B 2.7PPM DTW 14.19 DTB 14.45
1709 MW-45 0.5PPM DTW 15.70 DTB 21.51
1715 MW-23 2.7PPM DTW 11.22 DTB 23.50
1717 MW-23B 0.2PPM DTW 11.21 DTB 33.00
1721 MW-26 4.8 PPM DTW 7.18 DTB 12.15
1722 MW-26B 0.4PPM DTW 8.95 DTB 43.84
1727 MW-29 0.3 PPM DTW 10.41 DTB 15.10
*DO METER BATTARY DIED.
1740 MW-19 4110 PPM DTW 11.76 DTB 12.13
1742 TW-73 0.2PM DTW 9.20 DTB 26.46
1741 MW-20 2612PPM DTP 12.99 DTW 13.71
DTB 19.45
1748 TW-67 138.3PPM DTW 13.52 DTB 26.47
1800 TEAM DEPARTS FIELD. 09/06/17

Location BELTON, SC Date 09/~~06~~07/17

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

TASK: GROUNDWATER AND DO SAMPLING. COMPLETE WATER LEVEL GAUGING

TEAM: M. WARREN (BIO/FTL) M. TRAMONTE (ENV. SCI), K. SEXTON (GEO)

WEATHER: HUMID, HIGH MID 80's, SUNNY GROUND STILL WET FROM STORMS

EQUIPMENT: SOLINST 037326 INTERFACE METER MODEL 122. YSI PRODO ID# 35562. MINIRAE 3000 ID# 36353 SERIAL # 592-917414 LOT# FBH-248-100-1

0700: TEAM DEPARTS HOTEL.

0720: TEAM ARRIVES ONSITE TO GEAR UP AND HOLD PTSP.

0730 BEGIN CALIBRATION MINIRAE:

	BEFORE CAL	AFTER CAL
AIR	0.0	0
VOC	0.0	100.0

0745: TEAM MOVES TO HAYFIELD ZONE TO COLLECT DATA FROM REMAINING TW-WELLS.

0755 TEAM ARRIVES TO TW-64

0758 TW-64 0.0ppm DTW 17.05 DTB 52.85 DO = 4.38

Location BELTON, SC Date 09/07/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

0826 TW-~~96~~64 9.1ppm 2.45 DTW
DTB 23.62 DO = 8.93

0835 TW-59 0.5ppm DTW 15.34 DTB 21.15
DO NOT MEASURED DUE TO
MOVEMENT OF CONCRETE SLAB
OVER PIPE. PHOTO TAKEN.

0842 TW-60 > 15,000ppm TEAMSTEPS
BACK. DTW 10.11 DTB 30.25
DO = 5.65

0845 MW-11 1836ppm DTP 29.69 DTW 30.04
DTB 32.50 DO = 7.89

0847 MW-27B 29ppm ~~DP 30.26~~ DTW ~~30.06~~ 30.07 DTB 41.45 DO 7.96

0849 MW-27B 0.2ppm DTW 27.28
DTB 29.51 DO = 7.79

0850 MW01 0.0ppm 8.30 DTW 15.61 DTB DO=3.4

0852 MW-01B 0.0ppm ~~15~~. DTW 10.78 DTB 45.26
DO = 0.85

0856 MW-44 0.0ppm DTW ~~19~~ 9.38 DTB 9.82

0857 MW-44B 0.0ppm DTW 13.95 DTB 30.62

0859 MW-22 > 15000ppm DTW 10.35 DTB 10.35

0900 TEAM RETURNS TO TRUCK
TO BEGIN CALIBRATION OF
YSI AND COMPUTE DATA FOR
HYDRASLEEVE VS. LOW FLOW

Rite in the Rain

12 Location BELTON, SC Date 09/07/17

Project / Client LEWIS DR

AUTHOR: M. WALKER

0900 TEAM BEGINS YSI CALIBRATION SONDE 33704, HANDHELD 18903. PINE CONDUCTIVITY SOLUTION RECEIVED IN AN UNSEALED CONTAINER. LOT 6GK200 EXP 11-2017.

PARAMETER	LOT#/EXP#	BEFORE	AFTER
Ph 4	2612C90 7/2017	3.59	4.0
Ph 7	7601CE55 EXP 10/2018	7.19	7.01
Ph 10	66L207 12/31/2018	10.05	10.01
0.0 NTU	C687639 12/31/17	1.1	0.0
126.0 NTU	16N693064 12/17	100.7	126.1
1.413 COND	6GK200 11/2017	1.276	1.413
DO	—	100.6%	100.6%
ORP	0647 10/2021	260.8	240.4

0945: TEAM COMPLETES CALIBRATION AND MOVES TO MW-28 TO COLLECT PURGE DATA.

Location BELTON, SC Date 09/07/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

10:30 TEAM PURGES AND COLLECTS WATER DATA FROM MW-27B

11:20 TEAM COLLECTS GAUGE DATA FROM SW01 = 0.96 Ft

1200 TEAM BREAKS FOR LUNCH

1300 RETURN FROM LUNCH, SET UP ALL EQUIPMENT FOR HYDRASLEEVES

1335 MW-29-090717

1352 MW-26B-090717

1355 MW-26B-090717-DUP

1408 MW-26-090717

1314 MW-19 = 0.85 = DO

1351 MW-20 = 0.45 = DO

1334 MW-29 = 6.50 = DO

1356 TW-67 = 9.15 = DO

1421 MW-23-090717

1418 TW-73 8.9 = DO

1432 MW-23B-090717

1500 BEGIN LOW FLOW ON MW-27

1529 MW-27B-090717

1554 MW-01-090717

1607 MW-01B-090717

1620 MW-44B-090717

Rite in the Rain

Location BELTON, SC Date ~~07/7~~ 09/07/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

1636 FB-090717

1634 JB-090717

1649 NORTH TANK 0.32 ft

SOUTH TANK 1.19 ft

1700 TEAM DEPARTS FIELD.

09/07/17

Location BELTON, SC Date 09/08/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

TASK: HYDRASLEEVE / DO MEASUREMENTS

TEAM: M. WARREN (BIO/FTL), M. TRAMONTE (ENV. SCI), K. SEXTON (GEO)

WEATHER: HUMID, HIGH MID 80'S, SUNNY. GROUND WET FROM RAIN.

EQUIPMENT: MINIRAE 036950; LOT# FBH2481001; YSI PROODO ID # 35562.

0700 TEAM DEPARTS HOTEL TO FIELD.

0720 TEAM ARRIVES ON FIELD

0730 K. SEXTON BEGINS CALIBRATION OF MINIRAE:

	BEFORE CAL	AFTER CAL
AIR	0.0	0.0
VOC	0.0	100.0

0745 TEAM PREPARES EQUIPMENT FOR SAMPLING.

0830	MW-27-090817
0852	MW-28-090817
0908	MW-15-090817
0918	MW-15B-090817
0932	MW-34-090817
0941	MW-39-090817
0951	MW-37-090817

Location BELTON, SC Date 09/08/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

0958	MW-38-090817
1006	MW-24-090817
1015	MW-24B-090817
1037	MW-40-090817
1045	MW-41-090817
1056	MW-42-090817
1106	MW-25B-090817
1108	MW-25B-090817-DUP
1110	MW-25-090817 DO=0.68
1120	MW-35-090817
1130	MW-12-090817
1135	MW-12B-090817
1227	MW-14-090817
1232	MW-14B-090817
1242	MW-13B-090817
1246	MW-31-090817
1305	MW-10-090817
1315	MW-32-090817
1321	MW-02B-090817
1325	MW-02-090817
1330	MW-04-090817
1340	MW-04-090817-DUP
1350	MW-05-090817
1360	MW-06-090817

Location BELTON, SC Date 09/08/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

1422	MW-17-090817
1430	MW-08-090817
1505	FB-090817
1510	TB-090817
1511	MW-45 DRY BETWEEN 09/07/17 AND 09/08/17
1525	MW-36-090817
1530	MW-36B-090817
1600	CENTER OF TANK IS 5.5 Ft TALL. DOME SHAPED. EDGES ARE 4.3 Ft TALL.

0921 SW13: ODO = 1.79

0940 SW01: ODO = 3.03

0955 SW12: ODO = 5.61

1010 SW03: ODO = 7.72

MW-44 = 2.72

MW-44B = 0.68

TROLL DATA

- troll data taken by Kyle S.
- troll taken from MW08 and moved to MW40

09/08/17

Rite in the Rain

Location BELTON, SC Date 10/3/2017

Project / Client LEWIS DR.

AUTHOR: M. WARREN

TASK: WELL GAUGING AND GROUNDWATER MONTHLY SAMPLING EVENT.

TEAM: M. WARREN (ETL/BIO), K. SEXTON (GEO)

WEATHER: SUNNY, MID 70'S

EQUIPMENT: RAE SYSTEMS MINIRAE 3000
ID# 37359 / PART # 31721 /
SDS# 50054 / EXP JUL 2020
SOLINST INTERFACE METER
MODEL 122 # 287064
YSI PRO ODO SONDE, #R12315 /
LOT # 11E100436 / PUMP # 029486
EXO 1 SONDE SONDE ID# 30194
DISPLAY ID # 35729

0755 M. WARREN ON SITE,
0800 K. SEXTON ON SITE.
0805 TEAM HOLDS PTSP AND DISCUSSES PLAN FOR DAY.
0810 BEGIN MINIRAE CALIBRATION

	BEFORE	AFTER
AIR	0.0	0.0
VOC	99.6	100.0

0820 BEGIN YSI CALIBRATION

SOLUTION	LOT#	EXP
PH4	2612C90	12/2018

Location BELTON, SC Date 10/3/2017

Project / Client LEWIS DR.

AUTHOR: M. WARREN

0820 CONT YSI CALIBRATION

SOLUTION	LOT #	EXP
PH 10	2703951	8/18
pH 7	26010E85	10/18
ØNTU	C795645	04/18
126.ØNTU	16M693064	12/17
1.413 mS/cm	7GD052	04/18

0840 BEGIN CALIBRATION

PARAMETER	BEFORE	AFTER
PH 4	4.15	~~3.83~~ 3.95
pH 7	7.14	7.13
pH 10	~~10.14~~	10.02
ØNTU	Ø	0.01
126.ØNTU	120.13	126.01
1.413 mS/cm	1.226	1.412

0900 RECALIBRATION FOR PH

~~PH 7~~ PH	BEFORE	AFTER
PH 7	7.11	7.11
pH 10	10.18	10.07
~~PH 4~~	4.15	4.10

NOTE: PH CALIBRATION FINAL SCREEN ON YSI IS USED FOR FINAL CALIBRATION

Rite in the Rain

Location BELTON, SC Date 10/03/2017

Project / Client LEWIS DR

AUTHOR: M. WARREN

0910	PH	BEFORE	AFTER
	pH 7	7.11	7.00
	pH 10	10.18	10.00
	pH 4	4.15	4.02

0920 ORP BOTTLE FOR CALIBRATION NOT PRESENT IN YSI CASE. K. SEXTON SPOKE W/ TIM FROM PINE. PH SOLUTIONS ARE ACCURATE; THEREFORE, ORP SHOULD BE ACCURATE.

0930	ODO mg/L	Before	After
	9.09	9.18	9.07

0940 MW-29

0950 ~~MW-~~ TW-73

0958 MW-19

1005 MW-20

1013 TW-67

1022 MW-23 1.0ppm DTW 11.52 DTB 23.23

1027 MW-26 0.0ppm DTW 7.71 DTB 17.33

1037 MW-22

1046 MW-01

1050 MW-01B

1100 MW-11

1111 MW-15B

Location BELTON, SC Date 10/03/2017

Project / Client LEWIS DR.

AUTHOR: M WARREN

1114	MW-15
1133	MW-38 DTW 2.23 DTB 11.49
1143	MW-34 DTW 2.76 DTB 17.83
1147	MW-39 DTW 3.75 DTB 13.06
1150	MW-40 DTW 1.95 DTB 13.19
1156	MW-41 DTW 4.37 DTB 13.20
1159	TW-66
1207	MW-25
1210	MW-25B
1218	MW-35 DTW 10.34 DTB 29.65
1230	TW-59
1238	MW-12
1240	MW-12B
1247	TW-60
1300	TEAM BEGINS LUNCH BREAK
1335	TEAM COMPLETES LUNCH BREAK
1345	TEAM DEPARTS TO PRIVATE WELL
1400	TEAM ARRIVES TO PRIVATE WELL TO ASSESS SPIGOTS FOR WATER SAMPLING.
1410	TEAM RETURNS TO LEWIS DR. TO CONTINUE GAUGING
1426	MW-31 DTW 22.70 DTB 28.06
1433	TW-64
1223	MW-28

Location BELTON, SC Date 10/03/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

1459	MW-02
1450	MW-02B
1510	MW-10
1515	TW-96
1521	MW-03
1530	MW-30
1535	MW-04
1555	MW-05 DTW 17.03 DTB 19.8
1600	TW-55
1614	MW-08
1620	MW-18
1626	MW-16
1635	MW-07 DTW 13.20 DTB 13.60
1644	MW-45 DTW 14.25 DTB 14.44
1652	MW-09
1737	TEAM BEGINS LOW FLOW ON MW-28

DEPTH TO WATER: 23.78

PID INT ~~22.83~~ 2283.0

2" DIA = 0.163 GAL/FT

DEPTH TO BOTTOM: 26.04

LOW FLOW

PERISTALTIC 040187

200 ML/MIN

Location BELTON, SC Date 10/03/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

TIME	DTW	FLOW	VOL(G)	Ph	TEMP	COND	ORP
~~1412~~	24.65	200	~~200~~ 0.1@	6.77	23.9	9.7	Ø
1712	DO	TURB					
	1.89	686.84					
~~1417~~	DTW	FLOW	VOL	Ph	TEMP		
1717	24.29	200	.2	7.17	20.21		
	COND	ORP	DO	TURB			
	2.6	Ø	5.64	4.51			

PID = 1.83

1418 SEDIMENT CLOG IN TUBING,
1718 VERY DARK SEDIMENT. UNCLOG TUBING AND RESTART MEASUREMENTS WATER IS NOT PUMPING FROM WELL. TEAM TROUBLESHOT W/ SECOND PUMP. TEAM CHECKED TUBE CONNECTIONS FOR LEAKS. NO CLOGS.

1900 TEAM DEPARTS FIELD.

10/03/17

Location BELTON, SC Date 10/04/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

1015	MW-40-100417
1031	MW-41-100417
1041	MW-25-100417
1051	MW-35-100417
1112	MW-29-100417
1122	MW-26-100417
1132	MW-23-100417
1135	MW-23-100417-DUP
1155	TEAM BEGINS LUNCH BREAK
1230	BEGIN YSI CALIBRATION

PARAMETER	BEFORE	AFTER
pH 4	3.92	~~4.8~~ 3.99
pH 7	6.96	7.00
pH 10	9.97	10.00
Ø NTU	0.29	0.0
126.Ø NTU	116.98	125.99
1.413 MS/COND	1.4034	1.4128
~~ORP~~ DO	8.56	9.12

1311	FB01-100417
1317	TB01-100417
1312	K. SEXTON COLLECTS TROLL DATA FROM MW-20 AND MW01.
1342	TEAM DEPARTS TO PRIVATE WELLS.

Location BELTON, SC Date 10/04/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

1346 TEAM ARRIVES TO SHERRARD RD HOUSEHOLD WELL.

1355 ENVIRON CHANDLER-HH-W-100417

1400 PACE CHANDLER-HH-W-100417

PARAMETER	TIME 1	TIME 2	TIME 3
pH	3.97	5.31	5.50
DO	8.88	4.45	4.58
~~COND~~ ~~ORP~~	6.0	72.5	63.7
TURB	1.92	2.30	Ø
TEMP	23.734	23.804	22.830
PID	0.0	0.0	0.0
~~LEVEL~~ FLOW	.5GAL/MIN	.3GAL/MIN	.3GAL/MIN
ORP*	314.0	278.9	275.8

1419 TEAM ARRIVES TO SHERRARD RD. AGRICULTURAL WELL.

1425 ENVIRON CHANDLER-AG-W-100417

1430 PACE CHANDLER-AG-W-100417

PARAMETER	TIME 1	TIME 2	TIME 3
pH	5.93	5.72	6.09
DO	8.35	7.33	7.76
COND	1.4	166.9	3.1
TURB	6.47	657.62	522.84
TEMP	32.498	26.018	23.392
PID	0.0	0.0	0.0
FLOW	0.2GAL/MIN	0.2GAL/MIN	0.2GAL/MIN
ORP*	314.1	298.4	290.6

Location BELTON, SC Date 10/04/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

1442 TEAM ~~COLLECTS~~ COMPLETES SAMPLING PARAMETERS FOR HOUSEHOLD AND AGRICULTURAL WELL.

NOTE HHW: CONTINUOUS FLOW OCCURS ON PROPERTY. WE ONLY PURGED FOR 1/2 GAL BEFORE COLLECTING PARAMETERS OVER A PERIOD OF 5 MINS.

NOTE AG-W: CONTINUOUS FLOW DOES NOT OCCUR ON PROPERTY, ONE 5 GALLON BUCKET WAS PURGED FROM WELL BEFORE COLLECTION OF PARAMETERS BEGAN. COLLECTION OF PARAMETERS OCCURED OVER A PERIOD OF 5 MINS.

1500 K. SEXTON SPLITS OFF TO COLLECT TROLL DATA FROM: MW-12, MW-15, MW-02, MW-10, MW-40

K. SEXTON ALSO COLLECTS CO_2 CHAMBERS.

M. WARREN COMPLETES COC's AND ORGANIZATION/INVENTORY OF SUPPLIES IN COMPOUND.

Location BELTON, SC Date 10/04/2017

Project / Client LEWIS DR.

AUTHOR: M. WARREN

1600 M. WARREN MEETS WITH K. SEXTON TO COMPLETE COLLECTION OF CO_2 CHAMBERS

1645 M. WARREN & K. SEXTON GEAR DOWN FROM EVENT.

1700 TEAM DEPARTS TO FEDEX

1800 TEAM COMPLETES SHIPMENT

*NOTICED FLAT TIRE ON SUV. K. SEXTON AND M. WARREN CHANGE TIRE.

1900 TEAM DEPARTS FEDEX.

10/04/2017

Location BELTON, SC Date 11/7/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

TASK: GROUNDWATER SAMPLING

TEAM: M. WARREN (FTL/BIO), K. SEXTON (GEC)

WEATHER: FOGGY, MID 60'S, CHANCE OF T-STORMS, AND HUMID

EQUIPMENT: MINIRAE 3000 13914 SN: 592-902206. PROPO R12315/ IID 102221. SOLINST INTERFACE METER MODEL 112 G37341/288484. ISOBUTYLENE 100 PPM LOT#: MBG-248-100-15 EXP: 01/07/2021. EXO 1 SONDE#: 30192/ DISPLAY ID # 36636.

0745 M. WARREN AND K. SEXTON ON SITE

0800 TEAM HOLDS PTSP AND DISCUSSES PLAN FOR DAY

0810 BEGIN MINIRAE CALIBRATION

	BEFORE	AFTER
AIR	0.0	0.0
VOC	0.0	100.0

0815 CALIBRATION OF DO METER BEFORE: 103.3 AFTER: 100.3

0850 TEAM BEGINS WATER LEVEL/DO GAUGING & PID

Rite in the Rain

30 Location BELTON, SC Date 11/17/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

0856 MW-29

TW-67 ↳ 0901 (MW)

0905 TW-73

0907 MW-19

0917 MW-20 (PRODUCT)

0930 MW-26

0935 MW-23

0938 MW-45

0947 MW-22

0958 MW-01

MW-01B ↳ 1000

1009 MW-11 (PRODUCT)

1018 MW-13B

1026 MW-31

1032 TW-64

1041 MW-09

1048 MW-10

1054 MW-02

1056 MW-02B

1105 TW-96

1111 MW-03

1121 MW-30

1130 MW-04

(MW) 1134 MW-05

1140 TW-55

Location BELTON, SC Date 11/7/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

1152 MW-07
1201 MW-16
1208 MW-18 (PRODUCT)
1214 MW-08
1220 TEAM RETURNS TO TRUCK AND BEGINS LUNCH BREAK.
1310 TEAM RETUNS FROM LUNCH
1324 MW-43
1330 SW-01
1336 MW-38
1340 SW-13
1349 MW-15
1354 MW-15B
1400 MW-34
1404 MW-39
1408 MW-40
1415 SW-12
1418 MW-41
1421 TW-66
1426 MW-42
1430 MW-25
1432 MW-25B
1440 MW-35
1442 SW-03
1450 MW-28

32

Location BELTON, SC Date 11/7/17

Project / Client LEWISPR.

AUTHOR. M. WARREN

1504 TW-59

1510 MW-12B

1515 MW-12

1520 TW-60

1522 T-STORMS BEGIN. TEAM SHELTERS INTRUCK.

1557 TEAM BAILS TW-67 FOR PRESENCE OF PRODUCT. NO PRODUCT DETECTED. COLLECTS DO MEASURMENT

1635 TEAM RETURNS TO TRUCK TO BEGIN CALIBRATION OF YSI

PARAMETER	LOT #	EXP
240.0mV ORP	0207	05/31/2021
PH 4	7GH056	08/2019
PH 10	7G654B	07/2019
PH 7	7GH158	8/2018
1.413 MS/cm	766708	JUL/18
0 NTU	C800982	10/2018
126.0 NTU	17E796816	5/2018

Location: BELTON, SC Date: 11/7/17

Project / Client: LEWIS DR.

AUTHOR: M. WARREN

CALIBRATION	BEFORE → AFTER
240.0 ORP	195.8 → 240.0
PH4	4.2 → 4.0
PH10	10.16 → 10.0
PH7	7.1 → 7.0
1.413 ms/cm	1.229 → 1.413
0 NTU	0.07 → 0.00
126.0 NTU	126.09 → 126.00
DO	96.8 → 97.1

1715 TEAM ARRIVES TO MW-28 TO BEGIN LOW FLOW/BAIL. PUMP SN: 24461/024461

1735 TEAM BEGINS PUMPING MW-28.

1755 TEAM BEGINS BAILING MW-28.

DTW: ~~24.3~~ 25.40 DTB: 25.90

TEAM BAILED WELL UNTIL BAILER NO LONGER COLLECTED WATER.

1815 TEAM DEPARTS FIELD.

11/7/17

Location BELTON, SC Date 11/8/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

TASK: GROUNDWATER SAMPLING / TROLLS

TEAM: M. WARREN (FTL/BID), K. SEXTON (GED)

WEATHER: RAIN, MID 50's

EQUIPMENT: SEE PG 29

0715: TEAM ARRIVES ON SITE

0725: BEGIN MINI RAE CALIBRATION

	BEFORE	AFTER
AIR	0.0	0.0
VOC	0.0	100.0

0735: TEAM GEARS UP TO BEGIN HYDRASLEEVE SAMPLING

0755	MW-29-110817	✓
0805	MW-26-110817	✓
0815	MW-23-110817	✓
0838	MW-43-110817	✓
0848	MW-38-110817	✓
0858	MW-34-110817	✓
0905	MW-39-110817	✓
0915	MW-40-110817	✓

0930 MW-28 DTW 25.14. WILL RETURN LATER IN DAY TO REGAUGE

0938	MW-35-110817	✓
0945	MW-25-110817	✓

MW

Location BELTON, SC Date 11/8/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

0955	MW-41-110817	✓
1002	MW-13B-110817	✓
1010	MW-13D-110817	✓
1020	MW-31-110817	✓
1035	MW-05-110817	✓
1055	MW-03-110817	✓
1105	MW-10-110817	✓
1115	MW-02-110817	✓

1125 TEAM RETURNS TO MW-18 TO BAIL FOR PRODUCT. PRODUCT CONFIRMED. SEE PHOTO.

1148	TB01-110817	✓
1150	FB01-110817	✓

1155 H. SEXTON BEGINS COLLECTING TROLL DATA.

M. WARREN BEGINS COC

1330 M. WARREN COMPLETES COC AND INVENTORY. H. SEXTON COMPLETES TROLL DATA, TEAM DEPARTS TO MW-28.

1340 MW-28 DTW 25.11. DETERMINED TO BE DRY.

1400 TEAM DEPARTS FIELD 11/8/17

Rite in the Rain

36

Location 12/4/17 BELTON, SC Date 12/4/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

TASK: GROUNDWATER GAUGING / DO

TEAM: M. WARREN (FTL/BIO), K. SEXTON (GEO), ZACHARY WARD (ENG)

WEATER: HUMD, LOW 40'S HIGH MID 60'S, SUNNY

EQUIPMENT: RAE SYSTEMS MINIRAE 3000 / INST ID: 36602 / ISOBUTYLENE LOT# M6B-248-100-15

Zero cal = 0.0

Isobutylene cal = 100 ppm

YSI PRODSS SONDE AND DISPLAY

SONDE ID # 26599

DISPLAY ID # 39545

CALIBRATION SOLUTIONS

SOLUTION	LOT #	EXPIRATION
0 NTU	C800982	10/2018
126.0 NTU	17E796816	MAY 2018
PH 4	2612C90	7/2018
PH 7	2708A14	7/23/2019
PH 10	766543	7/2019
1.413	766708	07/2018
240.0 mV	0647	10/2021

0700 M. WARREN ARRIVES ONSITE AND PREPARES PTSP.

Location BELTON, SC Date 12/14/17

Project / Client LEWIS DR,

AUTHOR: M. WARREN

SOLUTION	BEFORE	AFTER
CONDUCTIVITY	Ø.847	1.413
ONTU	2.1	Ø
126.0 NTU	121.4	126.Ø
PH 4	4.45	4.0
PH 7	6.61	7.0
PH 10	9.27	10.0
~~1.413~~ DO	8.141	11.3
240.0	232.5	240.0

26.18
23.94
2.24

0720 K. SEXTON ARRIVES ONSITE

0730 Z. WARD ARRIVES ONSITE

0735 TEAM HOLDS PTSP

0740 BEGIN MINIRAE CALIBRATION

0745 BEGIN YSI CALIBRATION

SOLINST INTERFACE METER
MODEL # 122 / 037062

0827 TEAM ARRIVES AT MW-28
DTW 23.94 DTB 26.18
BAILED DTW 25.91
TEAM CONTINUES TO GUAGE WELLS IN BROWNS CREEK AND SHALLOW BEDROCK.

1215 TEAM BREAKS FOR LUNCH

1315 TEAM RETURNS FROM LUNCH

Location BELTON, SC Date 12/4/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

1400 TEAM BEGINS GROUNDWATER GAUGING IN CUPBOARD CREEK AND SHALLOW BEDROCK ZONE

1656 TEAM ~~RECALIBRATES~~ MINIRAE 3000 INSTRUMENT ID 29808 ISOBUTYLENE LOT# JBH-248-1009

	BEFORE	AFTER
AIR	0	Ø.7
C_4H_8	0	100.1

1745 TEAM DEPARTS FIELD.

12/4/17

Location BELTON, SC Date 12/5/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

TASK: SURFACE / GROUNDWATER SAMPLING / TROLL / LOW FLOW

TEAM M. WARREN (FTL/BIO), K. SEXTON (GEO), Z. WARD (ENV ENG).

WEATHER MID 60's, PARTLY CLOUDY

EQUIPMENT SEE PAGE 36.

0700 TEAM ARRIVES ON SITE

0720 TEAM HOLDS PTSP AND BEGINS CALIBRATION OF YSI AND MINIRAE.

	BK	POST
DO		
NTU 0	2.2	0
NTU 126	123.3	126
Sp. cond	1.354	1.413
pH 4	3.99	4.0
pH 7	6.85	7.0
pH 10	10.03	10.0
ORP	240.3	240.0

multirae 29808 zero cal: 0 Isobutene: 100.1 ppm

0745 M. WARREN AND Z. WARD BEGIN SW SAMPLING HIKE

K. SEXTON BEGINS TROLL DATA COLLECTION

✓0815 ~~SW-11~~ SW11-120517

✓0830 SW10-120517

Location BELTON, SC Date 12/5/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

0850	FP01 - 120517
0855	FP02 - 120517
0910	SW09 - 120517 *MISSING MARKER
0920	SW08 - 120517
0925	SW13 - 120517
0945	FP03 - 120517
1000	SW04 - 120517
1005	SW02 - 120517
1010	SW02-D - 120517
1015	SW01 - 120517
1025	SW07 - 120517
1035	SW12 - 120517
1040	SW03 - 120517
1115	SW14 - 120517
1130	TEAM BREAKS FOR LUNCH
1230	TEAM RETURNS FROM LUNCH
1245	TEAM BEGINS LOW FLOW SETUP FOR MW-03.
1330	MW-03 - 120517
	MW-03 Fe^{2+} = 0.0 mg/L
1500	MW-27B - 120517
1505	MW-27B-D - 120517
1510	MW-27 - 120517
	Fe^{2+} = 3.0 mg/L

Location BELTON, SC Date 12/5/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

1555	MW-01-120517
1610	MW-01B-120517
1620	MW-44B-120517
1625	FB01-120517
1630	TB01-120517

NOTE: MW-01 WELL DID NOT HAVE ENOUGH WATER IN HYDRASLEEVE FOR AN [Fe^{2+}].

1700 TEAM DEPARTS FIELD TO FEDEX

1745 TEAM DROPS OFF SAMPLES.

12/5/17

Location BELTON, SC Date 12/6/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

TASK: GROUNDWATER SAMPING

TEAM: M. WARREN (FTL/BIO), K. SEXTON (GEO), Z. WARD (ENV. ENG)

EQUIPMENT: SEE PAGE 36

WEATHER: MID 50'S / AFTERNOON RAIN

0200 TEAM ARRIVES ON SITE

0725 TEAM HOLDS PTSP

0730 Z. WARD CALIBRATES MINIRAE

Minirae3000 - 29808

zero cal: 0ppm Iso cal: 100.0ppm

✓ 0740	MW-26-120617
✓ 0750	MW-26B-120617
✓ 0800	MW-23-120617
✓ 0805	MW-23B-120617
✓ 0820	MW-46-120617
✓ 0835	MW-29-120617
✓ 0905	MW-43B-120617 (MW-43B)
✓ 0910	MW-43-120617
✓ 0915	MW-24-120617
✓ 0925	MW-24B-120617
✓ 0935	MW-37-120617
✓ 0940	MW-38-120617
✓ 0950	MW-15B-120617
✓ 0955	MW-15B-D-120617

Location BELTON, SC Date 12/6/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

1005 MW-15-120617 (HYDRASLEEVE NOT FULL)
* ONLY ABLE TO COLLECT 20 mL FOR N & S. NO {Fe} COLLECTED

1020 MW-34-120617

1025 MW-39-120617

1030 MW-39-D-120617

1040 MW-40-120617
Fe^{2+} = 2.25 mg/L

1100 TEAM BREAKS FOR LUNCH

1200 TEAM BEGINS IN BROWN'S CREEK

1215 MW-41-120617 ~~Fe^{2+} = 0.0 mg/L~~

1240 MW-25B-120617

1245 MW-25-120617 MW-25 Fe^{2+} = 0.0 mg/L

1305 MW-35-120612 ~~Fe^{2+} = 0.0 mg/L~~ Fe^{2+} = 0.0 mg/L MW-35

1320 MW-49-120617

1335 MW-12B-120617

1345 MW-12-120617 Fe^{2+} = 3.25 mg/L

1350 MW-28 DTW: 25.44 DTB 26.25

1425 MW-14-120617

1430 MW-14B-120617

1440 MW-13B-120617

1230 **MW-42-120617**

1500 MW-50B-120617

1510 MW-48B-120617

Location BELTON, SC Date 12/06/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

✓ 1505	TB01 - 120617
✓ 1545	MW-47 - 120617
✓ 1550	MW-31 - 120617
✓ 1600	MW-33T - 120617
✓ 1605	FB01 - 120617
1630	TEAM DEPARTS FIELD
1715	TEAM ARRIVES AT FEDEX TO DROP OFF SAMPLES.

12/06/17

M. Warren

Location BELTON, SC Date 12/07/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

TASK: GROUNDWATER SAMPLING

TEAM: M. WARREN (FTL/BIO)
K. SEXTON (GEO), Z. WARD (ENVR

EQUIPMENT: SEE PAGE 36

WEATHER: MID 40'S, CLOUDY, 30% CHANCE OF RAIN.

0700 TEAM ARRIVES ON SITE

0710 TEAM HOLDS PTSP AND BEGINS MINIRAE CALIBRATION

0815	MW-10-120717	Fe^{2+} = 0.0 mg/L
0830	MW-02B-120717	
0835	MW-02-120717	Fe^{2+} = 0.0 mg/L
0850	MW-32-120717	Fe^{2+} = 0.0 mg/L
0905	MW-04-120717	
0915	MW-05-120717	
0925	MW-06-120717	
0930	MW-06B-D-120717	
0940	MW-06B-120717	
0945	~~MW-16-120717~~	* NO SAMPLE TAKEN DUE TO PRESENCE OF PRODUCT.
1005	MW-09B-120717	
1015	MW-09-120717	
1025	MW-08-120717	Fe^{2+} = 0.0 mg/L

Rite in the Rain

Location BELTON, SC Date 12/7/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

1100 MW-45B-120717

1105 MW-21-120717

1115 MW-17B-120717

1135 MW-36-120717

1145 MW-36R-120717

1200 MW-28 → Fe^{2+} = 1.75 mg/L

* NO SAMPLE COULD BE TAKEN. NOT ENOUGH WATER.

1210 FB01-120717

1215 TB01-120717

1220 MW-01 Fe^{2+} = 0.0 mg/L

MW-15 Fe^{2+} = 0.0 mg/L

1300 TEAM DEPARTS FIELD

1330 TEAM DROPS OFF SAMPLES AT FEDEX

12/7/17

Location BELTON, SC Date 12/14/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

TASK SURFACE WATER SAMPLING OF BROWNS CREEK

TEAM MELISSA WARREN

EQUIPMENT N/A

WEATHER: SUNNY MID 50'S

1115 M. WARREN ARRIVES ON SITE TO GEAR UP FOR SW SAMPLING.

1240 SW11 - 121417

1250 SW10 - 121417

1300 FP01 - 121417 *BIO SHEEN

1305 FP02 - 121417 *BIO SHEEN

1340 SW09 - 121417

1350 SW08 - 121417

1400 SW13 - 121417

1410 ~~SW~~ FP03 - 121417

1425 SW04 - 121417

1430 SW02 - 121417 *NO ODOR

1445 SW01 - 121417

1500 SW07 - 121417

1505 SW12 - 121417

ODOR PRESENT, WATER VERY CLEAR, NO SHEEN

1515 SW03 - 121417

1525 TB01 - 121417

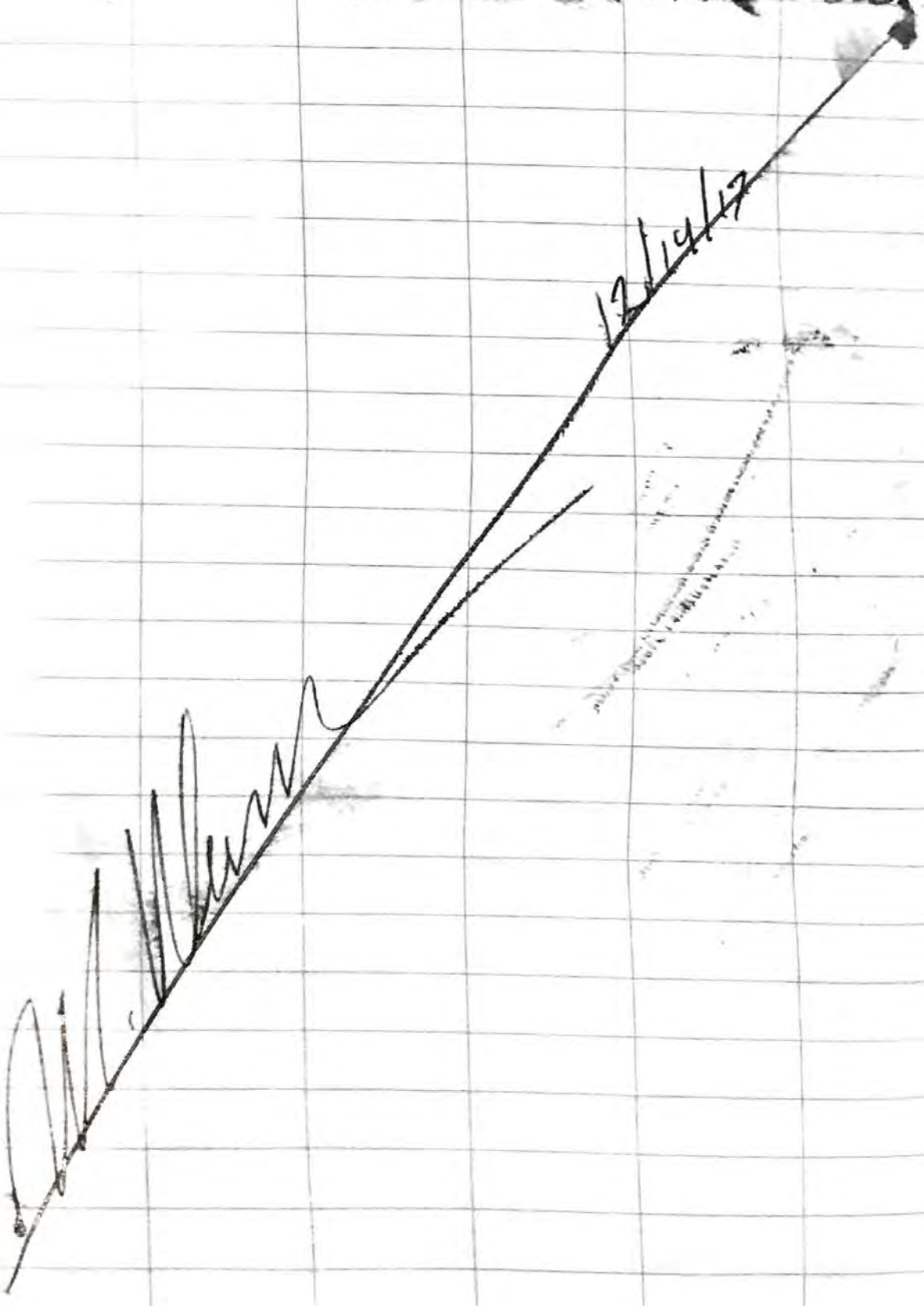
Rite in the Rain

Location BELTON, SC Date 12/14/17

Project / Client LEWIS DR.

AUTHOR: M. WARREN

1545: M. WARREN DEPARTS FIELD.



Location BELTON, SC Date 01/05/18

Project / Client LEWIS DRIVE

AUTHOR M. WARREN

TASK: GROUNDWATER/SURFACE WATER GAUGING/SAMPLING

TEAM: M. WARREN (BIO/FTL)
K. SEATON (GEO)

EQUIPMENT: MINIRAE 3000
INS ID# 27621
ISOBUTYLENE 10/7 # JBM-248-KC-19

CALIBRATION	BEFORE	AFTER
AIR	0.0	0.0
CHL GAS	0.0	100.0

0740 M. WARREN AND K. SEATON ARRIVE ON SITE

0800 TEAM HOLDS PTSP.

EQUIPMENT: SOLINST INTERFACE METER MODEL 122
SN: 037063. PERISTALTIC # 029486.
YSI PROQDO # R12315

0830 TEAM BEGINS GAUGING WELLS.

1150 TEAM BEGINS LUNCH BREAK.

1250 TEAM ENDS LUNCH BREAK.

1650 BEGIN YSI CALIBRATION

Rite in the Rain

Location BELTON, SC Date 01/08/18

Project / Client LEWIS DRIVE

AUTHOR M. WARREN

1655 SONDE ID# 30194

DISPLAY ID# 35729

SOLUTION	LOT#	EXP
0 NTU	C800982	10/2018
240.0mVORP	0647	10/2021
PH 4	2703FTD	3/2019
PH 7	2706A14	7/23/2019
PH 10	2608E32	2/2017
1.413 mS/cm	766708	07/2018
126.0 NTU	17E796816	05/2018

SOLUTION	PRE	POST
1.413 mS/cm	0.9859	1.4133
0 NTU	0.0	0.01
126 NTU	117.95	126.01
~~PH 4~~		
PH 7	7.01	7.0
PH 10	10.10	10.00
ORP	264.2	240.2

07 1730 TEAM BEGINS 10 W - FLOW FOR MW-28

1800 TEAM DEPARTS FIELD.

Location BELTON, SC Date 02/05/18

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

TASK GROUNDWATER/SURFACE WATER GAUGING AND [DO].

TEAM M. WARREN (BIO/FTL), K. SEXTON (GEO)

EQUIPMENT MINIRAE 3000 ID # 039537

ISOBUTYLENE LOT # MBG-248-100-15

CALIBRATION	BEFORE	AFTER
AIR	0	0
CAL GAS	0	100.0

0830 TEAM ARRIVES ON SITE AND HOLDS PTSP.

EQUIPMENT SOLINST INTERFACE METER

MODEL 122 SN: ~~037063~~ 024036

PERISTALTIC # 031576

YSI PRODO # R12315

YSI EXO # 30194 CALIBRATION

STANDARD	PRE-CAL	POST CAL	LOT#	EXP
ORP240	251.8	240.0	0647	10/21
0 NTU	1.12	0.0	C800982	10/2018
126.0 NTU	127.21	126.0	17E296816 ~~2608E32~~	~~2/2018~~ 1/5/2018
1.413 mS/cm	1.104	1.413	766708	07/2018
pH7	6.98	7.00	2708A14	07/23/2019
pH4	3.98	4.0	2703F77	03/2019
pH10	10.01	10.0	2608E32	2/2018
DO	105.2	101.1	—	—

Location BELTON, SC Date 02/05/18

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

0900 TEAM BEGIN GAUGING.
1100 TEAM BREAKS FOR LUNCH
1200 TEAM RETURNS FROM LUNCH AND CONTINUES GAUGING
1530 TEAM COMPLETES GAUGING AND BEGINS PAPERWORK QC
1600 TEAM BEGINS YSI EXO CALIBRATION FOR LOW FLOW
1630 TEAM COMPLETES CALIBRATION AND GEARS UP TO LOW FLOW MW-30.
1645 BEGIN MW-30 LOW FLOW
1655 COMPLETE MW-30 LOW FLOW
1705 TEAM DEPARTS FIELD.

02/05/18

M. Warren

Location BELTON, SC Date 02/06/18

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

TASK: GROUNDWATER AND SURFACE-WATER SAMPLING

TEAM: M. WARREN (BIO/FTL) M. SEXTON (GEO)

EQUIPMENT: SEE PAGE 54.

0730 TEAM ARRIVES ONSITE AND HOLDS PTSP.

0740 CALIBRATE MINI RAE

STANDARD	BEFORE	AFTER
AIR	0.0	0.0
ISOBUTYLENE	0.0	100.0

0800 TEAM BEGINS GW SAMPLING

- 0805 MW-29-020618
- 0815 MW-26-020618
- 0825 MW-23-020618
- 0900 MW-43-020618
- 0910 MW-38-020618
- 0920 MW-34-020618
- 0930 MW-39-020618
- 0935 MW-40-020618
- 0945 MW-41-020618
- 0955 MW-25-020618
- 1005 MW-35-020618
- 1015 MW-28-020618
- 1045 MW-31-020618

Location BELTON, SC Date 02/06/18

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

1105	MW-10-020618	
1110	MW-10-D-020618	
1120	MW-03-020618	
1130	MW-02-020618	
1140	MW-05-020618	
1150	FB01-020618	
1152	TB01-020618	
1200	MW-30-020618	
1205	TEAM BREAKS FOR LUNCH	
1305	TEAM RETURNS FROM LUNCH	
1335	SW14-020618	
[redacted]		
1440	SW11-020618	
1445	SW10-020618	(0.77)
1455	FP01-020618	
1500	FP02-020618	
1505	SW09-020618	
1510	SW08-020618	(1.08)
1515	SW13-020618	
1520	FP03-020618	
1525	SW04-020618	
1527	SW02-020618	(1.66)
1530	SW01-020618	(1.00)
1535	SW07-020618	

Location BELTON, SC Date 02/06/18

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

✓1540	SW12 - 020618
✓1545	SW03 - 020618
✓1550	TB01 - 020618
1620	SW05 - 020618

★ SW06 WAS DRY.

1630 TEAM BEGINS SITE INVENTORY AND DOCUMENTATION.

1700 TEAM DEPARTS FIELD

1730 TEAM SHIPS SAMPLES.

02/06/18

60

Belton, SC

Project / Client Lewis Drive / PPL Date Nov 2, 2017

1315 S. Smida offsite. TWT continues surveying

1445 TWT finished surveying all features, heading offsite. T. Wiley tried recovering Heron oil water interface probe tip that was broken off + lost in MW-09D during development. Unsuccessful. Tried magnets + duct tape.

1520 T. Wiley has secured site, system compound building + heading back to ATL.

This space intentionally left blank. [signature] Nov 2, 2017

69

Location Belton, SC Date 2.13.18

Project / Client Lewis Dr / PPL

0825 B. Gorney arrived on-site
weather: overcast, high of 52°F
objective: gauge and install skimmers for 22 wells. Collect [illegible] is there permits.

0830 Jake Crostic will arrive at site once additional equipment is delivered by FedEx to his house. I will gauge wells until he arrives.

1435: Watch traffic and additional workers who are installing culvert just down the road.

0835 Calibrate PID - Mini RAE 3000 (#039537)
Isobutylene (100 ppm) Lot # FBH-248-001-1
exp → 5/16/21
zero cal = 0.1 ppm
span cal → 100.0 ppm (100%)

1030 Jake Crostic arrived on-site.

1045 We started assembling the well caps with the hangers. Assembled remaining 4 skimmers

[signature] 2/13/18

Location Belton, SC Date 2-13-18

Project / Client Lewis Dr / PPL

Time	Well ID	DTW	DTP	PSH Readings	Product Thickness
0910	RT-1A	13.26	13.25	50000+	0.01
0916	RT-1B	13.28	—	150000+	—
1630	RT-1C	13.88	—	NR	—
1650	MW-24	11.81	—	NR	removed from system
1437	MW-08	3.88	3.87	NR	0.01
0948	RS-17	1.73	1.70	15000+	0.03
0955	RS-14	2.58	2.53	15000+	0.05
1002	RS-10	5.92	5.82	150004	0.10
1528	RS-05	7.95	7.78	NR	0.17
1008	RS-01	8.11	8.05	150004	0.06
1037	RS-02	6.80	6.78	NR	0.02
1040	RW-15	12.93	12.90	NR	0.03
1228	RW-12	21.57	21.56	NR	0.01
1230	RW-03	22.93	—	NR	—
1248	MW-11	28.81	28.80	NR	0.01
1250	RW-04	29.17	28.52	NR	0.65
1304	RW-05	32.51	31.81	NR	0.70
1315	RW-07	21.42	21.40	NR	0.02
1318	RW-08	13.62	—	NR	0.01
1355	MW-15	9.92	9.91	NR	
1343	AT-2K	0.08	—	NR	0.01
0936	RS-08	13.8	13.79	15000+	

71

Location Belton, SC Date 2-13-18

Project / Client Lewis Dr / PPL

1235 Started deploying skimmers. Had to re-adjust the length of the cable for the majority of the wells.

NOTE: RT-2K had a 6" cap and no interior 4" casing/cap, therefore, we could not deploy the skimmer. RS-01, RS-08, RT-1A, RT-1B, & RT-1C are all 4" stick-ups and the stick-ups are on a slant (took photos). I think because of this slant, the skimmers got stuck in the casing anywhere from 2ft down (RT-1C) to 10ft down (RT-1A). Jake and I left the 6 skimmers listed above in the systems building after discussing the issues with Tom Wiley.

NOTE: MW-15 & MW-20 both had trolls in them (MW-20 also had tubing). Discussed both wells with Tom Wiley. Trolls were removed & placed in ziploc bags and left in the system building. Tubing from MW-20 was removed & discarded.

Location Belton, SC Date 2/13/18
Project / Client Lewis Dr. / PPL

NOTE: the bottom weight of ~~the~~ RW-08 was not threaded correctly and could not be corrected with the tools on-site. Since the skimmer for RS-08 couldn't be deployed because that casing was on a slant, Tom Wiley suggested that we ~~use~~ adjust the length for the RS-08 skimmer and deploy it in the RW-08 well. We did exactly that and ~~renamed~~ re-labeled the skimmer RW-08. The skimmer in the system building has now been re-labeled as RS-08.

NOTE: Additional socks, caps, and cable is in the system building along with the 6 skimmers and two metal purge buckets & metal measuring cups for when fuel recovery takes place at the site.

1730 Jake locked gate and Bethany & Jake offsite.

BEF 2.13.18

Location
Project / Client
Date

LOCATION Site 1733

Location Bolton SC Date 2/20/17

Project / Client Lecw Dr PPL

Present: M. Lecarate/ATL, J Crostic
Weather: Fog Lo 57° Hi 73° Cloudy
Objective: LNAPL Recovery
0840 onsite w Field Trailer
0905 J. Crostic onsite
H&S 2 Sign Revised HASP
0915 Start LNAPL Recovery!

Well	LNAPL Recovered (Fl OZ)
MW-20	0.5 oz
RW-15	10 oz
RS ~~RW~~-02	-0-
MW RS ~~RW~~-01	N/A
RS RW-05	108 oz
RS-10	0.25 oz
RS 14	2 oz
RS-17	-0-
MW-09	-0-
RW-02	-0-
RW-03	-0-
RW-04	-0-
RW-05	-0-
RW-07	0.25
RW-08	-0-
MW-15	-0-

74

Location Belton SC Date 2/20/17

Project / Client Lewis Dr

1150 Secure cap to remove sock from MW11

- Weigh unused sock: 0.25 lbs

1200 Remove old sock from MW12 wt, 1.5 lbs

- Replace w new sock

1215 Gauge select wells

Time	Well	DTP	DTW (ft btoc)
1218	RW11	-	13.01
1220	RW12	-	15.14
1225	~~RW~~ RS RW01	8.45	8.52
1228	RW-06	-	25.61
1231	RW-09	-	12.08
1233	RT-2A	- Flooded cannot access	
1235	RT-2B	-	0.75
1237	RT-2C	-	1.21
1238	RT-2D	-	1.32
1239	RT-2E	-	1.41
1240	RT-2F	-	1.75
1242	RT-2G	-	0.96
1243	RT-2I	-	0.35
1244	RT-2J	-	TOC
1246	RT-2K	-	0.65
1247	RT-2L	-	~~1.55~~ 1.55
1250	RT-1C	-	13.82
1251	RT-1B	-	13.23
1251	RT-1A	-	13.25

Location Belton SC Date 2/20/18

Project / Client Lowry Dr

1300 Complete gauging - sock placed in 55 gal drum in secondary containment

1305 Off site.

Location Belton, SC Date 2/21/18

Project / Client Lewis Dr / Monthly Gauging Event

Present: R. Brown/ATL & J. Crostic/GVL

Weather: 68°F, overcast, precip 20%, wind 1mph SW; 73°F, overcast, precip 20%, wind 8mph N

Objective: Gauging site for DTW & DTP

H&S: Wet leaves & watch step

0630 R. Brown left ATL office

0830 Arrive onsite. Start paperwork, gathering equipment & supplies, calibrate PID.

0945 Talked to B. Garvey/ATL & got task of dropping small skimmer down wells with bends in them & possibly bringing back unused skimmers

0954 Start gauging

1005 Walked Cat (dry) Cupboard Creek. Dry, no odor, no sheens (biological or product), SW-05 dry.

1209 J. Crostic offsite for lunch. R. Brown calls T. Wiley to confirm we can skip TW (remaining) except TW-7B.

1240 Continue gauging

1624 Finishing gauging all but TWs & locations with product skimmers

Location Belton, SC Date 2/21/18

Project / Client Lewis Dr / Monthly Gauging Event

1705 J. Crostic offsite. Shorter product recovery canister fit in RS-01 & RT-1B. It did not fit in RS-08, RT-1A, or RT-1C. Put product recovery canisters (unused) on a pallet & under a tarp. Secured building & fenced area.

*0910 MiniRae passed all calibration standards

1715 R. Brown offsite. Heading back to ATL.

*1300 Finished walking Brown's Creek. No odor, no product sheens. Water turbid (muddy) downstream of where culvert being replaced. Photos & videos uploaded to server.

Ryan Braun
2/21/18

2/26/18

Lewis Rd, Belton, SC

0900 Arrive onsite
J. Crosby / GUC
M. Warren / ATC

0905 Go over HSP, PTSP, and look over equipment.

0910 No water level meter onsite. Will have to gauge and adjust skimmers following week. Inform T. Wiley.

0930 Begin to collect skimmers

Well ID	Volume of product (oz)
MW-20	2.3 ~~Ø~~
~~RW~~-15	
RS-2	Ø, lower to H_2O
RS-5	104
RS-10	Ø, lower skimmer
RS-14	Ø, lower
RS-17	Ø, lower
MW-~~Ø~~8	Ø
RW-3	Ø, lower
RW-2	11.5
RW-4	1
RW-5	2
RW-7	Ø, lower
RW-8	Ø

Scale: 1 square = _____

Rite in the Rain

2/26/18 - Lewis Rd

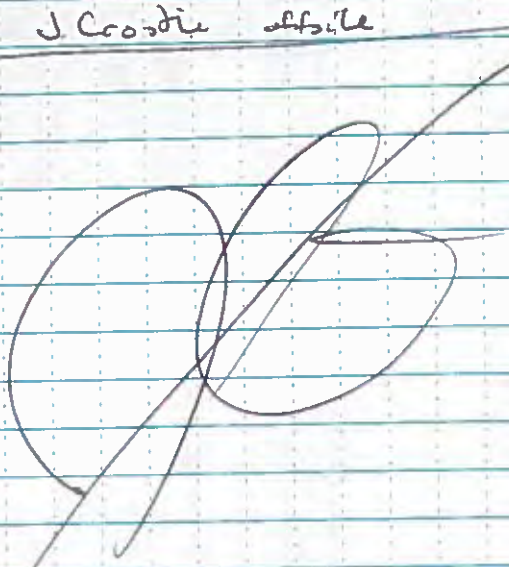
Well ID	Volume of product (oz)
MW-15	Ø, higher
Sock'ed well	Weight before / Weight after
MW-11	0.1 / 1.5 lbs

1100 Went back to each well to hang skimmer onto carabiner on well cap. Roll excess wire inside/outside of well casing.

1230 Finish raising skimmers

1300 M. Warren offsite.

1315 J Cassidy offsite



Scale: 1 square = _____

Location BELTON, SC Date 02/06/18

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

TASK: GROUNDWATER AND SURFACE WATER GAUGING

TEAM M. WARREN (BIO/FTL) K. SEXTON (GEO), JAKE (ENV. ENGINEER), Z. WARD (ENV. ENG)

EQUIPMENT ① MINIRAE #A790 ① ISOBUT# BB1-248-100
② MINIRAE = #~~A4798~~ 37658 ② ISOBUT# MBH 248/100
① SOLINST SN: 037342
② SOLINST SN: 027682

0700 TEAM ARRIVES ON SITE AND HOLDS PTSP.

0715 TEAM BEGINS MINIRAE CALIBRATION

MINIRAE #1 W/ ISOBUTYLENE #1

GAS	BEFORE	AFTER
AIR	0	0
ISO	0.0	100.0

MINIRAE #2 W/ ISOBUTYLENE #2

GAS	BEFORE	AFTER
AIR	0	0.0
ISO	0	100.0

0730 TEAM GEARS UP

EQUIPMENT YSI PRO DSS #35562

0740 TEAM BEGINS GAUGING

1200 TEAM BREAKS FOR LUNCH

1245 TEAM COMPLETES BREAK

MW

60

Location BELTON, SC Date 03/05/18

Project / Client LEWIS DRUG

AUTHOR: M. WARREN

1745	TEAM	COMPLETES GAUGING
1800	TEAM	DEPARTS FIELD.

Location BELTON, SC Date 03/05/18

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

TASK: GROUNDWATER SAMPLING

TEAM: M. WARREN (BIO/FTL), K. SEXTON (GEO), Z. WARD (ENV. ENG.)

EQUIPMENT: MINIRAE # 19790
ISO LOT # BB1-248-100-10 * BUMP TEST COMPLETE
SOLINST SN# 027682

0730 TEAM ARRIVES ONSITE AND HOLDS PTSP.

0740 TEAM GAUGES MW-21
PID: 3.2 DTP: - DTW: 14.80 DTB: 20.71

0750 TEAM BEGINS CALIBRATION OF YSI EXO. HH# 036636 SENSOR# 30194

CALIBRATION

	PRE	POST	EXP	LOT #
ODO	101.2	100.3	—	—
NTU0	2.41	0.0	10/2018	C800982
NTU126	985	126	5/2018	17E796816
COND	1.402	1.413	7/2018	766708
pH4	4.09	4.0	3/2019	2703F77
pH7	7.0	7.0	7/23/2019	2705A14
pH10	9.93	10.0	2/2018	2608EJ
ORP	256.4	248	10/2021	0647

0833 TEAM BEGINS UP TO BEGIN LOW FLOW FOR MW-22

0900 BEGIN MW-22 LOW FLOW

Location BELTON, SC Date 03/06/18

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

0925 COMPLETE MW-22 LOW FLOW

✓0925 MW-22-030618 Fe^{2+} = 3.0

0945 TEAM ARRIVES TO MW-13 TO BEGIN LOW FLOW

1010 TEAM COMPLETES LOW FLOW OF MW-13

✓1015 MW-13-030618

#1030 TEAM BEGINS LOW FLOW MW-0

1050 TEAM COMPLETES LOW FLOW MW-0

1130 TEAM BREAKS FOR LUNCH

1230 TEAM RETURNS FROM LUNCH

1235 TEAM GEARS UP TO BEGIN LOW FLOW ON MW-45

1300 ~~1240~~ BEGING MW-45 LOW FLOW

✓1300 FB01-030618

✓1305 TB01-030618

1315 TEAM COMPLETED LOW FLOW AT MW-45

✓1315 MW-45-030618

✓1350 MW-45B-030618

✓1345 MW-20-030618 Fe^{2+} = 0.75 $\frac{mg}{L}$

✓1410 MW-46-030618

✓1420 MW-23B-030618

✓1425 MW-23-030618

DM

Location BELTON, SC Date 03/06/18

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

1440 MW-26B-030618

1445 MW-26-030618

1530 TEAM DEPARTS FIELD.

03/06/18

M. Warren

Location BELTON, SC Date 03/07/18

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

TASK: GROUNDWATER SAMPLING

TEAM: M. WARREN (FTL/BIO), M. SEXTON (GEO)
Z. WARD (ENV. ENG)

EQUIPMENT: SEE Pgs. 59 & 61

0705 TEAM ARRIVES ON SITE

0820 TEAM BEGINS LOW FLOW FROM MW-29

0855 TEAM COMPLETES LOW FLOW MW-29

✓0855 MW-29-030718 Fe^{2+} = 0.0 mg/L

✓0935 MW-13B-030718

✓0940 MW-14~~B~~-030718

✓0945 MW-14B-03078

✓0950 TB01-030718

✓1000 MW-48B-030718

✓1010 MW-50B-030718

✓1020 MW-47-030718

✓1025 MW-31-030718

✓1035 MW-33T-030718

✓1100 MW-10-030718 Fe^{2+} = 0.0 mg/L

1120 ~~MW-0~~ TEAM BREAKS FOR LUNCH,

1220 TEAM RETURNS FROM LUNCH

1230 ~~1235~~ ✓1230 MW-02-030718 Fe^{2+} = 0.0 mg/L

✓1240~~35~~ MW-02B-030718 ~~Fe^{2+} 0.0 mg/L~~

✓1250 MW-32-030718 Fe^{2+} 0.0 mg/L

Location: BELTON, SC Date: 03/07/18

Project / Client: LEWIS DRIVE

AUTHOR. M. WARREN

1300	MW-03-030718	*FULL PARAM TOMKINS
1305	MW-30-030718	
1310	MW-64; BAILED FOR PRODUCT, NO PRODUCT OBSERVED. NO PRODUCT ODOR. WILL DOUBLE CHECK W/ OIL/WATER METER. NO PRODUCT DETECTED W/ OIL/WATER METER.	
1340	MW-04-030718	Fe^{2+}=0.0 mg/L
1350	MW-05-030718	
1400	MW-06-030718	
1405	MW-06B-030718	
1430	MW-16-030718	Fe^{2+} = 0.0 mg/L, [illegible]
1450	MW-08-030718	
	Fe^{2+} = 0.0 mg/L	
1500	MW-09-030718	Fe^{2+}=0.0 mg/L
1505	MW-09D-030718	
1515	MW-09B-030718	
1520	MW-36-030718	
1525	MW-36B-030718	
1555	MW-21-030718	
1600	MW-17B-030718	
1605	FB01-030618	
1607	MW-17BD-030718	

Location BELTON, SC Date 03/08/17

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

1625 MW-07: 11.52 DTW

Will ~~GA~~ SAMPLE TOMORROW.

1710 TEAM DEPARTS FIELD.

03/08/17

Location BELTON, SC Date 03/08/18

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

TASK: GROUNDWATER SAMPLING

TEAM: M. WARREN (FTL/BIO), K. SEATON (GEO)
Z. WARD (ENVI. ENG.)

EQUIPMENT: SOLINST # 037342

0700 TEAM ARRIVES ON SITE AND HOLDS PTSP.

0730 MW-07 11.50 DTW

0730 MW-07-030818

0745 MW-03-030818 $Fe^{2+} = 0.0 \frac{mg}{L}$

0830 MW-15B-030818

0835 MW-15-030818 $Fe^{2+} = 0.0 \frac{mg}{L}$

0850 MW-38-030818

0855 MW-37-030818

0910 MW-43B-030818

0915 MW-43-030818

0925 MW-24-030818

~~0930~~ MW-24B-030818

0920 VISUALLY INSPECTED AREAS AROUND NEW CULVERT FOR SHEEN. NO OBSERVATIONS.

0935 FB01-030818

0937 TB01-030818

0955 MW-34-030818

~~1000~~ MW-39-030818

Location BELTON, SC Date 03/08/18

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

1015 MW-40-030818 Fe^{2+} = 2.25 mg/L

1020 MW-41-030818

1032 MW-42-030818 Fe^{2+} = <0.5 mg/L

1040 MW-25-030818 Fe^{2+} = 0.0 mg/L

1045 MW-25B-030818

1055 MW-35-030818 Fe^{2+} = 0.0 mg/L

1100 TEAM BREAKS FOR LUNCH

1200 TEAM RETURNS FROM LUNCH

1205 MW-49-030818

1210 MW-28-030818 Fe^{2+} = 1.5 mg/L

* ONLY PULLED ENOUGH WATER FOR VOCS AND Fe^{2+}.

1225 MW-12B-030818

1230 MW-12-030818 Fe^{2+} = 1.0 mg/L

1250 ~~MW-11-030818~~ ~~Fe^{2+} =~~

NO SAMPLE COLLECTED FROM MW-11. PRODUCT FORMED W/IN HYDRASLEEVE.

1300 MW-27-030818

1305 MW-27B-030818

1320 MW-01-030818 Fe^{2+} = 0.0 mg/L

1330 MW-01B-030818

1307 MW-27BD-030818

1335 MW-44-030818

Location BELTON, SC Date 03/08/18

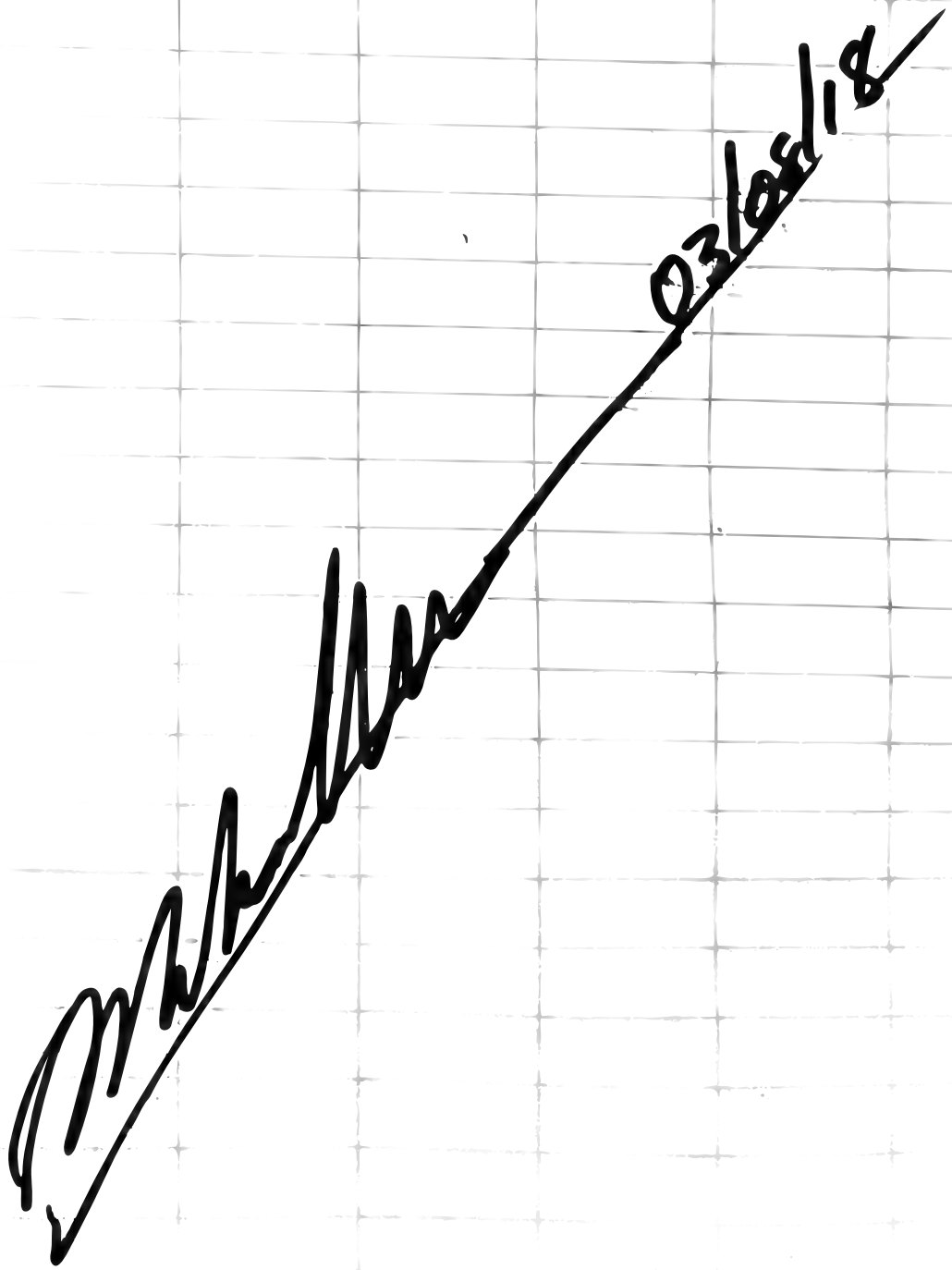
Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

1340 MW-44MD-030818

1345 MW-44B-030818

1430 TEAM DEPARTS FIELD



Location BELTON, SC Date 03/09/18

Project Client LEWIS DRIVE

AUTHOR: M. WARREN

TASK: SURFACE WATER SAMPLING / PRODUCT RECOVERY

TEAM: M. WARREN (FTL/BO), K. SEXTON (GEO), Z. WARD (ENV. ENG)

0800 TEAM ARRIVES ON SITE AND HOLDS PTSP.

0830 M. WARREN AND Z WARD BEGIN HIKE TO COLLECT SURFACE WATER SAMPLES. K. SEXTON COLLECTS TROLL DATA.

0850	SW11-080918	NO SHEEN
0900	SW10-030918	(0.86') NOSHN
0910	FP01-030918	NO SHEEN
0915	FP02-030918	BIOSHEEN ~~NO~~ SHEEN
0925	SW09-030918	BIOSHEEN
0930	SW08-030918	(1.08') BIO SHEEN
0940	SW13-030918	BIOSHEEN
1000	FP03-030918	NOSHEEN
1005	SW04-030918	NO SHEEN
1010	SW02-030918	(1.66') NOSHEEN
1015	SW01-030918	(1.0')
1020	SW07-030918	NOSHEEN
1030	SW12-030918	NOSHEEN

Return to Base

Location BELTON, SC Date 03/09/18

Project / Client LEWIS DRIVE

AUTHOR: M. WARREN

1040 SW03 - 030918 (1.8') NO SHEEN

1055 SW06 : DRY

1100 SW05 - 030918 (0.36') NO SHEEN

1110 SW14 - 030918 NO SHEEN

1115 TB01 - 030918

1130 M. SEXTON AND Z. WARD BEGIN PRODUCT RECOVERY, M. WARREN ORGANIZES EQUIPMENT, INVENTORY AND SAMPLE COCs.

1345 M SEXTON AND Z. WARD RETURN FOR PRODUCT RECOVERY

1400 TEAM DEPARTS FIELD.

03/09/18

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): THOMAS BARNES

Date: 4/3/17

Weather: CLOUDY, RAIN, 60°

Safety Topic: PPE TRAFFIC

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	17.90	18.30	
RS-02	17.15	17.60	
RS-04	9.69	9.70	
RS-05	16.99	17.75	
RS-06	17.47	17.89	
RS-07	14.95	14.97	
RS-08	15.46	16.27	
RS-09	16.90	17.15	
RS-10	15.88	16.20	
RS-11	15.35	15.74	
RS-12	15.62	16.00	
RS-13	16.44	16.46	
RS-14	12.70	12.93	
RS-15	12.79	12.85	
RS-16	13.07	13.10	
RS-17	9.94	9.95	
RS-18	17.07	17.48	
RS-19		damaged	
RS-20	—	10.53	
RT-1A	15.98	16.20	
RT-1B	CANT GET LOCK OFF		
RT-1C	16.37	16.50	
RT-2A	—	1.25	
RT-2B	1.37	1.38	
RT-2C	—	1.80	
RT-2D	—	1.86	
RT-2E	—	2.00	
RT-2F	—	2.34	
RT-2G	~~3.65~~	3.65	
RT-2H		damaged	
RT-2I	—	3.43	
RT-2J	2.26	2.27	
RT-2K	2.71	2.72	
RT-2L	2.78	2.82	
RW-01	—	14.28	
RW-02	25.58	—	
RW-03	25.56	25.57	
RW-04	31.34	32.20	
RW-05	33.88	34.23	
RW-06	27.83	27.84	
RW-07	24.00	25.97	
RW-08	17.89	18.07	
RW-09	14.36	15.00	
RW-10	17.65	21.18	
RW-11	13.70	14.78	
RW-12	15.35	16.29	
RW-13	~~17.85~~	17.85 19.68	
RW-14	13.36	13.37	
RW-15	18.75	20.10	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08			
SW-10			

FRAC TANK PRIOR TO TANKER LOAD REMOVED)

DEPTH TO PRODUCT — 1.90

DEPTH TO WATER — 2.83

AFTER TANKER LOAD

D TO PROD — 3.90

D TO W — 4.64

146

Location Lewis Drive Date 4/3/2017

Project / Client PPL SWIDA

Gauging 4SCFM and 4/4/2017

Well ID:	DTP ('bloc)	DTW ('bloc)		DO (mg/L)
Cupboard creek (4/4/2017)				
MW19	—	11.78		1.74
MW20	14.28	15.81		NM
MW29	—	10.95		6.76
TW67	—	9.54	water can be heard in casing → mixing sediments in water column.	9.26
TW73	—	8.71		9.57
Brown's Creek				
MW12	15.05	15.23		NM
MW12B	—	15.43		1.17
MW15	—	13.43		1.67
MW15B	—	16.54		0.95
MW25	—	8.58		0.75
MW25B	—	5.72		0.55
MW28	—	25.69	odor	2.41
MW35	—	9.44		3.46
MW39	—	5.34		0.44
MW41	—	4.07		0.51
TW59	—	15.20		NM - casing on side of cover
TW60	—	10.61		0.76
TW66	—	2.32		2.90

NM = not measured, LNAPL present or probe did not fit into casing

Lewis Drive Daily Monitoring Sheet 1
(submit by 5PM)

Name(s): THOMAS BARNES
Date: 4/6/17
Weather: SUNNY, 65° WINDY
Safety Topic: PPE, TRAFFIC, FIRE ANTS

Contractor	# Personnel
CH2M HILL	
A&D/ECS	10
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	17.65	18.36	
RS-02	16.70	17.10	
RS-04	—	8.48	
• RS-05	16.72	17.73	
RS-06	17.27	17.74	
RS-07	14.42	14.44	
• RS-08	15.33	16.20	
RS-09	15.61	16.22	
RS-10	14.94	15.36	
RS-11	15.19	15.61	
RS-12	15.46	15.88	
RS-13	—	14.26	
RS-14	6.25	6.47	
✓ RS-15	7.40	7.96	
RS-16	—	5.34	
RS-17	—	3.23	
RS-18	12.80	13.30	
RS-19		damaged	
RS-20	—	10.15	
RT-1A	15.84	16.09	
RT-1B	CAN'T GET LOCK OFF		
RT-1C	16.25	16.48	
RT-2A	—	0.70 ← SHEEN AROUND RISER	
RT-2B	0.82	0.84	
RT-2C	—	1.30	
RT-2D	—	1.35	
RT-2E	—	1.48	
RT-2F	—	1.84	
RT-2G	—	3.12	
RT-2H		damaged	
RT-2I	3.12	3.13	
RT-2J	1.68	1.70	
RT-2K	2.60	2.61	
RT-2L	2.42	2.54	
RW-01	—	11.51	
RW-02	24.45	—	25.75
RW-03	25.45	25.46	
• RW-04	31.32	32.20	
RW-05	~~23.32~~ 33.79	34.15	
RW-06	27.50	27.51	
• RW-07	23.32	25.00	
✓ RW-08	16.70	17.26	
• RW-09	13.56	14.17	
• RW-10	19.30	20.75	
• RW-11	13.16	14.29	
• RW-12	13.36	13.37	
• RW-13	17.69	19.35	
RW-14	12.64	12.65	
• RW-15	18.60	20.14	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01	—	4.60	
MW-01B	—	10.85	
MW-02	—	7.07	
MW-02B	—	8.38	
MW-03	—	10.61	
MW-04	—	13.99	
MW-05	—	18.18	
MW-06	—	17.55	
MW-07	—	13.20	
MW-08	—	9.68	
MW-09	5.61	5.62	
MW-10	—	15.47	
MW-11	DRY		
MW-12	14.42	14.50	
MW-12B	—	14.46	
MW-13	—	22.05	
MW-13B	—	24.37	
MW-14	—	18.26	
MW-14B	—	20.07	
MW-15	—	11.65	
MW-15B	—	16.32	
MW-16	14.86	17.74	
MW-17	—	10.83	
MW-17B	—	18.77	
MW-18	16.10	19.48	
MW-19	—	9.16	
MW-20	14.10	15.72	
MW-21	~~[illegible]~~	~~[illegible]~~ — 18.23	
MW-22	—	9.85	
MW-23	—	11.50	
MW-23B	—	12.81	
MW-24	—	4.13	
MW-24B	—	5.18	
MW-25	—	8.02	
MW-25B	—	5.52	
MW-26	—	5.93	
MW-26B	—	9.45	
MW-27	—	27.98	
MW-27B	—	31.66	
MW-28	—	25.49	
MW-29	—	10.11	
MW-30	DRY		
MW-31	21.45		
MW-31B	21.73		
MW-32	—	13.60	
MW-33	—	26.67	
MW-33T	—	27.93	
MW-34	—	2.50 proposed	
MW-35	—	8.43	
MW-36	—	21.55	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B	—	21.26	
MW-37	—	3.28	
MW-38	—	1.52	
MW-39	—	4.83	
MW-40	—	2.86	
MW-41	—	3.85	
MW-42	—	4.55	
MW-43		proposed	
MW-43B		proposed	
MW-44	—	8.09	
MW-44B	—	15.15	
MW-45	—	14.23	
MW-45B	—	18.15	
TW-04R	—	4.95	
TW-05R	—	1.90	
TW-14R	—	2.63	
TW-15R	—	3.55	
TW-21	—	0.95	
TW-28	24.26	~~24.27~~ 25.70	
TW-30	—	20.45	} CUP @ BOTTOM OF WELL
TW-34	—	22.25	
TW-35	—	22.75	
TW-40	—	29.20	
TW-41	—	28.68	
TW-42	26.70	27.55	
TW-45	28.30	29.27	
TW-46	———	COVERED / GONE	
TW-55	—	10.80	
TW-59	—	14.74 damaged	
TW-60	—	8.93	
TW-64	—	19.29	
TW-65	—	22.95	
TW-66	—	1.86	
TW-67	—	14.30	
TW-68	—	24.32	
TW-69	—	16.05	
TW-70	—	20.14	
TW-73	—	9.26	
TW-76	—	17.56	
TW-81	UNDER WATER		
TW-82	—	1.52	
TW-83	—	2.32	
TW-84	—	4.25	
TW-85	—	14.45	
TW-86	—	4.30	
TW-87	—	6.15	
TW-90	—	16.89	
TW-94	6.55	6.63	
TW-96	—	10.82	
SW-01	0.90		
SW-02	1.55		
SW-03	1.96		
SW-05	DRY		
SW-08	1.24		
SW-10	0.56		

Table 2 - Gauging List

SM: Tom Wiley
PN: 684910.LD.RA.ST
Project: System Startup Event
Technicians: J. McCann, J. Hansen
Client: Plantation Pipe Line

Weather: windy 48-53°F
Measuring Method: oil/water interface probe
Date: 4/6/17

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (ft BTOC)	Product Thickness (ft)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
MW-12	0750	805	14.42	14.50	21.75	0.08	
MW-12B	0732	0.7	—	14.86	57.30	—	removed bag
MW-15	1059	170	—	12.92	21.22	—	
MW-15B	1057	42.5	—	16.29	72.90	—	
MW-17	0839	651	—	10.23	11.23	—	
MW-17B	0837	324	—	18.77	25.30	—	
MW-19	0905	678	—	9.16	12.13	—	
MW-20	0913	1173	14.10	15.72	19.37	1.62	
MW-21	0849	0.3	—	18.23	20.73	—	
MW-23	0843	6.3	—	11.50	23.21	—	
MW-23B	0845	0.2	—	12.81	58.00	—	
MW-25	~~PM~~ 1116	~~PM~~ 232	—	8.02	18.10	—	
MW-25B	1117	0.2	—	5.52	61.20	—	
MW-26	0853	0.7	—	5.93	17.36	—	
MW-26B	0855	0.1	—	9.45	41.10	—	
MW-28	1127	1496	—	25.49	26.05	—	
MW-29	0858	0.0	—	10.11	14.93	—	
MW-34	1101	5.5	—	2.50	7.82	—	
MW-35	1113	4.2	—	8.43	28.79	—	
MW-38	1136	0.6	—	1.52	11.53	—	

SM: Tom Wiley
PN: 684910.LD.RA.ST
Project: System Startup Event
Technicians:
Client: Plantation Pipe Line

Weather:
Measuring Method: oil/water interface probe
Date:

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (ft BTOC)	Product Thickness (ft)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
MW-39	1103	38.8	—	4.83	13.08	—	
MW-40	1105	182	—	2.96	13.21	—	
MW-41	1108	2.2	—	3.85	13.19	—	
MW-42	1110	1.9	—	4.55	13.41	—	
MW-45	0818	4.4	—	14.23	14.45	—	
MW-45B	0810	0.1	—	18.15	41.40	—	
TW-59	1124	1.8	—	14.74	19.64	—	
TW-60	1130	543	—	8.93	38.48	—	
TW-66	1120	0.2	—	1.86	23.82	—	
TW-67	0909	1025	—	14.30	25.20	—	
TW-73	0903	0.7	—	9.26	14.07	—	

BTOC - below top of casing
ft - feet
PN - Project Number

ppm - parts per million
SM - Site Manager
- wells historically found to have product

Lewis Drive Daily Monitoring Sheet 1
(submit by 5PM)

Name(s): THOMAS W BARNES
Date: 4/10/17
Weather: SUNNY, 55
Safety Topic: TRAFFIC, FIRE ANTS

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	16.87	17.78	
RS-02	15.15	15.50	
RS-04	9.67	9.68	
RS-05	16.42	17.00	
RS-06	16.86	17.37	
RS-07	14.66	14.68	
RS-08	15.10	15.51	
RS-09	16.08	16.82	
RS-10	15.15	15.60	
RS-11	14.78	15.24	
RS-12	15.06	15.62	
RS-13	14.59	14.60	
RS-14	9.69	9.92	
RS-15	9.77	9.88	
RS-16	10.61	10.62	
RS-17	7.99	7.94	
RS-18	16.15	16.70	
RS-19		damaged	
RS-20	—	10.47	
RT-1A	15.57	15.77	
RT-1B	LOCK STUCK		
RT-1C	15.97	16.17	
RT-2A	—	1.08	
RT-2B	1.14	1.15	
RT-2C	1.61	1.62	
RT-2D	—	1.72	
RT-2E	1.82	1.83	
RT-2F	2.18	2.19	
RT-2G	2.06	2.07	
RT-2H		damaged	
RT-2I	—	3.30	
RT-2J	1.48	1.58	
RT-2K	2.73	2.75	
RT-2L	2.55	2.65	
RW-01	—	11.72	
RW-02	24.35	25.65	
RW-03	25.03	25.05	
RW-04	31.11	32.07	
RW-05	33.77	34.22	
RW-06	27.53	27.55	
RW-07	23.27	24.82	
RW-08	16.41	16.56	
RW-09	13.70	13.75	
RW-10	17.15	20.22	
RW-11	13.05	13.92	
RW-12	14.56	14.57	
RW-13	17.32	19.19	
RW-14	9.66	9.67	
RW-15	18.43	18.97	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08			
SW-10			

FRAC TANK LEVELS PRIOR TO OFF LOAD 4/11/17

DEPTH TO PRODUCT – 3.21
DEPTH TO WATER – 3.99

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): THOMAS BARNES

Date: 4/13/17

Weather: SUNNY, 70°

Safety Topic: TRAFFIC, OFF, FALL HAZ

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	17.19	17.58	
RS-02	15.15	15.43	
RS-04	–	9.71	
RS-05	16.57	16.95	
RS-06	17.12	17.32	
RS-07	14.64	14.66	
RS-08	15.03	15.45	
RS-09	16.18	16.69	
RS-10	15.14	15.56	
RS-11	14.73	15.18	
RS-12	15.02	15.45	
RS-13	14.82	14.83	
RS-14	10.43	10.62	
RS-15	10.18	10.28	
RS-16	–	11.25	
RS-17	-	8.55	
RS-18	16.73	16.94	
RS-19		damaged	
RS-20	–	10.50	
RT-1A	15.50	15.61	
RT-1B	LOCK FROZEN		
RT-1C	15.92	16.02	
RT-2A	–	1.18	
RT-2B	1.24	1.30	
RT-2C	–	1.73	
RT-2D	–	1.82	
RT-2E	–	1.95	
RT-2F	–	2.28	
RT-2G	–	3.52	
RT-2H		damaged	
RT-2I	–	3.30	
RT-2J	2.06	2.07	
RT-2K	2.30	2.31	
RT-2L	3.60	3.67	
RW-01	–	12.06	
RW-02	24.37	24.80	
RW-03	25.01	25.02	
RW-04	31.07	31.95	
RW-05	33.63	34.05	
RW-06	27.71	27.72	
RW-07	23.69	25.40	
RW-08	17.95	18.00	
RW-09	14.07	16.05	
RW-10	17.16	20.05	
RW-11	13.03	13.92	
RW-12	14.71	14.72	
RW-13	17.38	18.94	
RW-14	13.09	13.10	
RW-15	18.37	19.00	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08			
SW-10			

FRAC TANK LEVELS PRIOR TO OFFLOAD 4/13/17

DEPTH TO PRODUCT – 2.44

DEPTH TO WATER – 3.30

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): THOMAS BARNES

Date: 4/16/17

Weather: CLOUDY, 65°

Safety Topic: PPE, TRAFFIC, FREE RANGE

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	16.69	17.20	
RS-02	15.23	15.52	
RS-04	9.71	9.72	
RS-05	16.17	16.80	
RS-06	16.72	16.95	
RS-07	14.62	14.64	
RS-08	14.90	15.33	
RS-09	16.14	16.48	
RS-10	15.03	15.54	
RS-11	14.63	15.10	
RS-12	14.92	15.39	
RS-13	15.04	15.06	
RS-14	11.15	11.35	
RS-15	10.65	10.75	
RS-16	11.71	11.72	
RS-17	9.10	9.11	
RS-18	16.23	16.50	
RS-19		damaged	
RS-20	—	16.48	
RT-1A	15.40	15.50	
RT-1B	———		LOCK STUCK
RT-1C	15.80	15.90	
RT-2A	—	1.16	
RT-2B	1.18	1.19	
RT-2C	—	1.41	
RT-2D	—	1.72	
RT-2E	—	1.82	
RT-2F	2.15	2.16	
RT-2G	3.20	3.21	
RT-2H		damaged	
RT-2I	—	1.62	
RT-2J	0.25	0.26	
RT-2K	2.58	2.59	
RT-2L	2.25	2.32	
RW-01	—	12.60	
RW-02	24.32	24.93	
RW-03	24.91	24.92	
RW-04	30.98	31.97	
RW-05	33.43	33.47	
RW-06	20.73	20.74	
RW-07	22.14	24.05	
RW-08	16.10	16.12	
RW-09	13.90	14.31	
RW-10	17.01	20.00	
RW-11	13.05	13.69	
RW-12	14.81	14.84	
RW-13	17.19	19.05	
RW-14	12.86	12.87	
RW-15	18.32	19.60	

FRAC TANK LEVELS

DEPTH TO PRODUCT — 2.24

DEPTH TO WATER — 3.10

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08			
SW-10			

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): THOMAS BARNES

Date: 4/20/17

Weather: SUNNY, 75°

Safety Topic: PPE, TRAFFIC

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	16.62	16.92	
RS-02	15.37	15.64	
RS-04	9.70	9.71	
RS-05	15.90	16.85	
RS-06	16.55	16.82	
RS-07	14.45	14.50	
RS-08	14.85	15.33	
RS-09	15.98	16.36	
RS-10	15.02	15.25	
RS-11	14.53	15.01	
RS-12	14.81	15.30	
RS-13	15.20	15.23	
RS-14	11.71	11.89	
RS-15	11.07	11.19	
RS-16	11.98	11.99	
RS-17	11.43	11.44	
RS-18	16.02	16.38	
RS-19		damaged	
RS-20	—	10.48	
RT-1A	15.37	15.49	
RT-1B			
RT-1C	15.80	15.90	
RT-2A	1.07	1.08	
RT-2B	1.14	1.15	
RT-2C	—	1.59	
RT-2D	—	1.71	
RT-2E	—	1.80	
RT-2F	—	2.27	
RT-2G	—	3.41	
RT-2H	~~3.47~~	damaged	
RT-2I	—	3.90	
RT-2J	2.08	2.09	
RT-2K	—	2.36	
RT-2L	2.60	2.65	
RW-01	13.11	13.12	
RW-02	24.24	24.80	
RW-03	—	24.81	
RW-04	30.75	31.70	
RW-05	33.49	33.70	
RW-06	—	24.97	
RW-07	23.49	24.92	
RW-08	~~16.92~~	16.65	16.66
RW-09	13.81	14.22	
RW-10	17.21	18.92	
RW-11	12.95	13.65	
RW-12	14.84	14.85	
RW-13	17.10	18.90	
RW-14	—	13.20	
RW-15	18.21	18.60	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
~~MW-27B~~			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08			
SW-10			

AFTER BDT

FRAC TANK LEVELS

DEPTH TO PRODUCT - 5.42

DEPTH TO WATER - 5.68

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): THOMAS BARNES

Date: 4/25/17

Weather: SUNNY 65°

Safety Topic: PPE / TRAFFIC

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	16.16	16.58	
RS-02	14.64	14.81	
RS-04	—	8.38	
✓RS-05	15.38	16.43	
RS-06	16.20	16.53	
RS-07	14.01	14.02	
RS-08	14.61	14.62	
RS-09	13.80	14.15	
RS-10	13.97	14.31	
✓RS-11	14.16	14.67	
✓RS-12	14.44	14.94	
RS-13	—	7.78	
RS-14	4.45	4.64	
RS-15	5.30	5.38	
RS-16	—	3.68	
RS-17	—	2.63	
RS-18	11.44	11.80	
RS-19		damaged	
RS-20	—	6.59	
RT-1A	15.08	15.12	
RT-1B	15.03	15.09	
RT-1C	15.48	15.52	
RT-2A	—	0.63	
RT-2B	—	0.79	
RT-2C	—	1.21	
RT-2D	—	1.31	
RT-2E	—	1.44	
RT-2F	—	1.77	
RT-2G	—	1.20	
RT-2H		damaged	
RT-2I	—	2.27	
RT-2J	—	1.01	
RT-2K	—	2.75	
RT-2L	1.95	2.00	
RW-01	—	10.83	
RW-02	23.81	24.19	
RW-03	—	24.55	
✓RW-04	30.56	31.54	
-RW-05	33.41	33.70	
RW-06	27.09	27.10	
✓RW-07	22.69	23.50	
RW-08	—	15.48	
RW-09	12.60	12.68	
✓RW-10	16.29	18.84	
- RW-11	12.28	12.38	
RW-12	12.77	12.78	
✓RW-13	—	16.73	17.83
RW-14	8.88	8.89	
RW-15	17.85	18.30	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08			
SW-10			

FRAC TANK LEVELS

DEPTH TO PRODUCT – 5.27

DEPTH TO WATER – 5.53

Location Lewis Drive Date 4/26/2017

Project / Client PPL SM104

Gauging 4 SCFM

Well ID:	DTP ('btoc)		DTW ('btoc)	DO (mg/L)
Cupboard Creek				
MW 19	—		10:21	1.43
MW 20	13.40		14:49	NM
MW 29	—		7.77	6.68
TW 67	—		13.57	9.82
TW 73	—		DRY	NM
Brown's Creek				
MW 12	—	ODOR	13.69	1.62
MW 12B	—		14.03	0.51
MW 15	—		12.80	3.91
MW 15B	—		15.83	1.58
MW 25	—		8.09	0.53
MW 25B	—		5.18	0.51
MW 28	—	ODOR	23.61	0.66
MW 35	—		8.28	3.49
MW 39	—		5.09	0.59
MW 41	—		3.85	1.89
TW 59*	—		13.73	NM
TW 60	—		9.37	1.80
TW 66	—		1.53	5.35

* → see photo, probe does not fit down casing.

Rite in the Rain

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): THOMAS BARNES

Date: 4/27/19

Weather: CLOUDY, 69°

Safety Topic: PPE, TRAFFIC

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

*Confirm all instances of LNAPL with a bailer.

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	15.46	15.96	
RS-02	13.32	13.49	
RS-04	—	9.70	
RS-05	15.01	16.34	
RS-06	15.85	16.20	
RS-07	—	14.01	
RS-08	14.37	14.87	
RS-09	14.49	14.90	
RS-10	14.00	14.28	
RS-11	13.89	14.20	
RS-12	14.18	14.49	
RS-13	—	10.73	
RS-14	6.05	6.19	
RS-15	6.71	6.80	
RS-16	—	5.05	
RS-17	—	4.30	
RS-18	14.06	14.43	
RS-19		damaged	
RS-20	—	6.65	
RT-1A	14.89	14.94	
RT-1B	14.85	14.89	
RT-1C	15.29	15.33	
RT-2A	—	0.84	
RT-2B	0.96	0.97	
RT-2C	—	1.41	
RT-2D	—	1.52	
RT-2E	—	1.60	
RT-2F	—	1.98	
RT-2G	—	3.13	
RT-2H		damaged	
RT-2I	3.22	3.23	
RT-2J	1.86	1.90	
RT-2K	—	2.85	
RT-2L	2.15	2.17	
RW-01	—	10.73	
RW-02	23.50	23.99	
RW-03	—	24.36	
RW-04	30.44	31.34	
RW-05	33.13	33.42	
RW-06	27.12	27.13	
RW-07	23.31	24.19	
RW-08	17.19	17.20	
RW-09	13.80	13.92	
RW-10	18.08	18.35	
RW-11	12.35	12.36	
RW-12	—	13.57	
RW-13	16.50	17.45	
RW-14	—	12.61	
RW-15	17.48	17.92	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08			
SW-10			

FRAC TANK LEVELS

DEPTH TO PRODUCT — 5.00

DEPTH TO WATER — 5.30

Table 2 - Gauging List

SM: Tom Wiley
PN: 684910.LD.MR.GW
Project: ~~System Startup Event~~ Monthly sampling
Technicians: J. McCann
M. Warren
Client: Plantation Pipe Line

Weather: sunny, low 60s
Measuring Method: oil/water interface probe
Date: 5/3/17

	Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (ft BTOC)	Product Thickness (ft)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
H	MW-05	1056	0.0	—	16.68	19.95	—	
H	MW-10	1022	0.0	—	12.83	23.21	—	
SB	MW-22	1129	8.5	—	9.93	10.35	—	dry
BC	MW-25	1426	3.1	—	8.21	18.10	—	
CC	MW-26	1319	5.1	—	5.20	17.31	—	
BC	MW-28	1356	519.5	—	22.86	26.05	—	
CC	MW-29	1259	0.0	—	8.39	15.06	—	
H	MW-30	1046	29.6	—	13.66	14.52	—	precipitation
H	MW-31	1000	0.1	—	19.99	28.41	0.0	
BC	MW-34	1512	0.5	—	2.55	7.81	—	
BC	MW-35	1443	3.9	—	9.08	28.52	—	
BC	MW-38	1527	0.0	—	1.89	11.48	—	
CC	MW-45	1340	3.8	~~15.88~~	14.00	14.42	—	dry
	RW10	1120	570.5	15.70	18.04	NM	2.34	
	RW13	1115	437.2	16.13	17.02	NM	0.89	

BTOC - below top of casing
ft - feet
PN - Project Number

ppm - parts per million
SM - Site Manager
- wells historically found to have product

SM: Tom Wiley
PN: 684910.LD.MR.GW
Project: Monthly Monitoring
Technicians: J. McCann
M. Warren
Client: Plantation Pipe Line

Weather: cloudy, mid 70s
Measuring Method: YSI proODO
Date: 5/3/17 ← included date on form - RWB

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
MW-03	1415	73.6	—	8.20	0.27	
MW-04	1408	0.1	—	10.76	8.02	
MW-08	1315	0.0	—	12.18	7.00	
MW-09	1337	124.1	—	8.00	0.45	20
MW-10	1344	0.1	—	12.67	6.32	
MW-16	1325	354.0	13.07	14.95	—	free product
MW-18	1320	604	14.17	16.93	—	free product
MW-30	1600+5/3/17	393	—	14.66	3.62	
TW-55	1331	2.4	—	8.65	1.68	
TW-64	1308	0.1	—	18.10	7.85	
TW-96	1350	0.2	—	8.85	7.29	
Shallow Bedrock Zone						
MW-01	1237	0.0	—	5.54	7.57	
MW-01B	1241	0.8	—	8.73	0.53	
MW-11	1245	~~856.6~~	30.28	30.68	—	free product
MW-22	1231	72.5	—	9.96	—	dry
SW-03	1503	—	—	—	4.22	
SW-12	1506	—	—	—	4.76	
SW-13	1456	—	—	—	4.91	
SW-01	1451	—	—	—	7.75	

BTOC - below top of casing
ft - feet
PN - Project Number
ppm - parts per million
SM - Site Manager
[redacted] - wells historically found to have product

Table 2 - ~~Gauging List~~ DO measurements SM

SM: Tom Wiley

PN: 684910.LD.MR.GW

Project: Monthly Monitoring

Technicians:

Client: Plantation Pipe Line

Weather:

Measuring Method: YSI proODO

Date: 5/3/17 ← included date on form - RWB

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
Brown's Creek Protection Zone						
MW-12						
MW-12B						
MW-15						
MW-15B						
MW-25						
MW-25B						
MW-28						
TW-59						
TW-60						
TW-66						
Cupboard Creek Protection Zone						
MW-19						
MW-20						
MW-29						
TW-67						
TW-73						
Hayfield Zone						
MW-02	1358	298	—	6.86	0.35	
MW-02B	1401	1.7	—	8.19	0.26	

completed by S. Smida 35 39 41

5/4 - weekly gauging
5/16 monthly gauging

Lewis Drive Daily Monitoring Sheet 1
(submit by SPM)

Name(s): THOMAS BARNES
Date: 5/4/17 5/16/17
Weather: 5/4 - SUNNY, 70° 5/16 OVERCAST, 60°
Safety Topic: PPE, TRAFFIC, FIRENTS, POISON IVY

Contractor	# Personnel
CH2M HILL	
A&D/ECS	6
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	14.90	~~17.95~~	
RS-02	13.02	~~13.25~~	
RS-04	—	9.70	
RS-05	15.80	14.72	~~14.9~~
RS-06	~~14.97~~	~~14.97~~ SHEEN	~~15.35~~
RS-07	13.76	13.78	
RS-08	13.99	14.24	
RS-09	14.48	14.86	
RS-10	13.57	13.90	
RS-11	13.30	13.67	
RS-12	13.57	13.92	
RS-13	—	13.35	
RS-14	9.41	9.28	
RS-15	8.70	8.75	
RS-16	—	9.67	
RS-17	—	7.36	
RS-18	14.25	14.65	
RS-19		damaged	
RS-20	—	8.63	
RT-1A	14.69	14.80	
RT-1B	14.63	14.76	
RT-1C	15.10	15.16	
RT-2A	1.02	1.03	
RT-2B	1.15	1.16	
RT-2C	1.59	1.60	
RT-2D	—	1.69	
RT-2E	—	1.80	
RT-2F	—	2.13	
RT-2G	—	3.26	
RT-2H		damaged	
RT-2I	3.25	3.26	
RT-2J	~~1.93~~	1.94	
RT-2K	—	2.66	
RT-2L	2.35	2.36	
RW-01	~~11.55~~	11.55	
RW-02	23.40	23.64	
RW-03	23.90	Sheen	
RW-04	30.05	30.45	
RW-05	32.85	33.22	
RW-06	~~26.90~~	26.90	
RW-07	23.26	24.40	
RW-08	17.08	17.09	
RW-09	13.85	14.15	
RW-10	15.60	17.92	
RW-11	12.28	12.29	
RW-12	14.05	14.06	
RW-13	16.06	16.90	
RW-14	—	12.54 SHEEN	
RW-15	16.91	17.55	
TANK	4.60	4.92	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01	—	5.40	
MW-01B	—	8.65	
MW-02	—	6.80	
MW-02B	—	8.20	
MW-03	—	8.43	
MW-04	—	10.92	
MW-05	—	16.38	
MW-06	—	16.78	
MW-07	—	13.19	
MW-08	—	12.31	
MW-09	—	6.99	
MW-10	—	12.75	
MW-11	30.15	30.57	
MW-12	13.90	13.91	
MW-12B	—	14.22	
MW-13	—	22.04	
MW-13B	—	23.02	
MW-14	—	16.90	
MW-14B	—	19.08	
MW-15	—	13.00	
MW-15B	—	15.80	
MW-16	13.02	14.82	
MW-17	—	10.82	
MW-17B	—	17.78	
MW-18	13.84	16.70	
MW-19	—	11.61	
MW-20	12.93	14.06	
MW-21	—	17.08	
MW-22	—	9.95	
MW-23	—	10.42	
MW-23B	—	12.44	
MW-24	—	4.49	
MW-24B	—	5.41	
MW-25	—	8.15	
MW-25B	—	5.22	
MW-26	—	5.08	
MW-26B	—	7.88	
MW-27	—	26.70	
MW-27B	—	31.09	
MW-28	—	22.88	
MW-29	—	8.32	
MW-30	—	13.65	
MW-31	—	19.85	
MW-31B	—	20.45	
MW-32	—	11.77	
MW-33	—	25.69	
MW-33T	—	27.00	
MW-34		proposed	
MW-35	—	8.82	
MW-36	—	20.69	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B	—	20.38	
MW-37	—	3.48	
MW-38	—	1.88	
MW-39	—	5.21	
MW-40	—	2.35	
MW-41	—	3.95	
MW-42	—	4.50	
MW-43		proposed	
MW-43B		proposed	
MW-44	—	7.78	
MW-44B	—	13.45	
MW-45	—	13.92	
MW-45B	—	16.53	
TW-04R	—	4.20	
TW-05R	—	3.64	
TW-14R	—	3.43	
TW-15R	—	2.58	
TW-21	—	1.89	
TW-28	23.16	23.45	
TW-30	—	21.45	
TW-34	—	22.22	
TW-35	—	22.69	
TW-40	—	28.76	
TW-41	—	27.42	
TW-42	25.65	26.85	
TW-45	27.27	27.85	
TW-46	—	GONE	
TW-55	—	8.82	
TW-59	—	13.90 damaged	
TW-60	—	9.45	
TW-64	—	17.87	
TW-65	—	21.95	
TW-66	—	1.78	
TW-67	—	12.65	
TW-68	—	23.54	
TW-69	—	14.15	
TW-70	—	18.44	
TW-73	—	7.25	
TW-76	—	16.50	
TW-81	—	2.06	
TW-82	—	1.75	
TW-83	—	2.61	
TW-84	—	3.36	
TW-85	—	11.95	
TW-86	—	4.46	
TW-87	—	4.82	
TW-90	—	15.02	
TW-94	7.17	7.18	
TW-96	—	9.02	
SW-01		0.89	
SW-02		1.54	
SW-03		1.96	
SW-05		DRY	
SW-08		1.24	
SW-10		0.48	

5/7 13:30

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): THOMAS BARNES

Date: 5/1/17

Weather: SUNNY, 65°

Safety Topic: PPE, HAZARDS, TRAFFIC

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	14.34	15.09	
RS-02	13.11	13.33	
RS-04	–	9.72	
RS-05	14.13	15.83	
RS-06	14.88	15.38	
RS-07	13.61	13.62	
RS-08	14.01	14.20	
RS-09	14.36	14.82	
RS-10	13.46	13.91	
RS-11	13.20	13.63	
RS-12	13.49	13.93	
RS-13	–	13.53	
RS-14	9.60	9.74	
RS-15	9.07	9.10	
RS-16	~~9.~~	9.74	
RS-17	–	6.43	
RS-18	14.19	14.67	
RS-19		damaged	
RS-20	–	8.93	
RT-1A	14.60	14.67	
RT-1B	14.56	14.62	
RT-1C	14.99	15.05	
RT-2A	–	0.73	
RT-2B	–	0.82	
RT-2C	–	1.38	
RT-2D	–	1.44	
RT-2E	–	1.56	
RT-2F	–	1.92	
RT-2G	–	4.08	
RT-2H		damaged	
RT-2I	–	2.91	
RT-2J	–	1.35	
RT-2K	–	2.53	
RT-2L	–	1.90	
RW-01	–	11.59	
RW-02	22.93	23.60	
RW-03	–	23.81	
RW-04	29.90	30.38	
RW-05	32.75	33.07	
RW-06	–	26.39	
RW-07	22.51	23.30	
RW-08	–	15.97	
RW-09	13.41	13.48	
RW-10	15.98	16.89	
RW-11	12.18	12.19	
RW-12	14.11	14.12	
RW-13	16.12	16.62	
RW-14	–	13.89	
RW-15	16.96	17.31	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08			
SW-10			

FRAC TANK LEVELS

DEPTH TO PRODUCT – 4.28

DEPTH TO WATER – 4.55

Lewis Drive Daily Monitoring Sheet 1
(submit by 5PM)

Name(s): ~~Barnes~~ / Bevers / ~~Beavers~~
Date: May 11, 2017
Weather:
Safety Topic:

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	13.07	13.24	
RS-02	12.10	12.27	
RS-04	9.68	→	10.0?
RS-05	11.37	11.67	
RS-06	12.34	12.49	
RS-07	—	13.49	sheen
RS-08	13.96	14.20	
RS-09	10.86	11.10	
RS-10	~~9.19~~	~~9.82~~	
RS-11	8.93	9.47	
RS-12	9.16	9.93	
RS-13	—	7.01	
RS-14	8.13	8.21	
RS-15	8.0	8.01	
RS-16	—	5.71	
RS-17	—	5.85	
RS-18	11.23	11.65	
RS-19		damaged	
RS-20	—	12.40	
RT-1A	14.5	14.59	
RT-1B	14.46	14.49	
RT-1C	14.89	14.94	
RT-2A	—	1.13	sheen
RT-2B	—	1.23	sheen
RT-2C	—	1.46	sheen
RT-2D	—	1.76	sheen
RT-2E	—	1.87	sheen
RT-2F	—	2.22	sheen
RT-2G	—	3.04	sheen
RT-2H		damaged	
RT-2I	—	3.16	
RT-2J	1.72	1.78	
RT-2K	—	2.34	sheen
RT-2L	—	2.37	sheen
RW-01	—	11.52	
RW-02	22.41	23.16	
RW-03	—	23.16	
RW-04	29.66	30.13	
RW-05	32.73	33.16	
RW-06	—	26.75	
RW-07	23.14	24.30	
RW-08	16.80	16.81	
RW-09	13.84	14.03	
RW-10	11.24	11.86	
RW-11	12.11	12.12	
RW-12	—	14.00	
RW-13	—	9.3	
RW-14	~~12.21~~	12.30	
RW-15	15.73	15.90	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08			
SW-10			

Frac tank level
3.63 ~~4.95~~ BEB
3.95

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): B Barnes

Date: May 15 16 Daily

Weather: Sunny

Safety Topic: Sunscreen/ hydration

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	12.39	12.75	
RS-02	11.86	12.12	
RS-04	—	9.69	
RS-05	11.66	12.12	
RS-06	12.70	15.10	
RS-07	13.50	13.56	
RS-08	13.90	14.19	
RS-09	10.12	10.34	
RS-10	9.97	10.41	
RS-11	10.27	10.33	
RS-12	10.62	10.69	
RS-13	—	5.67	
RS-14	6.26	6.35	
RS-15	7.20	7.21	
RS-16	—	4.98	
RS-17	—	5.02	
RS-18	10.95	11.15	
RS-19	damaged		
RS-20	—	4.12	
RT-1A	14.56	14.61	
RT-1B	14.49	14.65	
RT-1C	14.95	15.01	
RT-2A	—	1.20	Sheen
RT-2B	—	1.31	
RT-2C	—	1.78	
RT-2D	—	1.84	
RT-2E	—	1.96	
RT-2F	—	2.29	
RT-2G	—	2.99	Sheen
RT-2H	damaged		
RT-2I	—	3.24	Sheen
RT-2J	1.76	1.78	
RT-2K	2.80	2.81	
RT-2L	—	3.24	
RW-01	11.84	11.89	
RW-02	22.29	22.79	
RW-03	23.0	23.02	
RW-04	29.46	29.82	
RW-05	33.76	33.27	
RW-06	26.65	26.66	
RW-07	23.05	24.16	
RW-08	16.57	16.56	
RW-09	13.10	13.22	
RW-10	12.15	12.40	
RW-11	—	12.19	
RW-12	13.93	13.95	
RW-13	—	26.8	sparging intake
RW-14	—	12.10	
RW-15	~~16.55~~	15.80	

Frac Tank

2.69 3.12

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08			
SW-10			

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): JAMES BEVERS (ECS)

Date: 5/18

Weather: OVERCAST 70°F

Safety Topic:

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	12.24	12.40	
RS-02	11.77	12.03	
RS-04	—	9.68	
RS-05	11.33	11.61	
RS-06	12.58	12.77	
RS-07	13.52	13.56	
RS-08	13.99	14.19	
RS-09	9.98	10.18	
RS-10	9.46	9.92	
RS-11	9.76	9.79	
RS-12	10.02	10.31	5.45
RS-13	—	~~10.3~~	~~BUBBLING~~
RS-14	6.08	6.14	
RS-15	—	9.01	SHEEN
RS-16	—	9.84	
RS-17	—	4.35	
RS-18	10.56	11.01	
RS-19		damaged	
RS-20	—	3.93	
RT-1A	14.53	14.61	
RT-1B	14.51	14.56	
RT-1C	14.95	14.99	
RT-2A	—	1.12	
RT-2B	—	1.22	
RT-2C	—	1.66	SHEEN
RT-2D	—	1.75	BUBBLING
RT-2E	—	1.85	
RT-2F	—	2.19	
RT-2G	—	3.17	
RT-2H		damaged	
RT-2I	—	3.18	
RT-2J	1.80	1.81	BUBBLING
RT-2K	—	2.45	
RT-2L	—	2.38	
RW-01	—	11.79	ODOR
RW-02	22.31	22.61	
RW-03	—	22.81	SHEEN
RW-04	29.33	29.73	
RW-05	32.80	32.96	
RW-06	—	26.88	SHEEN
RW-07	23.33	24.42	
RW-08	—	17.22	
RW-09	14.01	14.12	
RW-10	—	12.66	
RW-11	12.20	12.21	
RW-12	—	13.93	
RW-13	—	10.3	BUBBLING
RW-14	—	12.44	
RW-15	15.49	15.68	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08			
SW-10			

TANK 2.27 2.67

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): THOMAS BARNES

Date: 5/22/17

Weather: CLOUDY 75°

Safety Topic: PPE, TRAFFIC, PRESSURE

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	12.62	12.92	
RS-02	11.87	12.13	
RS-04	—	8.80	
RS-05	11.80	12.18	
RS-06	12.50	12.71	
RS-07	13.31	13.32	
RS-08	13.89	14.10	
RS-09	9.90	10.15	
RS-10	[illegible]	9.41 9.42	
RS-11	9.60	9.63	
RS-12	9.91	9.95	
RS-13	—	3.95	
RS-14	3.97	4.04	
RS-15	4.90	4.94	
RS-16	—	3.03	
RS-17	—	2.05	
RS-18	9.27	9.65	
RS-19		damaged	
RS-20	—	3.25	
RT-1A	14.40	14.45	
RT-1B	14.35	14.40	
RT-1C	14.80	14.85	
RT-2A	—	0.68	
RT-2B	—	0.85	
RT-2C	—	1.30	
RT-2D	—	1.38	
RT-2E	—	1.53	
RT-2F	—	1.84	
RT-2G	—	2.76	
RT-2H	[illegible]	damaged	
RT-2I	—	2.66	
RT-2J	1.31	1.32	
RT-2K	1.45	1.47	
RT-2L	—	2.08	
RW-01	—	11.77	
RW-02	22.14	22.43	
RW-03	22.61	22.62	
RW-04	29.12	29.70	
RW-05	32.71	32.94	
RW-06	—	26.81	
RW-07	23.17	23.83	
RW-08	—	17.05	
RW-09	13.65	13.69	
RW-10	—	11.91	
RW-11	—	11.78	
RW-12	—	13.93	
RW-13			
RW-14	—	12.05	
RW-15	15.25	15.34	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

RW-13 SERIOUS PRESSURE BUBBLING ALOT, UNABLE TO GET READINGS OR PUT CAP BACK ON A&D PUMPED

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08			
SW-10			

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): THOMAS BARNES

Date: 5/24/17

Weather: CLOUDY, SHOWERS 730

Safety Topic: PPE, PRESSURE, TRAFFIC

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

*Confirm all instances of LNAPL with a bailer.

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	11.25	11.53	
RS-02	10.31	10.57	
RS-04	–	9.30	
RS-05	10.41	10.75	
RS-06	11.78	11.94	
RS-07	–	13.16	
RS-08	13.57	13.78	
RS-09	~~13.15~~	~~13.19~~ 9.15	9.30
RS-10	8.02	8.03	
RS-11	8.31	8.33	
RS-12	8.62	8.73	
RS-13	–	2.75	
RS-14	3.17	3.26	
RS-15	3.89	3.91	
RS-16	–	2.27	
RS-17	–	1.30	
RS-18	9.48	9.87	
RS-19		damaged	
RS-20	–	2.08	
RT-1A	14.17	14.27	
RT-1B	14.12	14.22	
RT-1C	14.57	14.65	
RT-2A	–	0.70	
RT-2B	–	0.78	
RT-2C	–	1.30	
RT-2D	–	1.38	
RT-2E	–	1.48	
RT-2F	–	1.85	
RT-2G	–	2.90	
RT-2H		damaged	
RT-2I	–	2.66	
RT-2J	–	1.27	
RT-2K	0.99	1.00	
RT-2L	–	1.92	
RW-01	–	11.76	
RW-02	21.41	21.86	
RW-03	–	22.09	
RW-04	28.95		
RW-05	32.52	32.86	NEEDS NEW LOCK
RW-06	–	26.93	
RW-07	22.39	22.95	
RW-08	–	15.93	
RW-09	13.15	13.17	
RW-10	–	10.83	
RW-11	11.11	11.15	
RW-12	–	13.03	
RW-13	–	~6.20 ±	
RW-14	–	12.15	
RW-15	–	14.72	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08			
SW-10			

FRAC TANK LEVELS

DEPTH TO PRODUCT – 3.69

DEPTH TO WATER – 4.07

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): Britney Barnes

Date: May 31 2017

Weather: Cloudy / 75°F

Safety Topic:

Contractor	# Personnel
CH2M HILL	
STAT	
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	9.87	10.25	
RS-02	10.69	11.05	
RS-04	—	9.67	
RS-05	11.65	12.14	
RS-06	12.05	12.31	
RS-07	—	13.0	
RS-08	13.29	13.57	
RS-09	9.38	9.67	
RS-10	11.25	11.73	
RS-11	12.72	12.73	
RS-12	13.03	13.10	
RS-13	—	5.75	
RS-14	4.55	4.65	
RS-15	5.08	5.10	
RS-16	—	3.80	
RS-17	—	3.25	
RS-18	9.95	10.40	
RS-19	Damaged		
RS-20	—	4.40	
RT-1A	14.03	14.15	
RT-1B	13.98	14.12	
RT-1C	14.42	14.55	
RT-2A	—	0.7	Sheen
RT-2B	—	0.9	Sheen/odor
RT-2C	—	1.49	Sheen
RT-2D	—	1.60	Sheen/odor
RT-2E	—	1.96	Sheen
RT-2F	—	2.06	Sheen
RT-2G	—	2.41	
RT-2H	~~2.45~~		Damaged
RT-2I	~~0.98 1.00~~	2.45	
RT-2J	0.98	1.00	
RT-2K	0.95	0.97	
RT-2L	~~2.20~~	2.20	Odor
RW-01	—	13.68	ODOR
RW-02	21.6	22.0	
RW-03	—	24.52	
RW-04	28.57	~~28.35~~	
RW-05	32.43	32.89	
RW-06	26.43	26.44	
RW-07	22.71	23.5	
RW-08	16.11	16.12	
RW-09	13.40	13.43	
RW-10	18.43	19.15	
RW-11	11.53	11.67	
RW-12	—	13.31	
RW-13	—	23.28	
RW-14	—	11.99	
RW-15	—	15.24	
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-32			
MW-33			
MW-33T			
MW-35			
MW-36			
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			

Corrected to 29.35 - SFP

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59			
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-08			
SW-10			

seep between RT 2C + 2B

FRAC 2.8 3.28

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): JIM BEERS

Date: 6/2/2017

Weather: SUNNY / 80°F

Safety Topic:

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

* Confirm all instances of LNAPL with a bailer.

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	11.01	11.24	
RS-02	9.99	10.17	
RS-04	—	9.66	REP LOCK
RS-05	10.73	11.06	
RS-06	10.95	11.03	REP LOCK
RS-07	—	12.91	ODOR
RS-08	13.16	13.37	REP LOCK
RS-09	11.12	11.33	
RS-10	8.91	9.22	
RS-11	—	8.49	
RS-12	8.78	8.81	
RS-13	—	7.90	
RS-14	5.46	5.52	
RS-15	5.78	5.80	
RS-16	—	4.23	
RS-17	—	4.99	
RS-18	11.82	12.01	
RS-19		damaged	
RS-20	—	5.11	
RT-1A	13.88	13.93	REP LOCK
RT-1B	13.83	13.88	
RT-1C	14.27	14.32	
RT-2A	—	0.88	EXCAP DEBRIS
RT-2B	—	0.78	ODOR. TIGHTEN
RT-2C	—	1.43	SLIGHT ODOR.
RT-2D	—	1.52	SHEEN/ODOR
RT-2E	—	1.63	SHEEN/LOCK-REP
RT-2F	—	1.99	*
RT-2G	—	0.76	REP-LOCK
RT-2H		damaged	
RT-2I	—	1.97	
RT-2J	1.16	1.17	
RT-2K	0.98	1.00	
RT-2L	—	1.97	ODOR
RW-01	—	11.77	
RW-02	21.50	21.73	
RW-03	—	22.19	ODOR
RW-04	28.52	29.36	
RW-05	32.92	32.66	REP LOCK
RW-06	—	26.26	
RW-07	22.38	23.13	
RW-08	—	15.48	
RW-09	12.70	12.71	
RW-10	10.63	10.64	
RW-11	11.49	11.61	
RW-12	—	13.29	ODOR
RW-13	—	9.20	AIR BUBBLING ODOR
RW-14	—	7.85	AIR BUBBLING
RW-15	—	14.15	ODOR

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08			
SW-10			

TANK 2.78, 3.24

* LOCK SHOULD BE CUT OFF & REPLACED

Lewis Drive Daily Monitoring Sheet 1
(submit by 5PM)

Name(s): THOMAS BARNES
Date: 6/14/17
Weather: PERIODS OF RAIN, 80°
Safety Topic: TRAFFIC, PPE, FIREANTS/POISON IVY

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

***Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01			
RS-02			
RS-04			
RS-05			
RS-06			
RS-07			
RS-08			
RS-09			
RS-10			
RS-11			
RS-12			
RS-13			
RS-14			
RS-15			
RS-16			
RS-17			
RS-18			
RS-19		damaged	
RS-20			
RT-1A			
RT-1B			
RT-1C			
RT-2A			
RT-2B			
RT-2C			
RT-2D			
RT-2E			
RT-2F			
RT-2G			
RT-2H		damaged	
RT-2I			
RT-2J			
RT-2K			
RT-2L			
RW-01			
RW-02			
RW-03			
RW-04			
RW-05			
RW-06			
RW-07			
RW-08			
RW-09			
RW-10			
RW-11			
RW-12			
RW-13			
RW-14			
RW-15			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01		6.22	
MW-01B		7.90	
MW-02		2.44	
MW-02B		2.31	
MW-03		BUBBLING OUT OF TOP	
MW-04		7.90	
MW-05		14.90	
MW-06		15.55	
MW-07		12.68	
MW-08		8.90	
MW-09		2.66	
MW-10		9.33	
MW-11	28.72	28.73	
MW-12		13.70	
MW-12B		14.03	
MW-13		21.20	
MW-13B		21.58	
MW-14		16.52	
MW-14B		18.13	
MW-15		13.68	
MW-15B		15.56	
MW-16	9.26	9.30	
MW-17		10.82	
MW-17B		16.55	
MW-18	10.57	11.97	
MW-19		10.85	
MW-20	12.08	13.27	
MW-21		16.61	
MW-22		9.66	
MW-23		10.01	
MW-23B		11.93	
MW-24		4.49	
MW-24B		5.44	
MW-25		8.05	
MW-25B		5.01	
MW-26		5.14	
MW-26B		7.25	
MW-27		25.86	
MW-27B		30.39	
MW-28		22.52	
MW-29		7.71	
MW-30		[illegible]	11.79
MW-31		17.75	
MW-31B		18.45	
MW-32		7.30	
MW-33		24.21	
MW-33T		25.75	
MW-34		proposed	
MW-35		7.93	
MW-36		19.80	

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B		19.48	
MW-37			
MW-38			
MW-39		4.85	
MW-40		3.13	
MW-41		4.00	
MW-42		4.57	
MW-43		proposed	
MW-43B		proposed	
MW-44		7.28	
MW-44B		12.54	
MW-45		13.48	
MW-45B		15.75	
TW-04R		4.01	
TW-05R		5.70	
TW-14R		4.53	
TW-15R		2.91	
TW-21		2.65	
TW-28	21.59	22.35	
TW-30		20.40	
TW-34		22.25	
TW-35		22.71	
TW-40		28.46	
TW-41		26.70	
TW-42	25.14	26.30	
TW-45	26.85	27.20	
TW-46		[illegible]	GONE
TW-55		[illegible]	4.95
TW-59		13.71	damaged
TW-60		9.48	
TW-64		15.55	
TW-65		20.35	
TW-66		1.75	
TW-67		12.47	
TW-68		22.41	
TW-69		12.06	
TW-70		17.69	
TW-73		6.18	BUBBLING DIRT
TW-76		14.76	
TW-81		2.75	
TW-82		2.50	
TW-83		3.25	
TW-84	3.74	3.75	
TW-85		8.61	
TW-86		4.94	
TW-87		4.95	
TW-90		11.27	
TW-94		1.70	BUBBLING
TW-96		[illegible]	5.35
SW-01		0.98	
SW-02		1.57	
SW-03		1.74	
SW-05		DRY	
SW-08			
SW-10			

[redacted]

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): JIM BEVERS

Date: 6/5/2017

Weather: CLOUDY 70°F

Safety Topic:

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

* Confirm all instances of LNAPL with a bailer.

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	10.57	10.81	
RS-02	10.06	10.30	
RS-04	—	9.67	
RS-05	10.30	10.62	
RS-06	11.17	11.35	
RS-07	—	12.81	
RS-08	13.18	13.34	
RS-09	9.30	9.48	
RS-10	9.73	10.06	
RS-11	—	8.86	
RS-12	9.18	9.21	
RS-13	—	6.28	
RS-14	5.13	5.20	
RS-15	5.60	5.62	
RS-16	—	4.24	
RS-17	—	3.75	
RS-18	9.77	9.94	
RS-19		damaged	
RS-20	—	4.34	
RT-1A	13.80	13.82	
RT-1B	13.76	13.79	
RT-1C	14.19	14.21	
RT-2A	—	1.00	
RT-2B	—	1.11	ODOR
RT-2C	—	1.56	ODOR
RT-2D	—	1.65	** ODOR
RT-2E	—	1.76	
RT-2F	—	2.08	ODOR
RT-2G	—	2.81	
RT-2H		damaged	
RT-2I	—	2.97	
RT-2J	1.50	1.51	SHEEN
RT-2K	0.85	0.87	*
RT-2L	—	2.10	
RW-01	—	11.72	ODOR
RW-02	21.38	21.60	
RW-03	—	22.05	
+ RW-04	28.34	29.27	
RW-05	32.22	32.45	
RW-06	—	26.34	ODOR
+ RW-07	22.88	23.44	
RW-08	—	16.51	ODOR
RW-09	—	13.51	ODOR
RW-10	12.07	12.08	
RW-11	11.43	11.67	
RW-12	—	13.28	ODOR
RW-13	—	2.25	BUBBLING
RW-14	—	12.03	
RW-15	—	14.23	ODOR

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
→ MW-37	—	3.46	
→ MW-38	—	1.86	
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
→ SW-08			
→ SW-10			

TANK 1.92 2.32

* OVERLAND PETROLEUM SHEEN - DOWNGRADIENT

** OVERLAND PETROLEUM SHEEN - UPGRADIENT

FAST FIELD BCBARNES 1235 ECS greenville 14

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): Barney Burpes

Date: 6/9/17

Weather: Sunny 80°

Safety Topic: PPE / Traffic

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	10.52	10.81	
RS-02	9.74	10.0	
RS-04	—	9.68	
RS-05	10.51	10.95	
RS-06	11.16	11.38	
RS-07	12.75	12.76	
RS-08	13.03	13.25	
RS-09	9.38	9.90	
RS-10	9.05	9.40	
RS-11	—	9.19	
RS-12	9.51	9.53	
RS-13	—	4.13	
RS-14	4.32	4.40	
RS-15	5.09	5.12	
RS-16	—	3.50	
RS-17	—	1.26	
RS-18	9.98	10.04	
RS-19		damaged	
RS-20	—	4.12	
RT-1A	13.74	13.86	
RT-1B	13.69	13.81	
RT-1C	14.14	14.25	
RT-2A	—	0.48	
RT-2B	—	0.5 odor	
RT-2C	—	1.4 ~~0.5~~ odor	
RT-2D	—	~~1.40~~ 1.57	
RT-2E	—	1.43 odor/sheen	
RT-2F	—	1.92 odor/sheen	
RT-2G	—	0.98 odor/sheen	
RT-2H		damaged	
RT-2I	—	2.13 odor	
RT-2J	—	0.50	
RT-2K	—	2.39	
RT-2L	2.15	2.21	
RW-01	—	12.33 odor	
RW-02	21.26	21.48	
RW-03	—	22.3 strong odor	
RW-04	28.32	28.99	
RW-05	32.33	32.71	
RW-06	—	26.28	
RW-07	22.42	22.92	
RW-08	—	15.48	
RW-09	12.7	12.71	
RW-10	12.47	12.53	
RW-11	11.16	11.45	
RW-12	—	13.20 strong odor	
RW-13	—	14.18 sparging	
RW-14	—	9.12	
RW-15	—	12.13	

Frac 3.65 3.81

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08		1.07	
SW-10		0.30	

Lewis Drive Daily Monitoring Sheet 1

(submit by 5PM)

Name(s): Britney Barnes

Date: June 12, 2017

Weather: 80°F Sunny

Safety Topic: PPE, TRAFFIC, HYDRATION

Contractor	# Personnel
CH2M HILL	
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	10.68	11.05	
RS-02	9.96	10.30	
RS-04	—	9.67	ODOR
RS-05	10.94	11.22	~~ODOR~~ DUH!
RS-06	11.20	11.39	
RS-07	12.71	12.75	
RS-08	13.10	13.28	
RS-09	9.81	10.51	
RS-10	9.41	9.73	
RS-11	—	9.36	
RS-12	9.68	9.72	
RS-13	—	6.75	
RS-14	5.10	5.20	
RS-15	5.67	5.70	
RS-16	—	4.25	
RS-17	—	3.69	
RS-18	10.30	10.51	
RS-19		damaged	
RS-20	—	4.78	
RT-1A	13.86	13.95	
RT-1B	13.82	13.92	
RT-1C	14.27	14.36	
RT-2A	—	0.7	
RT-2B	—	1.11	
RT-2C	—	1.57	ODOR
RT-2D	—	1.562	ODOR
RT-2E	—	1.72	ODOR
RT-2F	—	2.04	sheen
RT-2G	—	2.28	sheen
RT-2H		damaged	
RT-2I	—	2.72	
RT-2J	—	1.26	
RT-2K	1.21	1.25	
RT-2L	2.28	2.31	
RW-01	—	12.81	
RW-02	21.28	21.50	
RW-03	—	21.98	ODOR
RW-04	28.28	28.70	
RW-05	32.24	~~32.65~~	
RW-06	—	26.51	
RW-07	22.66	23.10	
RW-08	—	15.96	ODOR
RW-09	—	15.17	
RW-10	12.71	12.85	
RW-11	11.20	11.49	
RW-12	—	13.24	
RW-13	—	Well Not gauged	
RW-14	—	12.68	ODOR
RW-15	—	14.11	ODOR

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-01			
MW-01B			
MW-02			
MW-02B			
MW-03			
MW-04			
MW-05			
MW-06			
MW-07			
MW-08			
MW-09			
MW-10			
MW-11			
MW-12			
MW-12B			
MW-13			
MW-13B			
MW-14			
MW-14B			
MW-15			
MW-15B			
MW-16			
MW-17			
MW-17B			
MW-18			
MW-19			
MW-20			
MW-21			
MW-22			
MW-23			
MW-23B			
MW-24			
MW-24B			
MW-25			
MW-25B			
MW-26			
MW-26B			
MW-27			
MW-27B			
MW-28			
MW-29			
MW-30			
MW-31			
MW-31B			
MW-32			
MW-33			
MW-33T			
MW-34		proposed	
MW-35			
MW-36			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-36B			
MW-37			
MW-38			
MW-39			
MW-40			
MW-41			
MW-42			
MW-43		proposed	
MW-43B		proposed	
MW-44			
MW-44B			
MW-45			
MW-45B			
TW-04R			
TW-05R			
TW-14R			
TW-15R			
TW-21			
TW-28			
TW-30			
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46			
TW-55			
TW-59		damaged	
TW-60			
TW-64			
TW-65			
TW-66			
TW-67			
TW-68			
TW-69			
TW-70			
TW-73			
TW-76			
TW-81			
TW-82			
TW-83			
TW-84			
TW-85			
TW-86			
TW-87			
TW-90			
TW-94			
TW-96			
SW-01			
SW-02			
SW-03			
SW-05			
SW-08			
SW-10			

Frac tank 3.09 3.21

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	06/15/2017	10:58	10.86	11.29		
RS-02	06/15/2017	12:26	10.25	10.64		
RS-04	06/15/2017	12:28		9.67		
RS-05	06/15/2017	12:28	10.82	11.2		
RS-06	06/15/2017	12:29	11.27	11.51		
RS-07	06/15/2017	12:29	12.7	12.71		
RS-08	06/15/2017	12:30	13.07	13.25		
RS-09	06/15/2017	12:31	10.08	10.32		
RS-10	06/15/2017	12:31	9.6	9.97		
RS-11	06/15/2017	12:31		9.47		
RS-12	06/15/2017	12:32	9.77	9.81		
RS-13	06/15/2017	12:32		7.84		
RS-14	06/15/2017	12:32	5.72	5.81		
RS-15	06/15/2017	12:33	6.06	6.08		
RS-16	06/15/2017	12:33		4.87		
RS-17	06/15/2017	12:33		4.27		
RS-18	06/15/2017	12:34	10.52	10.75		
RS-20	06/15/2017	12:34		5.21		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-2A	06/15/2017	10:59		1.09		
RT-2L	06/15/2017	10:59	2.42	2.49		
RT-1A	06/15/2017	12:42	13.65	13.69		
RT-1B	06/15/2017	12:42	13.61	13.65		
RT-1C	06/15/2017	12:43	14.03	14.08		
RT-2B	06/15/2017	12:43		1.17		
RT-2C	06/15/2017	12:43		1.66		
RT-2D	06/15/2017	12:44		1.71		
RT-2E	06/15/2017	12:44		1.81		
RT-2F	06/15/2017	12:44		2.17		
RT-2G	06/15/2017	12:44		2.91		
RT-2I	06/15/2017	12:45		3.01		
RT-2J	06/15/2017	12:45	2.51	2.52		
RT-2K	06/15/2017	12:45		2.59		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	06/15/2017	12:35		12.04		
RW-02	06/15/2017	12:35	21.37	21.67		
RW-03	06/15/2017	12:36		22		
RW-04	06/15/2017	12:36	28.28	28.62		
RW-05	06/15/2017	12:37	32.13	32.59		
RW-06	06/15/2017	12:37		26.37		
RW-07	06/15/2017	12:38	22.92	23.6		
RW-08	06/15/2017	12:38		16.77		
RW-09	06/15/2017	12:38	16.62	16.63		
RW-10	06/15/2017	12:39	12.78	12.99		
RW-11	06/15/2017	12:39	11.4	11.77		
RW-12	06/15/2017	12:39		13.19		
RW-13	06/15/2017	12:39				Sparging
RW-14	06/15/2017	12:40		11.95		
RW-15	06/15/2017	12:40	14.16	14.17		Storage Tank - Product 2.41 / DTW 2.60

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	06/19/2017	15:18	11	11.49		
RS-02	06/19/2017	15:19	10.5	10.95		
RS-04	06/19/2017	15:19		9.7		
RS-05	06/19/2017	15:20	10.58	10.99		
RS-06	06/19/2017	15:20	11.18	11.41		
RS-07	06/19/2017	15:20	12.73	12.76		
RS-08	06/19/2017	15:21	13.1	13.35		
RS-09	06/19/2017	15:21	10.04	10.22		
RS-10	06/19/2017	15:22	9.3	9.57		
RS-11	06/19/2017	15:22		9.07		
RS-12	06/19/2017	15:22	9.38	9.4		
RT-2J	06/19/2017	15:23		8.1		
RS-14	06/19/2017	15:23	6.2	6.28		
RS-15	06/19/2017	15:23	6.38	6.4		
RS-16	06/19/2017	15:24		5.38		
RS-17	06/19/2017	15:24		4.85		
RS-18	06/19/2017	15:24	10.55	10.75		
RS-20	06/19/2017	15:25		5.39		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	06/19/2017	15:32	13.76	13.88		
RT-1B	06/19/2017	15:33	13.71	13.83		
RT-1C	06/19/2017	15:33	14.18	14.28		
RT-2A	06/19/2017	15:33		1.04		
RT-2B	06/19/2017	15:33		1.12		Odor
RT-2C	06/19/2017	15:34		1.59		Odor
RT-2D	06/19/2017	15:34		1.7		Odor
RT-2E	06/19/2017	15:34		1.79		
RT-2F	06/19/2017	15:34		2.11		
RT-2G	06/19/2017	15:35		2.26		
RT-2I	06/19/2017	15:35		2.67		
RT-2J	06/19/2017	15:35		1.5		Odor
RT-2K	06/19/2017	15:35		2.34		
RT-2L	06/19/2017	15:36	2.32	2.33		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	06/19/2017	15:26		12.56		
RW-02	06/19/2017	15:26	21.47	21.81		
RW-03	06/19/2017	15:26		22.1		Odor
RW-04	06/19/2017	15:27	28.21	28.64		
RW-05	06/19/2017	15:27	32.17	32.75		
RW-06	06/19/2017	15:27		26.3		Odor
RW-07	06/19/2017	15:28	22.76	23.32		
RW-08	06/19/2017	15:28	16.24	16.25		
RW-10	06/19/2017	15:28	12.39	12.72		
RW-11	06/19/2017	15:29	11.16	11.47		
RW-12	06/19/2017	15:29		13.35		Odor
RT-2J	06/19/2017	15:29				
RW-09	06/19/2017	15:30	13.51	13.52		
RW-13	06/19/2017	15:30				No level measured Lock would not open need bolt cutters and to put on new lock
RW-14	06/19/2017	15:30				
RW-15	06/19/2017	15:31	14.1	14.11		

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	06/22/2017	11:50	11.75	11.85		
RS-02	06/22/2017	11:51	10.22	10.46		
RS-04,RS-19	06/22/2017	11:51		9.68		Odor
RS-05	06/22/2017	11:52	10.67	11.07		
RS-06	06/22/2017	11:52	11.26	11.45		
RS-07	06/22/2017	11:53		12.62		Odor
RS-08	06/22/2017	11:53	12.95	13.15		
RS-09	06/22/2017	11:53	9.67	9.89		
RS-10	06/22/2017	11:54	9.22	9.48		
RS-11	06/22/2017	11:54		9.01		Odor
RS-12	06/22/2017	11:55	9.33	9.34		
RS-13	06/22/2017	11:55		5.55		
RS-14	06/22/2017	11:55	4.47	4.53		
RS-15	06/22/2017	11:56	6.31	6.33		
RS-16	06/22/2017	11:56		3.61		
RS-17	06/22/2017	11:56		2.83		
RS-18	06/22/2017	11:56	9.52	9.72		
RS-20	06/22/2017	11:57		4.59		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-2A	06/22/2017	11:34		0.8		
RT-2B	06/22/2017	11:40		0.88		
RT-2C	06/22/2017	11:40	1.39	1.4		
RT-2D	06/22/2017	11:41		1.46		Odor
RT-2E	06/22/2017	11:42		1.58		
RT-2F	06/22/2017	11:43		1.9		
RT-2G	06/22/2017	11:44		2.79		
RT-2I	06/22/2017	11:46		2.95		
RT-2J	06/22/2017	11:46		1.52		
RT-2K	06/22/2017	11:46		3.07		
RT-2L	06/22/2017	11:46	2.81	2.86		
RT-1A	06/22/2017	11:47	13.49	13.52		
RT-1B	06/22/2017	11:48	13.46	13.48		
RT-1C	06/22/2017	11:48	13.88	13.91		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	06/22/2017	11:58		12.17		Odor, pressure on cap
RW-02	06/22/2017	11:58	21.34	21.62		
RW-03	06/22/2017	11:59		22.01		Odor
RW-04	06/22/2017	11:59	28.23	28.71		
RW-05	06/22/2017	11:59	32.11	32.72		
RW-06	06/22/2017	11:59	26.48	26.49		
RW-07	06/22/2017	12:00	22.92	23.44		
RW-08	06/22/2017	12:00	16.89	16.9		
RW-09	06/22/2017	12:01	13.52	13.54		
RW-10	06/22/2017	12:01	11.99	12.75		Cracked well cap
RW-11	06/22/2017	12:01	11.62	11.79		
RW-12	06/22/2017	12:02		13.15		Odor
RW-13	06/22/2017	12:02				No measurement, air sparging
RW-14	06/22/2017	12:02		9.32		
RW-15	06/22/2017	12:03		14	14.01	

Table 2 - Gauging List

SM: Tom Wiley
PN: 684910.LD.MR.GW
Project: June 2017 Quarterly Event
Technicians: J. McCann, M. Warren, M. Sumner
Client: Plantation Pipe Line

Weather: Sunny, 80/84°F
Measuring Method: oil/water interface probe, YSI 600
Date: 6/26/17

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (ft BTOC)	Product Thickness (ft)	DO (mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
Brown's Creek Protection Zone								
MW-12	1650	709.4	—	13.29	21.67	—	0.50	has TROLL
MW-12B	1648	9.2	—	13.63	25.24	—	0.70	
MW-15	1546	15.7	—	11.09	21.22	—	1.45	has TROLL covered in sludge
MW-15B	1537	47.3	—	5.78	80.40	—	0.66	
MW-24	1913	0.0	—	4.51	15.29	—	-	
MW-24B	1912	0.3	—	5.41	42.43	—	-	
MW-25	1629	0.8	—	7.81	18.016	—	0.48	
MW-25B	1626	0.0	—	4.85	58.49	—	1.13	
MW-28	1640	138.3	—	22.65	26.02	—	0.50	
MW-34	1516	0.0	—	2.43	7.79	—	-	
MW-35	1636	3.5	—	9.08	28.51	—	-	
MW-37	1921	3.2	—	3.42	18.016	—	-	
MW-38	1919	0.0	—	1.80	11.46	—	-	
MW-39	1600	13.8	—	4.13	12.03	—	-	
MW-40	1601	38.6	—	2.03	13.16	—	-	
MW-41	1622	1.1	—	3.79	13.15	—	-	
MW-42	1624	0.0	—	7.76	13.36	—	-	
TW-59	1624	0.0	—	13.47	15.82	—	-	bad bentonite seal
TW-60	1612							bolt jammed, could not open
TW-66	1618	0.0	—	>1.0	23.80	—	4.57	
Cupboard Creek Protection Zone								
MW-19	1220	795.5	—	10.50	12.11	—	0.18	low flow
MW-20	1224	1340	11.42	12.95	18.35	1.33	—	has TROLL
MW-23	1356	0.0	—	9.72	23.19	—	-	
MW-23B	1350	0.0	—	7.23	41.04	—	-	
MW-26	1348	0.3	—	4.93	15.26	—	-	
MW-26B	1357	0.4	—	11.58	53.51	—	-	
MW-29	1209	0.0	—	15.84	15.04	—	—	
				7.68			5.80	

SM: Tom Wiley
PN: 684910.LD.MR.GW
Project: June 2017 Quarterly Event
Technicians: J. McCann, M. Sumner, M. Warren
Client: Plantation Pipe Line

Weather: Sunny 80/84°F
Measuring Method: oil/water interface probe YSI ProODO
Date: 6/26/17

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (ft BTOC)	Product Thickness (ft)	DO (mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
TW-67	1420	6.5	—	11.76	26.46	—	10.86	
TW-73	1215	0.0	—	~~11.32~~	11.32	—	~~8.37~~	~~[illegible]~~ (0.4)=DTW
Hayfield Zone								
MW-02	1811	398.5	—	1.82	19.77	—	5.30	has TROLL
MW-02B	1806	2.1	—	2.41	68.35	—	3.74	
MW-03	1819	6.5	—	8.15	20.28	—	10.25	under pressure
MW-04	1833	0.0	—	8.21	19.56	—	10.51	
MW-05	1840	0.0	—	14.52	19.72	—	-	water in vault
MW-06	1848	0.0	—	14.85	15.12	—	-	dry
MW-07	1853	342.0	—	12.73	13.57	—	-	low flow
MW-08	1739	0.0	—	8.25	19.78	—	7.14	has TROLL
MW-09	1745	153.1	—	2.30	20.21	—	8.72	
MW-10	1758	0.0	—	9.60	23.21	—	5.95	has BaroTROLL
MW-13	1712	131.4	—	20.78	22.15	—	-	low flow
MW-13B	1710	16.7	—	21.30	55.44	—	-	
MW-14	1718	0.0	-	16.51	22.16	—	-	
MW-14B	1716	0.6	—	17.85	79.35	—	-	
MW-16	1856	2340	—	8.71	20.58	—	8.46	
MW-17	1432	100.5	—	10.82	11.18	—	-	dry
MW-17B	1430	163.1	—	16.96	27.32	—	-	
MW-18	1903	134	9.65	11.04	20.11	1.39	—	
MW-21	1413	0.0	—	16.14	20.71	—	-	
MW-30	1826	270.8	—	12.06	14.51	—	7.56	low flow
MW-31	1727	0.0	—	17.75	28.03	—	-	
MW-31B	1725	0.6	—	18.33	79.21	—	-	
MW-32	1802	0.0	—	7.56	28.93	—	-	
MW-33	1733	0.0	—	23.26	28.24	—	-	
MW-33T	1731	0.5	—	25.49	78.49	—	-	
MW-36	1103	2.7	—	19.19	23.66	—	-	gauged 6/29/17
MW-36B	1109	0.2	—	18.90	46.40	—	-	gauged 6/29/17

SM: Tom Wiley
PN: 684910.LD.MR.GW
Project: June 2017 Quarterly Event
Technicians: J. McCann, M. Summer, M. Warren
Client: Plantation Pipe Line

Weather: Sunny, 80/84°F
Measuring Method: oil/water interface probe YSI 600XL
Date: 6/26/17

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (ft BTOC)	Product Thickness (ft)	DO (mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
MW-45	1406	0.2	—	13.38	14.41	—	-	low flow
MW-45B	1403	0.0	—	15.35	40.39	—	-	
TW-55	1751	21.3	—	5.04	30.78	—	8.10	
TW-96	~~1751~~	~~21.3~~	~~—~~	~~5.04~~	~~30.78~~	~~—~~	~~8.10~~	ant hill on top, could not gauge
Shallow Bedrock Zone								
MW-01	1506	0.0	—	5.104	15.62	—	18.02	has BaroTROLL
MW-01B	1501	1.7	—	7.92	42.21	—	0.102	
MW-11	SM		—	~~7.26~~	~~9.75~~	—		
MW-22	1440	96.8	—	3.44	10.32	—	0.101	low flow
MW-27	1450	0.2	—	7.26	9.75	—	-	low flow, MW-44
MW-27B	1454	0.0	—	12.40	35.51	—	-	MW-44B
MW-44	1522	10.2	—	25.61	29.58	—	-	MW-27
MW-44B	1517	0.3	—	29.95	50.29	—	-	MW-27B
MW-11	1528	210.8	—	28.26	32.02	—	0.32	

BTOC - below top of casing
ft - feet
PN - Project Number
ppm - parts per million
SM - Site Manager
- wells historically found to have product

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	06/29/2017	12:58	10.19	10.3		
RS-02	06/29/2017	12:58	9.47	9.74		
RS-04	06/29/2017	12:59		9.68		Odor
RS-05	06/29/2017	12:59	10.02	10.42		
RS-06	06/29/2017	13:00	10.59	10.65		
RS-07	06/29/2017	13:00		12.55		Odor
RS-08	06/29/2017	13:00	12.81	12.99		
RS-09	06/29/2017	13:01	9.07	9.39		
RS-10	06/29/2017	13:01	8.6	8.87		
RS-11	06/29/2017	13:01		8.45		
RS-12	06/29/2017	13:02	8.77	8.8		
RS-13	06/29/2017	13:02		6.08		
RS-14	06/29/2017	13:02	4.79	4.87		
RS-15	06/29/2017	13:02	5.32	5.35		
RS-16	06/29/2017	13:03		4		
RS-17	06/29/2017	13:03		3.45		
RS-18	06/29/2017	13:03	9.6	9.77		
RS-20	06/29/2017	13:03		4.43		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	06/29/2017	13:04	13.69	13.75		
RT-1B	06/29/2017	13:04	13.65	13.7		
RT-1C	06/29/2017	13:05	14.08	14.14		
RT-2A	06/29/2017	13:05		0.95		Sheen on surface water and ground in vicinity
RT-2B	06/29/2017	13:06		1.02		
RT-2C	06/29/2017	13:06		1.48		Sheen
RT-2D	06/29/2017	13:07		1.57		Odor
RT-2E	06/29/2017	13:07		1.68		Sheen
RT-2F	06/29/2017	13:07		2.01		
RT-2G	06/29/2017	13:08		1.7		
RT-2I	06/29/2017	13:12		1.78		
RT-2J	06/29/2017	13:12	1.39	1.4		
RT-2K	06/29/2017	13:13		2.65		Odor
RT-2L	06/29/2017	13:13	2.17	2.23		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	06/29/2017	13:13		12.27		Odor
RW-02	06/29/2017	13:14	21.03	21.26		
RW-03	06/29/2017	13:14		21.72		Odor
RW-04	06/29/2017	13:14	28.05	28.56		
RW-05	06/29/2017	13:15	31.93	32.73		
RW-06	06/29/2017	13:15	26.19	26.2		
RW-07	06/29/2017	13:15	22.85	23.09		
RW-08	06/29/2017	13:15	16.42	16.43		
RW-09	06/29/2017	13:16	13.53	13.54		
RW-10	06/29/2017	13:16	11.65	11.73		Could not put expansion cap on, expansion cap cracked
RW-11	06/29/2017	13:16	11.52	11.63		
RW-12	06/29/2017	13:16		13.19		Odor
RW-13	06/29/2017	13:17				Air sparging, could not obtain measurement
RW-14	06/29/2017	13:17		11.94		Odor
RW-15	06/29/2017	13:17		13.57		Odor Tank - Product: 1.21, Water: 1.38

MW Wells	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	MW Well Comment
MW-01	07/06/2017	11:26		6.42		
MW-01B	07/02/2017	11:26		8.05		
MW-02	07/02/2017	11:26		3.21		
MW-02B	07/02/2017	11:27		4.04		
MW-03	07/02/2017	11:27		9.2		Estimate - air sparging
MW-04	07/02/2017	11:28		8.57		
MW-05	07/02/2017	11:28		14.5		
MW-06	07/02/2017	11:29		14.7		
MW-07	07/02/2017	11:29		12.75		
MW-08	07/02/2017	11:29		9.68		
MW-09	07/02/2017	11:29		3.35		
MW-10	07/02/2017	11:30		10.48		
MW-11	07/02/2017	11:30		28.2		
MW-12	07/02/2017	11:30		13.65		
MW-12B	07/02/2017	11:31		14.02		
MW-13	07/02/2017	11:31		20.73		
MW-13B	07/02/2017	11:31		21.25		
MW-14	07/02/2017	11:31		16.57		
MW-14B	07/02/2017	11:32		17.87		
MW-15	07/02/2017	11:32		13.01		
MW-15B	07/02/2017	11:32		15.64		
MW-16	07/02/2017	11:33		9.05		
MW-17	07/02/2017	11:33		10.82		
MW-17B	07/02/2017	11:33		16.85		
MW-18	07/02/2017	11:34	10.5	11.7		
MW-19	07/02/2017	11:34		10.68		
MW-20	07/02/2017	11:35	11.63	12.9		
MW-21	07/02/2017	11:35		16.16		
MW-22	07/02/2017	11:35		9.65		
MW-23	07/02/2017	11:36		9.85		
MW-23B	07/02/2017	11:36		11.8		
MW-24	07/02/2017	11:36		4.47		
MW-24B	07/02/2017	11:36		5.43		
MW-25	07/02/2017	11:37		8.05		
MW-25B	07/02/2017	11:37		4.88		
MW-26	07/02/2017	11:37		5.15		
MW-26B	07/06/2017	11:38		7.28		
MW-27	07/02/2017	11:38		25.6		
MW-27B	07/02/2017	11:38		29.95		
MW-28	07/02/2017	11:38		22.45		
MW-29	07/02/2017	11:39		8.02		
MW-30	07/02/2017	11:39		12.52		
MW-31	07/02/2017	11:39		18.11		
MW-31B	07/02/2017	11:40		18.36		

MW Wells	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	MW Well Comment
MW-32	07/02/2017	11:40		8.98		
MW-33	07/02/2017	11:40		23.9		
MW-33T	07/02/2017	11:41		25.55		
MW-35	07/02/2017	11:41		7.9		
MW-36	07/02/2017	11:41		19.09		
MW-36B	07/02/2017	11:41		18.77		
MW-37	07/02/2017	11:42		3.49		
MW-38	07/02/2017	11:42		1.83		
MW-39	07/02/2017	11:42		5.57		
MW-40	07/02/2017	11:42		2.95		
MW-41	07/02/2017	11:43		3.98		
MW-42	07/02/2017	11:43		4.53		
MW-44	07/02/2018			7.8		
MW-44B	07/02/2018			12.62		
MW-45	07/02/2018			13.4		
MW-45B	07/02/2018			15.41		

SW Wells	Date	Time	DTW	SW Well Comment
SW-01	07/02/2017	12:24	0.99	
SW-02	07/02/2017	12:25	1.67	
SW-03	07/02/2017	12:25	1.92	
SW-08	07/02/2017	12:25	1.05	
SW-10	07/02/2017	12:25	0.36	

TW Wells	Date	Time	DTW (ft btoc)	Depth to Product (ft btoc)	Total Depth (ft btoc)	TW Well Comment
TW-04R	07/02/2017	12:09	3.95			
TW-05R	07/02/2017	12:09	4.55			
TW-14R	07/02/2017	12:09	3.76			
TW-15R	07/02/2017	12:10	3.1			
TW-21	07/02/2017	12:10	2.67			
TW-28	07/02/2017	12:10	21.31	21.58		
TW-30	07/02/2017	12:10	20.15			
TW-34	07/02/2017	12:13	22.23			
TW-35	07/02/2017	12:13	22.75			
TW-40	07/02/2017	12:14	28.4			
TW-41	07/02/2017	12:14	26.51			
TW-42	07/02/2017	12:15	26.22	24.95		
TW-45	07/02/2017	12:16	26.98	26.7		
TW-55	07/02/2017	12:16	6.02			
TW-59	07/02/2017	12:17	13.68			
TW-60	07/02/2017	12:17	9.38			
TW-64	07/02/2017	12:17	15.65			
TW-65	07/02/2017	12:18	20.14			
TW-66	07/02/2017	12:18	1.78			
TW-67	07/02/2017	12:18	11.95			Estimate - air sparging
TW-68	07/02/2017	12:19	22.09			
TW-69	07/02/2017	12:19	12.95			Poisonous ivy
TW-70	07/02/2017	12:20	17.75			
TW-73	07/02/2017	12:20	7.41			
TW-76	07/02/2017	12:20	13.81			
TW-81	07/02/2017	12:21	2.67			
TW-82	07/02/2017	12:21	2.65			
TW-83	07/06/2017	12:21	3.45			
TW-84	07/06/2017	12:22	4.06			
TW-85	07/06/2017	12:22	9.51			
TW-86	07/02/2017	12:22	5.35			
TW-87	07/02/2017	12:22	5.26			
TW-90	07/02/2017	12:23	11.42			
TW-94	07/02/2017	12:23	1.8			Estimate - Air sparging
TW-96	07/02/2017	12:24	5.83			

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	07/03/2017	11:50		12.44		Odor
RS-02	07/03/2017	11:51	10.6	10.8		
RS-04	07/03/2017	11:51		10.68		
RS-05	07/03/2017	11:51	10.23	10.6		
RS-06	07/03/2017	11:52	10.61	10.78		
RS-07	07/03/2017	11:52	12.54	12.55		
RS-08	07/03/2017	11:53	12.78	12.94		
RS-09	07/03/2017	11:53	9.26	9.49		
RS-10	07/03/2017	11:53	8.83	9.08		
RS-11	07/03/2017	11:54		8.71		
RS-12	07/03/2017	11:54	9.03	9.05		
RS-13	07/03/2017	11:54		6.96		
RS-14	07/03/2017	11:54	5.02	5.09		
RS-15	07/03/2017	11:55	5.49	5.51		
RS-16	07/03/2017	11:55		4.17		
RS-17	07/03/2017	11:55		3.46		
RS-18	07/03/2017	11:56	9.78	9.99		
RS-20	07/03/2017	11:56		4.61		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	07/03/2017	11:57	13.34	13.36		
RT-1B	07/03/2017	11:57	13.29	13.33		
RT-1C	07/03/2017	11:57	13.73	13.77		
RT-2A	07/03/2017	11:57		0.8		
RT-2B	07/03/2017	11:58		0.96		
RT-2C	07/03/2017	11:58		1.41		Sheen, odor
RT-2D	07/03/2017	11:58		1.5		Sheen, odor
RT-2E	07/03/2017	11:59		1.61		
RT-2F	07/03/2017	11:59		1.94		
RT-2G	07/03/2017	11:59		2.65		
RT-2I	07/03/2017	12:00		2.71		Odor
RT-2J	07/03/2017	12:00		1.33		Odor
RT-2K	07/03/2017	12:00		2.44		
RT-2L	07/03/2017	12:00	2.16	2.21		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	07/03/2017	12:01		12.55		Odor
RW-02	07/03/2017	12:01	21.1	21.37		
RW-03	07/03/2017	12:02		21.17		Odor
RW-04	07/03/2017	12:02	28.03	28.31		
RW-05	07/03/2017	12:02	32.05	32.37		
RW-06	07/03/2017	12:03		26.25		
RW-07	07/03/2017	12:03	22.89	23.13		
RW-08	07/03/2017	12:03		16.65		
RW-09	07/03/2017	12:03		13.53		
RW-10	07/03/2017	12:04	12.06	12.2		
RW-11	07/03/2017	12:04	11.58	11.71		
RW-12	07/03/2017	12:04		13.16		Odor
RW-13	07/03/2017	12:04				Air sparging
RW-14	07/03/2017	12:05		11.94		
RW-15	07/03/2017	12:05		13.59		Odor Tank product: 2.51, water: 2.66

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	07/06/2017	12:27	10.88	11.02		
RS-02	07/06/2017	12:28	10.07	10.3		
RS-04	07/06/2017	12:28		9.71		Odor
RS-05	07/06/2017	12:29	10.49	10.89		
RS-06	07/06/2017	12:29	10.63	10.76		
RS-07	07/06/2017	12:29	12.63	12.65		
RS-08	07/06/2017	12:30	12.79	12.92		
RS-09	07/06/2017	12:30	10.22	10.45		
RS-10	07/06/2017	12:30	8.99	9.35		
RS-11	07/06/2017	12:31		8.47		
RS-12	07/06/2017	12:31		8.78		
RS-13	07/06/2017	12:31		8.17		
RS-14	07/06/2017	12:31	5.62	5.68		
RS-15	07/06/2017	12:32	5.9	5.91		
RS-16	07/06/2017	12:32		4.68		Odor
RS-17	07/06/2017	12:32		4.19		Odor
RS-18	07/06/2017	12:32	10.82	11.02		
RS-20	07/06/2017	12:33		5.08		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	07/06/2017	12:34		13.37		Odor
RT-1B	07/06/2017	12:34	13.34	13.38		
RT-1C	07/06/2017	12:35	13.76	13.79		
RT-2A	07/06/2017	12:35		0.75		
RT-2B	07/06/2017	12:35		0.95		
RT-2C	07/06/2017	12:36		1.4		Odor
RT-2D	07/06/2017	12:36		1.47		Odor
RT-2E	07/06/2017	12:36		1.59		
RT-2F	07/06/2017	12:36		1.94		
RT-2G	07/06/2017	12:37		1.15		
RT-2I	07/06/2017	12:37		2.47		
RT-2J	07/06/2017	12:37		1.1		
RT-2K	07/06/2017	12:37		2.96		Damaged
RT-2L	07/06/2017	12:38	2.2	2.21		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	07/06/2017	12:38		12.8		Odor
RW-02	07/06/2017	12:39	21.22	21.49		
RW-03	07/06/2017	12:39		21.8		Odor
RW-04	07/06/2017	12:39	28.05	28.41		
RW-05	07/06/2017	12:40	31.95	32.39		
RW-06	07/06/2017	12:40		25.63		Odor
RW-07	07/06/2017	12:40	22.22	22.41		
RW-08	07/06/2017	12:40		15.11		Odor
RW-09	07/06/2017	12:41		12.72		Odor
RW-10	07/06/2017	12:41		11.35		Odor
RW-11	07/06/2017	12:42	11.05	11.14		
RW-12	07/06/2017	12:42		13.08		Odor
RW-13	07/06/2017	12:42				Air sparging
RW-14	07/06/2017	12:43		7.8		Estimate - air sparging
RW-15	07/06/2017	12:43		13.56		Odor Tank product - 2.15, water 2.30

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	07/10/2017	14:13	10.33	10.55		
RS-02	07/10/2017	14:14	9.98	10.38		
RS-04	07/10/2017	14:14		10.38		Odor
RS-05	07/10/2017	14:14	9.65	10.08		
RS-06	07/10/2017	14:15	10.41	10.6		
RS-07	07/10/2017	14:15	12.55	12.57		
RS-08	07/10/2017	14:15	12.9	13.1		
RS-09	07/10/2017	14:16	8.86	9.01		
RS-10	07/10/2017	14:16	8.13	8.5		
RS-11	07/10/2017	14:16		8.11		
RS-12	07/10/2017	14:16		7.87		
RS-13	07/10/2017	14:17		6.77		
RS-14	07/10/2017	14:17	5.13	5.21		
RS-15	07/10/2017	14:17	5.55	5.57		
RS-16	07/10/2017	14:17		4.36		
RS-17	07/10/2017	14:18		3.87		
RS-18	07/10/2017	14:18	9.44	9.59		
RS-20	07/10/2017	14:18		4.55		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	07/10/2017	14:19	13.35	13.39		
RT-1B	07/10/2017	14:19	13.31	13.37		
RT-1C	07/10/2017	14:19	13.75	13.8		
RT-2A	07/10/2017	14:19		0.98		
RT-2B	07/10/2017	14:20		1.08		Odor
RT-2C	07/10/2017	14:20		1.56		Odor
RT-2D	07/10/2017	14:20		1.64		Sheen, odor
RT-2E	07/10/2017	14:21		1.75		
RT-2F	07/10/2017	14:21		2.08		
RT-2G	07/10/2017	14:21		2.58		
RT-2I	07/10/2017	14:22		2.98		
RT-2J	07/10/2017	14:22		1.47		
RT-2K	07/10/2017	14:22				Cannot remove expansion cap
RT-2L	07/10/2017	14:22	2.55	2.59		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	07/10/2017	14:23		13		Odor
RW-02	07/10/2017	14:24	21.29	21.58		
RW-03	07/10/2017	14:24		21.79		Odor
RW-04	07/10/2017	14:24	27.99	28.34		
RW-05	07/10/2017	14:24	31.95	32.61		
RW-06	07/10/2017	14:25	26.19	26.2		
RW-07	07/10/2017	14:25	22.84	23.02		
RW-08	07/10/2017	14:25		16.29		Odor
RW-09	07/10/2017	14:25	13.44	13.45		
RW-10	07/10/2017	14:26	11.42	11.43		
RW-11	07/10/2017	14:26	11.78	11.87		
RW-12	07/10/2017	14:26		13.36		Odor
RW-13	07/10/2017	14:26				Air sparging
RW-14	07/10/2017	14:27		11.93		
RW-15	07/10/2017	14:27		13.47		Odor Tank - Product: 2.04, Water: 2.20

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	07/13/2017	11:32	10.58	10.79		
RS-02	07/13/2017	11:33	10.21	10.48		
RS-04	07/13/2017	11:33		9.69		Odor
RS-05	07/13/2017	11:34	9.86	10.26		
RS-06	07/13/2017	11:34	10.6	10.76		
RS-07	07/13/2017	11:34	12.71	12.76		Cannot tighten expansion cap
RS-08	07/13/2017	11:35	12.92	13.1		
RS-09	07/13/2017	11:35	8.97	9.13		
RS-10	07/13/2017	11:35	8.44	8.81		
RS-11	07/13/2017	11:36		8.36		
RS-12	07/13/2017	11:36	8.69	8.7		
RS-13	07/13/2017	11:36		6.88		
RS-14	07/13/2017	11:37	5.39	5.46		
RS-15	07/13/2017	11:37	5.78	5.8		
RS-16	07/13/2017	11:37		4.6		
RS-17	07/13/2017	11:37		4.14		Odor
RS-18	07/13/2017	11:38	9.64	9.78		
RS-20	07/13/2017	11:38		4.8		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	07/13/2017	11:39	13.43	13.48		
RT-1B	07/13/2017	11:39	13.4	13.44		
RT-1C	07/13/2017	11:39	13.82	13.87		Cannot tighten expansion cap
RT-2A	07/13/2017	11:40		1.06		
RT-2B	07/13/2017	11:40		1.18		Odor
RT-2C	07/13/2017	11:41		1.61		Odor
RT-2D	07/13/2017	11:41		1.69		Odor
RT-2E	07/13/2017	11:41		1.8		
RT-2F	07/13/2017	11:42		2.15		
RT-2G	07/13/2017	11:42		2.93		
RT-2I	07/13/2017	11:42		3.02		
RT-2J	07/13/2017	11:42		1.55		Odor
RT-2K	07/13/2017	11:43	1.48	1.58		Large expansion cap difficult to remove No inner casing
RT-2L	07/13/2017	11:44	2.34	2.37		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	07/13/2017	11:44		13.33		Odor
RW-02	07/13/2017	11:45	21.4	21.72		
RW-03	07/13/2017	11:45	21.86	21.87		
RW-04	07/13/2017	11:45	28.02	28.45		
RW-05	07/13/2017	11:46	31.9	32.65		
RW-06	07/13/2017	11:46		26.22		Odor
RW-07	07/13/2017	11:46	23.03	23.2		
RW-08	07/13/2017	11:46	16.71	16.72		
RW-09	07/13/2017	11:47	13.72	13.73		
RW-10	07/13/2017	11:47	11.44	11.49		
RW-11	07/13/2017	11:47	11.99	12.08		
RW-12	07/13/2017	11:47		13.36		Odor
RW-13	07/13/2017	11:48				Air sparging
RW-14	07/13/2017	11:48		12.11		
RW-15	07/13/2017	11:48	13.5	13.51		Tank - Product: 1.83, Water: 1.98

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	07/17/2017	12:30	10.71	10.95		
RS-02	07/17/2017	12:31	10.36	10.61		
RS-04	07/17/2017	12:31		10.69		Odor
RS-05	07/17/2017	12:32	9.92	10.36		
RS-06	07/17/2017	12:32	10.67	10.81		
RS-07	07/17/2017	12:33	12.73	12.78		
RS-08	07/17/2017	12:33	12.98	13.18		
RS-09	07/17/2017	12:33	8.74	8.89		
RS-10	07/17/2017	12:34	8.44	8.81		
RS-11	07/17/2017	12:34		8.37		
RS-12	07/17/2017	12:35	8.7	8.71		
RS-13	07/17/2017	12:35		6.77		Requires new lock
RS-14	07/17/2017	12:36	4.71	4.79		
RS-15	07/17/2017	12:37	5.3	5.32		
RS-16	07/17/2017	12:37		3.95		Odor
RS-17	07/17/2017	12:37		3.26		
RS-18	07/17/2017	12:38		8.61		Odor
RS-20	07/17/2017	12:38		4.66		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	07/17/2017	12:39	13.42	13.47		
RT-1B	07/17/2017	12:40	13.38	13.43		
RT-2C	07/17/2017	12:40	13.83	13.88		
RT-2A	07/17/2017	12:41		1.33		
RT-2B	07/17/2017	12:41		1.39		Odor
RT-2C	07/17/2017	12:41		1.83		Odor
RT-2D	07/17/2017	12:41		1.92		Odor
RT-2E	07/17/2017	12:42		2.04		
RT-2F	07/17/2017	12:42		2.37		
RT-2G	07/17/2017	12:42		3.21		
RT-2I	07/17/2017	12:43		2.86		
RT-2J	07/17/2017	12:43		1.41		Odor
RT-2K	07/17/2017	12:43	1.26	1.36		Surface sheen down gradient of well
RT-2L	07/17/2017	12:44	2.26	2.28		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	07/17/2017	12:45		12.97		Odor
RW-02	07/17/2017	12:45	21.41	21.74		
RW-03	07/17/2017	12:45		21.96		Odor
RW-04	07/17/2017	12:46	28.02	28.51		
RW-05	07/17/2017	12:46	31.88	32.86		
RW-06	07/17/2017	12:47		26.2		Odor
RW-07	07/17/2017	12:47	22.97	23.16		
RW-08	07/17/2017	12:47		16.55		Odor
RW-09	07/17/2017	12:47		13.69		Odor
RW-10	07/17/2017	12:48	11.6	11.7		
RW-11	07/17/2017	12:48	12.07	12.09		
RW-12	07/17/2017	12:48		13.47		Odor
RW-13	07/17/2017	12:49				Air sparging
RW-14	07/17/2017	12:49		11.91		
RW-15	07/17/2017	12:49	13.52	13.55		

Table 2 - DO Measurement List

SM:	Tom Wiley
PN:	684910.LD.MR.GW
Project:	Monthly Monitoring
Technicians:	J. McCann, M. Summer
Client:	Plantation Pipe Line
Weather:	cloudy, 72-86°F
Measuring Method:	YSI proODO, Oil/Water Interface Probe
Date:	7/17/17

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
Brown's Creek Protection Zone							
MW-12	1102	945.3	—	14.27	21.67	0.45	
MW-12B	1100	1.10	—	14.69	45.24	0.55	
MW-15	1004	5.8	—	12.60	21.22	2.43	
MW-15B	1006	8.3	—	15.95	80.40	0.09	
MW-25	1036	0.0	—	9.24	18.06	0.44	
MW-25B	1035	0.0	—	5.19	58.99	0.101	
MW-28	1050	393.2	—	22.77	26.02	0.51	
MW-38	1110	0.5	—	1.87	11.46	—	
MW-39	1015	14.4	—	5.10	13.03	—	
MW-40	1018	7.0	—	2.74	13.16	—	
MW-41	1034	0.5	—	4.05	13.15	—	
SW-01	1117	—	—	—	—	~~4.22~~	DO=3.23
SW-03	1047	—	—	—	—	4.70	
SW-12	1020	—	—	—	—	4.21	
SW-13	1112	—	—	—	—	4.22	
TW-59	1056	0.9	—	14.41	15.82	—	
TW-60	1024	43.10	—	9.27	—	5.42	
TW-66	1031	0.3	—	1.90	23.80	6.02	
Cupboard Creek Protection Zone							
MW-19	0911	7.14	—	10.81	12.11	0.063	
MW-20	0918	802	11.77	12.97	18.35	—	1.20' product
MW-23	0933	0.0	—	10.11	13.19	—	
MW-26	0937	0.16	—	5.67	15.26	—	
MW-29	0938	0.0	—	8.10	15.04	4.55	
TW-67	0921	103.5	—	12.24	26.46	9.45	
MW-34	1013	0.2	—	2.53	7	—	
MW-35	1046	0.5	—	9.57	25	—	

Table 2 - DO Measurement List

SM:	Tom Wiley					**Weather:**	Cloudy, 72-81°F
PN:	684910.LD.MR.GW						
Project:	Monthly Monitoring					**Measuring Method:**	YSI proODO, Oil/Water Interface Probe
Technicians:	D. McCord, M. Skinner					**Date:**	7/17/17
Client:	Plantation Pipe Line						

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
TW-73	0906	0.0	—	7.44	11.32	10.27	
Hayfield Zone							
MW-02	1207	1222	—	2.29	19.77	7.48	
MW-02B	1349 7/18	0.0	—	2.50	68.35	3.18	
MW-03	1212	6.9	—	8.16	20.28	10.12	well under pressure
MW-04	1216	16.1	—	8.77	19.56	7.53	
MW-05	1230	9.2	—	14.61	19.78	-	
MW-08	1138	1.5	—	9.98	19.70	12.94	
MW-09	1157	130.7	—	2.64	20.21	8.96	
MW-10	1252	2.1	—	11.00	23.21	3.66	
MW-16	1140	1906	—	8.59	20.58	9.18	
MW-18	1143	1108	10.77	11.85	20.11	—	1.08' product
MW-30	1220	19.7	—	12.69	14.51	0.58	low flow
MW-31	1134	0.0	—	12.25	28.03	-	
MW-45	0929	0.0	—	13.55	14.41	-	low flow
TW-55	1150	3.3	-	5.71	30.78	9.03	
TW-64	1126	0.0	—	15.18	—	7.85	
TW-96	1353 7/19	4.8	-	6.90	—	9.51	
Shallow Bedrock Zone							
MW-01	0947	0.0	—	7.39	15.62	5.25	
MW-01B	0950	0.2	—	8.62	42.21	0.08	
MW-11	0950	19.6	—	22.20	32.02	0.52	
MW-22	0942	24.0	—	9.98	10.32	—	dry

BTOC - below top of casing
ft - feet
PN - Project Number

[1] Total depths collected 6/22/17

ppm - parts per million
SM - Site Manager
- wells historically found to have product

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	07/20/2017	11:12	10.65	10.85		
RS-02	07/20/2017	11:12	10.08	10.32		
RS-04	07/20/2017	11:13		9.71		Odor
RS-05	07/20/2017	11:13	10.07	10.55		
RS-06	07/20/2017	11:13	10.71	10.87		
RS-07	07/20/2017	11:14	12.8	12.88		Expansion cap needs to be replaced. Cannot tighten.
RS-08	07/20/2017	11:15	12.97	13.15		
RS-09	07/20/2017	11:15	8.99	9.2		
RS-10	07/20/2017	11:15	8.64	9.01		
RS-11	07/20/2017	11:16		8.53		
RS-12	07/20/2017	11:16	8.85	8.86		
RS-13	07/20/2017	11:16		6.9		Missing lock
RS-14	07/20/2017	11:16	5.08	5.16		
RS-15	07/20/2017	11:17	5.59	5.6		
RS-16	07/20/2017	11:17		4.32		
RS-17	07/20/2017	11:17		3.92		
RS-18	07/20/2017	11:18	9.65	9.81		
RS-20	07/20/2017	11:18		4.94		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	07/20/2017	11:19	13.48	13.53		
RT-1B	07/20/2017	11:19	13.45	13.5		
RT-1C	07/20/2017	11:19	13.87	13.94		
RT-2A	07/20/2017	11:19		1.07		
RT-2B	07/20/2017	11:19		1.18		Odor
RT-2C	07/20/2017	11:20		1.61		
RT-2D	07/20/2017	11:20		1.69		Odor
RT-2E	07/20/2017	11:20		1.8		
RT-2F	07/20/2017	11:20		2.14		
RT-2G	07/20/2017	11:21		2.91		
RT-2I	07/20/2017	11:21		3		
RT-2J	07/20/2017	11:21		1.49		
RT-2K	07/20/2017	11:21				Cannot access
RT-2L	07/20/2017	11:22	2.27	2.33		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	07/20/2017	11:22		12.91		Odor
RW-02	07/20/2017	11:23	21.48	21.83		
RW-03	07/20/2017	11:23		22.01		Odor
RW-04	07/20/2017	11:23	28.05	28.56		
RW-05	07/20/2017	11:23	31.93	33.04		
RW-06	07/20/2017	11:24		26.36		Odor
RW-07	07/20/2017	11:28	23.14	23.46		
RW-08	07/20/2017	11:28		16.92		
RW-09	07/20/2017	11:28		13.85		
RW-10	07/20/2017	11:28	11.88	12.05		Expansion cap needs replacement
RW-11	07/20/2017	11:29		12.12		Odor
RW-12	07/20/2017	11:29		13.44		Odor
RW-13	07/20/2017	11:30				Air sparging
RW-14	07/20/2017	11:30		12.02		
RW-15	07/20/2017	11:30	13.49	13.55		Tank: Product - 1.75, Water - 1.88

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	07/24/2017	12:45	10.73	11.02		
RS-02	07/24/2017	12:46	10.2	10.47		
RS-04	07/24/2017	12:46		9.67		Odor
RS-05	07/24/2017	12:46	10.19	10.7		
RS-06	07/24/2017	12:47	10.68	10.85		
RS-07	07/24/2017	12:47	12.83	12.91		
RS-08	07/24/2017	12:47	13.1	13.31		
RS-09	07/24/2017	12:48	9.33	9.52		
RS-10	07/24/2017	12:48	8.84	9.21		
RS-11	07/24/2017	12:49		8.58		
RS-12	07/24/2017	12:49	8.91	8.93		
RS-13	07/24/2017	12:49		7.55		Odor, missing lock
RS-14	07/24/2017	12:50	5.64	5.71		
RS-15	07/24/2017	12:50	6.01	6.03		
RS-16	07/24/2017	12:51		4.87		
RS-17	07/24/2017	12:51		4.46		
RS-18	07/24/2017	12:51	10.05	10.22		
RS-20	07/24/2017	12:51		5.27		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	07/24/2017	12:52	13.5	13.55		
RT-1B	07/24/2017	12:52	13.45	13.53		Odor
RT-1C	07/24/2017	12:53	13.91	13.98		
RT-2A	07/24/2017	12:54		1.12		
RT-2B	07/24/2017	12:54		1.23		Odor
RT-2C	07/24/2017	12:54		1.67		Odor, will not lock
RT-2D	07/24/2017	12:55		1.75		Odor, sheen
RT-2E	07/24/2017	12:55		1.85		
RT-2F	07/24/2017	12:55		2.2		Will not lock
RT-2G	07/24/2017	12:56		2.93		
RT-2I	07/24/2017	12:56		3.05		
RT-2J	07/24/2017	12:56		1.57		Odor
RT-2K	07/24/2017	12:57				Could not access - expansion cap stuck
RT-2L	07/24/2017	12:58	2.42	2.43		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	07/24/2017	12:59		13.47		Odor
RW-02	07/24/2017	12:59	21.63	22		
RW-03	07/24/2017	12:59	22.11	22.12		
RW-04	07/24/2017	13:00	28.1	28.7		
RW-05	07/24/2017	13:00	31.89	33.36		
RW-06	07/24/2017	13:00	26.33	26.34		
RW-07	07/24/2017	13:00	23.1	23.32		
RW-08	07/24/2017	13:01				Could not access - expansion cap stuck
RW-09	07/24/2017	13:01		13.82		Odor
RW-10	07/24/2017	13:01	11.99	12.22		Expansion cap needs replacement
RW-11	07/24/2017	13:02		12.25		Odor
RW-12	07/24/2017	13:02		13.58		Odor
RW-13	07/24/2017	13:02				Air sparging
RW-14	07/24/2017	13:03		12.16		
RW-15	07/24/2017	13:03	13.5	13.62		Tank - Product: 1.42, Water: 1.55

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	07/27/2017	11:42	10.01	11.08		
RS-02	07/27/2017	11:43	10.42	10.76		
RS-04	07/27/2017	11:43		9.68		Odor
RS-05	07/27/2017	11:43	10.08	10.59		
RS-06	07/27/2017	11:45	10.67	10.86		
RS-07	07/27/2017	11:45	12.87	12.94		
RS-08	07/27/2017	11:46	13.18	13.42		
RS-09	07/27/2017	11:46	9.42	9.62		
RS-10	07/27/2017	11:47	8.68	9.06		
RS-11	07/27/2017	11:47		8.47		Odor
RS-12	07/27/2017	11:48	8.79	8.81		
RS-13	07/27/2017	11:48		7.6		Odor
RS-14	07/27/2017	11:49	5.85	5.94		Missing lock
RS-15	07/27/2017	11:49	6.17	6.19		
RS-16	07/27/2017	11:49		5.11		
RS-17	07/27/2017	11:50		4.72		
RS-18	07/27/2017	11:50	10.11	10.25		
RS-20	07/27/2017	11:51		5.35		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	07/27/2017	11:52	13.61	13.67		
RT-1B	07/27/2017	11:52	13.57	13.6		
RT-1C	07/27/2017	11:53	14	14.07		
RT-2A	07/27/2017	11:53		1.16		
RT-2B	07/27/2017	11:54		1.28		
RT-2C	07/27/2017	11:54		1.72		Odor, lock not functioning
RT-2D	07/27/2017	11:55		1.8		Odor
RT-2E	07/27/2017	11:55		1.91		Sheen
RT-2F	07/27/2017	11:56		2.25		Sheen, lock not functioning
RT-2G	07/27/2017	11:56		3.05		
RT-2I	07/27/2017	11:56		3.13		
RT-2J	07/27/2017	11:57		1.66		Odor
RT-2L	07/27/2017	11:57	2.43	2.44		
RT-2K	07/27/2017	12:07				Could not access

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	07/27/2017	11:58		13.73		Odor
RW-02	07/27/2017	11:59	21.69	22.05		
RW-03	07/27/2017	12:00	22.12	22.14		
RW-04	07/27/2017	12:00	28.15	28.77		
RW-05	07/27/2017	12:00	31.92	33.63		
RW-06	07/27/2017	12:01		26.47		Odor
RW-07	07/27/2017	12:01	23.28	23.56		
RW-08	07/27/2017	12:02		16.97		Odor
RW-09	07/27/2017	12:02	13.98	14		
RW-10	07/27/2017	12:03	11.74	11.98		
RW-11	07/27/2017	12:03	12.39	12.4		
RW-12	07/27/2017	12:03	13.69	13.7		
RW-13	07/27/2017	12:04				Air sparging
RW-14	07/27/2017	12:04		12.25		
RW-15	07/27/2017	12:05	13.51	13.67		Tank DTP: 1.42, DTW: 1.59

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	07/31/2017	11:52	11.09	11.44		
RS-02	07/31/2017	11:52	10.72	11.06		
RS-04	07/31/2017	11:52		9.68		Odor
RS-05	07/31/2017	11:52	10.31	10.89		Lock difficult to open
RS-06	07/31/2017	11:53	10.86	11.07		
RS-07	07/31/2017	11:53	12.99	13.07		Expansion cap needs replacement
RS-08	07/31/2017	11:54	13.3	13.57		
RS-09	07/31/2017	11:54	9.58	9.78		
RS-10	07/31/2017	11:54	8.85	9.22		
RS-11	07/31/2017	11:55		8.87		
RS-12	07/31/2017	11:55	8.89	8.9		
RS-13	07/31/2017	11:55		7.87		Odor, needs new lock
RS-14	07/31/2017	11:56	6.06	6.13		
RS-15	07/31/2017	11:56	6.4	6.41		
RS-16	07/31/2017	11:57		5.37		Odor
RS-17	07/31/2017	11:57		4.97		
RS-18	07/31/2017	11:58	10.38	10.54		
RS-20	07/31/2017	11:58		5.6		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	07/31/2017	11:58	13.71	13.79		
RT-1B	07/31/2017	11:59	13.67	13.74		
RT-1C	07/31/2017	11:59	14.01	14.07		Expansion cap needs replacement
RT-2A	07/31/2017	11:59		1.25		
RT-2B	07/31/2017	11:59		1.36		
RT-2C	07/31/2017	12:00		1.78		
RT-2D	07/31/2017	12:00		1.87		Odor, sheen
RT-2E	07/31/2017	12:00		1.98		
RT-2F	07/31/2017	12:00		2.32		Sheen, lock needs replacement
RT-2G	07/31/2017	12:01		3.19		
RT-2I	07/31/2017	12:01		3.23		
RT-2J	07/31/2017	12:01		1.78		Odor
RT-2K	07/31/2017	12:02				Cannot access
RT-2L	07/31/2017	12:02	2.55	2.56		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	07/31/2017	12:02		14.05		Odor
RW-02	07/31/2017	12:03	21.91	22.31		
RW-03	07/31/2017	12:03	22.34	22.38		
RW-04	07/31/2017	12:03	28.28	28.96		
RW-05	07/31/2017	12:03	32.02	33.86		
RW-06	07/31/2017	12:04		26.63		Odor
RW-07	07/31/2017	12:04	23.4	23.79		
RW-08	07/31/2017	12:04		17.07		Odor
RW-09	07/31/2017	12:04	14.1	14.12		
RW-10	07/31/2017	12:05	12.06	12.35		Expansion cap needs replacement
RW-11	07/31/2017	12:05		12.6		Odor
RW-12	07/31/2017	12:05		13.96		Odor
RW-13	07/31/2017	12:06				Air sparging
RW-14	07/31/2017	12:06		12.43		
RW-15	07/31/2017	12:06	13.66	13.87		Tank: DTP 1.43, DTW 1.53

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** Sunny, Clear sky, ~85°

PN: 684910.LD.MR.GW

Project: Monthly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: MAS + MT **Date:** 8/1/17

	Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
	Brown's Creek Protection Zone							
	MW-12	1117	845.7	–	13.83	21.67	0.54	
	MW-12B	1120	8.7	–	14.17	45.24	0.67	
11	MW-15	1045	71.6	–	11.20	21.22	9.84	
12	MW-15B	1047	16.80	–	16.28	80.40	1.36	
17	MW-25	1102	0.3	–	8.21	18.06	0.78	
18	MW-25B	1104	0.9	–	5.55	58.99	0.81	
	MW-28	1111	(HT) 100.3	–	23.04	26.02	0.73	
13	MW-34	1054	2.10	–	2.62	7.79	–	
19	MW-35	1107	2.10	–	10.23	28.51	–	
20	MW-38	1137	0.3	–	2.10	11.46	–	
14	MW-39	10:55	57.6	–	3.81	13.03	–	
15	MW-40	1057	398.1	–	1.97	13.16	–	
16	MW-41	1100	1.6	–	4.33	13.15	–	
	SW-01		–	–	–	–	2.33	
	SW-03		–	–	–	–	2.64	
	SW-12		–	–	–	–	5.02	
	SW-13		–	–	–	–	2.84	
	TW-59	1115	0.2	–	14.02	15.82	–	
	TW-60	1127	32.6	–	7.05		8.46	
	TW-66	1130	4.20	–	1.35	23.80	6.54	
Dup →	~~MW-34~~						–	added to list during last event (July)
Dup →	~~MW-35~~						–	added to list during last event (July)
	Cupboard Creek Protection Zone							
6	MW-19	1014	1510.0	–	11.35	12.11	0.89	
5	MW-20	1000	1424.0	12.08	13.10	18.35	–	well have product
3	MW-23	0954	2.1	–	10.55	13.19	–	

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** 88°/66°, Sunny

PN: 684910.LD.MR.GW

Project: Monthly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: M. Tekle/CLT, M. Sumner/CLT **Date:** 08/01/2017

	Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
2	MW-26	0950	1.4	–	6.58	15.26	–	
1	MW-29	0937	0.4	–	9.32	15.04	7.21	
36	TW-67	1008	12.70	–	12.70	26.46	10.03	
35	TW-73	1019	0.0	–	5.31	11.32	10.47	
	Hayfield Zone							
27	MW-02	1207	804.6	–	3.80	19.77	8.71	
28	MW-02B	1210	0.6	–	4.35	68.35	4.23	
25	MW-03	1222	0.2	–	9.50	20.28	10.86	well under pressure, bubbling sound.
31	MW-04	1232	0.0	–	9.51	19.56	8.19	
32	MW-05	1237	0.0		15.01	19.78	–	
22	MW-08	1158	0.1	–	11.32	19.70	7.24	
29	MW-09	1240 (W)	42.1	–	4.15	20.21	9.74	
23	MW-10	1213	0.1	–	12.40	23.21	3.84	
	MW-16	1248	553.6	8.70	8.75	20.58	–	strong odor, well have product.
21	MW-18	1202	1286.0	12.30	13.39	20.11	–	well have product
26	MW-30	1226 (W)	4.1	–	13.25	14.51	(MT) 1.06	(1.06)
34	MW-31	1154	0.0	–	18.98	28.03	–	
4	MW-45	0956	0.1	–	13.84	14.41	–	
30	TW-55	1244	4.20	–	6.46	30.78	9.28	
33	TW-64	1150	0.0	–	16.38	–	8.28	
24	TW-96	1216	0.1	–	8.25		10.04	
	Shallow Bedrock Zone							
8	MW-01	1031	0.0	–	9.05	15.62	3.92	
9	MW-01B	1035	0.0	–	9.17	42.21	0.69	
10	MW-11	1042	27.2	28.54	28.63	32.02	–	well have product
7	MW-22	1025	18.92	–	9.98	10.32	0.67	

BTOC - below top of casing [1]Total depths collected 6/22/17 ppm - parts per million

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	08/02/2017	20:40	11.12	11.41		
RS-02	08/02/2017	20:48	10.8	11.12		
RS-04	08/02/2017	20:51		9.7		
RS-05	08/02/2017	20:52	10.25	10.8		
RS-06	08/02/2017	20:53	10.9	11.1		
RS-07	08/02/2017	20:54	13.01	13.1		
RS-08	08/02/2017	20:55	13.35	13.55		
RS-09	08/02/2017	20:55	9.61	9.75		
RS-10	08/02/2017	20:56	8.85	9.2		
RS-11	08/02/2017	20:56		8.6		
RS-12	08/02/2017	20:56	8.91	8.92		
RS-13	08/02/2017	20:57		7.83		
RS-14	08/02/2017	20:58	6.14	6.2		
RS-15	08/02/2017	20:58	6.48	6.5		
RS-16	08/02/2017	20:58		5.45		
RS-17	08/02/2017	20:59		5.06		
RS-18	08/02/2017	20:59	10.35	10.45		
RS-20	08/02/2017	21:00		5.65		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	08/02/2017	21:02	13.79	13.85		
RT-1B	08/02/2017	21:03	13.75	13.81		
RT-1C	08/02/2017	21:04	14.19	14.24		
RT-2A	08/02/2017	21:04		1.3		
RT-2B	08/02/2017	21:05		1.37		
RT-2C	08/02/2017	21:05		1.85		
RT-2D	08/02/2017	21:05		1.91		
RT-2E	08/02/2017	21:06		2.04		
RT-2F	08/02/2017	21:06		2.4		
RT-2G	08/02/2017	21:06		3.09		
RT-2I	08/02/2017	21:07		3.25		
RT-2J	08/02/2017	21:07		1.75		
RT-2K	08/02/2017	21:07	1.64	1.75		
RT-2L	08/02/2017	21:08		2.61		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	08/02/2017	21:09		14.1		
RW-02	08/02/2017	21:09	21.95	22.32		
RW-03	08/02/2017	21:09	22.35	22.39		
RW-04	08/02/2017	21:10	28.31	28.98		
RW-05	08/02/2017	21:10	32.09	33.85		
RW-06	08/02/2017	21:11		26.52		
RW-07	08/02/2017	21:11	23.3	23.85		
RW-08	08/02/2017	21:12		16.8		
RW-09	08/02/2017	21:12	14.18	14.22		
RW-10	08/02/2017	21:12	12	12.26		
RW-11	08/02/2017	21:13		12.67		
RW-12	08/02/2017	21:13		13.98		
RW-13	08/02/2017	21:13		11.1		Bubbling, depth to water may not be accurate
RW-14	08/02/2017	21:14		10.92		
RW-15	08/02/2017	21:15	13.61	13.9		

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	08/09/2017	20:28	11.33	11.63		
RS-02	08/09/2017	20:29	11.2	11.43		
RS-05	08/09/2017	20:30	9.83	10.3		
RS-06	08/09/2017	20:31	10.58	10.7		
RS-07	08/09/2017	20:32	14.3	14.37		
RS-08	08/09/2017	20:32	13.6	13.77		
RS-09	08/09/2017	20:32	10.91	10.98		
RS-10	08/09/2017	20:33	8.5	8.51		
RS-11	08/09/2017	20:33		8.18		
RS-12	08/09/2017	20:33		8.5		
RS-13	08/09/2017	20:34		9.5		
RS-14	08/09/2017	20:34	7.27	7.35		
RS-15	08/09/2017	20:34		7.11		
RS-16	08/09/2017	20:35		5.95		
RS-17	08/09/2017	20:35		6.13		
RS-18	08/09/2017	20:35	10.91	10.96		
RS-20	08/09/2017	20:36		6.56		
RS-04	08/09/2017	20:36		9.71		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	08/09/2017	20:37	14	14.09		
RT-1B	08/09/2017	20:38	13.96	14.05		
RT-1C	08/09/2017	20:38	14.44	14.51		
RT-2A	08/09/2017	20:39		1.26		
RT-2B	08/09/2017	20:39		1.37		
RT-2C	08/09/2017	20:40		1.81		
RT-2D	08/09/2017	20:40		1.9		
RT-2E	08/09/2017	20:40		3.01		
RT-2F	08/09/2017	20:40		2.36		
RT-2G	08/09/2017	20:41		3.1		
RT-2I	08/09/2017	20:41		3.22		
RT-2J	08/09/2017	20:41		1.75		
RT-2K	08/09/2017	20:42	1.39	1.5		
RT-2L	08/09/2017	20:42	2.89	2.92		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	08/09/2017	20:43		14.45		
RW-02	08/09/2017	20:43	22.22	22.5		
RW-03	08/09/2017	20:45	22.52	22.55		
RW-04	08/09/2017	20:45	28.65	29.33		
RW-05	08/09/2017	20:45	28.65	29.33		
RW-06	08/09/2017	20:46		26.8		
RW-07	08/09/2017	20:46	23.37	24.22		
RW-08	08/09/2017	20:46	16.94	16.95		
RW-09	08/09/2017	20:47	14.16	14.24		
RW-10	08/09/2017	20:48		10.08		
RW-11	08/09/2017	20:48		12.65		
RW-12	08/09/2017	20:48		14.11		
RW-13	08/09/2017	20:48		10.2		May be inaccurate as well was Bubbling
RW-14	08/09/2017	20:49		12.31		
RW-15	08/09/2017	20:50	13.7	13.72		

MW Wells	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	MW Well Comment
MW-01	08/12/2017	16:35		9.78		
MW-01B	08/12/2017	16:37		9.24		
MW-02	08/12/2017	16:37		3.98		
MW-02B	08/12/2017	16:38		0.37		
MW-03	08/12/2017	16:38		5		Maybe? Bubbling
MW-04	08/12/2017	16:39		9.49		
MW-05	08/12/2017	16:40		15.41		
MW-06	08/12/2017	16:40		14.84		
MW-07	08/12/2017	16:41	13.08	13.09		
MW-08	08/12/2017	16:41		11.7		
MW-09	08/12/2017	16:41		4.9		
MW-10	08/12/2017	16:42		14.05		
MW-11	08/12/2017	16:42	29.05	29.15		
MW-12	08/12/2017	16:43		14.41		
MW-12B	08/12/2017	16:43		14.82		
MW-13	08/12/2017	16:43		21.7		
MW-13B	08/12/2017	16:44		22.22		
MW-14	08/12/2017	16:44		17.52		
MW-14B	08/12/2017	16:45		18.37		
MW-15	08/12/2017	16:45		13.25		
MW-15B	08/12/2017	16:45		16.42		
MW-16	08/12/2017	16:46		7		Maybe,bubbling
MW-17	08/12/2017	16:47		16.82		
MW-17B	08/12/2017	16:47		16.07		
MW-18	08/12/2017	16:48	11.98	12.05		Maybe,bubbling
MW-19	08/12/2017	16:48		11.74		
MW-20	08/12/2017	16:49	12.33	13.1		
MW-21	08/12/2017	16:49		16.8		
MW-22	08/12/2017	16:50				Dry
MW-23	08/12/2017	16:50		10.7		
MW-23B	08/12/2017	16:50		11.22		
MW-24	08/12/2017	16:51		4.62		
MW-24B	08/12/2017	16:51		5.92		
MW-25	08/12/2017	16:52		8.61		
MW-25B	08/12/2017	16:52		5.65		
MW-26	08/12/2017	16:52		6.7		
MW-26B	08/12/2017	16:53		8.65		
MW-27	08/12/2017	16:53		26.47		
MW-27B	08/12/2017	16:53		29.8		
MW-28	08/12/2017	16:54		23.5		
MW-29	08/12/2017	16:54		9.65		
MW-30	08/12/2017	16:55		13.48		
MW-31	08/12/2017	16:55		20.1		
MW-31B	08/12/2017	16:55		19.71		
MW-32	08/12/2017	16:56		12.08		

MW Wells	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	MW Well Comment
MW-33	08/12/2017	16:56		24.8		
MW-33T	08/12/2017	16:56		26.2		
MW-35	08/12/2017	16:57		9.45		
MW-36	08/12/2017	16:57		19.22		
MW-36B	08/12/2017	16:57		18.95		
MW-37	08/12/2017	16:58		3.55		
MW-38	08/12/2017	16:58		2.05		
MW-39	08/12/2017	16:59		5.15		
MW-40	08/12/2017	16:59		2.53		
MW-41	08/12/2017	16:59		4.53		
MW-42	08/12/2017	17:00		5.19		
MW-44	08/12/2017	17:00		9.3		
MW-44B	08/12/2017	17:00		13.28		
MW-45	08/12/2017	17:01		14.05		
MW-45B	08/12/2017	17:01		15.33		

SW Wells	Date	Time	DTW	SW Well Comment
SW-01	08/12/2017	17:19	0.9	
SW-02	08/12/2017	17:19	1.61	
SW-03	08/12/2017	17:20	1.49	
SW-10	08/12/2017	17:20	0.27	

TW Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	TW Well Comment
TW-05R	08/12/2017	17:03		8.13		
TW-14R	08/12/2017	17:04				Dry
TW-15R	08/12/2017	17:04				Dry
TW-28	08/12/2017	17:04	22.35	22.5		
TW-30	08/12/2017	17:05		21.26		
TW-34	08/12/2017	17:05		22.2		
TW-35	08/12/2017	17:06		22.72		
TW-40	08/12/2017	17:06		28.65		
TW-41	08/12/2017	17:06		27.25		
TW-42	08/12/2017	17:07	25.74	26.58		
TW-45	08/12/2017	17:07	27.32	27.75		
TW-46	08/12/2017	17:08				Gone
TW-55	08/12/2017	17:08		3.6		Maybe,bubbling
TW-59	08/12/2017	17:09		14.25		
TW-60	08/12/2017	17:09		16.04		
TW-64	08/12/2017	17:09		16.23		
TW-65	08/12/2017	17:10		21.08		
TW-66	08/12/2017	17:10		2.65		
TW-67	08/12/2017	17:10		6.8		Maybe,bubbling
TW-68	08/12/2017	17:11		22.68		
TW-69	08/12/2017	17:11		14.77		
TW-70	08/12/2017	17:12		18.75		
TW-73	08/12/2017	17:12		8.4		
TW-76	08/12/2017	17:12		13.92		
TW-81	08/12/2017	17:12		5.58		
TW-82	08/12/2017	17:13		5.88		
TW-83	08/12/2017	17:13				Gone? Grassed over
TW-84	08/12/2017	17:14		7.12		
TW-85	08/12/2017	17:03				
TW-85	08/12/2017	17:15		6.1		Maybe,bubbling
TW-86	08/12/2017	17:15		5.55		
TW-87	08/12/2017	17:16		6.8		
TW-90	08/12/2017	17:16		7.7		Maybe,bubbling
TW-94	08/12/2017	17:16		0		Bubbling out of top
TW-96	08/12/2017	17:17		8.55		Maybe,bubbling

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	08/14/2017	13:58	11.02	11.32		Lock broken
RS-02	08/14/2017	13:59	11.16	11.42		
RS-04	08/14/2017	13:59		9.69		Odor
RS-05	08/14/2017	13:59	9.49	9.94		
RS-06	08/14/2017	13:59	10.45	10.59		
RS-07	08/14/2017	14:00	13.39	13.48		
RS-08	08/14/2017	14:00	13.71	13.97		
RS-09	08/14/2017	14:00	9.71	9.84		
RS-10	08/14/2017	14:00	7.88	7.89		Expansion cap broken
RS-11	08/14/2017	14:01		7.92		Odor
RS-12	08/14/2017	14:01	7.94	7.95		
RS-13	08/14/2017	14:02		8.71		No lock
RS-14	08/14/2017	14:02	6.41	6.5		
RS-15	08/14/2017	14:03		6.64		
RS-16	08/14/2017	14:03		5.47		
RS-17	08/14/2017	14:03		5.72		
RS-18	08/14/2017	14:04	9.97	10.02		
RS-19	08/14/2017	14:04				Damaged
RS-20	08/14/2017	14:04		6.32		No lock

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	08/14/2017	14:05	14.01	14.11		
RT-1B	08/14/2017	14:05	13.97	14.07		
RT-1C	08/14/2017	14:06	14.43	14.53		
RT-2A	08/14/2017	14:06		1.02		
RT-2B	08/14/2017	14:06		1.12		
RT-2C	08/14/2017	14:07		1.37		
RT-2D	08/14/2017	14:07	1.81	1.82		
RT-2E	08/14/2017	14:07		1.88		
RT-2F	08/14/2017	14:07	2	2.01		
RT-2G	08/14/2017	14:08		2.32		Lock broken
RT-2H	08/14/2017	14:08				Damaged
RT-2I	08/14/2017	14:09		3.24		
RT-2J	08/14/2017	14:09		1.7		
RT-2K	08/14/2017	14:09	1.41	1.61		
RT-2L	08/14/2017	14:10	2.62	2.7		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	08/14/2017	14:10		14.6		Odor
RW-02	08/14/2017	14:10	22.35	22.64		
RW-03	08/14/2017	14:11	22.64	22.68		
RW-04	08/14/2017	14:11	28.76	29.5		
RW-05	08/14/2017	14:11	32.41	34.3		
RW-06	08/14/2017	14:11		26.87		Odor
RW-07	08/14/2017	14:12	23.37	24.3		
RW-08	08/14/2017	14:12		16.94		Odor
RW-09	08/14/2017	14:12	14.08	14.53		Large nest of bees in ground to right of well
RW-10	08/14/2017	14:13	9.97	10.04		
RW-11	08/14/2017	14:14		12.86		Odor
RW-12	08/14/2017	14:14		14.22		Odor
RW-13	08/14/2017	14:14				Pumping
RW-14	08/14/2017	14:14		12.29		Odor
RW-15	08/14/2017	14:15		13.58		Odor

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	08/17/2017	13:09	11.1	11.46		
RS-02	08/17/2017	13:10	11.14	11.43		
RS-04	08/17/2017	13:10		9.68		
RS-05	08/17/2017	13:10	10.14	10.61		
RS-06	08/17/2017	13:10	10.87	11.03		
RS-07	08/17/2017	13:11	13.46	13.54		Expansion cap stripped, needs replacement
RS-08	08/17/2017	13:11	13.83	14.1		
RS-09	08/17/2017	13:12	9.12	9.16		
RS-10	08/17/2017	13:12	8.09	8.1		
RS-11	08/17/2017	13:12		7.96		
RS-12	08/17/2017	13:12		8.29		
RS-13	08/17/2017	13:13		7.81		Lock was missing, lock was replaced
RS-14	08/17/2017	13:13	5.69	5.77		
RS-15	08/17/2017	13:13		6.2		
RS-16	08/17/2017	13:14	5.26	5.27		
RS-17	08/17/2017	13:14		5.15		
RS-18	08/17/2017	13:14	9.72	9.77		
RS-20	08/17/2017	13:14		5.93		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	08/17/2017	13:15	14.22	14.32		
RT-1B	08/17/2017	13:16	14.19	14.29		
RT-1C	08/17/2017	13:16	14.62	14.71		Expansion cap stripped, needs replacement
RT-2A	08/17/2017	13:16		1.31		
RT-2B	08/17/2017	13:17		1.42		
RT-2C	08/17/2017	13:17		1.86		
RT-2D	08/17/2017	13:17		1.93		
RT-2E	08/17/2017	13:17		2.04		
RT-2F	08/17/2017	13:17		2.38		
RT-2G	08/17/2017	13:18		4.63		
RT-2I	08/17/2017	13:18		3.25		
RT-2J	08/17/2017	13:18		1.75		
RT-2K	08/17/2017	13:18	1.44	1.55		No inner casing, measurement from top of outer casing
RT-2L	08/17/2017	13:19	2.62	2.64		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	08/17/2017	13:19		14.62		
RW-02	08/17/2017	13:20	22.38	22.68		
RW-03	08/17/2017	13:20	22.68	22.71		
RW-04	08/17/2017	13:20	28.9	29.25		
RW-05	08/17/2017	13:20	33.75	34.77		
RW-06	08/17/2017	13:21		27.04		
RW-07	08/17/2017	13:21	23.55	24.5		
RW-08	08/17/2017	13:21		17.1		Lock replaced
RW-09	08/17/2017	13:22	14.25	14.6		
RW-10	08/17/2017	13:22	11.69	11.78		Expansion cap was replaced
RW-11	08/17/2017	13:23		13		Odor
RW-12	08/17/2017	13:23		14.35		Odor
RW-13	08/17/2017	13:23				Air sparging
RW-14	08/17/2017	13:23		12.4		
RW-15	08/17/2017	13:23	13.77	13.82		Tank: DTP 8.14, DTW 8.18

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	08/21/2017	10:40	11.12	11.52		
RS-02	08/21/2017	10:40	11.14	11.48		
RS-04	08/21/2017	10:40		9.68		Odor
RS-05	08/21/2017	10:40	9.88	10.44		
RS-06	08/21/2017	10:41	10.95	11.12		
RS-07	08/21/2017	10:41	13.58	13.69		Expansion cap broken
RS-08	08/21/2017	10:42	13.87	14.12		
RS-09	08/21/2017	10:42	8.85	8.93		
RS-10	08/21/2017	10:42	8.17	8.2		
RS-11	08/21/2017	10:43		8.12		
RS-12	08/21/2017	10:43	8.44	8.45		
RS-13	08/21/2017	10:43		7.15		
	08/21/2017	10:44	5.8	5.89		
RS-15	08/21/2017	10:44		6.41		
RS-16	08/21/2017	10:44		5.35		Odor
RS-17	08/21/2017	10:44		5.11		
RS-18	08/21/2017	10:44	9.71	9.79		
RS-20	08/21/2017	10:45		5.7		No lock

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	08/21/2017	10:46	14.22	14.33		
RT-1B	08/21/2017	10:46	14.17	14.28		
RT-1C	08/21/2017	10:46	14.62	14.73		Expansion cap broken
RT-2A	08/21/2017	10:47		1.07		Odor
RT-2B	08/21/2017	10:47		1.15		Odor
RT-2C	08/21/2017	10:47	1.89	1.91		
RT-2D	08/21/2017	10:47		1.94		
RT-2E	08/21/2017	10:48		2.06		
RT-2F	08/21/2017	10:48		2.35		
RT-2G	08/21/2017	10:48	3.4	3.41		
RT-2I	08/21/2017	10:48		3.3		
RT-2J	08/21/2017	10:49		1.74		
RT-2K	08/21/2017	10:49	1.47	1.65		
RT-2L	08/21/2017	10:49	2.69	2.77		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	08/21/2017	10:50		14.9		Odor
RW-02	08/21/2017	10:50	22.46	22.8		
RW-03	08/21/2017	10:50	22.72	22.8		
RW-04	08/21/2017	10:50	28.96	29.43		
RW-05	08/21/2017	10:50	32.74	34.36		
RW-06	08/21/2017	10:51		27.21		Odor
RW-07	08/21/2017	10:51	23.81	24.82		
RW-08	08/21/2017	10:52	23.86	23.87		
RW-09	08/21/2017	10:52	9.49	9.58		Nest of bees to the right of the well
RW-10	08/21/2017	10:53	11.55	11.76		
RW-11	08/21/2017	10:53		13.72		Odor
RW-12	08/21/2017	10:54		14.46		Odor
RW-13	08/21/2017	10:54				Pumping
RW-14	08/21/2017	10:54			12.71	Odor
RW-15	08/21/2017	10:54	13.81	13.98		Tank: DTP - 8.13 DTW- 8.24

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	08/24/2017	13:12	13.6	13.7		Expansion cap needs replacement
RS-08	08/24/2017	13:13	14.03	14.32		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	08/24/2017	13:17	13.6	14.4		
RT-1B	08/24/2017	13:17	14.28	14.38		
RT-1C	08/24/2017	13:17	14.72	14.81		Expansion cap needs replacement
RT-2A	08/24/2017	13:18		1.38		
RT-2B	08/24/2017	13:18		1.48		
RT-2C	08/24/2017	13:18		1.92		
RT-2D	08/24/2017	13:18		1.99		
RT-2E	08/24/2017	13:19		2.1		
RT-2F	08/24/2017	13:19		2.44		
RT-2G	08/24/2017	13:19		2.98		
RT-2I	08/24/2017	13:21		3.38		
RT-2J	08/24/2017	13:21		1.9		
RT-2K	08/24/2017	13:22	0.6	0.72		Inner casing missing, measurement from top of outer casing
RT-2L	08/24/2017	13:22	2.8	2.83		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	08/24/2017	13:23	13.6	29.35		
RW-05	08/24/2017	13:23	32.98	33.67		
RW-06	08/24/2017	13:24	27.15	27.16		
RW-07	08/24/2017	13:24	23.71	24.73		
RW-08	08/24/2017	13:24	17.32	17.33		
RW-09	08/24/2017	13:25	14.45	14.81		
RW-11	08/24/2017	13:25	13.21	13.23		
RW-12	08/24/2017	13:25	14.57	14.58		
RW-14	08/24/2017	13:25		12.58		Tank: DTP - 7.99, DTW - 8.01

Brown, Ryan/ATL

From: Thomas Wesley Barnes III <TWBarnes@ecslimited.com>
Sent: Friday, September 1, 2017 5:10 PM
To: Britney Camper Barnes; Brown, Ryan/ATL
Subject: RE: Please see attached Well Gauging Form for your records [EXTERNAL]

RT-1A 14.51 dtp 14.61 dtw

Frac tank was getting cleaned out, no fluid in it, poly tank had about 370 gallons, cant see if product or water

THOMAS WESLEY BARNES III
ECS SOUTHEAST, LLP **T** 864.987.1610 | **D** 864.326.4786 | **C** 864.380.6899
http://secure-web.cisco.com/1_42QbpTTfj5OMqAfM3XpnlUCuEqSgavDzrjmQcx6fAiXOhoY3ueaYLP9MvGsIIuL9cYAoKgJq6s3yXMT7ljogCkICDxi-01E2Ap03LpfbeLxtuiII05eG_hrR2mFu9PjMI-Mf6eektCDZWeWc3QM80iL10wNyFE7ca6UThN9ZbaLCfK-07Jfw9QV0ZLwcggLo4WQ-p5VjLy0d8czRBE4OLDTWBQ9HxbtbGfadxO9qpIDooiCELIWEjcYRbF1yqDNEE9pr16ozkiuoYTqMGmtCrWNU5TxD-T1aoU_YGNfbv2iis3CfwAJwSIT0UQxUtda-wm_DiMr08VtD7f8ZkhwggsQc8I8w1TaQ_LxZE4gI6gGuEpRWEv9Zg21y3Kr6b2VYEZBX_AX2fIktrDCieq3DtBXanD8gzScms7jlQ6snc0sH-gTyIP04KezC2LGJgRoUKE20oscAoY8s-gSWY5fYTGzgTPgjrqG7gokL9DdrzLOrWUiC4q4O9K8NSxxLxxe/http%3A%2F%2Fwww.ecslimited.com

---

From: Britney Camper Barnes
Sent: Friday, September 01, 2017 3:51 PM
To: Brown, Ryan/ATL
Cc: Thomas Wesley Barnes III
Subject: RE: Please see attached Well Gauging Form for your records

Hey
Tom is traveling right now and I will see if I can run down his notes.
Thanks!

BRITNEY CAMPER BARNES
ECS SOUTHEAST, LLP **T** 864.987.1610 | **D** 864.987.1811 | **C** 864.420.8213
http://secure-web.cisco.com/1_42QbpTTfj5OMqAfM3XpnlUCuEqSgavDzrjmQcx6fAiXOhoY3ueaYLP9MvGsIIuL9cYAoKgJq6s3yXMT7ljogCkICDxi-01E2Ap03LpfbeLxtuiII05eG_hrR2mFu9PjMI-Mf6eektCDZWeWc3QM80iL10wNyFE7ca6UThN9ZbaLCfK-07Jfw9QV0ZLwcggLo4WQ-p5VjLy0d8czRBE4OLDTWBQ9HxbtbGfadxO9qpIDooiCELIWEjcYRbF1yqDNEE9pr16ozkiuoYTqMGmtCrWNU5TxD-T1aoU_YGNfbv2iis3CfwAJwSIT0UQxUtda-wm_DiMr08VtD7f8ZkhwggsQc8I8w1TaQ_LxZE4gI6gGuEpRWEv9Zg21y3Kr6b2VYEZBX_AX2fIktrDCieq3DtBXanD8gzScms7jlQ6snc0sH-gTyIP04KezC2LGJgRoUKE20oscAoY8s-gSWY5fYTGzgTPgjrqG7gokL9DdrzLOrWUiC4q4O9K8NSxxLxxe/http%3A%2F%2Fwww.ecslimited.com

---

From: Brown, Ryan/ATL [mailto:Ryan.Brown2@CH2M.com]
Sent: Friday, September 01, 2017 2:53 PM

To: Thomas Wesley Barnes III; Britney Camper Barnes
Subject: FW: Please see attached Well Gauging Form for your records

Can you look at your notes? RT-1A does not look right. Did you gauge the frac tank or other tanks? Thanks!

Ryan W. Brown
Environmental Engineer
D 1 678 530 4055
M 1 404 434 0880
F 1 770 604 9183

CH2M
6600 Peachtree Dunwoody Rd.
400 Embassy Row, Suite 600
Atlanta, GA 30328
www.ch2m.com | LinkedIn | Twitter | Facebook
Email - rbrown9@ch2m.com

Core work hours: M - F from 8:00AM - 4:00PM EST
Upcoming Fieldwork (out of office): None
Upcoming PTO: September 21 -24
Upcoming Holiday: September 4
Upcoming Training: None
Upcoming WFH: September 1 and November 7

From: ch2mobile@ch2mhill.com [mailto:ch2mobile@ch2mhill.com]
Sent: Thursday, August 31, 2017 11:26 AM
To: Brown, Ryan/ATL <Ryan.Brown2@CH2M.com>
Cc: Jay, Ian/ATL <Ian.Jay@ch2m.com>; Powell, Scott/ATL <Scott.Powell@ch2m.com>; Ward, Zachary/RAL <Zachary.Ward@ch2m.com>
Subject: Please see attached Well Gauging Form for your records

Form Result: cf92a09e-e6c9-4fd6-9a58-1984cd65c6cb

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	08/31/2017	11:16	13.81	13.90		
RS-08	08/31/2017	11:17	14.25	14.50		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
						readings corrected on 9/5/17 per email from Thomas
RT-1A	08/31/2017	11:17	14.51	14.61		Barnes
RT-1B	08/31/2017	11:18	14.46	14.56		
RT-1C	08/31/2017	11:18	14.91	15.01		
RT-2A	08/31/2017	11:19		1.37		
RT-2B	08/31/2017	11:19		1.50		
RT-2C	08/31/2017	11:19		1.92		
RT-2D	08/31/2017	11:19		2.01		
RT-2E	08/31/2017	11:20		2.11		
RT-2F	08/31/2017	11:20		2.47		
RT-2G	08/31/2017	11:20		3.47		
RT-2H	08/31/2017	11:20				Damaged
RT-2I	08/31/2017	11:21		3.38		
RT-2J	08/31/2017	11:21		2.05		
RT-2K	08/31/2017	11:21	1.68	1.80		
RT-2L	08/31/2017	11:22	2.86	2.92		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	08/31/2017	11:22	29.40	29.70		
RW-05	08/31/2017	11:23	33.10	34.21		
RW-06	08/31/2017	11:23		27.42		
RW-07	08/31/2017	11:23	23.98	25.13		
RW-08	08/31/2017	11:24	17.75	17.78		
RW-09	08/31/2017	11:24	14.52	15.42		
RW-11	08/31/2017	11:24		13.46		
RW-12	08/31/2017	11:25		14.75		
RW-14	08/31/2017	11:25		12.88		

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	09/05/2017	14:32	13.89	13.99		
RS-08	09/05/2017	14:33	14.31	14.58		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	09/05/2017	14:34	14.54	14.68		
RT-1B	09/05/2017	14:34	14.5	14.63		
RT-2A	09/05/2017	14:35		1.21		
RT-2B	09/05/2017	14:35		1.29		Lock replaced
RT-2C	09/05/2017	14:35		1.75		
RT-2D	09/05/2017	14:35		1.83		Sheen
RT-2E	09/05/2017	14:36		1.93		
RT-2F	09/05/2017	14:36		2.27		
RT-2G	09/05/2017	14:36		1.37		Sheen
RT-2I	09/05/2017	14:37		1.27		
RT-2J	09/05/2017	14:37				Filled with water
RT-2K	09/05/2017	14:37	1.41	1.53		No inner casing, measurement from top of outer casing
RT-2L	09/05/2017	14:38	2.53	2.55		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	09/05/2017	14:38	29.46	29.79		
RW-05	09/05/2017	14:39	32.97	34.82		
RW-07	09/05/2017	14:39	23.33	24.31		
RW-08	09/05/2017	14:40	16.5	16.53		
RW-09	09/05/2017	14:40	13.68	14.08		Yellow Jackets nest right of well
RW-11	09/05/2017	14:41		12.88		Odor
RW-12	09/05/2017	14:41		14.8		
RW-14	09/05/2017	14:41		8.58		Tank 1 (close to building): DTP - none, DTW - 1.03 sludge at surface Tank 2 (away from building): DTP - 0.14, DTW - 0.46 Appears that Tank 2 over filled. Brown sludge on top of tank and oily water in secondary containment.

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** Morning lightning/thunderstorms, afternoon showers, overcast

PN: 684910.LD.MR.GW

Project: Quarterly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: **Date:** 9/8/2017 Date added by RWB

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
Brown's Creek Protection Zone							
MW-12	1100	2712		14.84	19.09	7.95	has TROLL
MW-12B	1105	10.7		15.20	45.81	0.70	
MW-15	1118	12.8		13.87	21.23	7.95	has TROLL
MW-15B	1123	26.1		16.40	74.41	0.98	
MW-24	1250	2.7		4.47	15.32	--	
MW-24B	1252	0.5		5.83	45.10	--	
MW-25	1030	0.1		8.83	14.40	0.68	Updated 9/8/17.
MW-25B	1028	0.4		5.62	62.20	2.10	Double checked DTB is correct at 62.20
MW-28	1205	1205		23.48	25.93	0.40	
MW-34	1009	36		2.53	7.86	--	
MW-35	1047	3.3		9.74	28.42	--	
MW-37	1135	0.1		3.46	18.11	--	
MW-38	1240	0.3		1.88	11.61	--	
MW-39	1011	58.3		5.50	13.01	--	
MW-40	1015	1113		2.88	13.18	--	Deployed new troll on 09/08/17
MW-41	1021	2.3		4.49	13.20	--	
MW-42	1025	1		5.16	13.40	--	
SW-01	1246	--	--	--	--	6.65	stream gauge = 0.96 ft as of 9/717. Sparge system off during DO measurement.
SW-03	1055	--	--	--	--	2.36	sparge system off during DO measurement
SW-12	1110	--	--	--	--	2.60	sparge system off during DO measurement
SW-13	1255	--	--	--	--	4.90	depth 1.2 in. sparge system off during DO measurement
TW-59	835	0.5		15.34	21.15	ND	Updated 9/7/ 17. Not able to collect DO due to shifting concrete cover. Photo available.

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** Morning lightning/thunderstorms, afternoon showers, overcast

PN: 684910.LD.MR.GW

Project: Quarterly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: **Date:** 9/8/2017 ← Date added by RWB

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
TW-60	842	>15,000		10.11	30.25	5.65	Updated 9/7/17.
TW-66	826	1.1		2.45	23.62	8.93	Updated 9/7/17.
Cupboard Creek Protection Zone							
MW-19	1740	4110		11.76	12.13	0.85	
MW-20	1751	2612	12.99	13.71	19.45	0.45	has TROLL
MW-23	1715	2.7		11.22	23.50	--	Total depth measurement double checked
MW-23B	1717	0.2		11.21	33.00	--	Total depth has fluxuated by ~23" since yesterday
MW-26	1721	4.8		7.18	17.15	--	
MW-26B	1722	0.4		8.95	43.84	--	
MW-29	1727	0.3		10.41	15.10	6.50	
TW-67	1748	138.3		13.32	26.47	9.15	
TW-73	1742	0.2		9.20	26.46	8.90	
Hayfield Zone							
MW-02	1454	5002		4.21	19.84	6.20	has TROLL
MW-02B	1447	3.6		1.94	72.50	1.54	
MW-03					20.28		Pressure too high/unsafe to open. Flying ants due to pressure (literally).
MW-04	1514	0.3		11.07	19.59	7.61	
MW-05	1510	0.1		16.50	19.89	--	
MW-06	1606	0.5		15.34	19.20	--	
MW-07	1557	79.5		13.20	13.62	--	
MW-08	1539	0.1		11.92	16.69	8.59	Removed troll, added troll to MW-40
MW-09	1529	532.1	2.81	3.00	20.25		
MW-10	1405	1.8		13.50	23.54	1.70	has BaroTROLL
MW-13	1303	184.4		21.85	22.18	--	
MW-13B	1307	3		22.70	47.90	--	

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** Morning lightning/thunderstorms, afternoon showers, overcast

PN: 684910.LD.MR.GW

Project: Quarterly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: **Date:** 9/8/2017 Date added by RWB

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
MW-14	1310	0		18.08	22.20	--	
MW-14B	1314	4.2		18.84	76.97	--	
MW-16	1613	1216	8.95	9.10	20.37		
MW-17	1652	881		16.71	27.50	--	
MW-17B	1656	234.7		10.85	11.20	--	
MW-18	1547	5500	12.68	12.71	19.75	9.31	
MW-21	1700	71		17.34	28.93	--	
MW-30	1429	104.27		14.56	14.69	ND	Too shallow to take accurate DO readings
MW-31	1326	0.1		20.35	28.20	--	
MW-31B	1329	1.3		20.34	51.30	--	
MW-32	1416	0		12.32	29.09	--	
MW-33	1348	0.1		25.30	28.30	--	
MW-33T	1345	0.7		26.71	100.35	--	
MW-45	1709	0.5		15.70	21.51	--	
MW-45B	1707	2.7		14.19	14.45	--	
TW-55	810	0		6.95	41.50	9.06	Updated 9/7/17.
TW-64	758	0		17.05	52.85	4.38	Updated 9/7/17.
TW-96	1413	1.6		9.28	28.76	9.05	
Shallow Bedrock Zone							
MW-01	850	0		8.30	15.61	3.40	has BaroTROLL. Data Updated 09/7/17
MW-01B	852	0		10.78	45.26	0.85	Updated 9/7/17.
MW-11	845	1836	29.69	30.04	32.50	7.89	Updated 9/7/17.
MW-22	859	>15000		10.35	10.35	ND	Updated data 09/07/17. Dry well. No DO measurements
MW-27	849	0.2		27.28	29.51	7.79	Updated 9/7/17.
MW-27B	847	2.9	30.06	30.07	41.45	7.96	Updated 9/7/17.

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** Morning lightning/thunderstorms, afternoon showers, overcast

PN: 684910.LD.MR.GW

Project: Quarterly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: **Date:** 9/8/2017 Date added by RWB

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
MW-44	856	0		9.38	9.82	2.72	Updated 9/8/17.
MW-44B	857	0		13.95	30.62	0.68	Updated 9/8/17.

BTOC - below top of casing
ft - feet
PN - Project Number

[1]Total depths collected 9/06/17

ppm - parts per million
SM - Site Manager
- wells historically found to have product

MW Wells	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	MW Well Comment
MW-01	09/10/2017	16:27		9.05		
MW-01B	09/10/2017	16:28		10.77		
MW-02	09/10/2017	16:28		3.42		
MW-02B	09/10/2017	16:29		2.42		
MW-03	09/10/2017	16:29		6		Maybe, bubbling
MW-04	09/10/2017	16:30		10.82		
MW-05	09/10/2017	16:30		16.65		
MW-06	09/10/2017	16:30		15.4		
MW-07	09/10/2017	16:31		13.17		
MW-08	09/10/2017	16:31		11.2		
MW-09	09/10/2017	16:31		3.5		Maybe,bubbling
MW-10	09/10/2017	16:32		13.02		
MW-11	09/10/2017	16:32	29.68	30.04		
MW-12	09/10/2017	16:32		14.9		
MW-12B	09/10/2017	16:33		15.35		
MW-13	09/10/2017	16:33		21.85		
MW-13B	09/10/2017	16:33		22.75		
MW-14	09/10/2017	16:34		18.07		
MW-14B	09/10/2017	16:34		18.97		
MW-15	09/10/2017	16:34		14.12		
MW-15B	09/10/2017	16:35		16.37		
MW-16	09/10/2017	16:35		8.5		Maybe,bubbling
MW-17	09/10/2017	16:36		10.83		
MW-17B	09/10/2017	16:36		16.75		
MW-18	09/10/2017	16:36		11.1		Maybe,bubbling
MW-19	09/10/2017	16:37		11.77		
MW-20	09/10/2017	16:37	12.94	13.45		
MW-21	09/10/2017	16:38		17.39		
MW-22	09/10/2017	16:38				Dry
MW-23	09/10/2017	16:38		11.28		
MW-23B	09/10/2017	16:39		11.33		
MW-24	09/10/2017	16:39		4.65		
MW-24B	09/10/2017	16:39		5.79		
MW-25	09/10/2017	16:40		8.88		
MW-25B	09/10/2017	16:40		5.37		
MW-26	09/10/2017	16:40		7.35		
MW-26B	09/10/2017	16:41		9.08		
MW-27	09/10/2017	16:41		27.33		
MW-27B	09/10/2017	16:41		30.15		
MW-28	09/10/2017	16:42		25.04		
MW-29	09/10/2017	16:42		10.5		
MW-30	09/10/2017	16:42		14.45		
MW-31	09/10/2017	16:43		20.26		
MW-31B	09/10/2017	16:43		20.32		
MW-32	09/10/2017	16:43		11.51		

MW Wells	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	MW Well Comment
MW-33	09/10/2017	16:44		25.35		
MW-33T	09/10/2017	16:44		26.75		
MW-34	09/10/2017	16:44		2.61		
MW-35	09/10/2017	16:45		8.98		
MW-36	09/10/2017	16:45		19.89		
MW-36B	09/10/2017	16:45		19.6		
MW-37	09/10/2017	16:46		3.5		
MW-38	09/10/2017	16:46		1.99		
MW-39	09/10/2017	16:46		6.04		
MW-40	09/10/2017	16:47		3.22		
MW-41	09/10/2017	16:47		4.64		
MW-42	09/10/2017	16:47		5.24		
MW-44	09/10/2017	16:48		9.35		
MW-44B	09/10/2017	16:48		14.15		
MW-45	09/10/2017	16:48		14.21		
MW-45B	09/10/2017	16:49		15.72		

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	09/10/2017	16:16	11.45	11.77		
RS-02	09/10/2017	16:17	11.17	11.37		
RS-04	09/10/2017	16:17		9.7		
RS-05	09/10/2017	16:18	10.35	10.95		
RS-06	09/10/2017	16:18	11.36	11.46		
RS-07	09/10/2017	16:18	13.91	13.98		
RS-08	09/10/2017	16:19	14.39	14.68		
RS-09	09/10/2017	16:19	9.15	9.2		
RS-10	09/10/2017	16:20		8.47		
RS-11	09/10/2017	16:20		8.35		
RS-12	09/10/2017	16:20		8.7		
RS-13	09/10/2017	16:21		6.43		
RS-14	09/10/2017	16:21		5.4		
RS-15	09/10/2017	16:21	6.17	6.18		
RS-16	09/10/2017	16:22		4.94		
RS-17	09/10/2017	16:22		4.61		
RS-18	09/10/2017	16:22		10		
RS-20	09/10/2017	16:22		5.68		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	09/10/2017	16:23		14.2		
RW-02	09/10/2017	16:24	22.85	23.1		
RW-03	09/10/2017	16:24	23.25	23.26		
RW-10	09/10/2017	16:25	11.95	12.06		
RW-13	09/10/2017	16:25				Too much pressure causing rubber gasket to expand, can't budge
RW-15	09/10/2017	16:26	14.03	14.51		

SW Wells	Date	Time	DTW	SW Well Comment
SW-01	09/10/2017	17:04	0.91	
SW-02	09/10/2017	17:04	1.6	
SW-03	09/10/2017	17:05	1.54	
SW-08	09/10/2017	17:05	1.09	
SW-10	09/10/2017	17:05	0.3	

TW Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	TW Well Comment
TW-04R	09/10/2017	16:51				Dry
TW-05R	09/10/2017	16:51		6.87		
TW-14R	09/10/2017	16:51				Dry
TW-15R	09/10/2017	16:52				Dry
TW-21	09/10/2017	16:52		5		
TW-28	09/10/2017	16:52	22.8	22.9		
TW-30	09/10/2017	16:52		22		
TW-34	09/10/2017	16:53		22.2		
TW-35	09/10/2017	16:53		22.72		
TW-40	09/10/2017	16:53		28.9		
TW-41	09/10/2017	16:54		27.89		
TW-42	09/10/2017	16:54	26.26	27.2		
TW-45	09/10/2017	16:54	27.85	28.4		
TW-55	09/10/2017	16:55		6.6		Maybe,bubbling
TW-59	09/10/2017	16:55		14.85		
TW-60	09/10/2017	16:56		10.45		
TW-64	09/10/2017	16:56		17.25		
TW-65	09/10/2017	16:56		21.61		
TW-66	09/10/2017	16:57		2.98		
TW-67	09/10/2017	16:57		9.8		Maybe,bubbling
TW-68	09/10/2017	16:57		23.11		
TW-69	09/10/2017	16:58		15.24		
TW-70	09/10/2017	16:58		19.35		
TW-73	09/10/2017	16:58		9.15		
TW-76	09/10/2017	16:59		14.39		
TW-81	09/10/2017	16:59		4.87		
TW-82	09/10/2017	16:59		5.11		
TW-83	09/10/2017	16:59				Can't find, grassed over
TW-84	09/10/2017	17:00		6.67		
TW-85	09/10/2017	17:00		10.6		Maybe, bubbling
TW-86	09/10/2017	17:01		5.56		
TW-87	09/10/2017	17:01		6.8		
TW-90	09/10/2017	17:02		10.2		Maybe,bubbling
TW-94	09/10/2017	17:02				Bubbling out top when cap removed
TW-96	09/10/2017	17:03		6.7		Maybe,bubbling

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	09/15/2017	14:13	13.7	13.71		
RS-08	09/15/2017	14:13	14.21	14.41		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	09/15/2017	14:15	14.38	14.42		
RT-1B	09/15/2017	14:15	14.34	14.38		
RT-2A	09/15/2017	14:16		0.95		
RT-2B	09/15/2017	14:16		1.07		Odor
RT-2C	09/15/2017	14:16		1.51		
RT-2D	09/15/2017	14:16		1.59		
RT-2E	09/15/2017	14:17		1.7		
RT-2F	09/15/2017	14:17		2.03		
RT-2G	09/15/2017	14:17		1.32		
RT-2I	09/15/2017	14:17				Tree fell on well. Could not
RT-2J	09/15/2017	14:18				Water above top of casing.
RT-2K	09/15/2017	14:18				Expansion cap could not be removed.
RT-2L	09/15/2017	14:19	2.24	2.25		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	09/15/2017	14:19	29.46	29.78		
RW-05	09/15/2017	14:20	32.9	34.76		
RW-07	09/15/2017	14:20	23.21	24.14		
RW-08	09/15/2017	14:20	16.35	16.36		
RW-09	09/15/2017	14:21	13.55	13.9		
RW-11	09/15/2017	14:21		13.01		Odor
RW-12	09/15/2017	14:21		14.84		Odor
RW-14	09/15/2017	14:22		8.67		Tank 1: DTP - no measurement, DTW - 3.53 Tank 2: DTP - 4.92, DTW - 4.94

Brown, Ryan/ATL

From: James C. Bevers, P.E. <jbevers@ecslimited.com>
Sent: Saturday, September 16, 2017 5:42 PM
To: Brown, Ryan/ATL
Cc: Britney Camper Barnes; Thomas Wesley Barnes III
Subject: Kinder Morgan Total Depth Well Request [EXTERNAL]

Ryan,

Following are the water and total depths of the requested wells.

Well	Water Depth	Total Depth
MW-02	1.73	19.78
MW-02B	14.00	71.20 (depth inaccurate, difficult to determine, silt?)
MW-04	10.17	20.65
MW-07	13.17	13.58
MW-08	5.70	19.80
MW-09	2.43	20.21
MW-12	14.28	21.69 (silt)
MW-13B	22.59	55.36 (difficult to measure, silt?)
MW-15	11.45	21.22
MW-17	16.65	27.44
MW-21	17.14	20.70
MW-22	9.92	10.30
MW-23B	11.34	53.48
MW-24	4.50	15.30
MW-25	8.28	18.07
MW-25B	5.17	59.00
MW-27B	30.17	50.30
MW-31B	20.25	79.25
MW-44B	14.10	34.50
MW-45	14.21	14.42
MW-45B	15.76	40.31
TW-60	7.34	34.75
TW-66	1.63	23.81
TW-73	Fire ant nest, could not access well	

Please let me know if you have any questions regarding these measurements.

JAMES C. BEVERS, P.E. | Environmental Project Manager
T 828.665.2307 | **D** 828.785.4179 | **C** 828.575.7183
1900 Hendersonville Road, Suite 10 | Asheville | NC | 28803

ECS SOUTHEAST, LLP
http://secure-web.cisco.com/1_Ejqmw_phpe0TI2eDQhfcOSU8k8dhllF_xg11TTCj1zkRFrFw4_EGH4P4uzsSdAXksUUxBW3T0_OlXStMVwVZqRuXv1eikEVOR_r6zYbkiKn0G1l06tV30sRDd005FM9jT9ugRIo_ELIWgvgv5Nanea5T9yC0SU3DtHMpABHJPpvUp67th3sh3dpzYsgSpKxqraIAGH0JyP1JTQzmsyKZUvMoBiDvlvuVqjDkKtS5zXtwYYzkAZhrwOMWzJ4rZmjqiZztJZdJYNXs4t9MN4wAdSQMLUmlsXNNWmZb5rw6ivhmBNyIDYNZ9oC6UKKva7EYkVx-hM8l-T-4xKgrQmuAeX4BzppgK5L4mS7A8BuYAefxjQIMdsKT8O7nmjwncks7kyFJWayIB_KreJGIx_YoQJM95l-

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	09/21/2017	11:15	13.76	13.77		
RS-08	09/21/2017	11:16	14.23	14.42		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	09/21/2017	11:19	14.43	14.5		
RT-1B	09/21/2017	11:20	14.39	14.46		
RT-1C	09/21/2017	11:20	14.82	14.9		
RT-2A	09/21/2017	11:21		1.28		
RT-2B	09/21/2017	11:21		1.46		
RT-2C	09/21/2017	11:21		1.84		
RT-2D	09/21/2017	11:21		1.91		Sheen
RT-2E	09/21/2017	11:22		2.03		
RT-2F	09/21/2017	11:22		2.37		Lock replaced
RT-2G	09/21/2017	11:22		3.3		
RT-2I	09/21/2017	11:22		3.3		
RT-2J	09/21/2017	11:22		1.85		Odor
RT-2K	09/21/2017	11:23				Could not access
RT-2L	09/21/2017	11:23	2.62	2.64		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	09/21/2017	11:16	29.34	29.66		
RW-05	09/21/2017	11:17	32.87	33.58		
RW-06	09/21/2017	11:17		27.32		Odor
RW-07	09/21/2017	11:17	23.85	24.9		
RW-08	09/21/2017	11:18	17.48	17.5		
RW-09	09/21/2017	11:18	14.49	14.91		
RW-11	09/21/2017	11:18		13.06		Odor
RW-12	09/21/2017	11:18		14.78		Odor
RW-14	09/21/2017	11:19		12.64		Tank 1: DTP 3.40, DTW 3.42 Tank 2: DTP 4.78, DTW 4.82

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	09/28/2017	12:23	13.92	13.95		
RS-08	09/28/2017	12:24	14.41	14.69		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	09/28/2017	12:26	14.62	14.72		
RT-1B	09/28/2017	12:26	14.58	14.68		
RT-1C	09/28/2017	12:26	15.02	15.11		
RT-2A	09/28/2017	12:26		1.39		
RT-2B	09/28/2017	12:27		1.51		
RT-2C	09/28/2017	12:27		1.95		
RT-2D	09/28/2017	12:27		2.03		Sheen
RT-2E	09/28/2017	12:27		2.14		
RT-2F	09/28/2017	12:28		2.49		
RT-2G	09/28/2017	12:28		3.42		
RT-2I	09/28/2017	12:28		3.4		Lock replaced
RT-2J	09/28/2017	12:28		1.98		
RT-2K	09/28/2017	12:28	1.59	1.73		
RT-2L	09/28/2017	12:29	2.76	2.79		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	09/28/2017	12:35	29.62	30.01		Lock needs replacement
RW-05	09/28/2017	12:35	32.98	34.76		
RW-06	09/28/2017	12:36		27.41		
RW-07	09/28/2017	12:36	23.97	25.05		
RW-08	09/28/2017	12:36		17.57		Odor
RW-09	09/28/2017	12:37	14.59	15.35		
RW-11	09/28/2017	12:37		13.37		Odor
RW-12	09/28/2017	12:37	14.45	14.46		
RW-14	09/28/2017	12:37		12.78		Tank 1: DTP no measurement, DTW 3.45 Tank 2: DTP 4.82, DTW 4.84

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** SUNNY MID 70'S

PN: 684910.LD.MR.GW

Project: Quarterly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: M. WARREN, K. SEXTON **Date:** 10/03/17

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
Brown's Creek Protection Zone							
MW-12	1238	1006.0	—	14.61	22.05	0.35	has TROLL 21.70 TOTAL DEPTH
MW-12B	1240	1.0	—	14.93	45.31	0.70	45.55 TOTAL DEPTH
MW-15	1114	32.4	—	11.65	21.40 ✓	0.68	has TROLL
MW-15B	1111	13.9	—	16.65	75.63	0.77	86.00 TOTAL DEPTH
MW-25	1207	0.0	—	8.52	18.04 ✓	1.83	
MW-25B	1210	0.0	—	5.83	56.43	1.06	61.90 TOTAL DEPTH
MW-28	1223	813	—	23.80	25.91	0.57	26.05 TOTAL DEPTH ★LOW FLOW★
TW-59	1230	0.0	—	14.80	22.00	INACCESSIBLE	21.11 TOTAL DEPTH. CEMENT PAD NEEDS REPLACEM
TW-60	1247	13.5	—	7.72	29.77	8.13	
TW-66	1159	0.0	—	1.79	29.70	6.02	23.87 TOTAL DEPTH
Cupboard Creek Protection Zone							
MW-19	0958	3449	—	11.78	12.15 ✓	7.56	DRY
MW-20	1005	5006	13.25	13.79	19.40 ✓	—	has TROLL
MW-29	0940	0.0	—	10.85	14.95	7.79	15.02 TOTAL DEPTH
TW-67	1013	5.0	—	13.83	26.46	8.02	26.37 TOTAL DEPTH
TW-73	0950	0.0	—	9.43	12.75	8.41	12.58 TOTAL DEPTH
Hayfield Zone							
MW-02	1459	0.0	—	16.03	23.14	~~19.0.27~~	has TROLL 19.79 TOTAL DEPTH
MW-02B	1450	0.0	—	21.87	68.35	2.75	73.90 TOTAL DEPTH
MW-03	1521	0.0	—	19.87	20.28 ✓	7.30	DRY
MW-04	1535	0.0	—	14.78	19.56	5.81	19.61 TOTAL DEPTH
MW-08	1614	0.0	—	16.86	19.70	7.45	19.80 TOTAL DEPTH
MW-09	~~1644~~ 1652	948.0	—	19.78	20.21 ✓	0.44	DRY
MW-10	1510	0.0	—	17.33	23.21 ✓	5.70	has BaroTROLL
MW-16	1626	0.0	15.00	15.21	20.58	—	20.45 TOTAL DEPTH
MW-18	1620	0.0	18.02	18.47	20.11	—	PRODUCT
MW-30	1530	0.0	—	~~14.64~~ 14.58	14.51	TOO DRY	14.64 TOTAL DEPTH. DRY.

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** SUNNY, MID 70's

PN: 684910.LD.MR.GW

Project: Quarterly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: M. WARREN, K. SEXTON **Date:** 10/03/17

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
TW-55	1600	0.0	—	14.90	30.78	2.36	41.60 TOTAL DEPTH (DOUBLE CHECKED)
TW-64	1433	0.0	—	20.40	52.88	4.43	
TW-96	1515	0.0	—	16.63	27.60	8.68	
Shallow Bedrock Zone							
MW-01	1046	0.0	—	9.79	15.62	3.50	has BaroTROLL* 15.68 TOTAL DEPTH
MW-01B	1050	0.0	—	10.45	42.21	0.96	42.42 TOTAL DEPTH
MW-11	1100	0.8	30.37	30.93	32.40	—	32.00 TOTAL DEPTH / PRODUCT
MW-22	1037	10.7	—	9.94	10.32	0.67	DRY, NO SAMPLE

BTOC - below top of casing

ft - feet

PN - Project Number

[1]Total depths collected 9/5/17

ppm - parts per million

SM - Site Manager

- wells historically found to have product

* TROLL NOT SUBMERGED?

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	10/06/2017	14:10	14.11	14.12		
RS-08	10/06/2017	14:10	14.64	14.81		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	10/06/2017	14:16	14.85	15.02		
RT-1B	10/06/2017	14:16	14.82	14.95		
RT-1C	10/06/2017	14:16	15.26	15.39		
RT-2A	10/06/2017	14:17		1.34		
RT-2B	10/06/2017	14:17		1.45		
RT-2C	10/06/2017	14:17		1.92		Sheen
RT-2D	10/06/2017	14:17		1.98		Sheen
RT-2E	10/06/2017	14:17		2.08		
RT-2F	10/06/2017	14:18		2.43		
RT-2G	10/06/2017	14:18		1.45		Sheen
RT-2I	10/06/2017	14:18		1.34		
RT-2J	10/06/2017	14:18		0.05		Sheen - filled with water
RT-2K	10/06/2017	14:19	1.79	1.93		No inner casing - 6" casing difficult to remove
RT-2L	10/06/2017	14:20	2.76	2.78		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	10/06/2017	14:11	30.33	30.87		
RW-05	10/06/2017	14:11	33.21	34.89		
RW-06	10/06/2017	14:11	27.26	27.27		
RW-07	10/06/2017	14:12	23.44	24.31		
RW-08	10/06/2017	14:12		16.04		Odor
RW-09	10/06/2017	14:12	13.35	13.67		4" expansion cap replaced
RW-11	10/06/2017	14:13		13.14		Odor
RW-12	10/06/2017	14:13		15.15		
RW-14	10/06/2017	14:14		7.9		Air sparging, measurement inaccurate Tank 1 - DTP: no measurement, DTW: 2.13 Tank 2 - DTP: 4.40, DTW: 4.42

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	10/12/2017	10:17	14.19	14.25		
RS-08	10/12/2017	10:17	14.74	15		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	10/12/2017	10:18	14.95	15.03		
RT-1B	10/12/2017	10:18	14.91	15		
RT-1C	10/12/2017	10:18	15.34	15.43		
RT-2A	10/12/2017	10:18		1.25		
RT-2B	10/12/2017	10:19	1.36	1.37		
RT-2C	10/12/2017	10:19	1.81	1.83		
RT-2D	10/12/2017	10:19	1.98	1.99		
RT-2E	10/12/2017	10:19		2		Sheen
RT-2F	10/12/2017	10:20	2.34	2.35		
RT-2G	10/12/2017	10:20		3.65		
RT-2I	10/12/2017	10:20		3.42		
RT-2J	10/12/2017	10:20		2.2		
RT-2K	10/12/2017	10:21	1.43	1.57		No inner 4" casing, 6" expansion cap needs replacement
RT-2L	10/12/2017	10:21	2.88	2.92		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	10/12/2017	10:22	30.71	30.8		
RW-05	10/12/2017	10:22	33.84	34.43		
RW-06	10/12/2017	10:22	28.03	28.05		
RW-07	10/12/2017	10:23	24.43	25.71		
RW-08	10/12/2017	10:23	18.32	18.33		
RW-09	10/12/2017	10:24	14.78	16.39		
RW-11	10/12/2017	10:24		13.75		Odor
RW-12	10/12/2017	10:24		15.23		Odor
RW-14	10/12/2017	10:24	13.19	13.2		Tank 1: DTP no measurement, DTW 2.09 Tank 2: DTP 3.18, DTW 3.25

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	10/20/2017	10:21	14.26	14.32		
RS-08	10/20/2017	10:21	14.93	15.2		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	10/20/2017	10:21	15.08	15.18		
RT-1B	10/20/2017	10:22	15.04	15.14		
RT-1C	10/20/2017	10:22	15.47	15.58		
RT-2A	10/20/2017	10:22		1.43		
RT-2B	10/20/2017	10:22		1.55		
RT-2C	10/20/2017	10:22		2		
RT-2D	10/20/2017	10:23		2.06		
RT-2E	10/20/2017	10:23		2.16		
RT-2F	10/20/2017	10:23		2.51		
RT-2G	10/20/2017	10:23		1.74		
RT-2I	10/20/2017	10:23		3.46		
RT-2J	10/20/2017	10:24		1.58		Odor
RT-2K	10/20/2017	10:24	1.79	1.92		No inner casing, 6" expansion cap needs replacement
RT-2L	10/20/2017	10:24	2.9	2.96		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	10/20/2017	10:25	30.7	31.05		
RW-05	10/20/2017	10:25	33.84	34.74		
RW-06	10/20/2017	10:26	27.79	27.81		
RW-07	10/20/2017	10:26	24.04	24.91		
RW-08	10/20/2017	10:26		17.16		Odor
RW-09	10/20/2017	10:26	14.04	14.29		
RW-11	10/20/2017	10:27		13.91		Odor
RW-12	10/20/2017	10:27		15.47		Odor
						Odor
RW-14	10/20/2017	10:27			9.17	Tank 1: DTP no measurement, DTW full Tank 2: DTP 2.13, DTW 2.23

MW Wells	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	MW Well Comment
MW-01	10/21/2017	17:08		10.6		
MW-01B	10/21/2017	17:08		11.07		
MW-02	10/21/2017	17:09		6.48		
MW-02B	10/21/2017	17:09		27.5		
MW-03	10/21/2017	17:09		9		Bubbling
MW-04	10/21/2017	17:10		12.45		
MW-05	10/21/2017	17:10		17.55		
MW-06	10/21/2017	17:11		16.4		
MW-07	10/21/2017	17:11		13.2		
MW-08	10/21/2017	17:12		14.35		
MW-09	10/21/2017	17:12		6.82		
MW-10	10/21/2017	17:12		15.6		
MW-11	10/21/2017	17:13	30.87	31.2		
MW-12	10/21/2017	17:13		15.06		
MW-12B	10/21/2017	17:14		15.44		
MW-13	10/21/2017	17:14		21.84		
MW-13B	10/21/2017	17:14		23.63		
MW-14	10/21/2017	17:15		18.62		
MW-14B	10/21/2017	17:15		19.35		
MW-15	10/21/2017	17:15	14.16	14.17		
MW-15B	10/21/2017	17:16		16.63		
MW-16	10/21/2017	17:16		11.1		Bubbling
MW-17	10/21/2017	17:17		10.83		
MW-17B	10/21/2017	17:17		17.6		
MW-18	10/21/2017	17:18	15.04	15.1		
MW-19	10/21/2017	17:18		11.76		
MW-20	10/21/2017	17:18	13.6	14.07		
MW-21	10/21/2017	17:19		17.95		
MW-22	10/21/2017	17:19				Dry
MW-23	10/21/2017	17:19		11.83		
MW-23B	10/21/2017	17:20		11.45		
MW-24	10/21/2017	17:20		4.75		
MW-24B	10/21/2017	17:20		5.85		
MW-25	10/21/2017	17:21		8.8		
MW-25B	10/21/2017	17:21		5.75		
MW-26	10/21/2017	17:21		8.01		
MW-26B	10/21/2017	17:22		9.71		
MW-27	10/21/2017	17:22		27.95		
MW-27B	10/21/2017	17:23		30.63		
MW-28	10/21/2017	17:23		23.99		
MW-29	10/21/2017	17:23		11.23		
MW-30	10/21/2017	17:24		14.55		
MW-31	10/21/2017	17:24		21.73		
MW-31B	10/21/2017	17:25		22.21		
MW-32	10/21/2017	17:25		14.27		

MW Wells	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	MW Well Comment
MW-33	10/21/2017	17:25		26.8		
MW-33T	10/21/2017	17:26		27.89		
MW-34	10/21/2017	17:26		2.62		
MW-35	10/21/2017	17:26		9.98		
MW-36	10/21/2017	17:27		20.55		
MW-36B	10/21/2017	17:27		20.25		
MW-37	10/21/2017	17:27		3.64		
MW-38	10/21/2017	17:28		2.19		
MW-39	10/21/2017	17:28		5.46		
MW-40	10/21/2017	17:28		2.87		
MW-41	10/21/2017	17:29		4.55		
MW-42	10/21/2017	17:29	5.22			
MW-44	10/21/2017	17:30		9.32		
MW-44B	10/21/2017	17:30		14.7		
MW-45	10/21/2017	17:31		14.21		
MW-45B	10/21/2017	17:31		16.09		

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	10/21/2017	16:56	14.4	14.72		
RS-02	10/21/2017	16:57	14.25	14.32		
RS-04	10/21/2017	16:57		9.7		
RS-05	10/21/2017	16:58	12.75	13.35		
RS-06	10/21/2017	16:58	13.51	13.54		
RS-07	10/21/2017	16:59	14.31	14.37		
RS-08	10/21/2017	17:00	14.97	15.24		
RS-09	10/21/2017	17:00		12.51		
RS-10	10/21/2017	17:00	11.2	11.22		
RS-11	10/21/2017	17:01		10.73		
RS-12	10/21/2017	17:01		11.2		
RS-13	10/21/2017	17:01		11.55		
RS-14	10/21/2017	17:02	11.35	11.38		
RS-15	10/21/2017	17:02		10.65		
RS-16	10/21/2017	17:02		10		
RS-17	10/21/2017	17:03		9.59		
RS-18	10/21/2017	17:03		13.05		
RS-20	10/21/2017	17:03		9.39		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	10/21/2017	17:05		16.3		
RW-02	10/21/2017	17:05	24.32	24.66		
RW-03	10/21/2017	17:06	24.51	24.53		
RW-10	10/21/2017	17:06		13.56		
RW-13	10/21/2017	17:06				Too much pressure, can't remove cap
RW-15	10/21/2017	17:07	15.88	16.6		

SW Wells	Date	Time	DTW	SW Well Comment
SW-01	10/21/2017	17:48	0.81	
SW-02	10/21/2017	17:48	1.47	
SW-03	10/21/2017	17:48	1.68	
SW-08	10/21/2017	17:48	1.01	
SW-10	10/21/2017	17:49	0.27	

TW Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	TW Well Comment
TW-04R	10/21/2017	17:33				Dry
TW-05R	10/21/2017	17:34		8.44		
TW-14R	10/21/2017	17:34				Dry
TW-15R	10/21/2017	17:34				Dry
TW-28	10/21/2017	17:35	23.6	24.5		
TW-30	10/21/2017	17:37		22.92		
TW-34	10/21/2017	17:37		22.21		
TW-35	10/21/2017	17:38		22.72		
TW-40	10/21/2017	17:38		29.17		
TW-41	10/21/2017	17:38		28.53		
TW-42	10/21/2017	17:39	26.75	27.5		
TW-45	10/21/2017	17:39	28.38	28.98		
TW-55	10/21/2017	17:40		8.35		
TW-59	10/21/2017	17:40		14.3		Bubbling
TW-60	10/21/2017	17:41		10.37		
TW-64	10/21/2017	17:41		18.94		
TW-65	10/21/2017	17:41				
TW-65	10/21/2017	17:41		22.97		
TW-66	10/21/2017	17:42		2.68		
TW-67	10/21/2017	17:42		9		Bubbling
TW-68	10/21/2017	17:43		24.47		
TW-69	10/21/2017	17:43		16.2		
TW-70	10/21/2017	17:43		20.22		
TW-73	10/21/2017	17:44		9.85		
TW-76	10/21/2017	17:44		15.75		
TW-81	10/21/2017	17:44		6.22		
TW-82	10/21/2017	17:45		6.74		
TW-83	10/21/2017	17:45				Grassed over
TW-84	10/21/2017	17:45		7.9		
TW-85	10/21/2017	17:46		13.4		
TW-86	10/21/2017	17:46		5.57		
TW-87	10/21/2017	17:46		6.82		
TW-90	10/21/2017	17:46		14.66		
TW-94	10/21/2017	17:47		2		Bubbling
TW-96	10/21/2017	17:47		11.98		

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	10/26/2017	10:28	14.03	14.04		
RS-08	10/26/2017	10:29	14.8	15		Pressure

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	10/26/2017	10:29	14.95	15.02		
RT-1B	10/26/2017	10:30	14.91	14.98		
RT-1C	10/26/2017	10:30	15.58	15.65		
RT-2A	10/26/2017	10:30		1.01		
RT-2B	10/26/2017	10:30		1.14		
RT-2C	10/26/2017	10:31		1.62		Sheen
RT-2D	10/26/2017	10:31		1.68		Sheen
RT-2E	10/26/2017	10:31		1.8		
RT-2F	10/26/2017	10:31		2.15		
RT-2G	10/26/2017	10:31		3.43		
RT-2I	10/26/2017	10:32		3.33		
RT-2J	10/26/2017	10:32		2.04		
RT-2K	10/26/2017	10:32				Could not measure. Silt fence material in well. 6" expansion cap needs replacement. No inner 4" casing.
RT-2L	10/26/2017	10:33		2.58		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	10/26/2017	10:34	30.58	30.67		
RW-05	10/26/2017	10:34	33.67	33.88		
RW-06	10/26/2017	10:34		27.76		Odor. Lock needs replacement.
RW-07	10/26/2017	10:35	24.47	24.98		
RW-08	10/26/2017	10:35		18.38		Odor
RW-09	10/26/2017	10:35	14.82	14.92		
RW-11	10/26/2017	10:35		13.82		Odor. Pressure.
RW-12	10/26/2017	10:36		15.46		
RW-14	10/26/2017	10:36		13.16		Strong odor upon arrival at facility. Tank 1: DTP no measurement, DTW full Tank 2: DTP 1.20, DTW 1.21 almost full

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	11/03/2017	12:17		13.82		Odor
RS-08	11/03/2017	12:17	14.57	14.71		Expansion cap needs replacement and casing damaged - struck by vehicle

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	11/03/2017	12:19	14.67	14.77		
RT-1B	11/03/2017	12:19	14.62	14.71		
RT-1C	11/03/2017	12:20	15.22	15.31		
RT-2A	11/03/2017	12:20		0.97		
RT-2B	11/03/2017	12:20		1.11		
RT-2C	11/03/2017	12:20		1.59		
RT-2D	11/03/2017	12:21		1.66		Sheen
RT-2E	11/03/2017	12:21		1.76		
RT-2F	11/03/2017	12:21		2.1		
RT-2G	11/03/2017	12:21		0.25		Water above ground level within well, lock needs replacement
RT-2I	11/03/2017	12:22		1.56		
RT-2J	11/03/2017	12:22				Water above top of casing
RT-2K	11/03/2017	12:22				Silt fence material within well, could not measure
RT-2L	11/03/2017	12:23		2.27		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	11/03/2017	12:24	30.17	30.56		Lock needs replacement
RW-05	11/03/2017	12:24	33.47	34.04		
RW-06	11/03/2017	12:24		27.22		Odor, lock needs replacement
RW-07	11/03/2017	12:25	23.39	23.52		
RW-08	11/03/2017	12:26		16.13		
RW-09	11/03/2017	12:26		13.28		Expansion cap not tightened
RW-11	11/03/2017	12:26		14.35		Odor, needs pressure relief
RW-12	11/03/2017	12:27		14.17		Odor
RW-14	11/03/2017	12:27		5.1		Air sparging Tank 1 - DTP no measurement, DTW 4.89 Tank 2 - DTP no measurement, DTW 4.98

Table 2 - DO Measurement List

SM: Tom Wiley Client: Plantation Pipe Line Weather: FOG, MID 60'S

PN: 684910.LD.MR.GW

Project: Monthly Monitoring Measuring Method: YSI proODO, Oil/Water Interface Probe

Technicians: M. WARREN, K. SEXTON Date: 11/7/17

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
Brown's Creek Protection Zone							
MW-12	1515	715,000	—	14.00	21.70	~~0.86~~ 6.39 (EW)	has TROLL 21.72 = DTB
MW-12B	1510	0.3	—	14.25	45.55	1.86	DTB = 46.4
MW-15 (TIME 1349)	~~HS.7~~	118.7	—	13.32	21.40	7.84	has TROLL DTB = 21.20
MW-15B	1354	42.2	—	16.08	86.00	7.70	~~DTB 72.90~~ (EW) DTB = 82.00
MW-25	1430	0.3	—	8.35	18.04	1.70	has TROLL 17.95 = DTB
MW-25B	1432	0.0	—	5.47	61.90	0.78	DTB = 59.2
MW-28	1450	>15,000	—	23.78	26.05	0.52	DTB = ~~29~~ (EW) 25.90 (LOW FLOW/BAIL)
MW-34	1400	11.5	—	2.48	7.82 ✓	--	
MW-35	1440	0.7	—	8.94	28.50	--	DTB = 28.40
MW-38	1336	0.0	—	1.88	11.46	--	DTB = 11.55
MW-39	1404	17.7	—	4.89	13.03	--	DTB = 13.07
MW-40	1408	>15,000	—	2.11	13.15	--	has TROLL DTB = 13.20
MW-41	1418	1.6	—	4.39	13.19 ✓	--	
MW-42	1426	0.7	—	5.10	13.37	--	DTB = 13.40
MW-43	1324	0.0	~~4.45~~ (EW)	4.45	10.33	--	~~not installed yet~~ INSTALLED
SW-01	1330	--	--	--	--	8.70	0.90 = Surface depth, older string
SW-03	1442	--	--	--	--	~~3.60~~	1.80 = DO SURFACE = 7.6
SW-12	~~DRY~~ 1415	--	--	--	--	4.05	~~DRY~~
SW-13	1340	--	--	--	--	3.60	SURFACE = 0.90
TW-59	1504	4.5	—	20.00*	21.11	9.70	DTB = 21.20
TW-60	~~DRY~~ 1520	46.5		10.20	39.24	7.43	
TW-66	1421	5.1	—	2.15	23.87	5.67	DTB = 23.93
Cupboard Creek Protection Zone							
MW-19	0907	>15,000	—	11.80	12.15 ✓	6.30	PRESSURE (DRY)
MW-20 (PRODUCT)	0917	>15,000	13.12	13.61	19.40 ✓	—	has TROLL (MICROBIAL FILM AROUND INTAKE)
MW-23	0935	1.4	—	11.10	23.21 ✓	--	
MW-26	0930	1.5	—	6.56	17.12 ✓	--	

9.6 • 2.12 • 5.34 • 19.46 • 9.67 • 8.18 • 11.09 • 8.8 • 5.38 • 12.11 • 10.56 •

7.72
32.15

* TW-59: DTW IS AN AVERAGE DTW DUE TO FLUCTUATING WATER LEVEL FROM SPARGE SYSTEM

NOTE: TW-67 WAS BAILED AT 1624 FOR THE PRESENCE OF PRODUCT, NO PRODUCT OBSERVED. MEASURED DO.

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:**

PN: 684910.LD.MR.GW

Project: Monthly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: **Date:** 11/17/17 Date added by RWB

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
MW-2	0856	0.0	~~10.06~~	10.06	15.02	6.72	14.90 DTB
TW-67	0901	~~0.0~~ 47.0 @	~~13.96~~	13.91	26.37	9.60	PRESSURE PID = 47.0 DTB=26.53
TW-73	0905	0.0	—	8.55	12.58	9.00	12.45 DTB
Hayfield Zone							
MW-02	1054	715,000	—	4.20	19.79 ✓	8.22	has TROLL
MW-02B	1056	0.0	—	13.41	80.00	8.45	DTB=82.5 (DOUBLE CHECKED DEPTH)
MW-03	1111	0.0	—	1.5*	20.28	9.61	BUBBLING OUT TOP, MISSING SCREW/WASHER
MW-04	1130	0.0	—	11.03	19.61	7.55	DTB = 19.47 / ANT MOUND BY WELL
MW-05	1134	0.0	—	17.18	19.78	–	DTB = 19.8
~~MW-07~~	~~1149~~	~~715,000~~	—	~~15.29~~	~~13.57~~	–	~~DTB =~~
MW-08	1214	1.5	—	10.38	19.80	8.30	DTB = 19.50
MW-09	1041	63.4	—	5.56	20.21	6.55	19.95 DTB
MW-10	1048	0.0	—	12.64	23.21	7.74	has BaroTROLL DTB 23.25
MW-13B	1018	5.5	—	23.08	55.44	–	DTB = 55.20
MW-16	1201	715000	—	11.00	20.45	~~20.30~~+	CAP NOT ON/TUBE IN PIPE? DTB=20.3
MW-18	1208	715,000	12.35	12.37	20.11 ✓	—	PRODUCT / FILM IN VAULT
MW-30	1121	33.7	—	14.60	14.64	8.45	14.70 DTB (DRY)
MW-31	1026	0.0	—	20.81	28.03 ✓	–	
MW-45	0938	32.2	—	14.24	14.41	–	14.46 DTB (DRY)
TW-55	1140	71.7	—	8.12	41.60 ✓	8.84	
TW-64	1032	0.0	—	18.20	52.80	4.42	
TW-96	1105	0.0	—	8.58	27.65	9.17	
Shallow Bedrock Zone							
MW-01	0958	0.0	—	6.63	15.68	7.33	has BaroTROLL 15.60 DTB
MW-01B	1000	0.0	—	9.55	42.42	0.86	DTB = 42.35
MW-11	1009	90.4	30.26	30.52	32.00	—	PRODUCT DTB 32.95
MW-22	0947	165.1	—	9.96	10.32	4.74	DTB = 10.36 (DRY)
~~MW-07~~	1152	224.0	—	13.20	13.60	--	ANT HILL BY WELL

MW-03 * DEPTH TO WATER IS AN ESTIMATE VISUALLY AND METERED DUE TO FLUCTUATIONS FROM AIR BUBBLING (SEE VIDEO) DTB = 20.00,

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	11/10/2017	12:07		13.76		Odor
RS-08	11/10/2017	12:08	14.63	14.79		Pressure, expansion cap and casing damaged

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	11/10/2017	12:08	14.73	14.82		
RT-1B	11/10/2017	12:09	14.69	14.78		
RT-1C	11/10/2017	12:09	15.29	15.38		
RT-2A	11/10/2017	12:09		0.75		
RT-2B	11/10/2017	12:09		0.95		
RT-2C	11/10/2017	12:10		1.46		
RT-2D	11/10/2017	12:10		1.52		Sheen
RT-2E	11/10/2017	12:10		1.63		
RT-2F	11/10/2017	12:10		1.97		
RT-2G	11/10/2017	12:11		0.25		Water in casing, water level above ground surface within well, lock needs replacement
RT-2I	11/10/2017	12:12		0.25		
RT-2J	11/10/2017	12:12				Casing filled with water
RT-2K	11/10/2017	12:13				Silt fence material in well, no measurement
RT-2L	11/10/2017	12:14		2.31		Odor

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	11/10/2017	12:15	29.9	30.17		Lock needs replacement
RW-05	11/10/2017	12:16	33.31	34.13		
RW-06	11/10/2017	12:16		27.21		Lock needs replacement
RW-07	11/10/2017	12:16	23.32	23.35		
RW-08	11/10/2017	12:17		16.07		
RW-09	11/10/2017	12:17		13.4		
RW-11	11/10/2017	12:17		14.15		Odor, pressure
RW-12	11/10/2017	12:17		15.74		Odor, pressure
RW-14	11/10/2017	12:18		7		Depth inaccurate, air sparging Tank 1: DTP no measurement, DTW 4.28 Tank 2: no measurement, sludge in bottom, empty

Brown, Ryan/ATL

From: Thomas Wesley Barnes III <TWBarnes@ecslimited.com>
Sent: Monday, November 13, 2017 8:20 AM
To: James C. Bevers, P.E.; Brown, Ryan/ATL
Subject: RE: Gauging Lewis Dr. [EXTERNAL]

MW-47 dtw-17.85, td-22.79

THOMAS WESLEY BARNES III
ECS SOUTHEAST, LLP **T** 864.987.1610 | **D** 864.326.4786 | **C** 864.380.6899
http://secure-web.cisco.com/1hk9YTP8vlQy8JxxWLZGpT25utM2ZKUVspyxB8vRYTc4xjPKXawrqBBqK3icj3pEqEDDjfPFkfJaGwKYJD8xt_S0QKaAJr9ynGd9aL1iyjPCY5jOzh49meLdBp-NgBoy5v9Y8Ykg3EE-P0pEXRIWgPFnH_UcFLSFo58vVtUlauUiNPJAIBH1NKRcqtfu_knifjhRrZRDrKrdtdwyTvyJ6ez7f0UNUUFBVEaQsBR9rl72nyomFWtKGPy1wiOEfXUHTtv_JwXRXWam5XaiYsMVv-m1fLL9SfTj0Qv3zq-ms2n0Y_fUoz-NgLLrH8rGGsyV2lFb9LwxLDaXR9dgP28nOts7X4jT0HbXvrTDJGU0jtK1sqksfGtHZTX7Sm0UgQDA3ptgk3xkLU-YNd15R9nRPQAaqJFrxvo-WL7kgRs7vrxlYKK1l_9HqUF3-0FgqNoX87fncaLdOTyObn-0gkCqDliJeK3JWkUGZUZXe4ZvcHIE/http%3A%2F%2Fwww.ecslimited.com

---

From: James C. Bevers, P.E.
Sent: Monday, November 13, 2017 7:38 AM
To: Brown, Ryan/ATL
Cc: Thomas Wesley Barnes III
Subject: RE: Gauging Lewis Dr.

Ryan,

While I was out at the site on Friday, I obtained the requested measurements. They are as follows:

MW-02B DTW-7.03, TD 81.55 (Well card says 81, no lock present, vault lid bolted down properly)
MW-06B DTW 15.59, TD 85.65
MW-09B DTW 40.58, TD 155 (Total depth is approximate, actual depth difficult to obtain)
MW-43 DTW 4.31, TD 10.30
MW-43B DTW 18.33, TD 54.40
MW-46 DTW 9.57, TD 17.05
MW-47 Could not locate
MW-48B DTW 18.74, TD 94.50 (Silt at bottom of well)
MW-49 DTW 20.47, TD 23.30
MW-50B DTW 21.42, TD 109.60

I could not locate MW-47. There was a cleared area and it looked like there had been activity in the area where the well should have been. If present, the well is potentially buried. Please let me know if you have any questions.

Sincerely,

JAMES C. BEVERS, P.E.
ECS SOUTHEAST, LLP **T** 828.665.2307 | **D** 828.785.4179 | **C** 828.575.7183

From: Brown, Ryan/ATL [mailto:Ryan.Brown2@CH2M.com]
Sent: Tuesday, November 07, 2017 11:25 AM
To: Britney Camper Barnes; Thomas Wesley Barnes III; James C. Bevers, P.E.
Subject: Gauging Lewis Dr.

The next time you are out at Lewis Dr. could you possibly do me a favor? Could you get total depths on MW-02B, MW-06B, MW-09B, MW-43, MW-43B, MW-46, MW-47, MW-48B, MW-49, and MW-50B? These should be all the new wells that were installed over the past two months and for some reason whomever installed them did not get the TD. You do not need to supply this information in the tablet. You can scratch on a piece of paper and send me a pic of sheet of paper or you could respond to this email. Thanks!

Ryan W. Brown
Environmental Engineer
D 1 678 530 4055
M 1 404 434 0880
F 1 770 604 9183

CH2M
6600 Peachtree Dunwoody Rd.
400 Embassy Row, Suite 600
Atlanta, GA 30328
www.ch2m.com | LinkedIn | Twitter | Facebook
Email - rbrown9@ch2m.com

Core work hours: M - F from 8:00AM - 4:00PM EST
Upcoming Fieldwork (out of office): None
Upcoming PTO: November 22
Upcoming Holiday: November 23 and 24, December 25, and January 1
Upcoming Training: None
Upcoming WFH: November 7 and 27

MW Wells	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	MW Well Comment
MW-01	11/12/2017	16:53		7.75		
MW-01B	11/12/2017	16:54		9.47		
MW-02	11/12/2017	16:54		3.47		
MW-02B	11/12/2017	16:55		23.45	81.5	
MW-03	11/12/2017	16:55				Bubbling out top
MW-04	11/12/2017	16:56		10.68		
MW-05	11/12/2017	16:56		16.95		
MW-06	11/12/2017	16:57		15.9		
MW-06B	11/12/2017	16:57		15.57	85.6	
MW-07	11/12/2017	16:57		13.2		
MW-08	11/12/2017	16:58		10.25		
MW-09	11/12/2017	16:58		4.57		
MW-09B	11/12/2017	16:58		32.08	151.4	
MW-10	11/12/2017	16:59		11.95		
MW-11	11/12/2017	16:59	30	30.35		
MW-12	11/12/2017	17:00		14.45		
MW-12B	11/12/2017	17:00		14.91		
MW-13	11/12/2017	17:00		21.85		
MW-13B	11/12/2017	17:01		22.83		
MW-14	11/12/2017	17:01		17.8		
MW-14B	11/12/2017	17:01		19.36		
MW-15	11/12/2017	17:01		14.75		
MW-15B	11/12/2017	17:02		15.91		
MW-16	11/12/2017	17:02		10		Bubbling
MW-17	11/12/2017	17:03		10.85		
MW-17B	11/12/2017	17:03		17.2		
MW-18	11/12/2017	17:03		12		Bubbling
MW-19	11/12/2017	17:05		11.74		
MW-20	11/12/2017	17:06	13.15	13.4		
MW-21	11/12/2017	17:06		17.43		
MW-22	11/12/2017	17:06				Dry, no measurement
MW-23	11/12/2017	17:07		11.02		
MW-23B	11/12/2017	17:07		11.42		
MW-24	11/17/2017	17:08		4.52		
MW-24B	11/17/2017	17:08		5.56		
MW-25	11/12/2017	17:08		8.47		
MW-25B	11/12/2017	17:09		5.26		
MW-26	11/12/2017	17:09		6.65		
MW-26B	11/12/2017	17:10		8.95		
MW-27	11/12/2017	17:10		27.66		
MW-27B	11/12/2017	17:10		30.72		
MW-28	11/12/2017	17:11		24.74		
MW-29	11/12/2017	17:11			10.09	
MW-30	11/12/2017	17:11		14.52		

MW Wells	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	MW Well Comment
MW-31	11/12/2017	17:12		20.41		
MW-31B	11/12/2017	17:12		21.05		
MW-32	11/12/2017	17:12		10.45		
MW-33	11/12/2017	17:12		26.15		
MW-33T	11/12/2017	17:13		27.47		
MW-35	11/12/2017	17:13		7.61		
MW-36	11/17/2017	17:14		20.21		
MW-36B	11/17/2017	17:14		19.92		
MW-37	11/17/2017	17:14		3.42		
MW-38	11/17/2017	17:15		1.87		
MW-39	11/12/2017	17:15		6.25		
MW-40	11/12/2017	17:16		3.53		
MW-41	11/12/2017	17:16		4.5		
MW-42	11/12/2017	17:16		5.1		
MW-43	11/10/2017	17:16		4.31		
MW-43B	11/10/2017	17:17		18.33		
MW-46	11/12/2017	17:17		9.53	17	
MW-47	11/17/2017	17:18		17.85	22.79	
MW-48B	11/12/2017	17:18		8.51	94.5	
MW-49	11/12/2017	17:19		20.47	23.29	
MW-50B	11/12/2017	17:19		21.66	109.5	

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	11/12/2017	16:43	11.77	12.2		
RS-02	11/12/2017	16:44	11.27	11.37		
RS-04	11/12/2017	16:44		9.7		
RS-05	11/12/2017	16:44	11.2	11.8		
RS-06	11/12/2017	16:45		12.2		
RS-07	11/12/2017	16:45		13.87		
RS-08	11/12/2017	16:46	14.42	14.55		
RS-09	11/12/2017	16:46		10.29		
RS-10	11/12/2017	16:46		9.65		
RS-11	11/12/2017	16:46		9.76		
RS-12	11/12/2017	16:47		10		Bubbling
RS-13	11/12/2017	16:47		6.45		
RS-14	11/12/2017	16:47	7.31	7.33		
RS-15	11/12/2017	16:48		8.05		
RS-16	11/12/2017	16:48		6.35		
RS-17	11/12/2017	16:50	5.99	6		
RS-18	11/12/2017	16:50		10.69		
RS-20	11/12/2017	16:50		5.82		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	11/12/2017	16:51		13.41		
RW-02	11/12/2017	16:51	22.8	23.15		
RW-03	11/12/2017	16:51	23.46	23.47		
RW-10	11/12/2017	16:52	13	13.05		
RW-13	11/12/2017	16:52				Too much pressure
RW-15	11/12/2017	16:52	14.9	15.3		

SW Wells	Date	Time	DTW	SW Well Comment
SW-01	11/17/2017	17:31	0.93	
SW-02	11/17/2017	17:31	1.61	
SW-03	11/12/2017	17:32	1.73	
SW-08	11/17/2017	17:32	1.15	
SW-10	11/17/2017	17:32	0.64	

TW Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	TW Well Comment
TW-04R	11/12/2017	17:20		4.71		
TW-05R	11/12/2017	17:20		5.76		
TW-14R	11/12/2017	17:21				Dry, no measurement
TW-15R	11/12/2017	17:21		5.7		
TW-21	11/12/2017	17:21		4.25		
TW-28	11/12/2017	17:22	22.97	23.1		
TW-30	11/12/2017	17:22		21.9		
TW-34	11/12/2017	17:22		22.25		
TW-35	11/12/2017	17:22		22.74		
TW-40	11/12/2017	17:23		29.08		
TW-41	11/12/2017	17:23		27.81		
TW-42	11/12/2017	17:23	26.15	26.97		
TW-45	11/12/2017	17:24	27.73	28.1		
TW-55	11/12/2017	17:24		7.51		
TW-59	11/12/2017	17:24		20.41		
TW-60	11/12/2017	17:25		11.65		
TW-64	11/12/2017	17:25		18.05		
TW-65	11/12/2017	17:25		22.25		
TW-66	11/12/2017	17:26		2.65		
TW-67	11/12/2017	17:26		9.2		Bubbling
TW-68	11/12/2017	17:26		23.85		
TW-69	11/12/2017	17:27		14.95		
TW-70	11/12/2017	17:27		19.58		
TW-73	11/12/2017	17:27		9		Bubbling
TW-76	11/12/2017	17:28		15.1		
TW-81	11/12/2017	17:28		4.05		
TW-82	11/12/2017	17:28		4.05		
TW-83	11/12/2017	17:28		4.8		
TW-84	11/12/2017	17:29		5.25		
TW-85	11/12/2017	17:29		10.1		Bubbling
TW-86	11/12/2017	17:29		5.61		
TW-87	11/12/2017	17:30		6.21		
TW-90	11/12/2017	17:30		11		Bubbling
TW-94	11/12/2017	17:30				Bubbling out top
TW-96	11/12/2017	17:31		6.8		Bubbling

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	11/17/2017	17:34		14.81		Odor
RS-08	11/17/2017	17:35	14.61	14.89		Pressure, expansion cap & casing damaged

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	11/17/2017	17:36	14.63	14.68		
RT-1B	11/17/2017	17:36	14.6	14.65		
RT-1C	11/17/2017	17:36	15.19	15.24		
RT-2A	11/17/2017	17:36		1.04		
RT-2B	11/17/2017	17:37		1.21		
RT-2C	11/17/2017	17:37		1.65		
RT-2D	11/17/2017	17:37		1.72		Sheen
RT-2E	11/17/2017	17:37		1.83		
RT-2F	11/17/2017	17:37		2.18		
RT-2G	11/17/2017	17:38		4.11		Lock needs replacement
RT-2I	11/17/2017	17:38		2.3		
RT-2J	11/17/2017	17:38		0.8		
RT-2K	11/17/2017	17:38				Silt fence material in well
RT-2L	11/17/2017	17:39		2.33		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	11/17/2017	17:39	29.67	29.9		Lock needs replacement
RW-05	11/17/2017	17:40	33	33.99		
RW-06	11/17/2017	17:40		26.51		Lock needs replacement, odor
RW-07	11/17/2017	17:40	22.87	22.9		
RW-08	11/17/2017	17:41		15.7		Odor
RW-09	11/17/2017	17:41		13.78		Odor
RW-11	11/17/2017	17:41		14.02		Odor, pressure
RW-12	11/17/2017	17:42		15.87		Odor, pressure, expansion cap needs replacement
RW-14	11/17/2017	17:42		14.26		Tank 1 - DTP no measurement, DTW 3.47 Tank 2 - no measurement

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	11/22/2017	10:17		13.83		
RS-08	11/22/2017	10:18	14.75	14.9		Pressure, damaged expansion cap and casing

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	11/22/2017	10:18	14.65	14.71		
RT-1B	11/22/2017	10:18	14.61	14.67		
RT-1C	11/22/2017	10:19	15.2	15.26		
RT-2A	11/22/2017	10:20		1.12		
RT-2B	11/22/2017	10:20		1.22		
RT-2C	11/22/2017	10:20		1.71		Sheen
RT-2D	11/22/2017	10:20		1.78		Sheen
RT-2E	11/22/2017	10:21		1.89		Sheen
RT-2F	11/22/2017	10:21		2.25		
RT-2G	11/22/2017	10:21		4.27		Lock needs replacement
RT-2I	11/22/2017	10:21		2.58		
RT-2J	11/22/2017	10:21		0.99		Odor
RT-2K	11/22/2017	10:22				Silt fence material in well
RT-2L	11/22/2017	10:22		2.39		Odor

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	11/22/2017	10:24	29.59	29.86		Lock needs replacement
RW-05	11/22/2017	10:24	32.88	34.03		
RW-06	11/22/2017	10:25		26.43		Lock needs replacement
RW-07	11/22/2017	10:25	22.7	22.73		
RW-08	11/22/2017	10:25		15.45		Odor
RW-09	11/22/2017	10:25		13.64		Odor
RW-11	11/22/2017	10:26		14.54		Odor, pressure
RW-12	11/22/2017	10:27		15.91		Odor
RW-14	11/22/2017	10:27		14.24		Tank 1 - DTP No measurement, DTW 3.47 Tank 2 - No measurement

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	12/01/2017	10:10		14.05		
RS-08	12/01/2017	10:11	14.83	14.95		Expansion cap and casing damaged, pressure

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	12/01/2017	10:12	14.74	14.84		
RT-1B	12/01/2017	10:12	14.71	14.79		
RT-1C	12/01/2017	10:12	15.3	15.37		
RT-2A	12/01/2017	10:12		1.18		
RT-2B	12/01/2017	10:12		1.77		
RT-2C	12/01/2017	10:13		1.83		Sheen
RT-2D	12/01/2017	10:13		1.93		
RT-2E	12/01/2017	10:13		2.28		
RT-2F	12/01/2017	10:13		2.43		
RT-2G	12/01/2017	10:14		0.39		Water level above ground surface, lock needs replacement
RT-2I	12/01/2017	10:15		3.12		Lock impacted with dirt, expansion cap not tightened
RT-2J	12/01/2017	10:16		0.65		
RT-2K	12/01/2017	10:16				Silt fence material in well, no measurement
RT-2L	12/01/2017	10:16		2.6		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	12/01/2017	10:17	29.49	29.67		
RW-05	12/01/2017	10:17	33.32	33.69		
RW-06	12/01/2017	10:17		27.18		Odor, lock needs replacement
RW-07	12/01/2017	10:18	23.46	23.47		
RW-08	12/01/2017	10:18		16.29		Odor
RW-09	12/01/2017	10:18		13.57		
RW-11	12/01/2017	10:18		14.83		Odor, pressure
RW-12	12/01/2017	10:19		15.99		Odor, expansion cap needs replacement
RW-14	12/01/2017	10:19		6.91		Bubbling Tank 1: DTW 1.20 Tank 2: DTW 3.77

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** MID 50's, SUNNY

PN: 684910.LD.MR.GW

Project: Quarterly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: M. WARREN, K. SEXTON, Z. WAND **Date:** 12/4/17

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
Brown's Creek Protection Zone							
MW-12	1121	11.0	—	15.55	22.05	0.7	has TROLL DTB = 21.81
MW-12B	1122	1.6	—	16.12	45.31	2.58	DTB = 45.35
MW-15	0948	1.0	—	13.66	21.40	5.40	has TROLL DTB 21.17
MW-15B	0939	0.0	—	16.25	75.63	0.87	DTB = 80.50
MW-24	1003	0.0	—	4.51	15.29	--	15.36 = DTB
MW-24B	0959	0.1	—	5.69	42.23	--	42.71
MW-25	1053	0.1	—	7.10	18.04	0.76	has TROLL DTB = 17.95
MW-25B	1051	0.1	—	5.30	56.43	0.60	62.61
MW-28	0827	311.2	—	23.94	25.91	0.60	DTB = 26.18
MW-34	1024	0.7	—	2.52	7.82	--	DTB = 7.85
MW-35	1110	0.1	—	10.41	28.50	--	DTB = 28.45
MW-37	0952	0.0	—	3.47	18.11	--	
MW-38	0955	0.0	—	2.01	11.46	--	DTB = 11.52
MW-39	1027	0.6	—	5.72	13.03	--	DTB = 13.09
MW-40	1030	131.9	—	3.43	13.15	--	has TROLL DTB = 13.21
MW-41	1046	0.1	—	5.55	13.19	--	
MW-42	1049	0.1	—	5.26	13.37	--	DTB = 13.40
MW-43	1009	0.1	—	4.50	10.30	--	DTB = 10.35 / CHANGED LOCK
MW-43B	1012	0.4	—	4.08	54.40	--	DTB = 54.45 / CHANGED LOCK
MW-49	~~1049~~ 1115	0.1	—	20.29	23.30	--	DTB = 23.35 / CHANGED LOCK
SW-01	0830	--	--	--	--	4.35	WL = 0.8
SW-03	0835	--	--	--	--	3.98	WL = 1.78
SW-12	0840	--	--	--	--	8.24	
SW-13	0845	--	--	--	--	5.02	
TW-59	1119	0.1	—	15.81	22.00	~~21.0~~ 9.7	may be affected by sparging DTB = 21.0
TW-60	1043	11.5	—	10.27	40.50	9.19	DTB = 40.79
TW-66	1054	0.1	—	3.32	29.70	6.30	DTB = 23.85 (DOUBLE CHECKED DEPTH) [PLACARD READS TW-56]

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:**

PN: 684910.LD.MR.GW

Project: Quarterly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: **Date:** 12/4/17 ← Date added by RWB

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
Cupboard Creek Protection Zone							
MW-19	1330	1970	—	11.77	12.15 ✓	1.10	
MW-20	1337	468	13.36	14.64	19.40 ✓	—	has TROLL
MW-23	1404	0.8	—	11.13	23.21 ✓	--	
MW-23B	1405	0.4	—	11.45	56.45	--	TD = 53.70
MW-26	1357	0.5	—	6.83	17.12 ✓	--	
MW-26B	1356	0.4	—	9.17	43.24	--	41.2 = TD
MW-29	1317	0.1	—	10.39	14.95	3.85	verify TD
MW-46	1416	0.8	—	9.48	17.05	--	TD = 17.10
HAYFIELD MW-47					~~22.79~~		HAY FIELD
TW-67	1343	5.6	-	12.48	26.46	10.64	may be affected by sparging ~~TD~~ = 26.60
TW-73	1325	0.8	—	3.3	12.75 ✓	9.60	may be affected by sparging / DTW ESTIMATE DUE TO SPARGE
Hayfield Zone							
CAPPED LOCK → MW-02	1708	10.5	—	2.54	23.14		has TROLL TD = 19.83
MW-02B	1705	14.0	—	24.56	81.55	9.99	add lock if missing / UNDER HIGH PRESSURE
MW-03	1612	0.2	—	18.00	20.28 ✓	10.44	ESTIMATES DUE TO BUBBLING / MISSING ONE BOLT
MW-04	1623	0.2	—	10.07	19.56 ✓	6.54	ANT HILL
MW-05	1628	0.2	—	16.55	19.78	--	TD = 19.85
MW-06	1631	231	—	15.45	15.12	--	TD = 19.15 / MISSING ONE BOLT
MW-06B	1633	0.5	—	16.14	85.65	--	TD = 66.15
DRY MW-07	1640	608.7	—	13.21	13.57	--	TD = 13.32
MW-08	1550	2.0	—	10.47	19.70	8.65	TD = 19.55
MW-09	1538	1.0	—	3.05	20.21	0.80	TD = 20.02
MW-09B	1540	2.1	—	9.15	151.0	--	TD = 138.0 (DOUBLE CHECKED)
MW-10	1557	0.4	—	10.85	23.21 ✓	7.25	has BaroTROLL
MW-13	1435	328	~~21.07~~	21.87	22.15	--	TD = 22.19
MW-13B	1438	19.4	—	22.66	55.44	--	57.99 = TD
MW-14	1445	0.2	—	17.62	22.16	--	22.22

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** MID 50'S / SUNNY

PN: 684910.LD.MR.GW

Project: Quarterly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: M. WALKER, K. SEXTON, Z. WARD **Date:** 12/4/17

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
MW-14B	1443	0.4	—	19.22	79.35	--	TD = 72.00 (TRIPIE CHECKED)
MW-16	1644	~~0.2715,000~~	—	7.00	20.58 ✓		may be affected by sparging / NEEDS NEW CAP
DRY MW-17	1425	200.7	—	10.85	16.18	--	TD = 11.21 (TRIPIE CHECKED)
MW-17B	1423	140	—	17.05	28.95	--	TD = 27.65
MW-18	1546	1680	11.61	11.64	20.11 ✓	—	may be affected by sparging / NEEDS NEW CAP
☆LF MW-21	1419	0.5	—	17.42	20.71	--	20.73
DRY MW-30	1619	1.4	—	14.47	14.51	3.62	TD = 14.65
MW-31	1456	0.2	—	20.05	28.03 ✓	--	
MW-32	1605	0.2	—	10.02	28.93	--	TD = 29.02
MW-33T	1505	0.2	—	27.12	98.48	--	100.00 = TD
MW-36	1705	29.4	—	20.14	23.62	--	TD = 23.78
MW-36B	1710	7.4	—	20.90	47.89	--	TD 44.90
MW-45	1412	5.6	—	14.22	14.41	--	TD = 14.49
MW-45B	1410	~~2152 21.57~~	—	15.93	40.30	--	TD = 21.53 (TRIPIE CHECKED ~~DEPTH~~) NEW LOCK
MW-47	1458	0.3	—	17.75	23.09	--	TD = 22.85
MW-48B	~~1412~~ 1523	0.8	—	18.22	~~94.50~~ 97.7	--	check for silt at bottom of well NEW LOCK/SILTY
MW-50B	1511	0.8	—	21.37	109.60	--	TD = 100.1 NEW LOCK
TW-55	1700	2.7	—	5.48	30.78		TD = 61.54
TW-64	1516	0.2	—	17.45	52.85	8.21	TD = 58.75
TW-96	1604	0.4	—	3.0	28.76	9.72	may be affected by sparging TD = 27.2 ☆ESTIMATE
Shallow Bedrock Zone							
MW-01	1157	1.1	—	9.95	15.82	5.94	has BaroTROLL 15.95 = DTB
MW-01B	1159	3.8	—	10.24	42.21	0.43	DTB = 42.25
MW-11	1138	337.9	29.72	29.86	32.40	—	DTB = 32.00
☆LF MW-22	1211	1.5	—	9.99	10.32 ✓	1.35	
MW-27	1143	0.1	~~27.46~~	27.46	29.60	--	DTB = 29.47
MW-27B	1146	0.4	—	30.70	35.51	--	DTB = 50.59
DRY MW-44	1205	0.0	—	9.40	9.75 ✓	--	

☆ BUBBLING ESTIMATES

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** _____

PN: 684910.LD.MR.GW

Project: Quarterly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: _____ **Date:** 12/4/17 ← Date added by RWB

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
MW-44B	1204	~~12.70~~ 0.0	—	14.32	35.61	--	34.82 DTW B

BTOC - below top of casing

ft - feet

PN - Project Number

[1]Total depths collected 11/3/17

ppm - parts per million

SM - Site Manager

- wells historically found to have product

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	12/07/2017	11:57	14.11	14.12		
RS-08	12/07/2017	11:57	15.05	15.2		Pressure, expansion cap and casing damaged

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	12/07/2017	12:03	15.03	15.12		
RT-1B	12/07/2017	12:03	14.99	15.08		
RT-1C	12/07/2017	12:04	15.57	15.66		
RT-2A	12/07/2017	12:04		1.23		
RT-2B	12/07/2017	12:04	1.35	1.36		
RT-2C	12/07/2017	12:04		1.81		
RT-2D	12/07/2017	12:04		1.88		Sheen
RT-2E	12/07/2017	12:05		1.99		
RT-2F	12/07/2017	12:05		2.33		
RT-2G	12/07/2017	12:05		3.82		Lock replaced
RT-2I	12/07/2017	12:05		3.6		Lock impacted by dirt, needs to be cut off and replaced, expansion cap not tightened
RT-2J	12/07/2017	12:06	2.44	2.45		
RT-2K	12/07/2017	12:07				Silt fence material in well, no measurement
RT-2L	12/07/2017	12:07	2.66	2.67		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	12/07/2017	11:58	29.46	29.77		Lock replaced
RW-05	12/07/2017	11:59	33.01	33.71		
RW-06	12/07/2017	12:00	27.27	27.28		Lock replaced
RW-07	12/07/2017	12:00	24.35	24.38		
RW-08	12/07/2017	12:00		17.94		Odor
RW-09	12/07/2017	12:01		14.85		
RW-11	12/07/2017	12:01		14.69		Odor, pressure
RW-12	12/07/2017	12:01		15.98		Odor, expansion cap needs replacement
RW-14	12/07/2017	12:02		13.65		Tank 1: DTP 1.15, DTW 1.16 Tank 2: DTP 3.41, DTW 3.43

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	12/13/2017	10:39	14.07	14.08		
RS-08	12/13/2017	10:39	14.94	15.02		Expansion cap and casing damaged

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	12/13/2017	10:40	14.77	14.82		
RT-1B	12/13/2017	10:41	14.72	14.77		
RT-1C	12/13/2017	10:41	15.31	15.36		
RT-2A	12/13/2017	10:41		1		
	12/13/2017	10:41				
RT-2B	12/13/2017	10:41	1.15	1.16		
RT-2C	12/13/2017	10:42		1.6		
RT-2D	12/13/2017	10:42	1.67	1.68		
RT-2E	12/13/2017	10:42				No measurement, expansion cap frozen
RT-2F	12/13/2017	10:42	2.12	2.13		
RT-2G	12/13/2017	10:43		4.43		
RT-2I	12/13/2017	10:43		2.82		Lock needs to be removed and replaced
RT-2J	12/13/2017	10:44		1.11		Odor
RT-2K	12/13/2017	10:44				Silt fence material in well
RT-2L	12/13/2017	10:44		2.36		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	12/13/2017	10:45	29.44	29.84		
RW-05	12/13/2017	10:47	32.83	33.83		
RW-06	12/13/2017	10:47		26.1		Air sparring, odor
RW-07	12/13/2017	10:48	22.87	22.88		
RW-08	12/13/2017	10:48	15.89	15.9		
RW-09	12/13/2017	10:48		13.85		Odor
RW-11	12/13/2017	10:48		14.9		Pressure, odor
RW-12	12/13/2017	10:49		16.03		Odor, expansion cap needs replacement
RW-14	12/13/2017	10:49		14.45		Tank 1: DTW 1.20 Tank 2: DTW 3.50

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	12/21/2017	11:38		14.17		
RS-08	12/21/2017	11:39	15.03	15.16		Expansion cap and casing damaged

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	12/21/2017	11:39	14.82	14.87		
RT-1B	12/21/2017	11:39	14.77	14.82		
RT-1C	12/21/2017	11:40	15.36	15.41		
RT-2A	12/21/2017	11:40		0.84		
RT-2B	12/21/2017	11:40		1		
RT-2C	12/21/2017	11:40		1.46		
RT-2D	12/21/2017	11:41		1.53		Sheen
RT-2E	12/21/2017	11:41		1.63		
RT-2F	12/21/2017	11:41		1.97		
RT-2G	12/21/2017	11:41		3.62		
RT-2I	12/21/2017	11:41		3.39		Lock impacted with dirt
RT-2J	12/21/2017	11:42	2.09	2.1		
RT-2K	12/21/2017	11:42				Silt fence material in well
RT-2L	12/21/2017	11:42		2.34		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	12/21/2017	11:43	24.34	24.93		
RW-05	12/21/2017	11:43	32.85	34.19		
RW-06	12/21/2017	11:43	27.22	27.23		
RW-07	12/21/2017	11:43	24.25	24.27		
RW-08	12/21/2017	11:44	17.81	17.83		
RW-09	12/21/2017	11:44		14.71		
RW-11	12/21/2017	11:44		14.7		Bubbling, odor, pressure
RW-12	12/21/2017	11:45		16		Odor, expansion cap replaced
RW-14	12/21/2017	11:45		13.27		Tank 1: DTW 1.18 Tank 2: DTP 2.89, DTW 2.90

MW Wells	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	MW Well Comment
MW-01	12/27/2017	17:36		8.01		
MW-01B	12/27/2017	17:37		10.45		
MW-02	12/27/2017	17:38		9.5		Bubbling
MW-02B	12/27/2017	17:39		16.41		
MW-03	12/27/2017	17:39		14.8		Bubbling
MW-04	12/27/2017	17:39		10.2		
MW-05	12/27/2017	17:40		16.4		
MW-06	12/27/2017	17:40		15.3		
MW-06B	12/27/2017	17:40		15.13		
MW-07	12/27/2017	17:41		13.17		
MW-08	12/27/2017	17:41	11.6	11.61		
MW-09B	12/27/2017	17:41		17.4		Bubbling
MW-09	12/27/2017	17:43		6.2		Bubbling
MW-10	12/27/2017	17:43		13.71		
MW-11	12/27/2017	17:44	30.02	30.45		
MW-12	12/27/2017	17:44		14.53		
MW-12B	12/27/2017	17:44		15.04		
MW-13	12/27/2017	17:45		21.85		
MW-13B	12/27/2017	17:45		23.41		
MW-14	12/27/2017	17:45		17.5		
MW-14B	12/27/2017	17:46		19.06		
MW-15	12/27/2017	17:46	14.01	14.02		
MW-15B	12/27/2017	17:47		15.9		
MW-16	12/27/2017	17:47		10.6		Bubbling
MW-17	12/27/2017	17:48		16.85		
MW-17B	12/27/2017	17:48		16.9		
MW-18	12/27/2017	17:48		12.6		Bubbling
MW-19	12/27/2017	17:49		11.75		
MW-20	12/27/2017	17:49	13.15	13.5		
MW-21	12/27/2017	17:50		17.17		
MW-22	12/27/2017	17:50				Dry
MW-23	12/27/2017	17:50		10.81		
MW-23B	12/27/2017	17:50		11.45		
MW-24	12/27/2017	17:51		4.5		
MW-24B	12/27/2017	17:51		5.58		
MW-25	12/27/2017	17:51		8.69		
MW-25B	12/27/2017	17:52		5.25		
MW-26	12/27/2017	17:52		6.35		
MW-26B	12/27/2017	17:52		9.34		
MW-27	12/27/2017	17:53		27.4		
MW-27B	12/27/2017	17:53		30.71		
MW-28	12/27/2017	17:54		24.55		
MW-29	12/27/2017	17:54		10.06		
MW-30	12/27/2017	17:54		14.55		
MW-31	12/27/2017	17:55		22.35		

MW Wells	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	MW Well Comment
MW-31B	12/27/2017	17:55		21.1		
MW-32	12/27/2017	17:55		18.85		
MW-33	12/27/2017	17:56		26.35		
MW-33T	12/27/2017	17:56		27.6		
MW-35	12/27/2017	17:56		8.62		
MW-36	12/27/2017	17:59		19.98		
MW-36B	12/27/2017	17:59		19.68		
MW-37	12/27/2017	17:59		3.41		
MW-38	12/27/2017	18:00		1.91		
MW-39	12/27/2017	18:00		5.39		
MW-40	12/27/2017	18:00		2.72		
MW-41	12/27/2017	18:01		4.47		
MW-42	12/27/2017	18:01		5.14		
MW-43	12/27/2017	18:01		4.3		
MW-43B	12/27/2017	18:02		2.12		
MW-46	12/27/2017	18:02		9.11		
MW-47	12/27/2017	18:03		19.92		
MW-48B	12/27/2017	18:03		18.17		
MW-49	12/27/2017	18:03		20.18		
MW-50B	12/27/2017	18:04		23.82		

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
	12/27/2017	17:03	13.58	14		
RS-02	12/27/2017	17:03	12.11	12.15		
RS-04	12/27/2017	17:04		9.75		
RS-05	12/27/2017	17:04	12.5	13.15		
RS-06	12/27/2017	17:04		12.21		
RS-07	12/27/2017	17:05		14.06		
RS-08	12/27/2017	17:05	14.9	15		
RS-09	12/27/2017	17:05		14.13		
RS-10	12/27/2017	17:06	10.05	10.15		
RS-11	12/27/2017	17:06		9		
RS-12	12/27/2017	17:06		9.2		Bubbling
RS-13	12/27/2017	17:07		14.34		
RS-14	12/27/2017	17:07	7.47	7.49		
RS-15	12/27/2017	17:08		6.99		
RS-16	12/27/2017	17:08		6.8		
RS-17	12/27/2017	17:08	6.38	6.39		
RS-18	12/27/2017	17:08		15.92		
RS-20	12/27/2017	17:09		6.55		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	12/27/2017	17:17	14.62	14.65		
RT-1B	12/27/2017	17:17	14.59	14.62		
RT-1C	12/27/2017	17:17	15.17	15.2		
RT-2A	12/27/2017	17:18		1.05		
RT-2B	12/27/2017	17:18		1.2		
RT-2C	12/27/2017	17:18		1.63		
RT-2D	12/27/2017	17:18		1.71		
RT-2E	12/27/2017	17:19		1.82		
RT-2F	12/27/2017	17:19		2.15		
RT-2G	12/27/2017	17:19		4.25		
RT-2I	12/27/2017	17:19		3.12		
RT-2J	12/27/2017	17:20		1.41		
RT-2K	12/27/2017	17:20	1.24	1.25		
RT-2L	12/27/2017	17:20		2.25		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	12/27/2017	17:09		12.54		
RW-02	12/27/2017	17:10	23.51	24.1		
RW-03	12/27/2017	17:10	24.2	24.25		
RW-04	12/27/2017	17:10	29.77	30.35		
RW-05	12/27/2017	17:11	32.78	33.95		
RW-06	12/27/2017	17:12		26.27		
RW-07	12/27/2017	17:12	22.85	22.87		
RW-08	12/27/2017	17:13	15.79	15.8		
RW-09	12/27/2017	17:13		13.81		
RW-11	12/27/2017	17:13		13.7		Bubbling
RW-10	12/27/2017	17:14	10.05	10.15		Bubbling
RW-12	12/27/2017	17:14		16		Odor
RW-13	12/27/2017	17:15				Can't remove cap, too much pressure
RW-14	12/27/2017	17:15		14.51		
RW-15	12/27/2017	17:16	14.62	15.3		

SW Wells	Date	Time	DTW	SW Well Comment
SW-01	12/27/2017	17:21	0.9	
SW-02	12/27/2017	17:21	1.6	
SW-03	12/27/2017	17:22	1.74	
SW-08	12/27/2017	17:22	1.08	
SW-10	12/27/2017	17:22	0.45	

TW Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	TW Well Comment
TW-04R	12/27/2017	17:23				Dry
TW-05R	12/27/2017	17:24		6.52		
TW-14R	12/27/2017	17:24				Dry
TW-15R	12/27/2017	17:25		3.92		
TW-21	12/27/2017	17:25		4.5		
TW-28	12/27/2017	17:25	23.1	23.7		
TW-30	12/27/2017	17:26		22.15		
TW-34	12/27/2017	17:26		22.21		
TW-35	12/27/2017	17:26		22.7		
TW-40	12/27/2017	17:26		28.95		
TW-41	12/27/2017	17:27		27.65		
TW-42	12/27/2017	17:27	26.1	26.55		
TW-45	12/27/2017	17:28	27.65	27.76		
TW-55	12/27/2017	17:28		14		Bubbling
TW-59	12/27/2017	17:28		12.2		Bubbling
TW-60	12/27/2017	17:29		10.9		
TW-64	12/27/2017	17:29		19.61		
TW-65	12/27/2017	17:29		22.82		
TW-66	12/27/2017	17:30		3.03		
TW-67	12/27/2017	17:30		9		Bubbling
TW-68	12/27/2017	17:30		23.9		
TW-69	12/27/2017	17:31		17.75		
TW-70	12/27/2017	17:31		19.36		
TW-73	12/27/2017	17:31		6		Bubbling
TW-76	12/27/2017	17:31		14.55		
TW-81	12/27/2017	17:32		4.21		
TW-82	12/27/2017	17:32		4.32		
TW-83	12/27/2017	17:32		5.09		
TW-84	12/27/2017	17:33		5.75		
TW-85	12/27/2017	17:33		16.1		Bubbling
TW-86	12/27/2017	17:33		5.52		
TW-87	12/27/2017	17:34		6.6		
TW-90	12/27/2017	17:34		7.8		Bubbling
TW-94	12/27/2017	17:34				Bubbling out top
TW-96	12/27/2017	17:35		14.96		

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	01/05/2018	12:08	14.15	14.16		
RS-08	01/05/2018	12:09	14.87	14.94		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	01/05/2018	12:10	14.66	14.73		
RT-1B	01/05/2018	12:11	14.62	14.69		
RT-1C	01/05/2018	12:11	15.23	15.29		
RT-2A	01/05/2018	12:11		1.25		
RT-2B	01/05/2018	12:12		1.42		
RT-2C	01/05/2018	12:12		1.87		
RT-2D	01/05/2018	12:12		1.92		Sheen
RT-2E	01/05/2018	12:12				Expansion cap frozen
RT-2F	01/05/2018	12:13				Expansion cap frozen
RT-2G	01/05/2018	12:14				Lock frozen
RT-2I	01/05/2018	12:15				Expansion cap frozen
RT-2J	01/05/2018	12:15		1.89		Odor
RT-2K	01/05/2018	12:16				Silt fence material in well, no measurement
RT-2L	01/05/2018	12:17		2.67		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	01/05/2018	12:18	30.11	30.26		
RW-05	01/05/2018	12:19	33.35	33.99		
RW-06	01/05/2018	12:19		27.41		
RW-07	01/05/2018	12:21		24.03		
RW-08	01/05/2018	12:21		17.29		
RW-09	01/05/2018	12:22		14.57		
RW-11	01/05/2018	12:22		14.88		Odor, Pressure
RW-12	01/05/2018	12:23		15.94		Odor, expansion cap replaced
RW-14	01/05/2018	12:23				No measurement, ice surrounding expansion cap Tank 1 - DTW 1.12, ice on surface Tank 2 - DTW 1.57

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** 29°F, CHANCE OF RAIN

PN: 699858.LD.MR.GW

Project: Monthly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: M. WARREN / KYLE SEXTON **Date:** 01/08/16

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
Brown's Creek Protection Zone							
MW-12	1608	422	—	15.11	~~21.84~~	0.58	has TROLL TD = 21.56
MW-12B	1610	18	—	15.5	~~45.35~~	2.18	TD = 48.00
MW-15	1415	3.84	—	12.84	21.17	3.27	has TROLL
MW-15B	1410	32.0	—	16.23	~~80.50~~	0.33	TD = 81.60
MW-25	1530	0.0	—	8.80	17.95	0.78	has TROLL
MW-25B	1535	0.0	—	5.53	~~62.61~~	0.58	TD = 60.5
MW-28	1545	411.0	—	24.15	~~26.18~~	0.61	TD = 26.10
MW-34	1450	2.9	—	2.48	7.85	--	
MW-35	1540	0.0	—	10.57	~~28.45~~	--	TD = 28.3
MW-38	1430	0.0	—	1.95	11.52	--	
MW-39	1455	3.3	—	4.86	13.09	--	
MW-40	1500	540	—	2.72	13.21	--	has TROLL
MW-41	1525	0.0	—	4.40	13.19	--	
MW-43	1445	0.0	—	4.35	10.35	--	
SW-01	FZN	--	--	--	--	FZN.	SURFACE WATER FROZEN
SW-03	FZN	--	--	--	--	FZN	↓ ↓ ↓
SW-12	FZN	--	--	--	--	FZN	
SW-13	FZN	--	--	--	--	FZN	
TW-59	1600	0.0	—	15.25	~~21.00~~	10.00	TD = 20.50
TW-60	1506	FZN WELL	FZN WELL	FZN WELL	FZN WELL	FZN WELL	WATER WITHIN WELL CASING WAS FROZEN AND PREVENTED ACCESS TO WELL.
TW-66	1520	0.0	—	2.37	23.85	7.28	
Cupboard Creek Protection Zone							
MW-19	0900	68.0	—	11.78	12.15	2.96	
MW-20	0902	846.0	13.71	14.64	19.40	PRODUCT	has TROLL
MW-23	0915	0.8	—	11.02	23.21	--	
MW-26	0907	12.4	—	6.68	17.12	--	
MW-29	~~0840~~ 0830	0.0	—	10.36	14.95	7.03	
TW-67	0905	FZN WELL	FZN WELL	FZN WELL	26.60	FZN WELL	WATER WITHIN WELL CASING WAS FROZEN AND PREVENTED ACCESS TO WELL.
TW-73	0845	0.0	—	9.83	12.75	9.43	NEEDS BOLT REPLACEMENT

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** 29°F, CHANCE OF RAIN

PN: 699858.LD.MR.GW

Project: Monthly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: M. WARREN K. SEXTON **Date:** 01/08/18

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
Hayfield Zone							
MW-02	1058	62.4	—	14.26	19.83	0.57	has TROLL
MW-02B	1100	0.2	—	23.70	~~81.55~~	8.90	TD = 81.50
MW-03	1340	0.0	—	19.98	~~20.28~~	SHALLOW	TD = 20.00
MW-04	1112	0.0	—	14.97	19.56	7.34	
MW-05	1120	0.0	—	16.57	19.85	--	
MW-07	1256	90.6	—	13.21	~~13.57~~	--	TD = 13.31
MW-08	1351	0.9	—	19.43	~~19.55~~	SHALLOW	TD = 19.50
MW-09	1140	180.4	—	18.30	~~20.02~~	5.55	TD = 19.95
MW-10	1030	0.0	—	15.08	23.21	4.92	has BaroTROLL
MW-16	1305	970	—	18.19	~~20.58~~	1.54	TD = 20.25
MW-18	1330	782	—	19.6	~~20.11~~	SHALLOW	TD = 19.73
MW-30	1052	0.0	—	14.59	~~14.65~~	SHALLOW	TD = 14.70
MW-31	1010	0.3	—	22.55	28.03	--	
MW-45	0922	1.0	—	14.25	14.49	--	
TW-55	1130	0.0	—	21.73	~~61.54~~	8.63	TD = 41.33
TW-64	1015	0.0	—	21.10	~~52.75~~	7.71	TD = 52.65
TW-96	1035	0.0	—	15.07	~~27.20~~	9.52	TD = 26.63
Shallow Bedrock Zone							
MW-01	0945	1.1	—	9.50	~~16.65~~	0.38	has BaroTROLL TD = 17.70 (DOUBLECHECKED)
MW-01B	0947	1.0	—	10.55	42.25	6.85	
MW-11	1000	0.0	30.68	30.90	32.00	PRODUCT	
MW-22	0930	1.1	—	10.01	~~10.32~~	1.04	TD = 10.40

BTOC - below top of casing

ft - feet

PN - Project Number

[1]Total depths collected 12/4/17

ppm - parts per million

SM - Site Manager

- wells historically found to have product

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	01/10/2018	12:38	14.32	14.33		
RS-08	01/10/2018	12:40	14.68	14.75		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	01/10/2018	12:41	14.7	14.74		
RT-1B	01/10/2018	12:42	14.66	14.71		
RT-1C	01/10/2018	12:42	15.24	15.29		
RT-2A	01/10/2018	12:44		1.07		
RT-2B	01/10/2018	12:44		1.27		
RT-2C	01/10/2018	12:44		1.72		
RT-2D	01/10/2018	12:46		1.8		
RT-2E	01/10/2018	12:47		1.89		
RT-2F	01/10/2018	12:47		2.22		
RT-2G	01/10/2018	12:47		4.44		
RT-2I	01/10/2018	12:47		3.17		
RT-2J	01/10/2018	12:48		1.62		Odor
RT-2K	01/10/2018	12:48				No inner casing
RT-2L	01/10/2018	12:49	2.52	2.54		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	01/10/2018	12:50	30.57	30.65		
RW-05	01/10/2018	12:50	33.13	33.53		
RW-06	01/10/2018	12:51		26.55		
RW-07	01/10/2018	12:51	23.02	23.04		
RW-08	01/10/2018	12:52	16.11	16.12		
RW-09	01/10/2018	12:52		13.78		
RW-11	01/10/2018	12:53		13.59		Odor, pressure
RW-12	01/10/2018	12:53		15.29		
RW-14	01/10/2018	12:54		14.04		

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	01/20/2018	10:31		14.07		
RS-08	01/20/2018	10:31	14.72	14.78		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	01/20/2018	10:32	14.52	14.57		
RT-1B	01/20/2018	10:32	14.48	14.53		
RT-1C	01/20/2018	10:32	15.06	15.11		
RT-2A	01/20/2018	10:32		0.95		
RT-2B	01/20/2018	10:33		1.07		
RT-2C	01/20/2018	10:33				Expansion cap frozen
RT-2D	01/20/2018	10:33		1.62		Sheen
RT-2E	01/20/2018	10:33				Expansion cap frozen
RT-2F	01/20/2018	10:34				Expansion cap frozen
RT-2G	01/20/2018	10:34				Expansion cap frozen
RT-2I	01/20/2018	10:34		2.79		
RT-2J	01/20/2018	10:34		1.08		Sheen, odor
RT-2K	01/20/2018	10:35	1.35	1.36		No inner casing
RT-2L	01/20/2018	10:35	2.3	2.31		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	01/20/2018	10:35	30.23	30.54		
RW-05	01/20/2018	10:36	32.96	34.05		
RW-06	01/20/2018	10:36		26.47		Odor
RW-07	01/20/2018	10:36	23.97	23.99		
RW-08	01/20/2018	10:37	16.03	16.04		Expansion cap needs replacement
RW-09	01/20/2018	10:37		13.84		
RW-11	01/20/2018	10:37		14.92		Odor, pressure
RW-12	01/20/2018	10:37		15.79		
RW-14	01/20/2018	10:38	14.83	14.84		Tank 1: DTP No measurement, DTW 4.57 Tank 2: DTP 4.83, DTW 4.84

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-07	01/26/2018	12:05		14.07		
RS-08	01/26/2018	12:05	14.89	14.97		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	01/26/2018	12:06	14.64	14.68		
RT-1B	01/26/2018	12:07	14.6	14.64		
RT-1C	01/26/2018	12:07	15.19	15.23		
RT-2A	01/26/2018	12:09		0.96		
RT-2B	01/26/2018	12:09		1.12		
RT-2C	01/26/2018	12:10		1.58		
RT-2D	01/26/2018	12:10		1.67		
RT-2E	01/26/2018	12:11		1.78		
RT-2F	01/26/2018	12:11			2.11	
RT-2G	01/26/2018	12:11			0.92	
RT-2I	01/26/2018	12:12			1.03	
RT-2J	01/26/2018	12:12		0.04		
RT-2L	01/26/2018	12:15	2.48	2.49		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-04	01/26/2018	12:16	29.99	30.04		
RW-05	01/26/2018	12:17	33.39	33.73		
RW-06	01/26/2018	12:17	27.16	27.18		
RW-07	01/26/2018	12:18	23.38	23.4		
RW-08	01/26/2018	12:18	16.22	16.23		
RW-09	01/26/2018	12:19	13.44			
RW-11	01/26/2018	12:19		13.98		Odor/pressure
RW-12	01/26/2018	12:20		15.95		Odor/Pressure
RW-14	01/26/2018	12:20		7.66		T1-4.32 T2-4.45

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	02/02/2018	12:32				Unable to unlock
RS-05	02/02/2018	12:33				Unable to unlock

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	02/02/2018	12:39	14.23	14.25		
RT-1B	02/02/2018	12:40	14.19	14.21		
RT-1C	02/02/2018	12:40	15.81	15.83		
RT-2A	02/02/2018	12:41		0.85		
RT-2B	02/02/2018	12:41		0.95		
RT-2C	02/02/2018	12:42		1.38		
RT-2D	02/02/2018	12:42			1.46	
RT-2E	02/02/2018	12:42	1.57	1.58		
RT-2F	02/02/2018	12:43	1.87	1.88		
RT-2G	02/02/2018	12:43		0.95		
RT-2I	02/02/2018	12:44		0.64		
RT-2J	02/02/2018	12:44				Underwater
RT-2K	02/02/2018	12:45				No inner casing/putter casing moveable/no accurate reading
RT-2L	02/02/2018	12:46		1.95		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-02	02/02/2018	12:33	22.68	22.85		Odor/Pressure
RW-04	02/02/2018	12:34	29.54	29.74		
RW-05	02/02/2018	12:34	32.92	33.68		
RW-06	02/02/2018	12:35	26.82	26.83		
RW-07	02/02/2018	12:36	22.94	22.95		
RW-09	02/02/2018	12:37		12.98		
RW-11	02/02/2018	12:37		13.11		Odor/Pressure
RW-12	02/02/2018	12:37		15.93		Odor/Pressure
RW-15	02/02/2018	12:38		13.88		

MW Wells	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	MW Well Comment
MW-01	02/03/2018	17:00		5.93		
MW-01B	02/03/2018	17:01		9.98		
MW-02	02/03/2018	17:01				Out top
MW-02B	02/03/2018	17:02		0.10		
MW-03	02/03/2018	17:02				Out top
MW-04	02/03/2018	17:02		8.70		
MW-05	02/03/2018	17:02		16.03		
MW-06	02/03/2018	17:03		14.95		
MW-06B	02/03/2018	17:03		14.57		
MW-07	02/03/2018	17:03		13.20		
MW-08	02/03/2018	17:03		5.50		
MW-09	02/03/2018	17:04				Out top of well
MW-09B	02/03/2018	17:04		2.15		
MW-10	02/03/2018	17:04		8.20		
MW-11	02/03/2018	17:05	29.68	29.79		
MW-12	02/03/2018	17:05		14.07		
MW-12B	02/03/2018	17:05		14.60		
MW-13	02/03/2018	17:06		21.88		
MW-13B	02/03/2018	17:06		22.37		
MW-14	02/03/2018	17:06		17.29		
MW-14B	02/03/2018	17:06		19.01		
MW-15	02/03/2018	17:07		13.42		
MW-15B	02/03/2018	17:07		15.65		
MW-16	02/03/2018	17:07		3.00		Maybe, bubbling
MW-17	02/03/2018	17:08		10.85		
MW-17B	02/03/2018	17:08		16.55		
MW-18	02/03/2018	17:08		14.50		Maybe, bubbling
MW-19	02/03/2018	17:09		11.20		
MW-20	02/03/2018	17:09	12.90	12.97		
MW-21	02/03/2018	17:10		16.73		
MW-22	02/03/2018	17:10		10.01		
MW-23	02/03/2018	17:10		10.25		
MW-23B	02/03/2018	17:10		11.35		
MW-24	02/03/2018	17:11		4.41		
MW-24B	02/03/2018	17:11		5.45		
MW-25	02/03/2018	17:11		8.39		
MW-25B	02/03/2018	17:12		4.80		
MW-26	02/03/2018	17:12		5.58		
MW-26B	02/03/2018	17:12		8.48		
MW-27	02/03/2018	17:12		27.18		
MW-27B	02/03/2018	17:13		30.70		
MW-28	02/03/2018	17:13		24.21		
MW-29	02/03/2018	17:13		9.18		
MW-30	02/03/2018	17:13		13.49		
MW-31	02/03/2018	17:14		19.23		

MW Wells	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	MW Well Comment
MW-31B	02/03/2018	17:14		20.25		
MW-32	02/03/2018	17:14		6.73		
MW-33	02/03/2018	17:15		25.17		
MW-33T	02/03/2018	17:15		26.44		
MW-34	02/03/2018	17:15		2.37		
MW-35	02/03/2018	17:16		8.18		
MW-36	02/03/2018	17:16		19.69		
MW-36B	02/03/2018	17:16		19.43		
MW-37	02/03/2018	17:16		3.39		
MW-38	02/03/2018	17:17		1.84		
MW-39	02/03/2018	17:17		5.22		
MW-40	02/03/2018	17:17		2.63		
MW-41	02/03/2018	17:18		4.38		
MW-42	02/03/2018	17:19		5.12		
MW-43	02/03/2018	17:19		4.15		
MW-43B	02/03/2018	17:20		2.10		
MW-44	02/03/2018	17:20		8.63		
MW-44B	02/03/2018	17:20		14.25		
MW-45	02/03/2018	17:20		14.23		
MW-45B	02/03/2018	17:21		15.63		
MW-46	02/03/2018	17:21		8.35		
MW-47	02/03/2018	17:21		16.38		
MW-48B	02/03/2018	17:21		17.90		
MW-49	02/03/2018	17:21		19.87		
MW-50B	02/03/2018	17:22		20.45		

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-02	02/03/2018	16:46	9.94	9.96		
RS-04	02/03/2018	16:48		9.75		
RS-06	02/03/2018	16:49		10.87		
RS-07	02/03/2018	16:49	13.74	13.75		
RS-08	02/03/2018	16:50	14.62	14.63		
RS-09	02/03/2018	16:51		8.10		
RS-10	02/03/2018	16:51	6.91	6.92		
RS-11	02/03/2018	16:51		7.57		
RS-12	02/03/2018	16:52		7.92		
RS-13	02/03/2018	16:52		3.75		
RS-14	02/03/2018	16:52		4.82		
RS-15	02/03/2018	16:53		5.10		
RS-16	02/03/2018	16:53		3.83		
RS-17	02/03/2018	16:53		3.05		
RS-18	02/03/2018	16:53		8.27		
RS-20	02/03/2018	16:54		3.40		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-01	02/03/2018	16:55		13.20		
RW-03	02/03/2018	16:55	23.60	23.61		
RW-08	02/03/2018	16:58		15.75		
RW-10	02/03/2018	16:56		7.00		Maybe, water out top when opened, bubbling
RW-13	02/03/2018	16:57				Too much pressure, unable to open
RW-14	02/03/2018	16:58		13.76		

SW Wells	Date	Time	DTW	SW Well Comment
SW-01	02/03/2018	16:59	0.88	
SW-02	02/03/2018	16:59	1.55	
SW-03	02/03/2018	16:59	1.72	
SW-08	02/03/2018	17:00	1.06	
SW-10	02/03/2018	17:00	0.40	

TW Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	TW Well Comment
TW-04R	02/03/2018	17:24		4.25		
TW-05R	02/03/2018	17:24		4.32		
TW-14R	02/03/2018	17:24		4.98		
TW-15R	02/03/2018	17:25		2.93		
TW-21	02/03/2018	17:25		2.49		
TW-28	02/03/2018	17:25	22.68	22.80		
TW-30	02/03/2018	17:25		21.97		
TW-34	02/03/2018	17:26		22.23		
TW-35	02/03/2018	17:26		22.73		
TW-40	02/03/2018	17:26		28.92		
TW-41	02/03/2018	17:26		27.50		
TW-42	02/03/2018	17:27	25.87	26.40		
TW-45	02/03/2018	17:27	27.45	27.60		
TW-55	02/03/2018	17:28		15.80		Maybe, bubbling
TW-59	02/03/2018	17:28		11.50		Maybe, bubbling
TW-60	02/03/2018	17:29		9.78		
TW-64	02/03/2018	17:29		16.70		
TW-65	02/03/2018	17:29		21.18		
TW-66	02/03/2018	17:29		2.45		
TW-67	02/03/2018	17:29		12.61		
TW-68	02/03/2018	17:30		23.13		
TW-69	02/03/2018	17:30		13.38		
TW-70	02/03/2018	17:30		18.75		
TW-73	02/03/2018	17:31		6.00		Maybe, bubbling
TW-76	02/03/2018	17:31		14.17		
TW-81	02/03/2018	17:31		2.40		
TW-82	02/03/2018	17:32		2.45		
TW-83	02/03/2018	17:32		3.18		
TW-84	02/03/2018	17:32		4.15		
TW-85	02/03/2018	17:32				Out top
TW-86	02/03/2018	17:32		5.48		
TW-87	02/03/2018	17:33		5.13		
TW-94	02/03/2018	17:33				Out top
TW-96	02/03/2018	17:33				Out top

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** 50's, SUNNY

PN: 699858.LD.MR.GW

Project: Monthly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: M. WARREN / H. SEXTON **Date:** 02/05/2018

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
Hayfield Zone							
MW-02	1520	14.5	—	0.0	19.83	11.60	has TROLL
MW-02B	1525	0.0	—	0.1	81.55	7.8	
MW-03	1400	0.0	—	BUBBLING OVER	20.28	10.00	SEE PHOTO FOR BUBBLING OVER
MW-04	1411	0.0	—	7.80	19.56	8.08	
MW-05	1415	0.0	—	15.87	19.85	--	
MW-07	1420	94	—	13.19	~~13.57~~	--	TD= 13.55
MW-08	1443	0.6	—	4.35	~~19.55~~	10.64	TD = 19.80
MW-09	1500	0.4	—	0.1	20.02	1.03	
MW-10	1338	0.0	—	6.81	23.21	10.51	has BaroTROLL
MW-16	1425	254.0	—	~18	20.58	10.44	INCONSISTENT WATER LEVELS DUE TO SPARGE
MW-18	1435	289.6	16.96	16.97	20.11	PRODUCT	
MW-30	1405	0.0	—	13.11	~~14.65~~	5.32	TD= 14.60
MW-31	1325	0.0	—	18.90	28.03	--	
MW-45	0930	53.0	—	13.95	~~14.49~~	--	TD= 14.4
TW-55	1350	0.5	—	~13	61.54	11.00	INCONSISTENT WATER LEVELS DUE TO SPARGE
TW-64	1330	0.3	—	16.26	52.75	8.90	
TW-96	1349	0.0	—	BUBBLING OVER	27.20	10.10	SEE PHOTO FOR BUBBLING OVER
Shallow Bedrock Zone							
MW-01	1000	454	—	3.51	16.65	1.34	has BaroTROLL
MW-01B	1005	0.0	—	9.70	42.25	0.65	
MW-11	1007	390	29.56	29.60	32.00	PRODUCT	
MW-22	0945	58.0	—	9.81	~~10.32~~	4.80	TD= 10.30

BTOC - below top of casing

ft - feet

PN - Project Number

[1]Total depths collected 12/4/17

ppm - parts per million

SM - Site Manager

- wells historically found to have product

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** 50's SUNNY

PN: 699858.LD.MR.GW

Project: Monthly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: M. WARREN / K. SEXTON **Date:** 02/05/2018

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
Brown's Creek Protection Zone							
MW-12	1250	665	—	13.35	21.81 ✓	4.05	has TROLL
MW-12B	1255	4.8	—	13.61	45.35 ✓	0.70	
MW-15	1020	1.0	—	12.28	~~21.17~~	8.86	has TROLL TD= 19.55
MW-15B	1015	22.1	—	15.6	80.50 ✓	0.80	
MW-25	1222	0.1	—	8.15	17.95 ✓	1.54	has TROLL
MW-25B	1225	0.0	—	4.48	~~62.61~~	0.65	TD = 59.30
MW-28	1237	91.0	—	22.6	~~26.18~~	1.29	TD= 26.05
MW-34	1045	0.7	—	2.27	7.85 ✓	--	
MW-35	1230	0.0	—	9.00	28.45 ✓	--	
MW-38	1025	1.7	—	1.58	11.52 ✓	--	
MW-39	1050	0.2	—	4.85	13.09 ✓	--	
MW-40	1052	327	—	2.75	13.21 ✓	--	has TROLL
MW-41	1220	0.0	—	3.82	13.19 ✓	--	
MW-43	1035	0.0	—	3.70	10.35 ✓	--	
SW-01	1313	--	--	--	--	1.45	NEEDS SILT FENCE REPAIR
SW-03	1232	--	--	--	--	10.75	
SW-12	1055	--	--	--	--	10.45	
SW-13	1026	--	--	--	--	5.70	
TW-59	1245	1.7	—	13.40	~~21.00~~	10.04	TD= 20.65
TW-60	1210	965	—	8.45	—	7.46	TD= 41.0
TW-66	1258	0.0	—	1.1	23.85 ✓	7.98	
Cupboard Creek Protection Zone							
MW-19	0915	2568	—	10.8	12.15 ✓	9.00	
MW-20	0920	1971	—	12.57	19.40 ✓	1.05	has TROLL
MW-23	0935	0.3	—	9.76	~~23.21~~	--	TD= 23.15
MW-26	0940	0.0	—	4.37	~~17.12~~	--	TD= 17.20
MW-29	0900	1.8	—	7.80	14.95 ✓	8.06	
TW-67	0925	85.0	—	11.75	26.60 ✓	10.50	
TW-73	0910	0.0	—	7.65	~~12.75~~	10.78	DTB = 12.96

Lookup_RS	Date	Time	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	RS Well Comment
RS-01	02/09/2018	12:05	8.93	9.01		
RS-05	02/09/2018	12:06	8.09	8.29		

RT Wells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RT Well Comment
RT-1A	02/09/2018	12:07		13.71		
RT-1B	02/09/2018	12:07		13.68		
RT-1C	02/09/2018	12:07		14.29		
RT-2A	02/09/2018	12:08		0.54		
RT-2B	02/09/2018	12:08		0.68		
RT-2C	02/09/2018	12:08		1.14		
RT-2D	02/09/2018	12:09		1.25		
RT-2E	02/09/2018	12:09		1.33		
RT-2F	02/09/2018	12:09		1.67		
RT-2G	02/09/2018	12:10		0.98		
RT-2I	02/09/2018	12:10		0.23		
RT-2J	02/09/2018	12:10				Underwater
RT-2K	02/09/2018	12:10				No inner casing
RT-2L	02/09/2018	12:11		1.34		

RWWells	Date	Time	Depth to Product (ft btoc)	DTW (ft btoc)	Total Depth (ft btoc)	RW Well Comment
RW-02	02/09/2018	12:11	21.75	21.81		Visible fumes
RW-04	02/09/2018	12:12	28.93	29.39		
RW-05	02/09/2018	12:13	32.33	33.13		
RW-06	02/09/2018	12:13		26.15		
RW-07	02/09/2018	12:13		22.09		
RW-09	02/09/2018	12:13		12.23		
RW-11	02/09/2018	12:14				Extreme pressure
RW-12	02/09/2018	12:14				Extreme pressure
RW-15	02/09/2018	12:14		13.24		

Location Belton, SC Date 2-13-18

Project / Client Lewis Dr / PPL

Time	Well ID	DTW	DTP	PSH Readings	Product Thickness
0910	RT-1A	13.26	13.25	50000+	0.01
0916	RT-1B	13.28	—	150000+	—
1630	RT-1C	13.88	—	NR	—
1650	MW-24	11.81	—	NR	removed from system
1437	MW-08	3.88	3.87	NR	0.01
0948	RS-17	1.73	1.70	15000+	0.03
0955	RS-14	2.58	2.53	15000+	0.05
1002	RS-10	5.92	5.82	150004	0.10
1528	RS-05	7.95	7.78	NR	0.17
1008	RS-01	8.11	8.05	150004	0.06
1037	RS-02	6.80	6.78	NR	0.02
1040	RW-15	12.93	12.90	NR	0.03
1228	RW-12	21.57	21.56	NR	0.01
1230	RW-03	22.93	—	NR	—
1248	MW-11	28.81	28.80	NR	0.01
1250	RW-04	29.17	28.52	NR	0.65
1304	RW-05	32.51	31.81	NR	0.70
1315	RW-07	21.42	21.40	NR	0.02
1318	RW-08	13.62	—	NR	0.01
1355	MW-15	9.92	9.91	NR	
1343	AT-2K	0.08	—	NR	0.01
0936	RS-08	13.8	13.79	15000+	

71

Location Belton, SC Date 2-13-18

Project / Client Lewis Dr / PPL

1235 Started deploying skimmers. Had to re-adjust the length of the cable for the majority of the wells.

NOTE: RT-2K had a 6" cap and no interior 4" casing/cap, therefore, we could not deploy the skimmer. RS-01, RS-08, RT-1A, RT-1B, & RT-1C are all 4" stick-ups and the stick-ups are on a slant (took photos). I think because of this slant, the skimmers got stuck in the casing anywhere from 2ft down (RT-1C) to 10ft down (RT-1A). Jake and I left the 6 skimmers listed above in the systems building after discussing the issues with Tom Wiley.

NOTE: MW-15 & MW-20 both had trolls in them (MW-20 also had tubing). Discussed both wells with Tom Wiley. Trolls were removed & placed in ziploc bags and left in the system building. Tubing from MW-20 was removed & discarded.

Lewis Drive Daily Monitoring Sheet 1

Name(s): K. Braon / J. Crostic
Date: 2/21/18
Weather: humid 60s F
Safety Topic:

Contractor	# Personnel
CH2M HILL	2
A&D/ECS	
Kinder Morgan	
AE Drilling	
TWT	

AD 9:19

Hayfield system on while gauging

Weekly Gauging

*** Confirm all instances of LNAPL with a bailer.**

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-01	8.45	8.52	
RS-05			
RT-1A		13.25	
RT-1B		13.23	
RT-1C		13.82	
RT-2A	Flooding could not access		
RT-2B		0.75	
RT-2C		1.21	
RT-2D		1.32	
RT-2E		1.41	
RT-2F		1.75	
RT-2G		0.96	
RT-2H		damaged - gone	
RT-2I		0.35	
RT-2J		TOC	
RT-2K		0.65	
RT-2L		1.55	
RW-02			
RW-04			
RW-05			
RW-06		25.61	
RW-07			
RW-09		12.08	
RW-11		13.01	
RW-12		15.14	
RW-15			

FB 2/20/18

These features only gauged once a month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
RS-02			
RS-04		9.68	
RS-06		8.65	
RS-07		12.66	
RS-08		13.40	
RS-09		6.45	
RS-10			
RS-11		6.42	
RS-12		6.78	
RS-13		2.84	
RS-14			
RS-15		3.94	
RS-16		2.78	
RS-17			
RS-18		10.59	
~~RS-19~~		~~damaged~~ gone	
RS-20		3.02	
RW-01		12.77	
RW-03			
RW-08			
RW-10		9.75 *bubbling	
RW-13	under pressure NG		
RW-14		12.61	
troll 1145 MW-01		4.73	
MW-01B		7.90	

under pressure sprayed kisses

= locations with skimmers
= locations with socks

Not gauged

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
*MW-02		bubbling to TOC	
MW-02B		0.96	
*MW-03		bubbling to TOC	
MW-04		7.30	
MW-05		14.14	
MW-06		13.91	
MW-06B		13.63	
MW-07		12.15	
MW-08			
MW-09		bubbling to TOC	
MW-09B		3.34	
MW-10	1436 troll	5.40	
MW-11			
MW-12	1310 troll	14.05	
MW-12B		14.51	
MW-13		20.95	
MW-13B		21.45	
MW-14		15.79	
MW-14B		18.70	
MW-15			
MW-15B		15.11	
*MW-16		bubbling to TOC	
MW-17		10.83	11.17 TD
MW-17B		15.40	
*MW-18		bubbling to TOC	
MW-19		9.76	
MW-20			
MW-21		15.62	
MW-22		9.03	
MW-23		9.03	
MW-23B		11.84	
MW-24		4.35	
MW-24B		5.29	
MW-25 - troll 1324		8.09	
MW-25B		1.41	
MW-26		3.81	
MW-26B		7.01	
MW-27		26.05	
MW-27B		30.41	
MW-28		22.33	
MW-29		6.30	
MW-30		12.17	
MW-31		18.59	
MW-31B		19.13	
MW-32		6.32	
MW-33		24.31	
MW-33T		25.60	
MW-34		2.28	
MW-35		8.12	
MW-36		18.76	
MW-36B		18.46	
MW-37		3.34	
MW-38		1.69	
MW-39		5.29	
MW-40 1317 troll		2.95	

needs new lock

MW-34 no well tag

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
MW-41		4.25	
MW-42		5.60	
MW-43		4.11	
MW-43B		1.51	
MW-44		12.65 TD	
MW-44B		5.97 TD	
MW-45		12.91	
MW-45B		14.99	
MW-46		7.08	
MW-47		15.50	
MW-48B		17.12	
MW-49		18.57	
MW-50B		19.34	
TW-04R		3.47	
TW-05R		2.71	
TW-14R		4.00	
TW-15R		1.97	
TW-21		1.45	
TW-28		21.81	22.38
TW-30		20.60	
TW-34			
TW-35			
TW-40			
TW-41			
TW-42			
TW-45			
TW-46		damaged	
TW-55			
TW-59			
TW-60			
TW-64			
TW-65			
TW-66			
TW-67		~~10.895~~ 10.97	
TW-68			
TW-69			
TW-70		17.44	
TW-73		5.36	
TW-76			
TW-81		1.51	
TW-82		1.10	
TW-83		2.00	
TW-84		3.16	
TW-85			
TW-86		4.35	
TW-87		3.81	
TW-90			
TW-94			
TW-96			
SW-01		0.90	
SW-02		1.65	
SW-03		1.75	
SW-05		Dry	
SW-08		1.10	
SW-10		0.90	

MW-46 no well tag

Stopped gauging TWS due to time constraints

* special key required, orange & plastic

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** _____

PN: 699858.LD.MR.GW

Project: Quarterly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: _____ **Date:** 3/5/18 ← Date added by RWB

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
Brown's Creek Protection Zone							
MW-12	1350	52.8	—	12.83	~~22.05~~	2.90	has TROLL TD= 21.49
MW-12B	1245	0.4	—	12.92	45.31	4.40	
MW-15	1420	5.8	—	10.04	~~21.40~~	10.40	has TROLL TD= 19.18
MW-15B	1418	2.2	—	14.66	~~75.63~~	0.90	" TD= 72.5
MW-24	1437	2.4	—	4.15	~~15.29~~	--	TD= 15.37
MW-24B	1433	1.8	—	5.03	~~42.23~~	--	TD= 42.68
MW-25	1330	0.1	—	7.84	~~18.04~~	2.65	has TROLL TD = 17.94
MW-25B	1335	0.2	—	4.12	~~50.43~~	1.10	TD= 56.50
MW-28	1303	2.5	—	2.65	~~25.91~~	3.46	TD= 26.08
MW-34	1416	2.8	—	2.23	7.82	--	BIOSHEEN IN ADJACENT WATER
MW-35	1315	0.0	—	8.33	28.50	--	TD = 26.28
MW-37	1503	0.0	—	3.28	18.11	--	
MW-38	1458	0.3	—	1.25	11.46	--	TD= 11.51
MW-39	1413	1.9	—	4.66	13.03	--	
MW-40	1410	0.2	—	2.44	13.15	--	has TROLL
MW-41	1357	0.0	—	3.94	13.19	--	
MW-42	1358	0.0	—	4.86	13.37	--	TD= 13.40
MW-43	1443	3.6	—	3.90	10.30	--	BACKGROUND = 3.5
MW-43B	1445	3.7	—	1.21	54.40	--	" " TD=55.00
MW-49	1308	0.0	—	17.68	23.30	--	TD= 23.32
SW-01	1438	–	–	–	–	11.75	1.00'
SW-03	1322	–	–	–	–	10.72	1.76'
SW-12	1490	–	–	–	–	11.56	
SW-13	1500	–	–	–	–	10.85	
TW-59	1310	0.1	—	13.26	22.00	10.17	may be affected by sparging
TW-60	1405	0.0	—	0.0	40.50	10.20	WELL BUBBLING OVER CASING
TW-66	1340	0.1	—	0.63	~~29.70~~	8.30	TD= 23.73

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:** _____

PN: 699858.LD.MR.GW

Project: Quarterly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: _____ **Date:** 3/5/18 ← Date added by RWB

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)	
Cupboard Creek Protection Zone								
MW-19	0910	1530	–	11.75	12.15	13.80%		
MW-20	0830	1442	10.80	10.90	19.40	—	has TROLL	TD= 19.45
MW-23	0751	0	–	8.27	23.21	–		TD= 22.20
MW-23B	0752	0	–	10.88	56.45	–		TD= 54.50
MW-26	0745	0	–	2.94	17.12	–		TD= 17.15
MW-26B	0744	0.2	–	6.30	43.24	–		TD= 42.0
MW-29	0740	0	–	4.20	14.95	60.22	verify TD	TD = 14.90
MW-46	0810	0.5	–	6.33	17.05	–		TD= 17.10
TW-67	0900	9.4	–	4.60	26.46	104.42	may be affected by sparging	TD= 26.50
TW-73	0922	1.2	7.55	7.56	12.75	–	may be affected by sparging	TD= 14.0
Hayfield Zone								
MW-02	1627	46	–	3.0	23.14	11.62	has TROLL	TD = 19.89
MW-02B	1400	0.8	–	1.5	81.55	6.62	add lock if missing	TD = 82.50
MW-03	1345	0	–	4.12	20.28	11.30		
MW-04	1352	0	6.21	10.70	19.56	–	confirmed on 3/7/18 to be a false reading, bailer confirmed no product in well	
MW-05	1423	0	–	13.06	19.78	–		TD = 19.85
MW-06	1427	315.8	–	13.25	15.12	–		TD = 19.20
MW-06B	1429	132.7	–	13.0	85.65	–		TD = 89.50
MW-07	0743	1.3	—	11.77	13.57	–		
MW-08	1515	0	–	7.50	19.70	10.08		TD = 20.0
MW-09	1405	3.7	–	0.5	20.21	11.07		TD = 19.80
MW-09B	1410	0	–	0	151.0	–		TD = 150.4
MW-10	1334	0	–	5.11	23.21	9.97	has BaroTROLL	
MW-13	1100	191	–	20.40	22.15	–		TD = 22.20
MW-13B	1055	144	—	21.00	55.44	–		TD = 56.0
MW-14	1105	6	–	15.11	22.16	–		TD = 22.25
MW-14B	1110	0.2	–	16.95	79.35	–		TD = 65.70* *Checked twice

Gauging sheet amended on 4/10/18 by R. Brown to show that MW-04 reading was false. Updated gauging table to show well was not measured because a confirmation DTW reading was not recorded.

Table 2 - DO Measurement List

SM: Tom Wiley **Client:** Plantation Pipe Line **Weather:**

PN: 699858.LD.MR.GW

Project: Quarterly Monitoring **Measuring Method:** YSI proODO, Oil/Water Interface Probe

Technicians: **Date:** 3/5/18 ← Date added by RWB

Sample Location	Time	PID Reading (ppm)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Total Depth[1] (ft BTOC)	DO(mg/L)	Comments (i.e. lid bolted down, missing bolts, condition of cap, replace cap, vault bolted down, water in vault, smell, etc.)
MW-16	1416	613.0	—	3.0	20.58	10.31	may be affected by sparging TD = 20.80
MW-17	0823	>87.0	–	10.85	16.18	–	TD = 11.22*
MW-17B	0819	210.0	–	14.80	28.95	–	TD = 24.15
MW-18	1556	513.0	17.2	18.25	20.11	—	may be affected by sparging TD = 19.25
MW-21			—		20.71	–	
MW-30	1347	0	–	11.43	14.51	2.64	TD = 14.70
MW-31	1300	0	–	18.01	28.03	–	TD = 28.05
MW-32	1337	0	–	6.82	28.93	–	TD = 29.0
MW-33T	1316	0	–	25.23	98.48	–	TD = 99.70
MW-36	1625	384.5	—	18.11	~~33.62~~	–	TD = 25.56
MW-36B	1628	5.9	—	17.81	~~47.89~~	–	TD = 44.56 TRIPLE CHECKED
MW-45	0803	5.7	–	12.31	14.41	–	TD = 14.50
MW-45B	0802	154.0	–	14.65	40.30	–	TD = 21.65*
MW-47	1247	0	–	14.74	23.09	–	TD = 22.85
MW-48B	1120	0	–	18.70	94.50	–	check for silt at bottom of well TD = 96.60
MW-50B	1130	0.4	–	19.80	109.60	–	TD = 108.35
TW-55	1418	0	–	18.50	30.78	10.65	TD = 41.81
TW-64	1320	0	–	15.60	52.85	8.64	TD = 52.57
TW-96	1340	0	–	0	28.76	10.50	may be affected by sparging TD = 27.95
Shallow Bedrock Zone							
MW-01	1013	6.6	—	3.80	15.62	0.95	has BaroTROLL TD = 15.65
MW-01B	1015	0	–	7.40	42.21	0.63	TD = 44.95
MW-11	1040	442	–	28.1	32.40	0.58	TD = 32.0
MW-22	0942	2.2	–	8.05	10.32	8.37	TD = 10.33
MW-27	1030	631.0	–	25.29	29.60	–	
MW-27B	1035	0.1	–	3.20	35.51	–	TD = 39.0
MW-44	1007	0	–	4.80	9.75	–	TD = 9.80
MW-44B	1010	0	–	12.10	35.61	–	

* Noticed difference, checked twice

Brown, Ryan/ATL

From: Warren, Melissa/ATL
Sent: Tuesday, March 6, 2018 8:18 AM
To: Brown, Ryan/ATL
Cc: Smida, Scott/CLT; Sexton, Kyle/ATL; Wiley, Tom/ATL; Ward, Zachary/RAL; Waldron, William/RAL; Powell, Scott/ATL; Garvey, Bethany/ATL
Subject: Re: Lewis Drive Update 3-5-18

Hi all,

We were able to get the well cap open early this morning.

Time: 0740
PID: 3.2
DTP: -
DTW: 14.80
DTB: 20.71

Thank you,

Melissa

On Mar 6, 2018, at 7:41 AM, Brown, Ryan/ATL <Ryan.Brown2@CH2M.com> wrote:

> Yeah, when Jake and I gauged the site on February 21, we did not have any issues with MW-21.
>
> **Ryan W. Brown**
> *Environmental Engineer*
> D 1 678 530 4055
> M 1 404 434 0880
> F 1 770 604 9183
>
> CH2M is now Jacobs
> 6600 Peachtree Dunwoody Rd.
> 400 Embassy Row, Suite 600
> Atlanta, GA 30328
> www.ch2m.com | LinkedIn | Twitter | Facebook
> Email - rbrown9@ch2m.com
>
> **Core work hours: M - F from 8:00AM - 4:00PM EST**
> **Upcoming Fieldwork (out of office): March 20**
> **Upcoming Holiday: None**
> **Upcoming PTO: April 13 and 27 PM and June 7 and 8**
> **Upcoming Training: March 27-29**
> **Upcoming WFH: April 27 AM**
>
> ---
>
> **From:** Smida, Scott/CLT
> **Sent:** Tuesday, March 6, 2018 6:18 AM
> **To:** Sexton, Kyle/ATL <Kyle.Sexton@ch2m.com>; Wiley, Tom/ATL <Tom.Wiley@CH2M.com>; Warren, Melissa/ATL <Melissa.Warren@ch2m.com>; Ward, Zachary/RAL <Zachary.Ward@ch2m.com>
> **Cc:** Waldron, William/RAL <wwaldron@CH2M.com>; Powell, Scott/ATL <Scott.Powell@ch2m.com>; Garvey, Bethany/ATL <Bethany.Garvey@CH2M.com>; Brown, Ryan/ATL <Ryan.Brown2@CH2M.com>
> **Subject:** Re: Lewis Drive Update 3-5-18
>
> I have no knowledge of well. If it does not have the KM brass lock or small dolphin lock, it probably can be cut off well and replace with a KM lock. There is an extra in the rolling cabinet.

To prevent access, RW13 was locked with a uniquely keyed lock yesterday.

Sent from my Verizon, Samsung Galaxy smartphone

-------- Original message --------
From: "Sexton, Kyle/ATL" <Kyle.Sexton@ch2m.com>
Date: 3/5/18 11:10 PM (GMT-05:00)
To: "Wiley, Tom/ATL" <Tom.Wiley@CH2M.com>, "Warren, Melissa/ATL" <Melissa.Warren@ch2m.com>, "Ward, Zachary/RAL" <Zachary.Ward@ch2m.com>
Cc: "Waldron, William/RAL" <wwaldron@CH2M.com>, "Powell, Scott/ATL" <Scott.Powell@ch2m.com>, "Smida, Scott/CLT" <Scott.Smida@ch2m.com>, "Garvey, Bethany/ATL" <Bethany.Garvey@CH2M.com>, "Brown, Ryan/ATL" <Ryan.Brown2@CH2M.com>
Subject: Lewis Drive Update 3-5-18

Hi everyone,

Today's field documents are attached. Please let me know if you have any questions.

Today we accomplished the following:

- Gauged MW-12, 12B, 15, 15B, 24, 24B, 25, 25B, 28, 34, 35, 37, 38, 39, 40, 41, 42, 43, 43B, 49, 19, 20, 23, 23B, 26, 26B, 29, 46, 02, 02B, 03, 04, 05, 06, 06B, 07, 08, 09, 09B, 10, 13, 13B, 14, 14B, 16, 17, 17B, 18, 30, 31, 32, 33T, 36, 36B, 45, 45B, 47, 48B, 50B, 01, 01B, 11, 22, 27, 27B, 44 44B, 31B, and 33; TW-59, 60, 66, 67, 73, 04R, 14R, 15R, 21, 28, 30, 34, 35, 40, 41, 42, 45, 46, 65, 68, 69, 70, 76, 81, 82, 83, 84, 85, 86, 87, 90, and 94; SW-02, 05, 08, and 10; RS-01, 05, 02, 04, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, and 20; RT-1A, 1B, 1C, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2 I, 2J, 2K, and 2L; RW-02, 04, 05, 06, 07, 09, 11, 12, and 15.
- DO measurements at SW-03, 12, 01, 02

Upon opening MW-21, it was found that the well lock was unable to be unlocked with keys used for other well locks. The cap is too tight to be removed with the lock intact. If anyone has any information about this well, we would appreciate the assistance.

Tomorrow we will:

- Attempt to gauge MW-21
- Purge water from designated Low-Flow Groundwater Sampling wells
- Begin groundwater sampling

The field notes, gauging data, PTSP and calibration documents are attached. Please let me know if you have any questions.

Thank you,

Kyle Sexton
Geologist
D 1 678 530 4118
M 1 850 240 6650

CH2M
6600 Peachtree Dunwoody Road
400 Embassy Row, Suite 600

Lewis Drive Monitoring Sheet 1

Name(s): M. WARREN, K. SEXTON, Z. WARD, J. ICRASNIK

Date: 03/05/18

Weather: MID 50s / SUNNY / HUMID

Contractor	# Personnel
Jacobs	4
A&D/ECS	
Kinder Morgan	

Weekly Gauging

*** Confirm all instances of LNAPL with a bailer.**

	Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
	RS-01	7.38	7.42	22.51
	RS-05	7.32	7.47	25.06
	RT-1A	—	12.13	18.85
	RT-1B	—	12.10	18.15
	RT-1C	—	12.70	21.10
	RT-2A	—	0.61	7.60
	RT-2B	—	0.81	7.38
	RT-2C	—	1.21	9.3
	RT-2D	—	1.34	7.2
	RT-2E	—	1.44	8.35
	RT-2F	—	1.77	9.33
	RT-2G	—	2.99	10.06
	RT-2H	—	damaged	—
	RT-2I	—	2.0	10.00
	RT-2J	—	0.49	10.05
	RT-2K	—	0.73	2.2
	RT-2L	—	1.19	5.79
	RW-02	20.76	20.80	26.05
	RW-04	27.62	28.40	37.06
	RW-05	30.93	31.46	38.22
	RW-06	—	24.98	39.75
	RW-07	—	21.43	41.66
	RW-09	—	12.90	41.04
	RW-11	—	13.15	21.60
	RW-12	—	14.93	16.74
	RW-15	11.94	12.04	39.07
	These features only gauged once a month			
	RS-02	5.9	5.91	19.42
	RS-04	—	7.58	9.98
	RS-06	—	8.17	23.79
	RS-07	—	11.91	15.68
	RS-08	—	12.62	19.03
	RS-09	—	5.96	17.27
	RS-10	5.84	5.89	20.04
	RS-11	—	6.84	17.25
	RS-12	—	7.21	20.19
	RS-13	—	2.95	17.60
☆	RS-14	3.29	3.29	19.14
	RS-15	—	3.58	17.33
	RS-16	—	3.03	18.60
	RS-17	—	2.37	18.97
	RS-18	—	5.05	19.30
	RS-19		damaged	
	RS-20			
	RW-01	—	12.80	20.77
	RW-03	—	21.71	34.46
	RW-08	—	15.40	34.33
☆☆	RW-10	—	~9	~62
	RW-13			~41.3
☆	RW-14	10.60	10.60	45 ~~41.3~~
	[redacted]			

This column only gauged once per month

Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
[redacted]			
MW-31B	—	18.61	71.4
[redacted]			
MW-33	—	23.89	28.31
[redacted]			

This column only gauged once per month

	Well ID	Depth to LNAPL* (ft BTOC)	Depth to Water (ft BTOC)	Total Depth (if requested)
	[redacted]			
	TW-04R	—	2.68	5.25
☆☆☆☆	TW-05R	COULD	NOT	OPEN
	TW-14R	—	3.45	5.0
	TW-15R	—	1.25	1.95
	TW-21	—	0.54	9.60
	TW-28	21.45	21.87	28.41
	TW-30	—	20.16	23.22
	TW-34	—	22.19	22.25
	TW-35	—	22.68	22.77
	TW-40	—	28.13	31.52
☆☆☆	TW-41	—	25.47	31.90
	TW-42	24.11	24.71	27.53
	TW-45	25.93	25.96	34.07
	TW-46		damaged	
	[redacted]	—	19.96	42.50
	TW-65			
	[redacted]			
	TW-68	—	22.18	26.80
	TW-69	—	12.11	49.50
	TW-70	—	16.41	42.42
	[redacted]			
	TW-76	—	12.51	40.31
	TW-81	—	0.60	6.23
	TW-82	—	0.35	9.31
	TW-83	—	0.97	15.00
	TW-84	—	2.05	12.71
	TW-85	COULD NOT	ACCESS (ANT	HILL)
	TW-86	—	3.51	5.63
	TW-87	—	2.58	6.82
	TW-90	—	0.0	45.0
	TW-94	—	0.0	39.50
	[redacted]			
	SW-02	—	~~SWF~~ 1.68	DO=9.58
	[redacted]			
	SW-05	DRY	DRY	DRY
	SW-08	—	1.08	DO=9.16
	SW-10	—	0.84	DO=9.53
	[redacted]			DO=10.85

= locations with skimmers

= locations with socks

Red ID needs DO measurement

*gauging not needed, only DO

☆ DETECTED POCKET OF PRODUCT

☆☆ WELL BUBBLING OVER CASING

Prepared by Powell, Scott/ATL 3/4/2018

☆☆☆☆ MISSING MASTER LOCK KEY FOR WELL CAP

ch2m

PROJECT NUMBER	WELL NUMBER
684910.ID.RA.ST	MW-21
	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number: MW-21	Site: Lewis Drive Site, Belton, SC
Field Crew: J. McCann, J. Hansen	Date: 4/16/17
Well Depth (ft): 20.73	Purge
DTW (ft): 18.17	Methodology: low flow
Water Column (ft): 2.56	
Well Diameter (in): 2	
Gal. Per ft: 0.163	
Well volume (gal): 0.417	
Depth of Screen (ft): 10-20	

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number:

Pump type (please circle): (Peristaltic) Bladder

Pump serial number:

PID reading: opening well | after venting, if initially high | middle of sampling | closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
1523	18.40	~~350~~ 300	0	4.78	18.32	0.029	244.4	7.54	9.0	clear
1528	18.44	250	0.3	4.71	18.48	0.018	259.6	7.48	0.0	clear
1533	18.44	250	0.6	4.61	18.66	0.017	269.9	7.35	0.0	clear
1538	18.44	250	0.9	4.56	18.51	0.017	268.6	7.33	5.6	clear
1543	18.44	250	1.2	4.61	18.66	0.017	262.6	7.47	3.1	clear

Remarks:

SAMPLING INFORMATION:

Depth to Water Before Sampling: 18.44' btoc — Depth sample was acquired: 20' btoc

Sample Methodology: straw method

Sample Date/Time: 4/16/17

Signed Sampler: Justine McCann

Filtered Metals Collected: Y / (N) — Filter Size: N/A

Sample Observations: Clear

Parameters (please circle): (VOCs) SVOCs Dissolved Metals Other:

ch2m.

PROJECT NUMBER	WELL NUMBER
MW-30	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number: MW-30
Field Crew: J. McCann & M. Warren
Well Depth (ft): 13.66
DTW (ft): 12.53
Water Column (ft): 0.86
Well Diameter (in): 2
Gal. Per ft: 0.163
Well volume (gal): 0.14
Depth of Screen (ft): 5-15

Purge
Methodology: low flow

Site: Lewis Drive Site, Belton, SC
Date: 5/3/17

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number:
Pump type (please circle): (Peristaltic) Bladder
Pump serial number:

PID reading: opening well; after venting, if initially high; middle of sampling; closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond (mS/cm)	ORP (mV)	D.O. [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc,	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
1604	dry	250	0.0	5.82	18.89	0.048	111.4	3.62	61.4	reddish brown

Remarks: will allow recharge and sample tomorrow

SAMPLING INFORMATION:

Depth to Water Before Sampling: Depth sample was acquired:
Sample Methodology: straw method
Sample Date/Time:
Signed Sampler:
Filtered Metals Collected Y / N Filter Size:
Sample Observations:
Parameters (please circle): VOCs SVOCs Dissolved Metals Other:

ch2m.

PROJECT NUMBER	WELL NUMBER
684910	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number: MW-06
Field Crew: J. MCCANN, M. WARREN, M. SUMNER
Well Depth (ft): 19.10
DTW (ft): 14.91
Water Column (ft): ~~4.18~~ 4.18
Well Diameter (in): 2
Gal. Per ft: 0.163
Well volume (gal): 0.683
Depth of Screen (ft):
PID reading:

Site: Lewis Drive Site, Belton, SC
Date: 06/29/17
Purge
Methodology: low flow

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
(2")	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number:
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 031271

PID reading: opening well 0.8 after venting, if initially high middle of sampling 0.4 closing well

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
	Field Parameters									
Stabilization	<0.33' or 4" & <5% of wc_i	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
~~1401~~	16.14		0.2	5.44	20.31	0.027	33.9	7.25	1284.1	SILT RED
1406	15.78		0.4	4.32	18.52	0.023	110.3	7.22	20.4	SILT CLOUDY
1411	15.96		~~0.6~~ 0.7	4.06	18.62	0.020	144.9	7.70	209	CLOUDY
1416	15.89		1.0	3.96	18.04	0.020	162.6	7.68	110.0	CLOUDY

Remarks:

SAMPLING INFORMATION:

Depth to Water Before Sampling: Depth sample was acquired:
Sample Methodology:
Sample Date/Time:
Signed Sampler:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters (please circle): VOCs SVOCs Dissolved Metals Other:

ch2m.

PROJECT NUMBER	684910	WELL NUMBER
		SHEET OF

LOW FLOW SAMPLING LOG

Well Number: MW-07
Field Crew: J. MCCANN, M. WARREN, M. SUMNER
Well Depth (ft): 13.58
DTW (ft): 12.76
Water Column (ft): 0.82
Well Diameter (in): 2
Gal. Per ft: 0.163
Well volume (gal): 0.133
Depth of Screen (ft):
PID reading: opening well 13.7 after venting, if initially high middle of sampling 1.1 closing well

Purge
Methodology: low flow

Site: Lewis Drive Site, Belton, SC
Date: 06/29/17

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
(2")	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number:
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 031271

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	DO [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
1041	DRY			5.03	25.77	0.000	104.5	3.07	869.7	SILT

Remarks: WELL WENT DRY AT 1041

SAMPLING INFORMATION:

Depth to Water Before Sampling: Depth sample was acquired:
Sample Methodology:
Sample Date/Time:
Signed Sampler:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters (please circle): VOCs SVOCs Dissolved Metals Other:

ch2m.

PROJECT NUMBER 684910

WELL NUMBER

SHEET OF

LOW FLOW SAMPLING LOG

Well Number: MW-13
Field Crew: J. MCCANN, M. WARREN, M. SUMNER
Well Depth (ft): 22.15
DTW (ft): 20.88
Water Column (ft): 1.27
Well Diameter (in): 2
Gal. Per ft: 0.163
Well volume (gal): 0.207
Depth of Screen (ft):

Purge
Methodology: low flow

Site: Lewis Drive Site, Belton, SC
Date: 06/29/17

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
(2")	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number:
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 031271

PID reading: opening well 0.0 after venting, if initially high middle of sampling closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond (mS/cm)	ORP (mV)	D.O. [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
0931				5.46	24.55	0.000	71.0	8.47	-1.0	CLOUDY

Remarks: YSI STOPPED WORKING. AND WELL WENT DRY AT 0932.

SAMPLING INFORMATION:

Depth to Water Before Sampling: Depth sample was acquired:
Sample Methodology:
Sample Date/Time:
Signed Sampler:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters (please circle): VOCs SVOCs Dissolved Metals Other:

ch2m·

PROJECT NUMBER	WELL NUMBER
684910	SHEET OF

LOW FLOW SAMPLING LOG

Well Number: MW-19
Field Crew: J. McCANN, M. WARREN, M. SUMNER
Well Depth (ft): 12.12 Purge
DTW (ft): 10.42 Methodology: low flow
Water Column (ft):
Well Diameter (in): 0.163 2"
Gal. Per ft: 0.163
Well volume (gal): 0.28
Depth of Screen (ft):

Site: Lewis Drive Site, Belton, SC
Date:

Diameter	Gal Per Foot	Diameter	Gal Per Foot
(2")	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number:
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 031271

PID reading: opening well 375.2 after venting, if initially high 56.8 middle of sampling 0.0 closing well 0.0

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc,	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
0830	7.61		0.0	5.18	19.47	0.106	60.8	4.54	78.2	LIGHT CLOUDY

Remarks: WELL WENT DRY AT 0832. APPX. 0.2 GALLONS PURGED

SAMPLING INFORMATION:

Depth to Water Before Sampling: Depth sample was acquired:
Sample Methodology:
Sample Date/Time:
Signed Sampler:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters (please circle): VOCs SVOCs Dissolved Metals Other:

ch2m.

PROJECT NUMBER	WELL NUMBER
684910	SHEET OF

LOW FLOW SAMPLING LOG

Well Number: MW-22
Field Crew: J. MCCANN, M. WARREN, M SUMNER
Well Depth (ft): 10.32
DTW (ft): 9.52
Water Column (ft): 0.8
Well Diameter (in): 2
Gal. Per ft: 0.163
Well volume (gal): 0.13
Depth of Screen (ft):

Purge
Methodology: low flow

Site: Lewis Drive Site, Belton, SC
Date: 06/29/17

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
(2")	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number:
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 031271

PID reading: 0.2 opening well; after venting, if initially high; middle of sampling 0.1 closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond (mS/cm)	ORP (mV)	DO [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
0813	10.18		0.1	5.24	19.75	0.126	63.6	2.45	9.9	CLEAR

Remarks: WELL WENT DRY AT 0816 WITH APPROXIMATELY 0.2 GALLONS PURGED

SAMPLING INFORMATION:

Depth to Water Before Sampling: Depth sample was acquired:
Sample Methodology:
Sample Date/Time:
Signed Sampler:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters (please circle): VOCs SVOCs Dissolved Metals Other:

ch2m.

PROJECT NUMBER	WELL NUMBER
684910 ~~673930.01.GW~~	SHEET OF

LOW FLOW SAMPLING LOG

Well Number: MW-30
Field Crew: J.MCCANN, M.WARREN, M.SUMNER
Well Depth (ft): 14.56
DTW (ft): 12.21
Water Column (ft): 2.35
Well Diameter (in): 2
Gal. Per ft.: 0.163
Well volume (gal): 0.383
Depth of Screen (ft):

Purge
Methodology: low flow

Site: Hunter Rd. Fountain Inn, SC
Date: ~~06~~ 06/29/17

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
(2")	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number:
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 031271

PID reading: opening well: 0.2 after venting, if initially high: middle of sampling: closing well:

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±5%	±10 mV or ±3%	±0.2 mg/L or 10% saturation	±10% or < 10	NA
1027	13.30		0.2	5.77	19.59	0.055	91.9	1.70	66.3	SILTY START

Remarks: WELL WENT DRY AT 1030.

SAMPLING INFORMATION:

Depth to Water Before Sampling: Depth sample was acquired:
Sample Methodology:
Sample Date/Time:
Signed Sampler:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters (please circle): VOCs SVOCs Dissolved Metals Other:

ch2m.

PROJECT NUMBER	WELL NUMBER
684910	SHEET OF

LOW FLOW SAMPLING LOG

Well Number MW-44
Field Crew J. MCCANN, M. WARREN, M. SUMNER
Well Depth (ft) 9.76
DTW (ft) 7.57
Water Column (ft) 2.19
Well Diameter (in) 2"
Gal. Per ft 0.163
Well volume (gal) 0.36
Depth of Screen (ft)
Purge
Methodology low flow

Site Lewis Drive Site Belton SC
Date 06/29/17

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
(2")	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator serial number
Pump type (please circle) (Peristaltic) Bladder
Pump serial number 031271

PID reading opening well 0.0 after venting if initially high middle of sampling 0.0 closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond (mS/cm)	ORP (mV)	DO [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
0848	8.10		0.1	5.83	21.55	0.049	455	5.21	43.6	CLEAR
0853	8.83		0.2	4.89	21.22	0.038	90.6	3.26	-5.2	CLEAR

Remarks WELL WENT DRY AT 0856.

SAMPLING INFORMATION:

Depth to Water Before Sampling Depth sample was acquired
Sample Methodology
Sample Date/Time
Signed Sampler
Filtered Metals Collected Y / N Filter Size
Sample Observations
Parameters (please circle) VOCs SVOCs Dissolved Metals Other

ch2m.

PROJECT NUMBER	WELL NUMBER
684910	SHEET OF

LOW FLOW SAMPLING LOG

Well Number: MW-45
Field Crew: J. MCANN, M. WARREN, M. SUMNER
Well Depth (ft): 14.42
DTW (ft): 13.40
Water Column (ft): 1.02
Well Diameter (in): 2
Gal Per ft: 0.163
Well volume (gal): 0.166
Depth of Screen (ft):

Purge
Methodology: low flow

Site: Lewis Drive Site, Belton, SC
Date: 06/29/17

Diameter	Gal Per Foot	Diameter	Gal Per Foot
(2")	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number:
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 031221

PID reading: opening well 0.0 after venting, if initially high: middle of sampling 0.0 closing well:

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond (mS/cm)	ORP (mV)	D.O [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
0910	14.06			5.76	20.23	0.118	72.6	7.21	21.1	CLOUDY

Remarks: WELL WENT DRY AT 0912.

SAMPLING INFORMATION:

Depth to Water Before Sampling: Depth sample was acquired:
Sample Methodology:
Sample Date/Time:
Signed Sampler:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters (please circle): VOCs SVOCs Dissolved Metals Other:

ch2m·

PROJECT NUMBER	WELL NUMBER
684910.DD.MR.GW	MW-30
	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number: MW-30
Field Crew: J. McCann + M. Sumner
Well Depth (ft): ~~14.51~~ 14.51 Purge
DTW (ft): 12.69 Methodology: low flow
Water Column (ft): 1.82
Well Diameter (in): 2
Gal Per ft: 0.163
Well volume (gal): 0.30
Depth of Screen (ft): 4-14'

Site: Lewis Drive Site, Belton, SC
Date: 7/17/17

Diameter	Gal Per Foot	Diameter	Gal Per Foot
2"	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number:
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: A017607

PID reading: opening well; after venting, if initially high; middle of sampling; closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std Units)	Temp (°C)	Cond (mS/cm)	ORP (mV)	DO [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc;	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
1601	dry	300	0.2	7.47	20.47	0.044	68.8	3.52	543.5	

Remarks:

SAMPLING INFORMATION:

Depth to Water Before Sampling: 13.17 Depth sample was acquired: 14'
Sample Methodology: straw method
Sample Date/Time: 7/17/17 1650
Signed Sampler: Kristine McCann
Filtered Metals Collected: Y / (N) Filter Size: N/A
Sample Observations: sandy
Parameters (please circle): (VOCs) SVOCs Dissolved Metals Other:

ch2m·

PROJECT NUMBER 684910.LD-MA.GW

WELL NUMBER MW-45

SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number: MW-45
Field Crew: J. McCann + M. Sumner
Well Depth (ft): 13.555
DTW (ft): 14.41
Water Column (ft): 0.246
Well Diameter (in): 2
Gal Per ft: 0.163
Well volume (gal): 0.14
Depth of Screen (ft): 4-14'

Purge
Methodology: low flow

Site: Lewis Drive Site, Belton, SC
Date: 7/17/17

Diameter	Gal Per Foot	Diameter	Gal Per Foot
2"	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number:
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: A017607

PID reading: opening well; after venting, if initially high; middle of sampling; closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std Units)	Temp (°C)	Cond (mS/cm)	ORP (mV)	DO [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
1637	Dry	200	0.1	5.52	21.30	0.127	73.2	4.30	744	clear

Remarks:

SAMPLING INFORMATION:

Depth to Water Before Sampling: 13.102
Depth sample was acquired: 14'
Sample Methodology: straw method
Sample Date/Time: 7/17/17 1710
Signed Sampler: Christine McCann
Filtered Metals Collected: Y (N) Filter Size: N/A
Sample Observations: clear
Parameters (please circle): (VOCs) SVOCs Dissolved Metals Other:

ch2m

PROJECT NUMBER	WELL NUMBER
684910.LD.RA.ST	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number: MW-22
Field Crew: M. Sumner / M. Tekle
Well Depth (ft): 10.32 — Purge
DTW (ft): 9.98 — Methodology: low flow
Water Column (ft): 0.34
Well Diameter (in): 2"
Gal. Per ft: 0.163
Well volume (gal): 0.05
Depth of Screen (ft):

Site: Lewis Drive Site, Belton, SC
Date: 8/02/17

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
(2")	(0.163)	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number: 037342
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 031273

PID reading: opening well 23.7 after venting, if initially high middle of sampling closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O. (Surface) (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc,	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
0733	- Begin purging and well is dry after filling the flow through cell.									
0735	- Left the tubing in the well to recharge.									
~~1135~~	~~Collected Grab Sample~~ MHS									
1135	no sample, still dry									
1240	no sample, still dry									

Remarks:

SAMPLING INFORMATION:

Depth to Water Before Sampling: Depth sample was acquired:
Sample Methodology: ~~Grab~~ MHS
Sample Date/Time: ~~8/2/17 / 1135~~ MHS
Signed Sampler: ~~MT, MS~~ MHS
Filtered Metals Collected Y (N) MHS Filter Size:
Sample Observations:
Parameters (please circle): (VOCs) MHS SVOCs Dissolved Metals Other:

ch2m

PROJECT NUMBER	WELL NUMBER
684910.LD.RA.ST	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number:	MW-28	Site: Lewis Drive Site, Belton, SC	
Field Crew: M. Sumner / M. Tekle		Date:	
Well Depth (ft):	26.02	Purge	
DTW (ft):	23.04	Methodology: low flow	
Water Column (ft):	2.98		
Well Diameter (in):	2"		
Gal. Per ft:	0.163		
Well volume (gal):	0.48		
Depth of Screen (ft):			

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
(2")	(0.163)	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number: 037342

Pump type (please circle): (Peristaltic) Bladder

Pump serial number: 081273

PID reading: opening well 4.42 after venting, if initially high middle of sampling closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc,	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
0815	24.14	200	0.2	6.12	17.28	0.589	-108.0	1.05	38.3	no color / odor
0820	25.38	200	0.5	6.35	17.30	0.586	-128.	0.77	61.1	no color / odor
0821	well got dry and left the tubing in the well.									
1035	Collected grab Sample.									

Remarks

SAMPLING INFORMATION:

Depth to Water Before Sampling:	Depth sample was acquired:
Sample Methodology:	Grab Sample.
Sample Date/Time:	08/02/17 / 1035
Signed Sampler:	MT, MS
Filtered Metals Collected Y / (N)	Filter Size:
Sample Observations:	NA
Parameters (please circle)	(VOCs) SVOCs Dissolved Metals Other:

ch2m

PROJECT NUMBER	WELL NUMBER
684910.LD.RA.ST	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number: MW-30
Field Crew: M. Sumner / M. Tekle
Well Depth (ft): 14.51
DTW (ft): 13.25
Water Column (ft): 1.26
Well Diameter (in): 2"
Gal. Per ft: 0.163
Well volume (gal): 0.2
Depth of Screen (ft):

Purge
Methodology: low flow

Site: Lewis Drive Site, Belton, SC
Date: 8/02/17

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
(2")	(0.163)	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number: 037342
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 031273

PID reading: opening well 66 after venting, if initially high middle of sampling closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc,	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
0835	14.49	250	0.2	6.8	17.51	0.048	~~78.2~~ (MT)	1.21	75.2	cloudy/odor
0836	well got dry and left the tubing in the well to recharge.									
1105	collected grab sample									

Remarks:

SAMPLING INFORMATION:

Depth to Water Before Sampling: Depth sample was acquired:
Sample Methodology: Grab
Sample Date/Time: 8/2/17 | 1105
Signed Sampler: MT, MS
Filtered Metals Collected: Y / (N) Filter Size:
Sample Observations:
Parameters (please circle): (VOCs) SVOCs Dissolved Metals Other:

ch2m

PROJECT NUMBER	WELL NUMBER
684910.LD.RA.ST	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number: MW-45		Site: Lewis Drive Site, Belton, SC	
Field Crew: M. Sumner / M. Tekle		Date:	
Well Depth (ft): 14.41	Purge	Diameter: 2" — Gal. Per Foot: 0.163	Diameter: 5" — Gal. Per Foot: 1.02
DTW (ft): 13.84	Methodology: low flow	Diameter: 3" — Gal. Per Foot: 0.367	Diameter: 6" — Gal. Per Foot: 1.469
Water Column (ft): 0.57		Diameter: 4" — Gal. Per Foot: 0.653	Diameter: 8" — Gal. Per Foot: 2.611
Well Diameter (in): 2"			
Gal. Per ft: 0.163		Water level indicator, serial number: 037342	
Well volume (gal): 0.09		Pump type (please circle): (Peristaltic) Bladder	
Depth of Screen (ft):		Pump serial number: 031273	

PID reading: opening well 0.1 after venting, if initially high middle of sampling closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond (mS/cm)	ORP (mV)	D.O. [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc,	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
0745	well got dry after filling the flow through cell									
0746	left the tubing in the well to recharge.									
1115	Collected grab sample.									

Remarks:

SAMPLING INFORMATION:

Depth to Water Before Sampling:	Depth sample was acquired:
Sample Methodology: Grab	
Sample Date/Time: 8/2/17 / 1115	
Signed Sampler: MT, MS	
Filtered Metals Collected: Y / (N)	Filter Size:
Sample Observations:	
Parameters (please circle): (VOCs) SVOCs Dissolved Metals Other:	

ch2m.	**PROJECT NUMBER 684910.LD.MR.GW**	**WELL NUMBER MW-27** SHEET **1** OF **1**

LOW FLOW SAMPLING LOG

Well Number: **MW-27**		Site: **Lewis Drive**				
Field Crew: **M. Warren, M. Tramonte, K. Sexton**		Date: **09/07/17**				
Well Depth (ft): **29.51**	Purge	Diameter	Gal. Per Foot	Diameter	Gal. Per Foot	
DTW (ft): 23.52	Methodology: low flow	2"	0.163	5"	1.02	
Water Column (ft): **2.23**		3"	0.367	6"	1.469	
Well Diameter (in): **2**		4"	0.653	8"	2.611	
Gal. Per ft: **0.163**		Water level indicator, serial number:				**37326**
Well volume (gal): **.363**		Pump type (please circle):		**Peristaltic**	Bladder	
Depth of Screen (ft):		Pump serial number:				**19914**

PID reading:	**0**	opening well	**0**	after venting, if initially high	**0**	middle of sampling	**0**	closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface]	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc_i	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
1524	27.5	200	0.1	6.55	19.85	0.164	-9.6	1.22	-8.1	
1530	29.72	250	0.2	5.62	19.23	1.48	22	0.69	0	
1535	29.72	200	0.3	5.38	19.25	1.54	25.9	0.54	36.6	
1540	29.72	200	0.4	5.38	19.58	1.55	23.4	0.47	18	

Remarks: Air bubbles began during purging of 4th reading. Sample will be collected tomorrow morning after recharge.

SAMPLING INFORMATION:

Depth to Water Before Sampling:		Depth sample was acquired:	
Sample Methodology:			
Sample Date/Time:			
Signed Sampler:			
Filtered Metals Collected: Y / N	Filter Size:		
Sample Observations:			

Parameters (please circle):		VOCs		SVOCs	Dissolved Metals	Other:	

ch2m.	**PROJECT NUMBER 684910.LD.MR.GW**	**WELL NUMBER MW-28** SHEET **1** OF **1**

LOW FLOW SAMPLING LOG

Well Number: **MW-28**				Site: Lewis Drive					
Field Crew: M. Warren, M. Tramonte, K. Sexton				Date: **09/07/17**					
Well Depth (ft): **25.93**	Purge			Diameter	Gal. Per Foot		Diameter	Gal. Per Foot	
DTW (ft): **23.52**	Methodology: low flow			2"	0.163		5"	1.02	
Water Column (ft): **2.41**				3"	0.367		6"	1.469	
Well Diameter (in): **2**				4"	0.653		8"	2.611	
Gal. Per ft: **1.63**				Water level indicator, serial number:					**37326**
Well volume (gal): **3.92**				Pump type (please circle):			**Peristaltic**	Bladder	
Depth of Screen (ft):				Pump serial number:					**19914**
PID reading: **15,000**	opening well	**15,000**	after venting, if initially high		**15,000**	middle of sampling		**200**	closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface]	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc_i	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
1024	23.54	200	0.2	6.27	17.92	1.642	0	0.92	22.5	Strong degraded product odo
1029	25.11	200	0.2	6.35	17.23	0.683	0	1.11	22.4	
1033	Dry									

Remarks: Well was dry before third measurement

SAMPLING INFORMATION:

Depth to Water Before Sampling:			Depth sample was acquired:		
Sample Methodology:					
Sample Date/Time:					
Signed Sampler:					
Filtered Metals Collected: Y / N		Filter Size:			
Sample Observations:					
Parameters (please circle):		VOCs	SVOCs	Dissolved Metals	Other:

ch2m.

PROJECT NUMBER	WELL NUMBER
684910 LD MR GW	SHEET OF

LOW FLOW SAMPLING LOG

Well Number: MW-28
Field Crew: M. WARREN, K. SEXTON
Well Depth (ft): 25.90
DTW (ft): 23.78
Water Column (ft): 2.12
Well Diameter (in): 2"
Gal Per ft: 0.163
Well volume (gal): 0.346
Depth of Screen (ft):
Purge Methodology: low flow

Site: Lewis Drive Site, Belton, SC
Date: 11/02/17

Diameter	Gal Per Foot	Diameter	Gal Per Foot
2"	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator serial number: 2884184/033341
Pump type (please circle): Peristaltic / Bladder
Pump serial number: 24461/024461

PID reading: opening well 215,000 after venting, if initially high 326.5 middle of sampling: closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std Units)	Temp (°C)	Cond (mS/cm)	ORP (mV)	DO [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
0535 ~~0526~~	23.8	100	0.01							

Remarks: PUMPING OF MW-28 DID NOT CONTINUE PAST ORIGINAL START TIME OF 0535. TEAM CONTINUED PUMPING FOR AN ADDITIONAL 10 MINUTES. W/ NO SUCCESS. TEAM BAILED MW-28 INSTEAD

SAMPLING INFORMATION:

Depth to Water Before Sampling: Depth sample was acquired:
Sample Methodology:
Sample Date/Time:
Signed Sampler:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters (please circle): VOCs SVOCs Dissolved Metals Other:

ch2m·

PROJECT NUMBER	WELL NUMBER
684910.LD.MR.GW	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number: MW-28
Field Crew: M. WARREN, K. SEATON, Z. WARD
Well Depth (ft): 26.18 Purge
DTW (ft) 23.94 Methodology: low flow
Water Column (ft): 2.24
Well Diameter (in): 2"
Gal. Per ft: 0.163
Well volume (gal): 0.365
Depth of Screen (ft):

Site: Lewis Drive Site, Belton, SC
Date: 12/4/17

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
(2")	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number: SOLINST 122 # 0370L2
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 13217

PID reading: opening well 311.2 after venting, if initially high 157 middle of sampling 47.2 closing well 7.4

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc,	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
0904	24.52	100	0.0	6.49	15.5	0.776	Ø	3.7	22628	STRAW YELLOW
0907	24.92	200	0.1	6.47	15.7	0.782	Ø	1.4	19227	STRAW
0910	25.11	200	0.12	6.63	15.4	0.776	Ø	1.0	16457	STRAW
0913										

Remarks: PID READING STEADILY ROSE FROM 142 TO 311.2 OVER 5 MINS, WELL STOPPED PUMPING WATER WHEN DTW = 25.13 BAILED WATER UNTIL DTW = 25.91

SAMPLING INFORMATION:

Depth to Water Before Sampling: Ø Depth sample was acquired:
Sample Methodology:
Sample Date/Time:
Signed Sampler:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters (please circle): VOCs SVOCs Dissolved Metals Other:

ch2m

PROJECT NUMBER	WELL NUMBER
684910.LD.MR.GW	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number: MW-03
Field Crew: M. WARREN, K. SEXTON, Z. WARD
Well Depth (ft): 19.97
DTW (ft): 4.00
Water Column (ft): 15.97
Well Diameter (in): 2"
Gal. Per ft: ~~1.63~~ 0.163
Well volume (gal): 2.60
Depth of Screen (ft):

Purge Methodology: low flow

Site: Lewis Drive Site, Belton, SC
Date: 12/5/17

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number: 03734
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 13217

PID reading: 0.1 opening well: 0.1 after venting, if initially high: middle of sampling: 0.1 closing well: 0.1

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
1308	4.00	80	0	6.67	16.8	0.047	211.2	10.2	43272	STRAW COLOR/NO ODOR
1312	6.00	125	1/8	6.41	16.5	0.048	209.6	11.0	24863	↓
1316	11.00	125	1/2	6.24	16.4	0.046	207.1	11.0	23742	
1320	11.00	125	1	6.20	16.4	0.045	207.8	11.1	25732	
1324	11.00	125	1.5	6.06	16.4	0.044	211.1	11.0	23427	
1328	12.00	125	1.9	5.97	16.5	0.043	213.3	10.9	23687	
1332	12.50	125	2.5	5.86	16.5	0.042	216.0	11.0	22468	
1336	12.50	125	2.95	5.84	16.6	0.042	212.7	10.9	23427	↓
1339	12.80	125	3.2	5.82	16.6	0.041	213.6	10.9	23542	

Remarks: MW-03 IS BUBBLING OVER TOP OF WELL. ALL DTW LEVELS ARE AN ESTIMATE. TURBIDITY IS FLUCTUATING HEAVILY, POSSIBLY DUE TO INTERMITTENT ARE BUBBLES IN THE LINE DUE TO SPARGING.

SAMPLING INFORMATION:

Depth to Water Before Sampling: ~~19.97~~ ~ 4.00 ft (SEE REMARKS) Depth sample was acquired: 19.00 ft
Sample Methodology: STRAW METHOD
Sample Date/Time: 12/5/17 @ 1330
Signed Sampler: [signature]
Filtered Metals Collected: Y / (N) Filter Size:
Sample Observations:
Parameters (please circle): (VOCs) SVOCs (Dissolved Metals) Other: ALKALINITY N, S, Fe

ch2m

PROJECT NUMBER	WELL NUMBER
684910 LD MR GW	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number: MW 27
Field Crew: Z Ward, M Warren, K Stalnaker
Well Depth (ft): 29.42
DTW (ft): 27.46
Water Column (ft): 2.01
Well Diameter (in): 2
Gal Per ft: 0.163
Well volume (gal): 0.326
Depth of Screen (ft)

Purge
Methodology: low flow

Site: Lewis Drive Site, Belton, SC
Date: 12/5/17

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator serial number: 037341
Pump type (please circle): Peristaltic Bladder
Pump serial number: 13217

PID reading: 0.2 opening well: 0.2 after venting, if initially high: middle of sampling: 0.2 closing well: 0.2

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond (mS/cm)	ORP (mV)	DO [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
1452	28.80	100	0.25	5.29	16.8	0.162	27.7	0.3	.5	clear / NA
1456	28.42	100	0.50	5.29	16.8	0.162	27.8	0.2	-2.7	"
1500	28.85	100	0.75	5.33	16.8	0.162	21.9	0.2	-2.5	"
1504	29.05	100	1.0	5.37	16.8	0.166	15.1	0.1	6.6	"

Remarks:

SAMPLING INFORMATION:

Depth to Water Before Sampling: 27.46 Depth sample was acquired: 28.00
Sample Methodology: LOW-FLOW / STRAW METHOD
Sample Date/Time: 12/5/17 @ 1510
Signed Sampler:
Filtered Metals Collected: Y / (N) Filter Size:
Sample Observations:
Parameters (please circle): (VOCs) SVOCs (Dissolved Metals) Other: N, S, Fe, CO_2

ch2m·

PROJECT NUMBER	WELL NUMBER
684910.LD.MR.GW	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number: MW-28
Field Crew: M. WARREN, K. SEXTON
Well Depth (ft): 26.10
DTW (ft): 24.14
Water Column (ft): 1.96
Well Diameter (in): 2"
Gal. Per ft: 0.163
Well volume (gal): 0.319
Depth of Screen (ft):

Purge Methodology: low flow

Site: Lewis Drive Site, Belton, SC
Date: 01/08/18

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
(2")	(0.163)	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number:
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 029486

PID reading: 4/00 opening well; after venting, if initially high 18; middle of sampling 10; closing well 7

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
1739	25.30	100	0.25	6.83	13.81	Ø	61.4	1.30	360	SULFIT PRODUCT ODOR
1742	25.90	100	0.35	6.85	14.07	Ø	66.3	1.32	21.9	" "
1745										

Remarks:
1744: WELL DRY

SAMPLING INFORMATION:

Depth to Water Before Sampling: Depth sample was acquired:
Sample Methodology:
Sample Date/Time:
Signed Sampler:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters (please circle): VOCs SVOCs Dissolved Metals Other:

ch2m·

PROJECT NUMBER	WELL NUMBER
684910.LD.MR.GW	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number:	MW-28	Site: Lewis Drive Site, Belton, SC	
Field Crew:	M. WARREN, K. SEXTON	Date:	01/08/18
Well Depth (ft):	26.10	Purge Methodology: low flow	
DTW (ft):	24.14		
Water Column (ft):	1.96		
Well Diameter (in):	2"		
Gal. Per ft:	0.163		
Well volume (gal):	0.319		
Depth of Screen (ft):			

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
(2")	(0.163)	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number:
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 029486

PID reading: 4/00 opening well; after venting, if initially high 18; middle of sampling 10; closing well 7

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc,	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
1739	25.30	100	0.25	6.83	13.81	Ø	61.4	1.30	36.0	SLIGHT PRODUCT ODOR
1742	25.90	100	0.35	6.85	14.07	Ø	66.3	1.32	21.9	" "
1745										

Remarks:
1744: WELL DRY

SAMPLING INFORMATION:

Depth to Water Before Sampling: 25.77 @ 1615 ON 01/09 Depth sample was acquired:
Sample Methodology: WELL DRY
Sample Date/Time:
Signed Sampler:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters (please circle): VOCs SVOCs Dissolved Metals Other:

ch2m·

PROJECT NUMBER 699858 ~~684910~~.LD.MR.GW

WELL NUMBER

SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number MW 30
Field Crew M. WARREN / M. SEXTON
Well Depth (ft) 14.60
DTW (ft) 13.11
Water Column (ft) 1.49
Well Diameter (in) 2"
Gal Per ft 0.163
Well volume (gal) 0.243
Depth of Screen (ft)

Purge
Methodology low flow

Site Lewis Drive Site, Belton, SC
Date 02/05/18

Diameter	Gal Per Foot	Diameter	Gal Per Foot
2"	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number 24036
Pump type (please circle) (Peristaltic) Bladder
Pump serial number 031576

PID reading 0.0 opening well 0.0 after venting, if initially high 0.0 middle of sampling 0.0 closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	DO [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc,	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
1646	13.70	200	.096	7.01	15.348	0.093	220.5	5.59	29.00	CLEAR
1649	14.47	150	.221	5.88	15.391	0.061	244.5	5.23	37.00	CLEAR
1651	14.60	150	0.243	5.44	15.000	0.056	237.6	5.33	41.00	AIR BUBBLES

Remarks:
AT 1651, AIR BUBBLES BEGAN TO PUMP OUT OF WELL. WELL DRY.

SAMPLING INFORMATION:

Depth to Water Before Sampling: Depth sample was acquired:
Sample Methodology:
Sample Date/Time:
Signed Sampler:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters (please circle): VOCs SVOCs Dissolved Metals Other:

ch2m

PROJECT NUMBER	WELL NUMBER
699858 ~~684910~~.LD.MR.GW	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number:	MW-30	Site: Lewis Drive Site, Belton, SC	
Field Crew:	M. WARREN / H. SEXTON	Date: 02/05/18	
Well Depth (ft):	14.60	Purge	
DTW (ft):	13.11	Methodology: low flow	
Water Column (ft):	1.49		
Well Diameter (in):	2"		
Gal. Per ft:	0.163		
Well volume (gal):	0.243		
Depth of Screen (ft):	—		

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number: 24036

Pump type (please circle): (Peristaltic) Bladder

Pump serial number: 031576

PID reading: 0.0 opening well 0.0 after venting, if initially high 0.0 middle of sampling 0.0 closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
1646	13.70	200	.096	7.01	15.348	0.093	220.5	5.59	29.00	CLEAR
1649	14.47	150	.221	5.88	15.391	0.061	244.5	5.23	37.00	CLEAR
1651	14.60	150	0.243	5.44	15.000	0.036	237.6	5.33	41.00	AIR BUBBLES

Remarks:

AT 1651, AIR BUBBLES BEGAN TO PUMP OUT OF WELL. WELL DRY.

SAMPLING INFORMATION:

Depth to Water Before Sampling:	12.91
Depth sample was acquired:	14.00
Sample Methodology:	STRAW METHOD
Sample Date/Time:	02/06/18 1200
Signed Sampler:	Melissa Warren
Filtered Metals Collected:	Y (N)
Filter Size:	N/A
Sample Observations:	CLEAR
Parameters (please circle):	(VOCs) SVOCs Dissolved Metals Other:

ch2m.

PROJECT NUMBER	WELL NUMBER
699858.LD.MR.GW	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number: MW-13
Field Crew: M. WARREN, K. SEATON
Well Depth (ft): 22.20
DTW (ft): 20.40
Water Column (ft): 1.8
Well Diameter (in): 2"
Gal. Per ft: 0.163
Well volume (gal): 0.293
Depth of Screen (ft):

Purge
Methodology: low flow

Site: LEWIS DRIVE
Date: 03/06/18

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
(2")	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number: 037342
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 19076

PID reading: opening well 77.0 after venting, if initially high 16.3 middle of sampling 8.4 closing well 0.1

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc.	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
0954	20.51	200	0.25	5.93	14.75	0.146	40.4	2.48	8.38	CLEAR
0957	20.83	200	0.4	5.74	16.04	0.128	49.5	0.76	505	" "
1000	20.98	200	0.5	5.74	16.05	0.129	48.2	0.66	70.1	" "
1003	21.4	150	0.7	5.73	16.03	0.124	51.4	0.52	20.16	" "
1006	21.66	150	0.9	5.63	15.98	0.094	70.6	0.49	54.91	" "
1009	22.0	150	1.1	5.41	16.02	0.072	101.0	0.47	27.11	" "

Remarks: TEAM PURGED 3 WELL VOLUMES BEFORE SAMPLING

SAMPLING INFORMATION:

Depth to Water Before Sampling: 22.0
Depth sample was acquired: 22.1
Sample Methodology: STRAW METHOD
Sample Date/Time: 03/06/18 @ 1015
Signed Sampler:
Filtered Metals Collected: Y / (N)
Filter Size: —
Sample Observations: CLEAR / NO ODOR
Parameters (please circle): (VOCs) SVOCs Dissolved Metals Other:

ch2m.

PROJECT NUMBER	WELL NUMBER
699858.LD.MR.GW	SHEET 1 OF 1

LOW FLOW SAMPLING LOG

Well Number: MW-22
Field Crew: M. WARREN, K. SEXTON
Well Depth (ft): 10.33
DTW (ft): 8.05
Water Column (ft): 2.28
Well Diameter (in): 2"
Gal. Per ft: 0.163
Well volume (gal): 0.371
Depth of Screen (ft): —

Purge Methodology: low flow

Site: LEWIS DRIVE
Date: 03/06/18

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number: 037342
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 19076

PID reading: opening well 0.1 after venting, if initially high 0.0 middle of sampling 0.0 closing well 0.0

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc,	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
0900	7.90	200	~~0.25~~ 0.175	6.22	17.06	0.167	45.5	2.11	7.88	SLIGHT PRODUCT ODOR
0903	8.45	100	0.25	5.72	16.89	0.163	36.6	2.62	9.55	"
0906	8.65	~~150~~ 100	0.38	5.63	17.18	0.167	20.6	1.18	11.84	" "
0910	8.82	150	0.6	5.6	17.09	0.161	9.9	1.68	13.51	" "
0913	8.92	150	0.8	5.66	17.17	0.161	-10.9	1.34	9.82	" "
0916	9.06	150	1.0	5.66	17.20	0.163	-26.6	0.63	9.72	" "
0919	9.18	150	1.2	5.68	17.39	0.165	-36.4	0.54	7.56	" "

Remarks: PURGED 3 WELL VOLUMES BEFORE COLLECTING SAMPLE

SAMPLING INFORMATION:

Depth to Water Before Sampling: 9.20 Depth sample was acquired: 09.50
Sample Methodology: STRAW METHOD
Sample Date/Time: 03/06/18 @ 0925
Signed Sampler:
Filtered Metals Collected: Y / (N) Filter Size: —
Sample Observations: SULFUR/PRODUCT SMELL, CLEAR WATER
Parameters (please circle): (VOCs) SVOCs Dissolved Metals Other:

ch2m·

PROJECT NUMBER	WELL NUMBER
699858. LD. MR. GW	SHEET OF

LOW FLOW SAMPLING LOG

Well Number: MW-45
Field Crew: M. WARREN, K. SEXTON
Well Depth (ft): 14.50
DTW (ft): 12.31
Water Column (ft): 2.19
Well Diameter (in):
Gal. Per ft: .163
Well volume (gal): 2.19 x 3 = 1.07
Depth of Screen (ft):

Purge Methodology: low flow

Site: LEWIS DRIVE
Date: 03/06/18

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number: 037342
Pump type (please circle): (Peristaltic) Bladder
Pump serial number: 19076

PID reading: 0.8 opening well; after venting, if initially high; middle of sampling; closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
1256	12.35	200 ml/min	.25	5.39	15.111	.083	166.1	2.39	8.54	
1302	12.72		.50	5.30	15.765	.076	136.8	1.67	6.36	
1305	12.78		.75	5.29	15.862	.078	133.1	1.64	8.02	
1308	12.81		.90	5.28	15.872	.074	131.9	1.63	5.21	
1311	12.88		1.10	5.26	15.763	.071	134.0	1.62	4.87	

Remarks:
3 W.V.

SAMPLING INFORMATION:

Depth to Water Before Sampling: 12.88
Depth sample was acquired: 12.90
Sample Methodology: low-flow
Sample Date/Time: 3/6/18 1315
Signed Sampler:
Filtered Metals Collected: Y / (N) Filter Size:
Sample Observations:
Parameters (please circle): (VOCs) SVOCs Dissolved Metals Other:

ch2m.

PROJECT NUMBER	WELL NUMBER
699858.LD.MR.GW	SHEET OF

LOW FLOW SAMPLING LOG

Well Number	MW-07	Site	LEWIS DRIVE
Field Crew	M. WARREN, K. SEXTON	Date	03/06/18
Well Depth (ft)	13.57	Purge	
DTW (ft)	11.77	Methodology	low flow
Water Column (ft)	1.8		
Well Diameter (in)	2		
Gal. Per ft	0.163		
Well volume (gal)	0.293 × 3 = .88		
Depth of Screen (ft)			

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number: 037342

Pump type (please circle): (Peristaltic) Bladder

Pump serial number: 19076

PID reading: 132 opening well; after venting, if initially high; middle of sampling; closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (°C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
1035	11.69	300	0	5.34	15.070	0.043	121.6	3.60	15.20	clear/0.1 smell
1038	12.33	200	0.49	5.31	15.163	0.042	135.1	3.70	14.31	"
1041	12.61	200	0.80	5.19	14.873	0.041	171.7	3.61	9.46	"
1044	12.81	200	0.35	5.17	14.872	0.041	184.0	3.69	9.21	"
1047	13.05	200	1.10	5.16	14.806	0.041	196.0	3.93	11.79	"
1050	13.57	200	0.75	5.18	14.871	0.041	209.6	4.06	34.87	"

Remarks:

Purged 3 well volumes for sampling.
WELL WENT DRY BEFORE SAMPLE COULD BE COLLECTED

SAMPLING INFORMATION:

Depth to Water Before Sampling: ~~13.70~~	Depth sample was acquired: ~~13.40~~
Sample Methodology: ~~stand out bail~~	
Sample Date/Time: ~~3/6/18 1100~~	
Signed Sampler:	
Filtered Metals Collected: Y / (N)	Filter Size:
Sample Observations:	
Parameters (please circle): (VOCs) SVOCs Dissolved Metals Other:	

ch2m·

PROJECT NUMBER	WELL NUMBER SHEET 1 OF

LOW FLOW SAMPLING LOG

Well Number MW-29
Field Crew K. Sexton, Z. Ward
Well Depth (ft) 14.90
DTW (ft) 3.17
Water Column (ft) 11.73
Well Diameter (in) 2
Gal Per ft .163
Well volume (gal) 1.91
Depth of Screen (ft)

Purge
Methodology low flow

Site Lewis Drive
Date 3-7-18

Diameter	Gal Per Foot	Diameter	Gal Per Foot
2"	0.163	5"	1.02
3"	0.367	6"	1.469
4"	0.653	8"	2.611

Water level indicator, serial number Solinst - 031342
Pump type (please circle) ~~Bennett~~ - 19076 Peristaltic Bladder
Pump serial number

PID reading opening well 0 after venting, if initially high 0 middle of sampling 0 closing well

Field Parameters

Time	DTW (toc)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std Units)	Temp (°C)	Cond (mS/cm)	ORP (mV)	D.O [Surface] (mg/L)	Turbidity (NTU)	Color/Odor
Stabilization	<0.33' or 4" & <5% of wc	100-500	NA	±0.1 SU	±1°C	±10%	±10 mV	±10%	±10% or < 10	NA
0825	3.17	300								start
0828	3.43	300	.5	4.4	11.76	.255	324	7.62	5.7	
0831	3.45	200	.7	4.42	11.76	.262	336	7.64	5.4	
0834	3.53	200	.85	4.46	11.76	.257	351	7.63	5.6	
0840	3.62	200	1.20	4.47	11.74	.253	371	7.58	6.3	
0845	3.65	200	1.5	4.47	11.94	.254	380	7.59	6.2	
0850	3.71	200	1.75	4.48	11.99	.253	385	7.58	6.2	
0855	3.74	200	2.0	4.49	12.0	.250	387	7.58	6.2	sample collected

Remarks

WELL REACHED STABLE PARAMETERS BEFORE SAMPLE WAS COLLECTED

SAMPLING INFORMATION:

Depth to Water Before Sampling ~~3.17~~ 3.74 Depth sample was acquired 14'
Sample Methodology grab
Sample Date/Time 3.7.18, 0855
Signed Sampler KS
Filtered Metals Collected Y / N Filter Size —
Sample Observations —
Parameters (please circle) VOCs SVOCs Dissolved Metals Other

Nitrate, Sulfate, Alk, CO_2, Meth.

Appendix B
Surface Water Analytical Laboratory Reports

ANALYTICAL REPORT

January 15, 2018

CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group:	L962268
Samples Received:	01/10/2018
Project Number:	699858,LD. MR. SW
Description:	Lewis Drive Surface Water
Site:	LEWIS DR.
Report To:	Bethany Garvey 6600 Peachtree Dunwoody Road 400 Embassy Row - Suite 600 Atlanta, GA 30328

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

SW11-010918 L962268-01 GW

Collected by: M. Warren | Collected date/time: 01/09/18 14:10 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 03:57	01/11/18 03:57	JHH

SW10-010918 L962268-02 GW

Collected by: M. Warren | Collected date/time: 01/09/18 14:20 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 04:13	01/11/18 04:13	JHH

FP01-010918 L962268-03 GW

Collected by: M. Warren | Collected date/time: 01/09/18 14:25 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 04:30	01/11/18 04:30	JHH

FP02-010918 L962268-04 GW

Collected by: M. Warren | Collected date/time: 01/09/18 14:30 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 04:47	01/11/18 04:47	JHH

SW09-010918 L962268-05 GW

Collected by: M. Warren | Collected date/time: 01/09/18 14:35 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 05:04	01/11/18 05:04	JHH

SW08-010918 L962268-06 GW

Collected by: M. Warren | Collected date/time: 01/09/18 14:50 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 05:20	01/11/18 05:20	JHH

SW13-010918 L962268-07 GW

Collected by: M. Warren | Collected date/time: 01/09/18 14:55 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 05:37	01/11/18 05:37	JHH

FP03-010918 L962268-08 GW

Collected by: M. Warren | Collected date/time: 01/09/18 15:10 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 05:53	01/11/18 05:53	JHH

SW04-010918 L962268-09 GW

Collected by: M. Warren | Collected date/time: 01/09/18 15:30 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 06:10	01/11/18 06:10	JHH

SW02-010918 L962268-10 GW

Collected by: M. Warren | Collected date/time: 01/09/18 15:35 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 06:27	01/11/18 06:27	JHH

SW01-010918 L962268-11 GW

Collected by: M. Warren | Collected date/time: 01/09/18 15:40 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 06:44	01/11/18 06:44	JHH

SW07-010918 L962268-12 GW

Collected by: M. Warren | Collected date/time: 01/09/18 15:45 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 07:00	01/11/18 07:00	JHH

SW12-010918 L962268-13 GW

Collected by: M. Warren | Collected date/time: 01/09/18 15:50 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 07:17	01/11/18 07:17	JHH

SW14-010918 L962268-14 GW

Collected by: M. Warren | Collected date/time: 01/09/18 16:15 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 07:34	01/11/18 07:34	JHH

TB01-010918 L962268-15 GW

Collected by: M. Warren | Collected date/time: 01/09/18 16:10 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 03:40	01/11/18 03:40	JHH

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 03:57	WG1061597
Toluene	ND		1.00	1	01/11/2018 03:57	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 03:57	WG1061597
o-Xylene	ND		1.00	1	01/11/2018 03:57	WG1061597
m&p-Xylene	ND		2.00	1	01/11/2018 03:57	WG1061597
Xylenes, Total	ND		3.00	1	01/11/2018 03:57	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 03:57	WG1061597
(S) Toluene-d8	*109*		*80.0-120*		*01/11/2018 03:57*	WG1061597
(S) Dibromofluoromethane	*87.6*		*76.0-123*		*01/11/2018 03:57*	WG1061597
(S) a,a,a-Trifluorotoluene	*98.5*		*80.0-120*		*01/11/2018 03:57*	WG1061597
(S) 4-Bromofluorobenzene	*103*		*80.0-120*		*01/11/2018 03:57*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 04:13	WG1061597
Toluene	ND		1.00	1	01/11/2018 04:13	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 04:13	WG1061597
o-Xylene	ND		1.00	1	01/11/2018 04:13	WG1061597
m&p-Xylene	ND		2.00	1	01/11/2018 04:13	WG1061597
Xylenes, Total	ND		3.00	1	01/11/2018 04:13	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 04:13	WG1061597
(S) Toluene-d8	*107*		*80.0-120*		*01/11/2018 04:13*	WG1061597
(S) Dibromofluoromethane	*89.4*		*76.0-123*		*01/11/2018 04:13*	WG1061597
(S) a,a,a-Trifluorotoluene	*98.5*		*80.0-120*		*01/11/2018 04:13*	WG1061597
(S) 4-Bromofluorobenzene	*103*		*80.0-120*		*01/11/2018 04:13*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 04:30	WG1061597
Toluene	ND		1.00	1	01/11/2018 04:30	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 04:30	WG1061597
o-Xylene	ND		1.00	1	01/11/2018 04:30	WG1061597
m&p-Xylene	ND		2.00	1	01/11/2018 04:30	WG1061597
Xylenes, Total	ND		3.00	1	01/11/2018 04:30	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 04:30	WG1061597
(S) Toluene-d8	*107*		*80.0-120*		*01/11/2018 04:30*	WG1061597
(S) Dibromofluoromethane	*89.5*		*76.0-123*		*01/11/2018 04:30*	WG1061597
(S) a,a,a-Trifluorotoluene	*98.6*		*80.0-120*		*01/11/2018 04:30*	WG1061597
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*01/11/2018 04:30*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 04:47	WG1061597
Toluene	ND		1.00	1	01/11/2018 04:47	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 04:47	WG1061597
o-Xylene	ND		1.00	1	01/11/2018 04:47	WG1061597
m&p-Xylene	ND		2.00	1	01/11/2018 04:47	WG1061597
Xylenes, Total	ND		3.00	1	01/11/2018 04:47	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 04:47	WG1061597
(S) Toluene-d8	*107*		*80.0-120*		*01/11/2018 04:47*	WG1061597
(S) Dibromofluoromethane	*88.5*		*76.0-123*		*01/11/2018 04:47*	WG1061597
(S) a,a,a-Trifluorotoluene	*97.7*		*80.0-120*		*01/11/2018 04:47*	WG1061597
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*01/11/2018 04:47*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 05:04	WG1061597
Toluene	ND		1.00	1	01/11/2018 05:04	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 05:04	WG1061597
o-Xylene	ND		1.00	1	01/11/2018 05:04	WG1061597
m&p-Xylene	ND		2.00	1	01/11/2018 05:04	WG1061597
Xylenes, Total	ND		3.00	1	01/11/2018 05:04	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 05:04	WG1061597
(S) Toluene-d8	*107*		*80.0-120*		*01/11/2018 05:04*	WG1061597
(S) Dibromofluoromethane	*90.6*		*76.0-123*		*01/11/2018 05:04*	WG1061597
(S) a,a,a-Trifluorotoluene	*98.3*		*80.0-120*		*01/11/2018 05:04*	WG1061597
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*01/11/2018 05:04*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	1.16		1.00	1	01/11/2018 05:20	WG1061597
Toluene	ND		1.00	1	01/11/2018 05:20	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 05:20	WG1061597
o-Xylene	1.87		1.00	1	01/11/2018 05:20	WG1061597
m&p-Xylene	ND		2.00	1	01/11/2018 05:20	WG1061597
Xylenes, Total	ND		3.00	1	01/11/2018 05:20	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 05:20	WG1061597
(S) Toluene-d8	*109*		*80.0-120*		*01/11/2018 05:20*	WG1061597
(S) Dibromofluoromethane	*89.4*		*76.0-123*		*01/11/2018 05:20*	WG1061597
(S) a,a,a-Trifluorotoluene	*96.6*		*80.0-120*		*01/11/2018 05:20*	WG1061597
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*01/11/2018 05:20*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 05:37	WG1061597
Toluene	ND		1.00	1	01/11/2018 05:37	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 05:37	WG1061597
o-Xylene	ND		1.00	1	01/11/2018 05:37	WG1061597
m&p-Xylene	ND		2.00	1	01/11/2018 05:37	WG1061597
Xylenes, Total	ND		3.00	1	01/11/2018 05:37	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 05:37	WG1061597
(S) Toluene-d8	*110*		*80.0-120*		*01/11/2018 05:37*	WG1061597
(S) Dibromofluoromethane	*90.5*		*76.0-123*		*01/11/2018 05:37*	WG1061597
(S) a,a,a-Trifluorotoluene	*97.8*		*80.0-120*		*01/11/2018 05:37*	WG1061597
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*01/11/2018 05:37*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 05:53	WG1061597
Toluene	ND		1.00	1	01/11/2018 05:53	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 05:53	WG1061597
o-Xylene	ND		1.00	1	01/11/2018 05:53	WG1061597
m&p-Xylene	ND		2.00	1	01/11/2018 05:53	WG1061597
Xylenes, Total	ND		3.00	1	01/11/2018 05:53	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 05:53	WG1061597
(S) Toluene-d8	*107*		*80.0-120*		*01/11/2018 05:53*	WG1061597
(S) Dibromofluoromethane	*89.9*		*76.0-123*		*01/11/2018 05:53*	WG1061597
(S) a,a,a-Trifluorotoluene	*99.1*		*80.0-120*		*01/11/2018 05:53*	WG1061597
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*01/11/2018 05:53*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 06:10	WG1061597
Toluene	4.09		1.00	1	01/11/2018 06:10	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 06:10	WG1061597
o-Xylene	ND		1.00	1	01/11/2018 06:10	WG1061597
m&p-Xylene	ND		2.00	1	01/11/2018 06:10	WG1061597
Xylenes, Total	ND		3.00	1	01/11/2018 06:10	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 06:10	WG1061597
(S) Toluene-d8	*109*		*80.0-120*		*01/11/2018 06:10*	WG1061597
(S) Dibromofluoromethane	*89.5*		*76.0-123*		*01/11/2018 06:10*	WG1061597
(S) a,a,a-Trifluorotoluene	*97.4*		*80.0-120*		*01/11/2018 06:10*	WG1061597
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*01/11/2018 06:10*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	25.0		1.00	1	01/11/2018 06:27	WG1061597
Toluene	12.4		1.00	1	01/11/2018 06:27	WG1061597
Ethylbenzene	1.56		1.00	1	01/11/2018 06:27	WG1061597
o-Xylene	8.24		1.00	1	01/11/2018 06:27	WG1061597
m&p-Xylene	11.0		2.00	1	01/11/2018 06:27	WG1061597
Xylenes, Total	19.2		3.00	1	01/11/2018 06:27	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 06:27	WG1061597
(S) Toluene-d8	*107*		*80.0-120*		*01/11/2018 06:27*	WG1061597
(S) Dibromofluoromethane	*89.3*		*76.0-123*		*01/11/2018 06:27*	WG1061597
(S) a,a,a-Trifluorotoluene	*97.6*		*80.0-120*		*01/11/2018 06:27*	WG1061597
(S) 4-Bromofluorobenzene	*107*		*80.0-120*		*01/11/2018 06:27*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 06:44	WG1061597
Toluene	ND		1.00	1	01/11/2018 06:44	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 06:44	WG1061597
o-Xylene	1.15		1.00	1	01/11/2018 06:44	WG1061597
m&p-Xylene	ND		2.00	1	01/11/2018 06:44	WG1061597
Xylenes, Total	ND		3.00	1	01/11/2018 06:44	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 06:44	WG1061597
(S) Toluene-d8	*107*		*80.0-120*		*01/11/2018 06:44*	WG1061597
(S) Dibromofluoromethane	*90.7*		*76.0-123*		*01/11/2018 06:44*	WG1061597
(S) a,a,a-Trifluorotoluene	*98.5*		*80.0-120*		*01/11/2018 06:44*	WG1061597
(S) 4-Bromofluorobenzene	*106*		*80.0-120*		*01/11/2018 06:44*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 07:00	WG1061597
Toluene	ND		1.00	1	01/11/2018 07:00	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 07:00	WG1061597
o-Xylene	ND		1.00	1	01/11/2018 07:00	WG1061597
m&p-Xylene	ND		2.00	1	01/11/2018 07:00	WG1061597
Xylenes, Total	ND		3.00	1	01/11/2018 07:00	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 07:00	WG1061597
(S) Toluene-d8	*107*		*80.0-120*		*01/11/2018 07:00*	WG1061597
(S) Dibromofluoromethane	*90.4*		*76.0-123*		*01/11/2018 07:00*	WG1061597
(S) a,a,a-Trifluorotoluene	*97.5*		*80.0-120*		*01/11/2018 07:00*	WG1061597
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*01/11/2018 07:00*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	12.3		1.00	1	01/11/2018 07:17	WG1061597
Toluene	5.65		1.00	1	01/11/2018 07:17	WG1061597
Ethylbenzene	2.16		1.00	1	01/11/2018 07:17	WG1061597
o-Xylene	11.1		1.00	1	01/11/2018 07:17	WG1061597
m&p-Xylene	14.6		2.00	1	01/11/2018 07:17	WG1061597
Xylenes, Total	25.7		3.00	1	01/11/2018 07:17	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 07:17	WG1061597
(S) Toluene-d8	*108*		*80.0-120*		*01/11/2018 07:17*	WG1061597
(S) Dibromofluoromethane	*89.1*		*76.0-123*		*01/11/2018 07:17*	WG1061597
(S) a,a,a-Trifluorotoluene	*99.4*		*80.0-120*		*01/11/2018 07:17*	WG1061597
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*01/11/2018 07:17*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 07:34	WG1061597
Toluene	ND		1.00	1	01/11/2018 07:34	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 07:34	WG1061597
o-Xylene	ND		1.00	1	01/11/2018 07:34	WG1061597
m&p-Xylene	ND		2.00	1	01/11/2018 07:34	WG1061597
Xylenes, Total	ND		3.00	1	01/11/2018 07:34	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 07:34	WG1061597
(S) Toluene-d8	*106*		*80.0-120*		*01/11/2018 07:34*	WG1061597
(S) Dibromofluoromethane	*97.7*		*76.0-123*		*01/11/2018 07:34*	WG1061597
(S) a,a,a-Trifluorotoluene	*96.4*		*80.0-120*		*01/11/2018 07:34*	WG1061597
(S) 4-Bromofluorobenzene	*106*		*80.0-120*		*01/11/2018 07:34*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 03:40	WG1061597
Toluene	ND		1.00	1	01/11/2018 03:40	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 03:40	WG1061597
o-Xylene	ND		1.00	1	01/11/2018 03:40	WG1061597
m&p-Xylene	ND		2.00	1	01/11/2018 03:40	WG1061597
Xylenes, Total	ND		3.00	1	01/11/2018 03:40	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 03:40	WG1061597
(S) Toluene-d8	*107*		*80.0-120*		*01/11/2018 03:40*	WG1061597
(S) Dibromofluoromethane	*88.6*		*76.0-123*		*01/11/2018 03:40*	WG1061597
(S) a,a,a-Trifluorotoluene	*98.6*		*80.0-120*		*01/11/2018 03:40*	WG1061597
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*01/11/2018 03:40*	WG1061597

Method Blank (MB)

(MB) R3278730-2 01/10/18 23:45

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
Ethylbenzene	U		0.384	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
o-Xylene	U		0.341	1.00
m&p-Xylenes	U		0.719	2.00
(S) Toluene-d8	*106*			*80.0-120*
(S) Dibromofluoromethane	*91.5*			*76.0-123*
(S) a,a,a-Trifluorotoluene	*97.2*			*80.0-120*
(S) 4-Bromofluorobenzene	*103*			*80.0-120*

Laboratory Control Sample (LCS)

(LCS) R3278730-1 01/10/18 22:34

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	25.0	21.5	86.0	70.0-130	
Ethylbenzene	25.0	25.8	103	70.0-130	
Naphthalene	25.0	21.3	85.3	70.0-130	
Toluene	25.0	24.2	96.8	70.0-130	
Xylenes, Total	75.0	77.5	103	70.0-130	
o-Xylene	25.0	27.2	109	70.0-130	
m&p-Xylenes	50.0	50.3	101	70.0-130	
(S) Toluene-d8			*106*	*80.0-120*	
(S) Dibromofluoromethane			*89.2*	*76.0-123*	
(S) a,a,a-Trifluorotoluene			*101*	*80.0-120*	
(S) 4-Bromofluorobenzene			*103*	*80.0-120*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

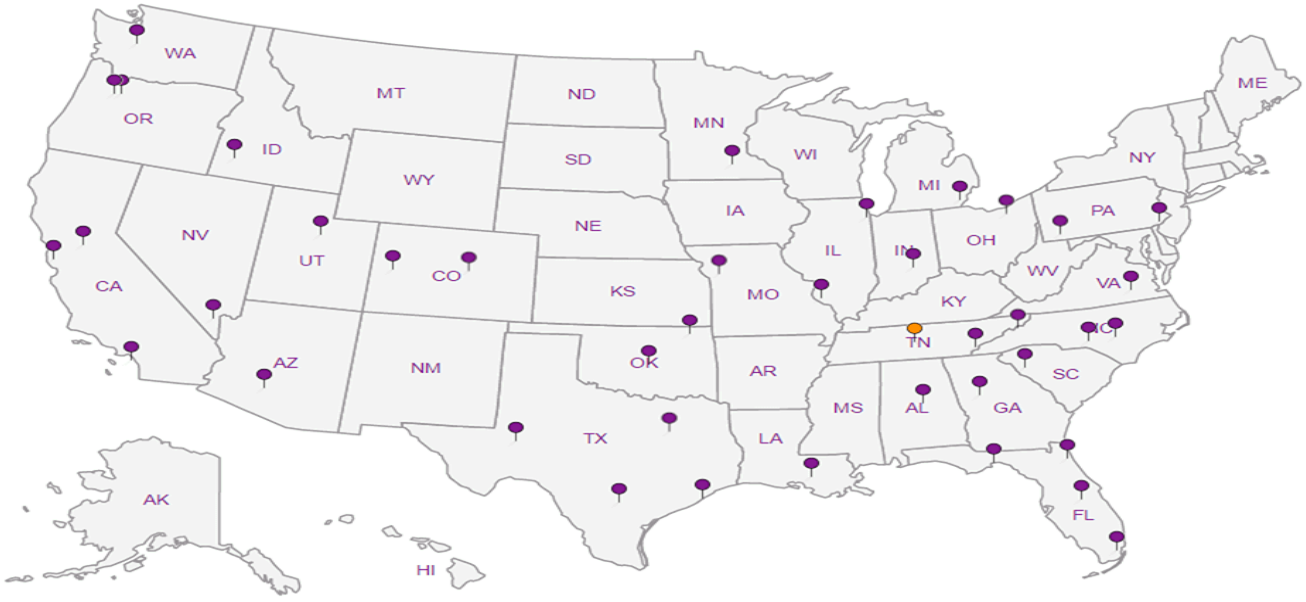
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Surface Water

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 699858.LD.MR.SW

Lab Project # KINCH2MGA-LEWIS

Collected by (print): M. WARREN

Site/Facility ID # LEWIS DR.

P.O. #

Collected by (signature):

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEXNSC 40mlAmb-HCl	V8260BTEXNSC-TB 40mlAmb-HCl-Blk	BTEX	NAPTHALENE							Remarks	Sample # (lab only)
SW11-010918	GRAB	GW	NA	01/09/18	1410	3	X		X	X								-01
SW10-010918		GW			1420	3	X											-02
FD01-010918		GW			1425	3	X											-03
FD02-010918		GW			1430	3	X											-04
SW09-010918		GW			1435	3	X											-05
SW08-010918		GW			1450	3	X											-06
SW13-010918		GW			1455	3	X											-07
FD03-010918		GW			1510	3	X											-08
SW04-010918		GW			1530	3	X											-09
SW02-010918		GW			1535	3	X											-10

Chain of Custody Page 1 of 2

ESC LAB SCIENCES
a subsidiary of Pace Analytical
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 962268
H013

Acctnum: KINCH2MGA
Template: T131321
Prelogin: P634221
TSR: 526 - Chris McCord
PB: 1-3-18

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier _____

Tracking # 4142 5230 2310

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No, HCl / MeOH, TBR	If preservation required by Login: Date/Time
	01/09/18	1745		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.1 °C Bottles Received: 56	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 1-10-18 Time: 845	Hold: Condition: NCF / OK

CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Surface Water

City/State Collected: BELTON SC

Phone: 770-604-9182
Fax:

Client Project # 699858, LD.MR.SW

Lab Project # KINCH2MGA-LEWIS

Collected by (print): M. WARREN

Site/Facility ID # LEWIS DR.

P.O. #

Collected by (signature):

Immediately Packed on Ice N Y

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

No. of Cntrs

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEXNSC 40mlAmb-HCl	V8260BTEXNSC-TB 40mlAmb-HCl-Blk	BTEX	NAPTHALENE							Remarks	Sample # (lab only)
SW01-010918	GRAB	GW	NA	01/09/18	1540	3	X		Y	Y								-11
SW07-010918		GW			545	3	X		Y	Y								-12
SW12-010918		GW			1550	3	X		Y	Y								-13
SW14-010918		GW			1615	3	X		Y	Y								-14
—	—	GW	—	—	—	3	X											
—	—	GW	—	—	—	3	X											
—	—	GW	—	—	—	3	X											
TB01-010918	GRAB	GW	NA	01/09/18	1610	1		X	Y	Y								-15

Chain of Custody Page 2 of 2

ESC LABORATORY SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 962268

Table #

Acctnum: KINCH2MGA

Template: T131321

Prelogin: P634221

TSR: 526 - Chris McCord

PB: 1-3-18G

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ____ Temp ____

Flow ____ Other ____

Samples returned via:
__ UPS X FedEx __ Courier

Tracking # 4142 5230 2310

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	01/09/18	1745	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCl / MeOH
TBR

Temp: 1 °C Bottles Received: 58

Date: 1-10-18 Time: 845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

February 09, 2018

CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group:	L968401
Samples Received:	02/07/2018
Project Number:	699858.LD.MR.SW
Description:	Lewis Drive Surface Water
Site:	LEWIS DRIVE
Report To:	Bethany Garvey 6600 Peachtree Dunwoody Road 400 Embassy Row - Suite 600 Atlanta, GA 30328

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

SW14-020618 L968401-01 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 13:35 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 12:06	02/08/18 12:06	BMB

SW11-020618 L968401-02 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 14:40 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 12:25	02/08/18 12:25	BMB

SW10-020618 L968401-03 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 14:45 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 12:45	02/08/18 12:45	BMB

FP01-020618 L968401-04 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 14:55 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 13:04	02/08/18 13:04	BMB

FP02-020618 L968401-05 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 15:00 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 13:23	02/08/18 13:23	BMB

SW09-020618 L968401-06 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 15:05 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 13:43	02/08/18 13:43	BMB

SW08-020618 L968401-07 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 15:10 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 14:01	02/08/18 14:01	BMB

SW13-020618 L968401-08 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 15:15 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 14:20	02/08/18 14:20	BMB

FP03-020618 L968401-09 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 15:20 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 14:39	02/08/18 14:39	BMB

SW04-020618 L968401-10 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 15:25 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 14:59	02/08/18 14:59	BMB

SW02-020618 L968401-11 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 15:27 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 15:18	02/08/18 15:18	BMB

SW01-020618 L968401-12 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 15:30 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 15:37	02/08/18 15:37	BMB

SW07-020618 L968401-13 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 15:35 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 15:56	02/08/18 15:56	BMB

TB01-020618 L968401-14 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 15:50 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 11:46	02/08/18 11:46	BMB

SW12-020618 L968401-15 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 15:40 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 16:15	02/08/18 16:15	BMB

SW03-020618 L968401-16 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 15:45 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 16:35	02/08/18 16:35	BMB

SW05-020618 L968401-17 GW

Collected by	Collected date/time	Received date/time
Melissa Warren	02/06/18 16:20	02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 16:54	02/08/18 16:54	BMB

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/08/2018 12:06	WG1071291
Toluene	ND		1.00	1	02/08/2018 12:06	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 12:06	WG1071291
o-Xylene	ND		1.00	1	02/08/2018 12:06	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 12:06	WG1071291
Total Xylenes	ND		3.00	1	02/08/2018 12:06	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 12:06	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 12:06	WG1071291
(S) Toluene-d8	*105*		*80.0-120*		*02/08/2018 12:06*	WG1071291
(S) Dibromofluoromethane	*98.1*		*76.0-123*		*02/08/2018 12:06*	WG1071291
(S) 4-Bromofluorobenzene	*99.8*		*80.0-120*		*02/08/2018 12:06*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/08/2018 12:25	WG1071291
Toluene	ND		1.00	1	02/08/2018 12:25	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 12:25	WG1071291
o-Xylene	ND		1.00	1	02/08/2018 12:25	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 12:25	WG1071291
Total Xylenes	ND		3.00	1	02/08/2018 12:25	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 12:25	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 12:25	WG1071291
(S) Toluene-d8	*105*		*80.0-120*		*02/08/2018 12:25*	WG1071291
(S) Dibromofluoromethane	*99.5*		*76.0-123*		*02/08/2018 12:25*	WG1071291
(S) 4-Bromofluorobenzene	*99.1*		*80.0-120*		*02/08/2018 12:25*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/08/2018 12:45	WG1071291
Toluene	ND		1.00	1	02/08/2018 12:45	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 12:45	WG1071291
o-Xylene	ND		1.00	1	02/08/2018 12:45	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 12:45	WG1071291
Total Xylenes	ND		3.00	1	02/08/2018 12:45	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 12:45	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 12:45	WG1071291
(S) Toluene-d8	*107*		*80.0-120*		*02/08/2018 12:45*	WG1071291
(S) Dibromofluoromethane	*99.0*		*76.0-123*		*02/08/2018 12:45*	WG1071291
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*02/08/2018 12:45*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/08/2018 13:04	WG1071291
Toluene	ND		1.00	1	02/08/2018 13:04	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 13:04	WG1071291
o-Xylene	ND		1.00	1	02/08/2018 13:04	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 13:04	WG1071291
Total Xylenes	ND		3.00	1	02/08/2018 13:04	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 13:04	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 13:04	WG1071291
(S) Toluene-d8	*107*		*80.0-120*		*02/08/2018 13:04*	WG1071291
(S) Dibromofluoromethane	*99.1*		*76.0-123*		*02/08/2018 13:04*	WG1071291
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*02/08/2018 13:04*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/08/2018 13:23	WG1071291
Toluene	ND		1.00	1	02/08/2018 13:23	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 13:23	WG1071291
o-Xylene	ND		1.00	1	02/08/2018 13:23	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 13:23	WG1071291
Total Xylenes	ND		3.00	1	02/08/2018 13:23	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 13:23	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 13:23	WG1071291
(S) Toluene-d8	*104*		*80.0-120*		*02/08/2018 13:23*	WG1071291
(S) Dibromofluoromethane	*99.7*		*76.0-123*		*02/08/2018 13:23*	WG1071291
(S) 4-Bromofluorobenzene	*99.2*		*80.0-120*		*02/08/2018 13:23*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/08/2018 13:43	WG1071291
Toluene	ND		1.00	1	02/08/2018 13:43	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 13:43	WG1071291
o-Xylene	ND		1.00	1	02/08/2018 13:43	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 13:43	WG1071291
Total Xylenes	ND		3.00	1	02/08/2018 13:43	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 13:43	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 13:43	WG1071291
(S) Toluene-d8	*106*		*80.0-120*		*02/08/2018 13:43*	WG1071291
(S) Dibromofluoromethane	*97.3*		*76.0-123*		*02/08/2018 13:43*	WG1071291
(S) 4-Bromofluorobenzene	*99.6*		*80.0-120*		*02/08/2018 13:43*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/08/2018 14:01	WG1071291
Toluene	ND		1.00	1	02/08/2018 14:01	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 14:01	WG1071291
o-Xylene	ND		1.00	1	02/08/2018 14:01	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 14:01	WG1071291
Total Xylenes	ND		3.00	1	02/08/2018 14:01	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 14:01	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 14:01	WG1071291
(S) Toluene-d8	*106*		*80.0-120*		*02/08/2018 14:01*	WG1071291
(S) Dibromofluoromethane	*101*		*76.0-123*		*02/08/2018 14:01*	WG1071291
(S) 4-Bromofluorobenzene	*100*		*80.0-120*		*02/08/2018 14:01*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	1.78		1.00	1	02/08/2018 14:20	WG1071291
Toluene	ND		1.00	1	02/08/2018 14:20	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 14:20	WG1071291
o-Xylene	ND		1.00	1	02/08/2018 14:20	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 14:20	WG1071291
Total Xylenes	ND		3.00	1	02/08/2018 14:20	WG1071291
Methyl tert-butyl ether	4.26		1.00	1	02/08/2018 14:20	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 14:20	WG1071291
(S) Toluene-d8	*105*		*80.0-120*		*02/08/2018 14:20*	WG1071291
(S) Dibromofluoromethane	*100*		*76.0-123*		*02/08/2018 14:20*	WG1071291
(S) 4-Bromofluorobenzene	*99.7*		*80.0-120*		*02/08/2018 14:20*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/08/2018 14:39	WG1071291
Toluene	ND		1.00	1	02/08/2018 14:39	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 14:39	WG1071291
o-Xylene	ND		1.00	1	02/08/2018 14:39	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 14:39	WG1071291
Total Xylenes	ND		3.00	1	02/08/2018 14:39	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 14:39	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 14:39	WG1071291
(S) Toluene-d8	*107*		*80.0-120*		*02/08/2018 14:39*	WG1071291
(S) Dibromofluoromethane	*99.3*		*76.0-123*		*02/08/2018 14:39*	WG1071291
(S) 4-Bromofluorobenzene	*100*		*80.0-120*		*02/08/2018 14:39*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	3.04		1.00	1	02/08/2018 14:59	WG1071291
Toluene	1.73		1.00	1	02/08/2018 14:59	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 14:59	WG1071291
o-Xylene	1.12		1.00	1	02/08/2018 14:59	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 14:59	WG1071291
Total Xylenes	ND		3.00	1	02/08/2018 14:59	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 14:59	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 14:59	WG1071291
(S) Toluene-d8	*109*		*80.0-120*		*02/08/2018 14:59*	WG1071291
(S) Dibromofluoromethane	*98.8*		*76.0-123*		*02/08/2018 14:59*	WG1071291
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*02/08/2018 14:59*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	6.69		1.00	1	02/08/2018 15:18	WG1071291
Toluene	2.65		1.00	1	02/08/2018 15:18	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 15:18	WG1071291
o-Xylene	1.87		1.00	1	02/08/2018 15:18	WG1071291
m&p-Xylene	2.75		2.00	1	02/08/2018 15:18	WG1071291
Total Xylenes	4.62		3.00	1	02/08/2018 15:18	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 15:18	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 15:18	WG1071291
(S) Toluene-d8	*106*		*80.0-120*		*02/08/2018 15:18*	WG1071291
(S) Dibromofluoromethane	*100*		*76.0-123*		*02/08/2018 15:18*	WG1071291
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*02/08/2018 15:18*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/08/2018 15:37	WG1071291
Toluene	ND		1.00	1	02/08/2018 15:37	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 15:37	WG1071291
o-Xylene	ND		1.00	1	02/08/2018 15:37	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 15:37	WG1071291
Total Xylenes	ND		3.00	1	02/08/2018 15:37	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 15:37	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 15:37	WG1071291
(S) Toluene-d8	*107*		*80.0-120*		*02/08/2018 15:37*	WG1071291
(S) Dibromofluoromethane	*101*		*76.0-123*		*02/08/2018 15:37*	WG1071291
(S) 4-Bromofluorobenzene	*100*		*80.0-120*		*02/08/2018 15:37*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/08/2018 15:56	WG1071291
Toluene	ND		1.00	1	02/08/2018 15:56	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 15:56	WG1071291
o-Xylene	ND		1.00	1	02/08/2018 15:56	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 15:56	WG1071291
Total Xylenes	ND		3.00	1	02/08/2018 15:56	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 15:56	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 15:56	WG1071291
(S) Toluene-d8	*107*		*80.0-120*		*02/08/2018 15:56*	WG1071291
(S) Dibromofluoromethane	*97.5*		*76.0-123*		*02/08/2018 15:56*	WG1071291
(S) 4-Bromofluorobenzene	*98.6*		*80.0-120*		*02/08/2018 15:56*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	02/08/2018 11:46	WG1071291
Benzene	ND		1.00	1	02/08/2018 11:46	WG1071291
Bromodichloromethane	ND		1.00	1	02/08/2018 11:46	WG1071291
Bromoform	ND		1.00	1	02/08/2018 11:46	WG1071291
Bromomethane	ND		5.00	1	02/08/2018 11:46	WG1071291
Carbon disulfide	ND		1.00	1	02/08/2018 11:46	WG1071291
Carbon tetrachloride	ND		1.00	1	02/08/2018 11:46	WG1071291
Chlorobenzene	ND		1.00	1	02/08/2018 11:46	WG1071291
Chlorodibromomethane	ND		1.00	1	02/08/2018 11:46	WG1071291
Chloroethane	ND		5.00	1	02/08/2018 11:46	WG1071291
Chloroform	ND		5.00	1	02/08/2018 11:46	WG1071291
Chloromethane	ND		2.50	1	02/08/2018 11:46	WG1071291
1,2-Dibromo-3-Chloropropane	ND		5.00	1	02/08/2018 11:46	WG1071291
1,2-Dibromoethane	ND		1.00	1	02/08/2018 11:46	WG1071291
1,2-Dichlorobenzene	ND		1.00	1	02/08/2018 11:46	WG1071291
1,3-Dichlorobenzene	ND		1.00	1	02/08/2018 11:46	WG1071291
1,4-Dichlorobenzene	ND		1.00	1	02/08/2018 11:46	WG1071291
1,1-Dichloroethane	ND		1.00	1	02/08/2018 11:46	WG1071291
1,2-Dichloroethane	ND		1.00	1	02/08/2018 11:46	WG1071291
1,1-Dichloroethene	ND		1.00	1	02/08/2018 11:46	WG1071291
cis-1,2-Dichloroethene	ND		1.00	1	02/08/2018 11:46	WG1071291
trans-1,2-Dichloroethene	ND		1.00	1	02/08/2018 11:46	WG1071291
1,2-Dichloropropane	ND		1.00	1	02/08/2018 11:46	WG1071291
cis-1,3-Dichloropropene	ND		1.00	1	02/08/2018 11:46	WG1071291
trans-1,3-Dichloropropene	ND		1.00	1	02/08/2018 11:46	WG1071291
Di-isopropyl ether	ND		1.00	1	02/08/2018 11:46	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 11:46	WG1071291
2-Butanone (MEK)	ND		10.0	1	02/08/2018 11:46	WG1071291
2-Hexanone	ND		10.0	1	02/08/2018 11:46	WG1071291
Methylene Chloride	ND		5.00	1	02/08/2018 11:46	WG1071291
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	02/08/2018 11:46	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 11:46	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 11:46	WG1071291
Styrene	ND		1.00	1	02/08/2018 11:46	WG1071291
1,1,2,2-Tetrachloroethane	ND		1.00	1	02/08/2018 11:46	WG1071291
Tetrachloroethene	ND		1.00	1	02/08/2018 11:46	WG1071291
Toluene	ND		1.00	1	02/08/2018 11:46	WG1071291
1,1,1-Trichloroethane	ND		1.00	1	02/08/2018 11:46	WG1071291
1,1,2-Trichloroethane	ND		1.00	1	02/08/2018 11:46	WG1071291
Trichloroethene	ND		1.00	1	02/08/2018 11:46	WG1071291
Vinyl chloride	ND		1.00	1	02/08/2018 11:46	WG1071291
o-Xylene	ND		1.00	1	02/08/2018 11:46	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 11:46	WG1071291
Xylenes, Total	ND		3.00	1	02/08/2018 11:46	WG1071291
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	02/08/2018 11:46	WG1071291
1,2,3-Trimethylbenzene	ND		1.00	1	02/08/2018 11:46	WG1071291
(S) Toluene-d8	*105*		*80.0-120*		*02/08/2018 11:46*	WG1071291
(S) Dibromofluoromethane	*98.2*		*76.0-123*		*02/08/2018 11:46*	WG1071291
(S) a,a,a-Trifluorotoluene	*98.0*		*80.0-120*		*02/08/2018 11:46*	WG1071291
(S) 4-Bromofluorobenzene	*98.4*		*80.0-120*		*02/08/2018 11:46*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	2.53		1.00	1	02/08/2018 16:15	WG1071291
Toluene	1.20		1.00	1	02/08/2018 16:15	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 16:15	WG1071291
o-Xylene	2.44		1.00	1	02/08/2018 16:15	WG1071291
m&p-Xylene	4.04		2.00	1	02/08/2018 16:15	WG1071291
Total Xylenes	6.48		3.00	1	02/08/2018 16:15	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 16:15	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 16:15	WG1071291
(S) Toluene-d8	*106*		*80.0-120*		*02/08/2018 16:15*	WG1071291
(S) Dibromofluoromethane	*96.5*		*76.0-123*		*02/08/2018 16:15*	WG1071291
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*02/08/2018 16:15*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/08/2018 16:35	WG1071291
Toluene	ND		1.00	1	02/08/2018 16:35	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 16:35	WG1071291
o-Xylene	ND		1.00	1	02/08/2018 16:35	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 16:35	WG1071291
Total Xylenes	ND		3.00	1	02/08/2018 16:35	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 16:35	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 16:35	WG1071291
(S) Toluene-d8	*106*		*80.0-120*		*02/08/2018 16:35*	WG1071291
(S) Dibromofluoromethane	*100*		*76.0-123*		*02/08/2018 16:35*	WG1071291
(S) 4-Bromofluorobenzene	*100*		*80.0-120*		*02/08/2018 16:35*	WG1071291

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/08/2018 16:54	WG1071291
Toluene	ND		1.00	1	02/08/2018 16:54	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 16:54	WG1071291
o-Xylene	ND		1.00	1	02/08/2018 16:54	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 16:54	WG1071291
Total Xylenes	ND		3.00	1	02/08/2018 16:54	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 16:54	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 16:54	WG1071291
(S) Toluene-d8	*108*		*80.0-120*		*02/08/2018 16:54*	WG1071291
(S) Dibromofluoromethane	*98.5*		*76.0-123*		*02/08/2018 16:54*	WG1071291
(S) 4-Bromofluorobenzene	*97.4*		*80.0-120*		*02/08/2018 16:54*	WG1071291

Method Blank (MB)

(MB) R3285084-2 02/08/18 09:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Benzene	U		0.331	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
Carbon disulfide	U		0.275	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00
2-Hexanone	U		3.82	10.0
2-Butanone (MEK)	U		3.93	10.0
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Styrene	U		0.307	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00

Method Blank (MB)

(MB) R3285084-2 02/08/18 09:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Trichloroethene	U		0.398	1.00
1,2,3-Trimethylbenzene	U		0.321	1.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
o-Xylene	U		0.341	1.00
m&p-Xylenes	U		0.341	2.00
m&p-Xylenes	U		0.719	2.00
(S) Toluene-d8	*106*			*80.0-120*
(S) Dibromofluoromethane	*99.2*			*76.0-123*
(S) a,a,a-Trifluorotoluene	*98.7*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.6*			*80.0-120*

Laboratory Control Sample (LCS)

(LCS) R3285084-1 02/08/18 08:49

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	125	133	106	70.0-130	
Benzene	25.0	23.8	95.3	70.0-130	
Bromodichloromethane	25.0	26.4	105	70.0-130	
Bromoform	25.0	25.6	102	70.0-130	
Bromomethane	25.0	22.5	90.0	70.0-130	
Carbon disulfide	25.0	21.5	85.9	70.0-130	
Carbon tetrachloride	25.0	26.5	106	70.0-130	
Chlorobenzene	25.0	24.8	99.4	70.0-130	
Chlorodibromomethane	25.0	26.2	105	70.0-130	
Chloroethane	25.0	19.2	76.8	70.0-130	
Chloroform	25.0	25.6	103	70.0-130	
Chloromethane	25.0	20.7	82.7	70.0-130	
1,2-Dibromo-3-Chloropropane	25.0	24.0	95.8	70.0-130	
1,2-Dibromoethane	25.0	25.0	99.9	70.0-130	
1,2-Dichlorobenzene	25.0	23.5	93.9	70.0-130	
1,3-Dichlorobenzene	25.0	23.1	92.3	70.0-130	
1,4-Dichlorobenzene	25.0	22.9	91.5	70.0-130	
1,1-Dichloroethane	25.0	27.6	110	70.0-130	
1,2-Dichloroethane	25.0	27.2	109	70.0-130	
1,1-Dichloroethene	25.0	24.5	97.9	70.0-130	
cis-1,2-Dichloroethene	25.0	25.0	99.9	70.0-130	
trans-1,2-Dichloroethene	25.0	24.9	99.8	70.0-130	

Laboratory Control Sample (LCS)

(LCS) R3285084-1 02/08/18 08:49

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2-Dichloropropane	25.0	28.9	115	70.0-130	
cis-1,3-Dichloropropene	25.0	25.7	103	70.0-130	
trans-1,3-Dichloropropene	25.0	26.4	106	70.0-130	
Di-isopropyl ether	25.0	22.4	89.7	70.0-130	
Ethylbenzene	25.0	24.8	99.1	70.0-130	
2-Hexanone	125	145	116	70.0-130	
2-Butanone (MEK)	125	116	92.8	70.0-130	
Methylene Chloride	25.0	23.2	92.7	70.0-130	
4-Methyl-2-pentanone (MIBK)	125	116	92.7	70.0-130	
Methyl tert-butyl ether	25.0	20.1	80.4	70.0-130	
Naphthalene	25.0	23.9	95.4	70.0-130	
Styrene	25.0	23.6	94.4	70.0-130	
1,1,2,2-Tetrachloroethane	25.0	22.8	91.2	70.0-130	
Tetrachloroethene	25.0	24.9	99.5	70.0-130	
Toluene	25.0	24.7	98.7	70.0-130	
1,1,2-Trichlorotrifluoroethane	25.0	27.3	109	70.0-130	
1,1,1-Trichloroethane	25.0	26.8	107	70.0-130	
1,1,2-Trichloroethane	25.0	25.0	100	70.0-130	
Trichloroethene	25.0	26.7	107	70.0-130	
1,2,3-Trimethylbenzene	25.0	24.1	96.5	70.0-130	
Vinyl chloride	25.0	24.2	96.7	70.0-130	
Xylenes, Total	75.0	73.5	98.0	70.0-130	
o-Xylene	25.0	24.7	98.7	70.0-130	
m&p-Xylenes	50.0	48.8	97.6	70.0-130	
(S) Toluene-d8			*105*	*80.0-120*	
(S) Dibromofluoromethane			*99.2*	*76.0-123*	
(S) a,a,a-Trifluorotoluene			*101*	*80.0-120*	
(S) 4-Bromofluorobenzene			*99.5*	*80.0-120*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

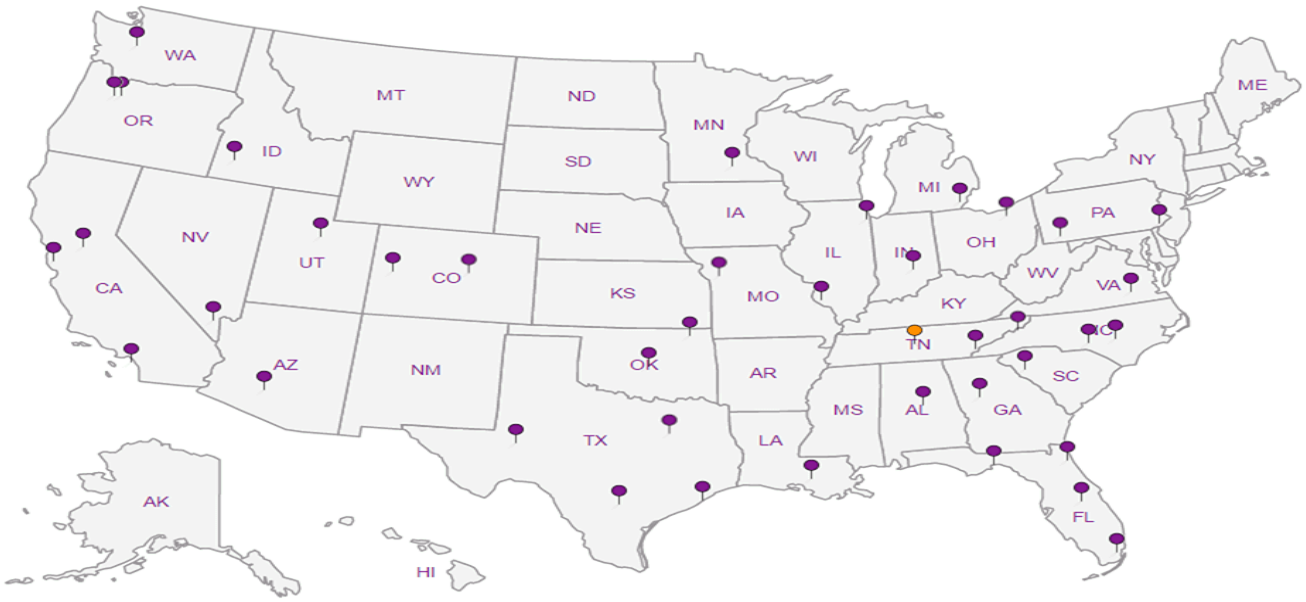
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Surface Water

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # ~~LE~~ 699858.LD.MR.SW

Lab Project # KINCH2MGA-LEWIS

Collected by (print): MELISSA WARREN

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature):

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEXMNSC 40ml/Amb-HCl	V8260BTEXMNSC-TB 40ml/Amb-HCl-Blk	BTEX	MTBE	NAPHTHALENE						Remarks	Sample # (lab only)
SW14-020618	GRAB	GW	N/A	02/06/18	1335	3	X		X	X	X							-01
SW11-020618		GW			1440	3	X											-02
SW10-020618		GW			1445	3	X											-03
FP01-020618		GW			1455	3	X											-04
FP02-020618		GW			1500	3	X											-05
SW09-020618		GW			1505	3	X											-06
SW08-020618		GW			1510	3	X											-07
SW13-020618		GW			1515	3	X											-08
FP03-020618		GW			1520	3	X											-09
SW04-020618		GW			1525	3	X											-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS X FedEx __ Courier

Tracking # 4269 9202 9234

Relinquished by: (Signature) — Date: 02/06/18 — Time: 1730

Received by: (Signature)

Trip Blank Received: Yes / No HCL / MeOH TBR

Relinquished by: (Signature) — Date: — Time:

Received by: (Signature)

Temp: 1.8 °C Bottles Received: 48XV-P

If preservation required by Login: Date/Time

Relinquished by: (Signature) — Date: — Time:

Received for lab by: (Signature) — Date: 2/7/18 — Time: 0845

Hold:

Condition: NCF / OK

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Chain of Custody Page 1 of 2

ESC LAB SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 968401
C063
Tab

Acctnum: KINCH2MGA
Template: T132193
Prelogin: P637823
TSR: 526 - Chris McCord
PB: 1-30-18

Shipped Via: FedEX Ground

CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Surface Water

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 699858.LD.MR.SW

Lab Project # KINCH2MGA-LEWIS

Collected by (print): MELISSA WARREN

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature):

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEXMNSC 40mlAmb-HCl	V8260BTEXMNSC-TB 40mlAmb-HCl-Blk	BTEX	MTBE	NAPHTHALENE	TCL VOCS					Remarks	Sample # (lab only)
SW02-020618	GRAB	GW	N/A	02/06/18	1527	3	X		X	X	X							-11
SW01-020618		GW			1530	3	X		X	X	X							-12
SW07-020618		GW			1535	3	X		X	X	X							-13
TB01-020618		GW			1550	1		X				X						-14
SW12-020618		GW			1540	3	X		X	X	X							-15
SW03-020618		GW			1545	3	X		X	X	X							-16
SW05-020618		GW			1620	3	X		X	X	X							-17

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier __ _____

Tracking # 4269 9202 9234

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	02/06/18	1730	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 1.8 °C Bottles Received: 48XV-P

Date: 2/7/18 Time: 0845

If preservation required by Login: Date/Time

Hold:

Condition: NCF OK

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Chain of Custody Page 2 of 2

ESC LABORATORY SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 968401

Table #

Acctnum: KINCH2MGA
Template: T132193
Prelogin: P637823
TSR: 526 - Chris McCord
PB: 1-18-306

Shipped Via: FedEX Ground

ANALYTICAL REPORT

March 20, 2018

CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group:	L976731
Samples Received:	03/10/2018
Project Number:	
Description:	Lewis Drive Surface Water

Report To: Bethany Garvey
6600 Peachtree Dunwoody Road
400 Embassy Row - Suite 600
Atlanta, GA 30328

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

TABLE OF CONTENTS

	Collected by	Collected date/time	Received date/time
SW14-030918 L976731-01 GW		03/09/18 11:10	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/13/18 23:46	03/13/18 23:46	JBE

	Collected by	Collected date/time	Received date/time
SW11-030918 L976731-02 GW		03/09/18 08:50	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/14/18 00:06	03/14/18 00:06	JBE

	Collected by	Collected date/time	Received date/time
SW10-030918 L976731-03 GW		03/09/18 09:00	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/14/18 00:25	03/14/18 00:25	JBE

	Collected by	Collected date/time	Received date/time
FP01-030918 L976731-04 GW		03/09/18 09:10	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/14/18 00:45	03/14/18 00:45	JBE

	Collected by	Collected date/time	Received date/time
FP02-030918 L976731-05 GW		03/09/18 09:15	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/14/18 01:05	03/14/18 01:05	JBE

	Collected by	Collected date/time	Received date/time
SW09-030918 L976731-06 GW		03/09/18 09:25	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/14/18 01:25	03/14/18 01:25	JBE

	Collected by	Collected date/time	Received date/time
SW08-030918 L976731-07 GW		03/09/18 09:30	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/14/18 01:44	03/14/18 01:44	JBE

	Collected by	Collected date/time	Received date/time
SW13-030918 L976731-08 GW		03/09/18 09:40	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/14/18 02:04	03/14/18 02:04	JBE

FP03-030918 L976731-09 GW

			Collected by	Collected date/time	Received date/time
				03/09/18 10:00	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/14/18 02:24	03/14/18 02:24	JBE

SW04-030918 L976731-10 GW

			Collected by	Collected date/time	Received date/time
				03/09/18 10:05	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/14/18 02:44	03/14/18 02:44	JBE

SW02-030918 L976731-11 GW

			Collected by	Collected date/time	Received date/time
				03/09/18 10:10	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/14/18 03:03	03/14/18 03:03	JBE

SW01-030918 L976731-12 GW

			Collected by	Collected date/time	Received date/time
				03/09/18 10:15	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/14/18 03:23	03/14/18 03:23	JBE

SW07-030918 L976731-13 GW

			Collected by	Collected date/time	Received date/time
				03/09/18 10:20	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/14/18 03:43	03/14/18 03:43	JBE

SW12-030918 L976731-14 GW

			Collected by	Collected date/time	Received date/time
				03/09/18 10:30	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/14/18 04:03	03/14/18 04:03	JBE

SW03-030918 L976731-15 GW

			Collected by	Collected date/time	Received date/time
				03/09/18 10:40	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/14/18 04:23	03/14/18 04:23	JBE

SW05-030918 L976731-16 GW

			Collected by	Collected date/time	Received date/time
				03/09/18 11:00	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/14/18 04:43	03/14/18 04:43	JBE

TB01-030918 L976731-17 GW

Collected by	Collected date/time	Received date/time
	03/09/18 11:15	03/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084210	1	03/13/18 23:26	03/13/18 23:26	JBE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/13/2018 23:46	WG1084210
Ethylbenzene	ND		1.00	1	03/13/2018 23:46	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/13/2018 23:46	WG1084210
Naphthalene	ND		5.00	1	03/13/2018 23:46	WG1084210
Toluene	ND		1.00	1	03/13/2018 23:46	WG1084210
o-Xylene	ND		1.00	1	03/13/2018 23:46	WG1084210
m&p-Xylene	ND		2.00	1	03/13/2018 23:46	WG1084210
Xylenes, Total	ND		3.00	1	03/13/2018 23:46	WG1084210
(S) Toluene-d8	*111*		*80.0-120*		*03/13/2018 23:46*	WG1084210
(S) Dibromofluoromethane	*89.1*		*76.0-123*		*03/13/2018 23:46*	WG1084210
(S) a,a,a-Trifluorotoluene	*99.6*		*80.0-120*		*03/13/2018 23:46*	WG1084210
(S) 4-Bromofluorobenzene	*94.6*		*80.0-120*		*03/13/2018 23:46*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/14/2018 00:06	WG1084210
Ethylbenzene	ND		1.00	1	03/14/2018 00:06	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/14/2018 00:06	WG1084210
Naphthalene	ND		5.00	1	03/14/2018 00:06	WG1084210
Toluene	ND		1.00	1	03/14/2018 00:06	WG1084210
o-Xylene	ND		1.00	1	03/14/2018 00:06	WG1084210
m&p-Xylene	ND		2.00	1	03/14/2018 00:06	WG1084210
Xylenes, Total	ND		3.00	1	03/14/2018 00:06	WG1084210
(S) Toluene-d8	*105*		*80.0-120*		*03/14/2018 00:06*	WG1084210
(S) Dibromofluoromethane	*91.5*		*76.0-123*		*03/14/2018 00:06*	WG1084210
(S) a,a,a-Trifluorotoluene	*99.2*		*80.0-120*		*03/14/2018 00:06*	WG1084210
(S) 4-Bromofluorobenzene	*92.5*		*80.0-120*		*03/14/2018 00:06*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/14/2018 00:25	WG1084210
Ethylbenzene	ND		1.00	1	03/14/2018 00:25	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/14/2018 00:25	WG1084210
Naphthalene	ND		5.00	1	03/14/2018 00:25	WG1084210
Toluene	ND		1.00	1	03/14/2018 00:25	WG1084210
o-Xylene	ND		1.00	1	03/14/2018 00:25	WG1084210
m&p-Xylene	ND		2.00	1	03/14/2018 00:25	WG1084210
Xylenes, Total	ND		3.00	1	03/14/2018 00:25	WG1084210
(S) Toluene-d8	*108*		*80.0-120*		*03/14/2018 00:25*	WG1084210
(S) Dibromofluoromethane	*94.4*		*76.0-123*		*03/14/2018 00:25*	WG1084210
(S) a,a,a-Trifluorotoluene	*97.0*		*80.0-120*		*03/14/2018 00:25*	WG1084210
(S) 4-Bromofluorobenzene	*94.8*		*80.0-120*		*03/14/2018 00:25*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/14/2018 00:45	WG1084210
Ethylbenzene	ND		1.00	1	03/14/2018 00:45	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/14/2018 00:45	WG1084210
Naphthalene	ND		5.00	1	03/14/2018 00:45	WG1084210
Toluene	ND		1.00	1	03/14/2018 00:45	WG1084210
o-Xylene	ND		1.00	1	03/14/2018 00:45	WG1084210
m&p-Xylene	ND		2.00	1	03/14/2018 00:45	WG1084210
Xylenes, Total	ND		3.00	1	03/14/2018 00:45	WG1084210
(S) Toluene-d8	*103*		*80.0-120*		*03/14/2018 00:45*	WG1084210
(S) Dibromofluoromethane	*89.3*		*76.0-123*		*03/14/2018 00:45*	WG1084210
(S) a,a,a-Trifluorotoluene	*98.0*		*80.0-120*		*03/14/2018 00:45*	WG1084210
(S) 4-Bromofluorobenzene	*91.5*		*80.0-120*		*03/14/2018 00:45*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/14/2018 01:05	WG1084210
Ethylbenzene	ND		1.00	1	03/14/2018 01:05	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/14/2018 01:05	WG1084210
Naphthalene	ND		5.00	1	03/14/2018 01:05	WG1084210
Toluene	ND		1.00	1	03/14/2018 01:05	WG1084210
o-Xylene	ND		1.00	1	03/14/2018 01:05	WG1084210
m&p-Xylene	ND		2.00	1	03/14/2018 01:05	WG1084210
Xylenes, Total	ND		3.00	1	03/14/2018 01:05	WG1084210
(S) Toluene-d8	*107*		*80.0-120*		*03/14/2018 01:05*	WG1084210
(S) Dibromofluoromethane	*89.1*		*76.0-123*		*03/14/2018 01:05*	WG1084210
(S) a,a,a-Trifluorotoluene	*98.1*		*80.0-120*		*03/14/2018 01:05*	WG1084210
(S) 4-Bromofluorobenzene	*94.2*		*80.0-120*		*03/14/2018 01:05*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/14/2018 01:25	WG1084210
Ethylbenzene	ND		1.00	1	03/14/2018 01:25	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/14/2018 01:25	WG1084210
Naphthalene	ND		5.00	1	03/14/2018 01:25	WG1084210
Toluene	ND		1.00	1	03/14/2018 01:25	WG1084210
o-Xylene	ND		1.00	1	03/14/2018 01:25	WG1084210
m&p-Xylene	ND		2.00	1	03/14/2018 01:25	WG1084210
Xylenes, Total	ND		3.00	1	03/14/2018 01:25	WG1084210
(S) Toluene-d8	*113*		*80.0-120*		*03/14/2018 01:25*	WG1084210
(S) Dibromofluoromethane	*93.1*		*76.0-123*		*03/14/2018 01:25*	WG1084210
(S) a,a,a-Trifluorotoluene	*96.7*		*80.0-120*		*03/14/2018 01:25*	WG1084210
(S) 4-Bromofluorobenzene	*94.1*		*80.0-120*		*03/14/2018 01:25*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/14/2018 01:44	WG1084210
Ethylbenzene	ND		1.00	1	03/14/2018 01:44	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/14/2018 01:44	WG1084210
Naphthalene	ND		5.00	1	03/14/2018 01:44	WG1084210
Toluene	ND		1.00	1	03/14/2018 01:44	WG1084210
o-Xylene	ND		1.00	1	03/14/2018 01:44	WG1084210
m&p-Xylene	ND		2.00	1	03/14/2018 01:44	WG1084210
Xylenes, Total	ND		3.00	1	03/14/2018 01:44	WG1084210
(S) Toluene-d8	*112*		*80.0-120*		*03/14/2018 01:44*	WG1084210
(S) Dibromofluoromethane	*91.9*		*76.0-123*		*03/14/2018 01:44*	WG1084210
(S) a,a,a-Trifluorotoluene	*101*		*80.0-120*		*03/14/2018 01:44*	WG1084210
(S) 4-Bromofluorobenzene	*92.4*		*80.0-120*		*03/14/2018 01:44*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/14/2018 02:04	WG1084210
Ethylbenzene	ND		1.00	1	03/14/2018 02:04	WG1084210
Methyl tert-butyl ether	2.07		1.00	1	03/14/2018 02:04	WG1084210
Naphthalene	ND		5.00	1	03/14/2018 02:04	WG1084210
Toluene	ND		1.00	1	03/14/2018 02:04	WG1084210
o-Xylene	ND		1.00	1	03/14/2018 02:04	WG1084210
m&p-Xylene	ND		2.00	1	03/14/2018 02:04	WG1084210
Xylenes, Total	ND		3.00	1	03/14/2018 02:04	WG1084210
(S) Toluene-d8	*106*		*80.0-120*		*03/14/2018 02:04*	WG1084210
(S) Dibromofluoromethane	*90.9*		*76.0-123*		*03/14/2018 02:04*	WG1084210
(S) a,a,a-Trifluorotoluene	*98.6*		*80.0-120*		*03/14/2018 02:04*	WG1084210
(S) 4-Bromofluorobenzene	*92.7*		*80.0-120*		*03/14/2018 02:04*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/14/2018 02:24	WG1084210
Ethylbenzene	ND		1.00	1	03/14/2018 02:24	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/14/2018 02:24	WG1084210
Naphthalene	ND		5.00	1	03/14/2018 02:24	WG1084210
Toluene	ND		1.00	1	03/14/2018 02:24	WG1084210
o-Xylene	ND		1.00	1	03/14/2018 02:24	WG1084210
m&p-Xylene	ND		2.00	1	03/14/2018 02:24	WG1084210
Xylenes, Total	ND		3.00	1	03/14/2018 02:24	WG1084210
(S) Toluene-d8	*107*		*80.0-120*		*03/14/2018 02:24*	WG1084210
(S) Dibromofluoromethane	*86.1*		*76.0-123*		*03/14/2018 02:24*	WG1084210
(S) a,a,a-Trifluorotoluene	*99.6*		*80.0-120*		*03/14/2018 02:24*	WG1084210
(S) 4-Bromofluorobenzene	*97.0*		*80.0-120*		*03/14/2018 02:24*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/14/2018 02:44	WG1084210
Ethylbenzene	ND		1.00	1	03/14/2018 02:44	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/14/2018 02:44	WG1084210
Naphthalene	ND		5.00	1	03/14/2018 02:44	WG1084210
Toluene	1.37		1.00	1	03/14/2018 02:44	WG1084210
o-Xylene	ND		1.00	1	03/14/2018 02:44	WG1084210
m&p-Xylene	ND		2.00	1	03/14/2018 02:44	WG1084210
Xylenes, Total	ND		3.00	1	03/14/2018 02:44	WG1084210
(S) Toluene-d8	*108*		*80.0-120*		*03/14/2018 02:44*	WG1084210
(S) Dibromofluoromethane	*87.1*		*76.0-123*		*03/14/2018 02:44*	WG1084210
(S) a,a,a-Trifluorotoluene	*96.1*		*80.0-120*		*03/14/2018 02:44*	WG1084210
(S) 4-Bromofluorobenzene	*95.7*		*80.0-120*		*03/14/2018 02:44*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	3.19		1.00	1	03/14/2018 03:03	WG1084210
Ethylbenzene	ND		1.00	1	03/14/2018 03:03	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/14/2018 03:03	WG1084210
Naphthalene	ND		5.00	1	03/14/2018 03:03	WG1084210
Toluene	1.39		1.00	1	03/14/2018 03:03	WG1084210
o-Xylene	1.11		1.00	1	03/14/2018 03:03	WG1084210
m&p-Xylene	ND		2.00	1	03/14/2018 03:03	WG1084210
Xylenes, Total	ND		3.00	1	03/14/2018 03:03	WG1084210
(S) Toluene-d8	*109*		*80.0-120*		*03/14/2018 03:03*	WG1084210
(S) Dibromofluoromethane	*86.6*		*76.0-123*		*03/14/2018 03:03*	WG1084210
(S) a,a,a-Trifluorotoluene	*96.6*		*80.0-120*		*03/14/2018 03:03*	WG1084210
(S) 4-Bromofluorobenzene	*91.7*		*80.0-120*		*03/14/2018 03:03*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	1.15		1.00	1	03/14/2018 03:23	WG1084210
Ethylbenzene	ND		1.00	1	03/14/2018 03:23	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/14/2018 03:23	WG1084210
Naphthalene	ND		5.00	1	03/14/2018 03:23	WG1084210
Toluene	ND		1.00	1	03/14/2018 03:23	WG1084210
o-Xylene	ND		1.00	1	03/14/2018 03:23	WG1084210
m&p-Xylene	ND		2.00	1	03/14/2018 03:23	WG1084210
Xylenes, Total	ND		3.00	1	03/14/2018 03:23	WG1084210
(S) Toluene-d8	*106*		*80.0-120*		*03/14/2018 03:23*	WG1084210
(S) Dibromofluoromethane	*88.1*		*76.0-123*		*03/14/2018 03:23*	WG1084210
(S) a,a,a-Trifluorotoluene	*99.1*		*80.0-120*		*03/14/2018 03:23*	WG1084210
(S) 4-Bromofluorobenzene	*94.0*		*80.0-120*		*03/14/2018 03:23*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/14/2018 03:43	WG1084210
Ethylbenzene	ND		1.00	1	03/14/2018 03:43	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/14/2018 03:43	WG1084210
Naphthalene	ND		5.00	1	03/14/2018 03:43	WG1084210
Toluene	ND		1.00	1	03/14/2018 03:43	WG1084210
o-Xylene	ND		1.00	1	03/14/2018 03:43	WG1084210
m&p-Xylene	ND		2.00	1	03/14/2018 03:43	WG1084210
Xylenes, Total	ND		3.00	1	03/14/2018 03:43	WG1084210
(S) Toluene-d8	*112*		*80.0-120*		*03/14/2018 03:43*	WG1084210
(S) Dibromofluoromethane	*87.9*		*76.0-123*		*03/14/2018 03:43*	WG1084210
(S) a,a,a-Trifluorotoluene	*98.8*		*80.0-120*		*03/14/2018 03:43*	WG1084210
(S) 4-Bromofluorobenzene	*92.2*		*80.0-120*		*03/14/2018 03:43*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	3.24		1.00	1	03/14/2018 04:03	WG1084210
Ethylbenzene	1.79		1.00	1	03/14/2018 04:03	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/14/2018 04:03	WG1084210
Naphthalene	ND		5.00	1	03/14/2018 04:03	WG1084210
Toluene	12.2		1.00	1	03/14/2018 04:03	WG1084210
o-Xylene	4.28		1.00	1	03/14/2018 04:03	WG1084210
m&p-Xylene	9.75		2.00	1	03/14/2018 04:03	WG1084210
Xylenes, Total	14.0		3.00	1	03/14/2018 04:03	WG1084210
(S) Toluene-d8	*111*		*80.0-120*		*03/14/2018 04:03*	WG1084210
(S) Dibromofluoromethane	*87.9*		*76.0-123*		*03/14/2018 04:03*	WG1084210
(S) a,a,a-Trifluorotoluene	*97.8*		*80.0-120*		*03/14/2018 04:03*	WG1084210
(S) 4-Bromofluorobenzene	*91.8*		*80.0-120*		*03/14/2018 04:03*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/14/2018 04:23	WG1084210
Ethylbenzene	ND		1.00	1	03/14/2018 04:23	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/14/2018 04:23	WG1084210
Naphthalene	ND		5.00	1	03/14/2018 04:23	WG1084210
Toluene	ND		1.00	1	03/14/2018 04:23	WG1084210
o-Xylene	ND		1.00	1	03/14/2018 04:23	WG1084210
m&p-Xylene	ND		2.00	1	03/14/2018 04:23	WG1084210
Xylenes, Total	ND		3.00	1	03/14/2018 04:23	WG1084210
(S) Toluene-d8	*113*		*80.0-120*		*03/14/2018 04:23*	WG1084210
(S) Dibromofluoromethane	*87.1*		*76.0-123*		*03/14/2018 04:23*	WG1084210
(S) a,a,a-Trifluorotoluene	*98.1*		*80.0-120*		*03/14/2018 04:23*	WG1084210
(S) 4-Bromofluorobenzene	*95.8*		*80.0-120*		*03/14/2018 04:23*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/14/2018 04:43	WG1084210
Ethylbenzene	ND		1.00	1	03/14/2018 04:43	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/14/2018 04:43	WG1084210
Naphthalene	ND		5.00	1	03/14/2018 04:43	WG1084210
Toluene	ND		1.00	1	03/14/2018 04:43	WG1084210
o-Xylene	ND		1.00	1	03/14/2018 04:43	WG1084210
m&p-Xylene	ND		2.00	1	03/14/2018 04:43	WG1084210
Xylenes, Total	ND		3.00	1	03/14/2018 04:43	WG1084210
(S) Toluene-d8	*109*		*80.0-120*		*03/14/2018 04:43*	WG1084210
(S) Dibromofluoromethane	*88.6*		*76.0-123*		*03/14/2018 04:43*	WG1084210
(S) a,a,a-Trifluorotoluene	*96.6*		*80.0-120*		*03/14/2018 04:43*	WG1084210
(S) 4-Bromofluorobenzene	*94.9*		*80.0-120*		*03/14/2018 04:43*	WG1084210

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/13/2018 23:26	WG1084210
Ethylbenzene	ND		1.00	1	03/13/2018 23:26	WG1084210
Methyl tert-butyl ether	ND		1.00	1	03/13/2018 23:26	WG1084210
Naphthalene	ND		5.00	1	03/13/2018 23:26	WG1084210
Toluene	ND		1.00	1	03/13/2018 23:26	WG1084210
o-Xylene	ND		1.00	1	03/13/2018 23:26	WG1084210
m&p-Xylene	ND		2.00	1	03/13/2018 23:26	WG1084210
Xylenes, Total	ND		3.00	1	03/13/2018 23:26	WG1084210
(S) Toluene-d8	*109*		*80.0-120*		*03/13/2018 23:26*	WG1084210
(S) Dibromofluoromethane	*92.1*		*76.0-123*		*03/13/2018 23:26*	WG1084210
(S) a,a,a-Trifluorotoluene	*99.3*		*80.0-120*		*03/13/2018 23:26*	WG1084210
(S) 4-Bromofluorobenzene	*98.2*		*80.0-120*		*03/13/2018 23:26*	WG1084210

Method Blank (MB)

(MB) R3294434-2 03/13/18 22:45

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
o-Xylene	U		0.341	1.00
m&p-Xylenes	U		0.719	2.00
(S) Toluene-d8	*107*			*80.0-120*
(S) Dibromofluoromethane	*89.1*			*76.0-123*
(S) a,a,a-Trifluorotoluene	*96.9*			*80.0-120*
(S) 4-Bromofluorobenzene	*92.3*			*80.0-120*

Laboratory Control Sample (LCS)

(LCS) R3294434-1 03/13/18 21:46

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	25.0	23.6	94.4	70.0-130	
Ethylbenzene	25.0	27.1	109	70.0-130	
Methyl tert-butyl ether	25.0	21.5	86.0	70.0-130	
Naphthalene	25.0	23.8	95.1	70.0-130	
Toluene	25.0	25.8	103	70.0-130	
Xylenes, Total	75.0	77.9	104	70.0-130	
o-Xylene	25.0	25.3	101	70.0-130	
m&p-Xylenes	50.0	52.6	105	70.0-130	
(S) Toluene-d8			*107*	*80.0-120*	
(S) Dibromofluoromethane			*89.4*	*76.0-123*	
(S) a,a,a-Trifluorotoluene			*96.7*	*80.0-120*	
(S) 4-Bromofluorobenzene			*101*	*80.0-120*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

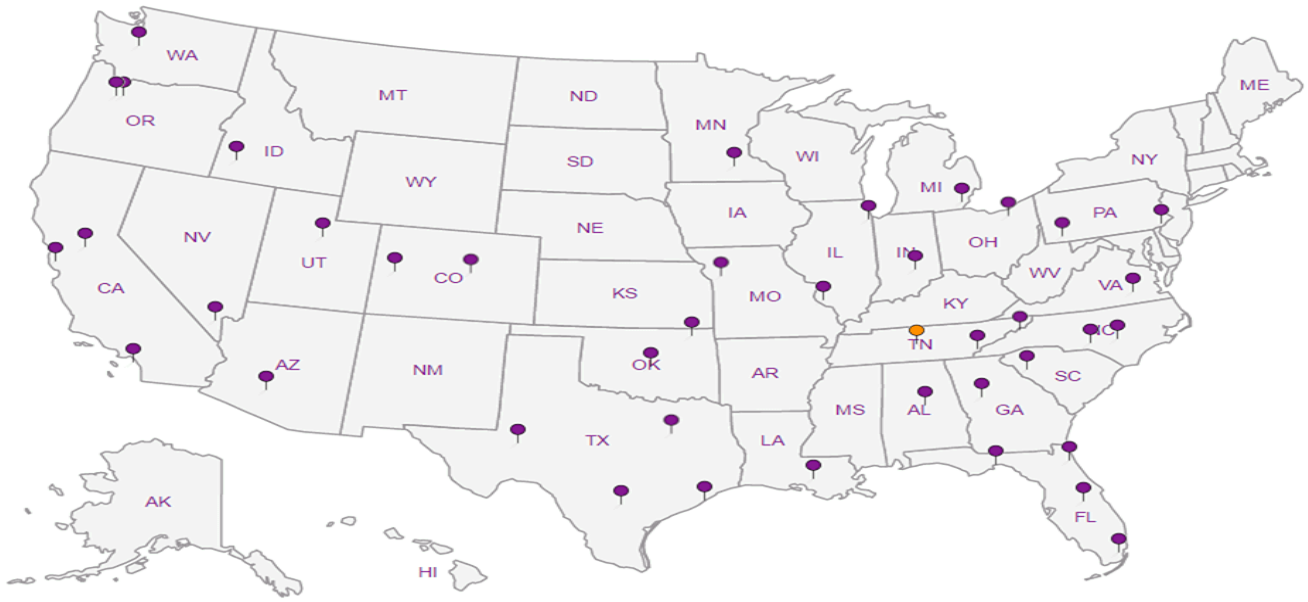
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



F185

SW | SW-1

L976731

CH2MHILL

CHAIN-OF-CUSTODY RECORD

1 COC NUMBER: 699858-mmddyy-01

2 PROJECT NAME	5 PROJECT NUMBER	8 LAB NAME AND CONTACT	11 FAX AND MAIL REPORTS/EDD TO: RECIPIENT 1 (Name and Company)	14 RECIPIENT 1 (Address, Tel No., and Fax No.)
Lewis Drive - Belton, SC	699858.LD.MR.GW	ESC Lab Sciences Chris McCord	Bill Waldron wwaldron@ch2m.com	3120 Highwoods Blvd. Suite 214, Raleigh, NC 27604

3 PROJECT PHASE/SITE/TASK	6 CTO OR DO NUMBER	9 LAB PO NUMBER	12 FAX AND MAIL REPORTS/EDD TO: RECIPIENT 2 (Name and Company)	15 RECIPIENT 2 (Address, Tel No., and Fax No.)
Surface water sampling		Kinder Morgan	Bethany Garvey bgarvey@ch2m.com	6600 Peachtree-Dunwoody Rd. 400 Embassy Row, Suite 600, Atlanta, GA 30328 tel. 770.604.9182, fax. 770.604.9282

4 PROJECT CONTACT	7 PROJECT TEL NO AND FAX NO	?	13 FAX AND MAIL REPORTS/EDD TO: RECIPIENT 3 (Name and Company)	16 RECIPIENT 3 (Address, Tel No., and Fax No.)
Bill Waldron	919-760-1777	615-758-5858 phone		

17 ITEM	18 SAMPLE IDENTIFIER	19 SAMPLE DESCRIPTION/LOCATION	20 MATRIX	21 DATE COLLECTED	22 TIME COLLECTED	23 DATA PKG LEVEL	24 TAT (calendar days)	Number of Bottles	25 ANALYSES REQUIRED: BTEX + MTBE + Naph (8260B)	26 SAMPLE TYPE	27 COMMENTS/SCREENING READINGS	28 LAB ID (for lab's use)
1	SW14-030918	SW-14	SW	03/09/18	11:10	2	7	3	X	N		-01
2	SW11-030918	SW-11	SW	03/09/18	08:50	2	7	3	X	N		02
3	SW10-030918	SW-10	SW	03/09/18	09:00	2	7	3	X	N		03
4	FP01-030918	FP-01	SW	03/09/18	09:10	2	7	3	X	N		04
5	FP02-030918	FP-02	SW	03/09/18	09:15	2	7	3	X	N		05
6	SW09-030918	SW-09	SW	03/09/18	09:25	2	7	3	X	N		06
7	SW08-030918	SW-08	SW	03/09/18	09:30	2	7	3	X	N		07
8	SW13-030918	SW-13	SW	03/09/18	09:40	2	7	3	X	N		08
9	FP03-030918	FP-03	SW	03/09/18	10:00	2	7	3	X	N		09
10	SW04-030918	SW-04	SW	03/09/18	10:05	2	7	3	X	N		10

29 SAMPLER(S) AND COMPANY: Melissa Warren/CH2M HILL

30 COURIER AND SHIPPING NUMBER: FedEx Number:

31 SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT (for lab's use)

32 RELINQUISHED BY (Printed Name and Signature)	DATE	TIME	33 RECEIVED BY (Printed Name and Signature)	DATE	TIME
Kyle Saxton [signature]	3-9-18	1600			
			[signature]	3-10-18	0845

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report), [ ] Copy 1 - Project File, [ ] Copy 2 - PMO

count = 48 VP + 1TB

2.2°c

COCSI

4142 5230 2321

SW SW-1

L976731

CH2MHILL

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 699858-mmddyy-01

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No., and Fax No.)
Lewis Drive - Belton, SC	699858.LD.MR.GW	ESC Lab Sciences Chris McCord	Bill Waldron wwaldron@ch2m.com	3120 Highwoods Blvd. Suite 214, Raleigh, NC 27604

PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No., and Fax No.)
Surface water sampling		Kinder Morgan	Bethany Garvey bgarvey@ch2m.com	6600 Peachtree-Dunwoody Rd, 400 Embassy Row, Suite 600, Atlanta, GA 30328 tel. 770.604.9182, fax. 770.604.9282

PROJECT CONTACT	PROJECT TEL NO AND FAX NO		FAX AND MAIL REPORTS/EDD TO: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.)
Bill Waldron	919-760-1777	615-758-5858 phone		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL	TAT (calendar days)	Number of Bottles	BTEX + MTBE + Naph (8260B)										SAMPLE TYPE	COMMENTS SCREENING READINGS	LAB ID (for lab's use)
1	SW02-030918	SW-02	SW	03/09/18	10:10	2	7	3	X										N		-11
2	SW01-030918	SW-01	SW	03/09/18	10:15	2	7	3	X										N		12
3	SW07-030918	SW-07	SW	03/09/18	10:20	2	7	3	X										N		13
4	SW12-030918	SW-12	SW	03/09/18	10:30	2	7	3	X										N		14
5	SW03-030918	SW-03	SW	03/09/18	10:40	2	7	3	X										N		15
6	SW05-030918	SW-05	SW	03/09/18	11:00	2	7	3	X										N		16
7	TB01-030818	Trip Blank	WQ	03/09/18	11:15	2	7	1	X										TB		17
8																					
9																					
10																					

SAMPLER(S) AND COMPANY (please print): Melissa Warren/CH2M HILL

COURIER AND SHIPPING NUMBER: FedEx Number:

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT (for lab's use):

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Kyle Sexton [signature]	3-9-18	1400	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature: [signature]	3-10-18	0845

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report) [ ] Copy 1 - Project File [ ] Copy 2 - PM

Count = 48 vl + 1TB

2.2 °C

COCSI

ESC LAB SCIENCES
Cooler Receipt Form

Client: KINCH2MGA	SDG#	L476731	
Cooler Received/Opened On: 3/ 10 /18	Temperature:	22°c	
Received By: Troy Dunlap			
Signature:			

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?		✓	
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?		✓	
Preservation Correct / Checked?			

Appendix C
Groundwater Analytical Laboratory Reports

ANALYTICAL REPORT

January 16, 2018

CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group:	L962304
Samples Received:	01/10/2018
Project Number:	699858.LD.MR.GW
Description:	Lewis Drive Groundwater
Site:	LEWIS DRIVE
Report To:	Bethany Garvey 6600 Peachtree Dunwoody Road 400 Embassy Row - Suite 600 Atlanta, GA 30328

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

MW-29-010918 L962304-01 GW

Collected by: M. Warren | Collected date/time: 01/09/18 09:00 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 07:50	01/11/18 07:50	JHH

MW-26-010918 L962304-02 GW

Collected by: M. Warren | Collected date/time: 01/09/18 09:15 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 08:07	01/11/18 08:07	JHH

MW-23-010918 L962304-03 GW

Collected by: M. Warren | Collected date/time: 01/09/18 09:25 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	10	01/11/18 08:24	01/11/18 08:24	JHH

MW-31-010918 L962304-04 GW

Collected by: M. Warren | Collected date/time: 01/09/18 09:45 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 08:40	01/11/18 08:40	JHH

MW-10-010918 L962304-05 GW

Collected by: M. Warren | Collected date/time: 01/09/18 10:00 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061597	1	01/11/18 08:57	01/11/18 08:57	JHH

MW-02-010918 L962304-06 GW

Collected by: M. Warren | Collected date/time: 01/09/18 10:10 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061683	10	01/11/18 12:34	01/11/18 12:34	LRL

MW-05-010918 L962304-07 GW

Collected by: M. Warren | Collected date/time: 01/09/18 10:20 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061683	1	01/11/18 12:56	01/11/18 12:56	LRL

MW-43-010918 L962304-08 GW

Collected by: M. Warren | Collected date/time: 01/09/18 11:05 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061683	1	01/11/18 13:17	01/11/18 13:17	LRL

MW-38-010918 L962304-09 GW

Collected by: M. Warren | Collected date/time: 01/09/18 11:25 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061683	1	01/11/18 13:38	01/11/18 13:38	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061683	5	01/12/18 01:42	01/12/18 01:42	JAH

MW-40-010918 L962304-10 GW

Collected by: M. Warren | Collected date/time: 01/09/18 12:00 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061683	200	01/12/18 02:03	01/12/18 02:03	JAH

MW-39-010918 L962304-11 GW

Collected by: M. Warren | Collected date/time: 01/09/18 11:50 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061683	5	01/12/18 02:23	01/12/18 02:23	JAH

MW-34-010918 L962304-12 GW

Collected by: M. Warren | Collected date/time: 01/09/18 11:40 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061683	10	01/11/18 14:42	01/11/18 14:42	LRL

MW-41-010918 L962304-13 GW

Collected by: M. Warren | Collected date/time: 01/09/18 13:20 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061683	1	01/11/18 15:04	01/11/18 15:04	LRL

MW-25-010918 L962304-14 GW

Collected by: M. Warren | Collected date/time: 01/09/18 13:25 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061683	1	01/11/18 15:25	01/11/18 15:25	LRL

MW-35-010918 L962304-15 GW

Collected by: M. Warren | Collected date/time: 01/09/18 13:35 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061683	1	01/11/18 15:46	01/11/18 15:46	LRL

MW-35-D-010918 L962304-16 GW

Collected by: M. Warren | Collected date/time: 01/09/18 13:40 | Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061683	1	01/11/18 16:08	01/11/18 16:08	LRL

TB01-010918 L962304-17 GW

Collected by: M. Warren
Collected date/time: 01/09/18 16:12
Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061683	1	01/11/18 11:52	01/11/18 11:52	LRL

FB01-010918 L962304-18 GW

Collected by: M. Warren
Collected date/time: 01/09/18 16:15
Received date/time: 01/10/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1061683	1	01/11/18 12:13	01/11/18 12:13	LRL

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 07:50	WG1061597
Toluene	ND		1.00	1	01/11/2018 07:50	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 07:50	WG1061597
Total Xylenes	ND		3.00	1	01/11/2018 07:50	WG1061597
Methyl tert-butyl ether	ND		1.00	1	01/11/2018 07:50	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 07:50	WG1061597
1,2-Dichloroethane	ND		1.00	1	01/11/2018 07:50	WG1061597
(S) Toluene-d8	*108*		*80.0-120*		*01/11/2018 07:50*	WG1061597
(S) Dibromofluoromethane	*96.1*		*76.0-123*		*01/11/2018 07:50*	WG1061597
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*01/11/2018 07:50*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 08:07	WG1061597
Toluene	6.20		1.00	1	01/11/2018 08:07	WG1061597
Ethylbenzene	1.79		1.00	1	01/11/2018 08:07	WG1061597
Total Xylenes	13.8		3.00	1	01/11/2018 08:07	WG1061597
Methyl tert-butyl ether	ND		1.00	1	01/11/2018 08:07	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 08:07	WG1061597
1,2-Dichloroethane	ND		1.00	1	01/11/2018 08:07	WG1061597
(S) Toluene-d8	*107*		*80.0-120*		*01/11/2018 08:07*	WG1061597
(S) Dibromofluoromethane	*88.1*		*76.0-123*		*01/11/2018 08:07*	WG1061597
(S) 4-Bromofluorobenzene	*107*		*80.0-120*		*01/11/2018 08:07*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	127		10.0	10	01/11/2018 08:24	WG1061597
Toluene	ND		10.0	10	01/11/2018 08:24	WG1061597
Ethylbenzene	ND		10.0	10	01/11/2018 08:24	WG1061597
Total Xylenes	137		30.0	10	01/11/2018 08:24	WG1061597
Methyl tert-butyl ether	69.6		10.0	10	01/11/2018 08:24	WG1061597
Naphthalene	ND		50.0	10	01/11/2018 08:24	WG1061597
1,2-Dichloroethane	ND		10.0	10	01/11/2018 08:24	WG1061597
(S) Toluene-d8	*108*		*80.0-120*		*01/11/2018 08:24*	WG1061597
(S) Dibromofluoromethane	*89.1*		*76.0-123*		*01/11/2018 08:24*	WG1061597
(S) 4-Bromofluorobenzene	*107*		*80.0-120*		*01/11/2018 08:24*	WG1061597

Sample Narrative:

L962304-03 WG1061597: Non-target compounds too high to run at a lower dilution.

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 08:40	WG1061597
Toluene	ND		1.00	1	01/11/2018 08:40	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 08:40	WG1061597
Total Xylenes	ND		3.00	1	01/11/2018 08:40	WG1061597
Methyl tert-butyl ether	ND		1.00	1	01/11/2018 08:40	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 08:40	WG1061597
1,2-Dichloroethane	ND		1.00	1	01/11/2018 08:40	WG1061597
(S) Toluene-d8	*105*		*80.0-120*		*01/11/2018 08:40*	WG1061597
(S) Dibromofluoromethane	*90.7*		*76.0-123*		*01/11/2018 08:40*	WG1061597
(S) 4-Bromofluorobenzene	*107*		*80.0-120*		*01/11/2018 08:40*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 08:57	WG1061597
Toluene	ND		1.00	1	01/11/2018 08:57	WG1061597
Ethylbenzene	ND		1.00	1	01/11/2018 08:57	WG1061597
Total Xylenes	ND		3.00	1	01/11/2018 08:57	WG1061597
Methyl tert-butyl ether	ND		1.00	1	01/11/2018 08:57	WG1061597
Naphthalene	ND		5.00	1	01/11/2018 08:57	WG1061597
1,2-Dichloroethane	ND		1.00	1	01/11/2018 08:57	WG1061597
(S) Toluene-d8	*108*		*80.0-120*		*01/11/2018 08:57*	WG1061597
(S) Dibromofluoromethane	*89.4*		*76.0-123*		*01/11/2018 08:57*	WG1061597
(S) 4-Bromofluorobenzene	*106*		*80.0-120*		*01/11/2018 08:57*	WG1061597

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	307		10.0	10	01/11/2018 12:34	WG1061683
Toluene	878		10.0	10	01/11/2018 12:34	WG1061683
Ethylbenzene	ND		10.0	10	01/11/2018 12:34	WG1061683
Total Xylenes	1300		30.0	10	01/11/2018 12:34	WG1061683
Methyl tert-butyl ether	61.8		10.0	10	01/11/2018 12:34	WG1061683
Naphthalene	63.7		50.0	10	01/11/2018 12:34	WG1061683
1,2-Dichloroethane	ND		10.0	10	01/11/2018 12:34	WG1061683
(S) Toluene-d8	*102*		*80.0-120*		*01/11/2018 12:34*	WG1061683
(S) Dibromofluoromethane	*88.0*		*76.0-123*		*01/11/2018 12:34*	WG1061683
(S) 4-Bromofluorobenzene	*108*		*80.0-120*		*01/11/2018 12:34*	WG1061683

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 12:56	WG1061683
Toluene	ND		1.00	1	01/11/2018 12:56	WG1061683
Ethylbenzene	ND		1.00	1	01/11/2018 12:56	WG1061683
Total Xylenes	ND		3.00	1	01/11/2018 12:56	WG1061683
Methyl tert-butyl ether	ND		1.00	1	01/11/2018 12:56	WG1061683
Naphthalene	ND		5.00	1	01/11/2018 12:56	WG1061683
1,2-Dichloroethane	ND		1.00	1	01/11/2018 12:56	WG1061683
(S) Toluene-d8	*105*		*80.0-120*		*01/11/2018 12:56*	WG1061683
(S) Dibromofluoromethane	*87.8*		*76.0-123*		*01/11/2018 12:56*	WG1061683
(S) 4-Bromofluorobenzene	*109*		*80.0-120*		*01/11/2018 12:56*	WG1061683

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 13:17	WG1061683
Toluene	ND		1.00	1	01/11/2018 13:17	WG1061683
Ethylbenzene	ND		1.00	1	01/11/2018 13:17	WG1061683
Total Xylenes	ND		3.00	1	01/11/2018 13:17	WG1061683
Methyl tert-butyl ether	ND		1.00	1	01/11/2018 13:17	WG1061683
Naphthalene	ND		5.00	1	01/11/2018 13:17	WG1061683
1,2-Dichloroethane	ND		1.00	1	01/11/2018 13:17	WG1061683
(S) Toluene-d8	*102*		*80.0-120*		*01/11/2018 13:17*	WG1061683
(S) Dibromofluoromethane	*88.5*		*76.0-123*		*01/11/2018 13:17*	WG1061683
(S) 4-Bromofluorobenzene	*109*		*80.0-120*		*01/11/2018 13:17*	WG1061683

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	311		5.00	5	01/12/2018 01:42	WG1061683
Toluene	2.31		1.00	1	01/11/2018 13:38	WG1061683
Ethylbenzene	ND		1.00	1	01/11/2018 13:38	WG1061683
Total Xylenes	158		3.00	1	01/11/2018 13:38	WG1061683
Methyl tert-butyl ether	49.4		1.00	1	01/11/2018 13:38	WG1061683
Naphthalene	ND		5.00	1	01/11/2018 13:38	WG1061683
1,2-Dichloroethane	ND		1.00	1	01/11/2018 13:38	WG1061683
(S) Toluene-d8	*104*		*80.0-120*		*01/11/2018 13:38*	WG1061683
(S) Toluene-d8	*104*		*80.0-120*		*01/12/2018 01:42*	WG1061683
(S) Dibromofluoromethane	*101*		*76.0-123*		*01/12/2018 01:42*	WG1061683
(S) Dibromofluoromethane	*81.6*		*76.0-123*		*01/11/2018 13:38*	WG1061683
(S) 4-Bromofluorobenzene	*92.7*		*80.0-120*		*01/12/2018 01:42*	WG1061683
(S) 4-Bromofluorobenzene	*107*		*80.0-120*		*01/11/2018 13:38*	WG1061683

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	12400		200	200	01/12/2018 02:03	WG1061683
Toluene	22300		200	200	01/12/2018 02:03	WG1061683
Ethylbenzene	773		200	200	01/12/2018 02:03	WG1061683
Total Xylenes	10200		600	200	01/12/2018 02:03	WG1061683
Methyl tert-butyl ether	497		200	200	01/12/2018 02:03	WG1061683
Naphthalene	ND		1000	200	01/12/2018 02:03	WG1061683
1,2-Dichloroethane	ND		200	200	01/12/2018 02:03	WG1061683
(S) Toluene-d8	*106*		*80.0-120*		*01/12/2018 02:03*	WG1061683
(S) Dibromofluoromethane	*97.8*		*76.0-123*		*01/12/2018 02:03*	WG1061683
(S) 4-Bromofluorobenzene	*95.1*		*80.0-120*		*01/12/2018 02:03*	WG1061683

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	23.8		5.00	5	01/12/2018 02:23	WG1061683
Toluene	ND		5.00	5	01/12/2018 02:23	WG1061683
Ethylbenzene	ND		5.00	5	01/12/2018 02:23	WG1061683
Total Xylenes	ND		15.0	5	01/12/2018 02:23	WG1061683
Methyl tert-butyl ether	370		5.00	5	01/12/2018 02:23	WG1061683
Naphthalene	ND		25.0	5	01/12/2018 02:23	WG1061683
1,2-Dichloroethane	ND		5.00	5	01/12/2018 02:23	WG1061683
(S) Toluene-d8	*103*		*80.0-120*		*01/12/2018 02:23*	WG1061683
(S) Dibromofluoromethane	*101*		*76.0-123*		*01/12/2018 02:23*	WG1061683
(S) 4-Bromofluorobenzene	*95.1*		*80.0-120*		*01/12/2018 02:23*	WG1061683

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	147		10.0	10	01/11/2018 14:42	WG1061683
Toluene	13.1		10.0	10	01/11/2018 14:42	WG1061683
Ethylbenzene	ND		10.0	10	01/11/2018 14:42	WG1061683
Total Xylenes	79.8		30.0	10	01/11/2018 14:42	WG1061683
Methyl tert-butyl ether	246		10.0	10	01/11/2018 14:42	WG1061683
Naphthalene	ND		50.0	10	01/11/2018 14:42	WG1061683
1,2-Dichloroethane	ND		10.0	10	01/11/2018 14:42	WG1061683
(S) Toluene-d8	*102*		*80.0-120*		*01/11/2018 14:42*	WG1061683
(S) Dibromofluoromethane	*90.7*		*76.0-123*		*01/11/2018 14:42*	WG1061683
(S) 4-Bromofluorobenzene	*110*		*80.0-120*		*01/11/2018 14:42*	WG1061683

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	2.06		1.00	1	01/11/2018 15:04	WG1061683
Toluene	ND		1.00	1	01/11/2018 15:04	WG1061683
Ethylbenzene	ND		1.00	1	01/11/2018 15:04	WG1061683
Total Xylenes	ND		3.00	1	01/11/2018 15:04	WG1061683
Methyl tert-butyl ether	1.43		1.00	1	01/11/2018 15:04	WG1061683
Naphthalene	ND		5.00	1	01/11/2018 15:04	WG1061683
1,2-Dichloroethane	ND		1.00	1	01/11/2018 15:04	WG1061683
(S) Toluene-d8	*104*		*80.0-120*		*01/11/2018 15:04*	WG1061683
(S) Dibromofluoromethane	*90.0*		*76.0-123*		*01/11/2018 15:04*	WG1061683
(S) 4-Bromofluorobenzene	*110*		*80.0-120*		*01/11/2018 15:04*	WG1061683

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	72.0		1.00	1	01/11/2018 15:25	WG1061683
Toluene	ND		1.00	1	01/11/2018 15:25	WG1061683
Ethylbenzene	2.74		1.00	1	01/11/2018 15:25	WG1061683
Total Xylenes	111		3.00	1	01/11/2018 15:25	WG1061683
Methyl tert-butyl ether	ND		1.00	1	01/11/2018 15:25	WG1061683
Naphthalene	ND		5.00	1	01/11/2018 15:25	WG1061683
1,2-Dichloroethane	ND		1.00	1	01/11/2018 15:25	WG1061683
(S) Toluene-d8	*104*		*80.0-120*		*01/11/2018 15:25*	WG1061683
(S) Dibromofluoromethane	*87.9*		*76.0-123*		*01/11/2018 15:25*	WG1061683
(S) 4-Bromofluorobenzene	*108*		*80.0-120*		*01/11/2018 15:25*	WG1061683

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 15:46	WG1061683
Toluene	ND		1.00	1	01/11/2018 15:46	WG1061683
Ethylbenzene	ND		1.00	1	01/11/2018 15:46	WG1061683
Total Xylenes	ND		3.00	1	01/11/2018 15:46	WG1061683
Methyl tert-butyl ether	ND		1.00	1	01/11/2018 15:46	WG1061683
Naphthalene	ND		5.00	1	01/11/2018 15:46	WG1061683
1,2-Dichloroethane	ND		1.00	1	01/11/2018 15:46	WG1061683
(S) Toluene-d8	*103*		*80.0-120*		*01/11/2018 15:46*	WG1061683
(S) Dibromofluoromethane	*90.9*		*76.0-123*		*01/11/2018 15:46*	WG1061683
(S) 4-Bromofluorobenzene	*110*		*80.0-120*		*01/11/2018 15:46*	WG1061683

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 16:08	WG1061683
Toluene	ND		1.00	1	01/11/2018 16:08	WG1061683
Ethylbenzene	ND		1.00	1	01/11/2018 16:08	WG1061683
Total Xylenes	ND		3.00	1	01/11/2018 16:08	WG1061683
Methyl tert-butyl ether	ND		1.00	1	01/11/2018 16:08	WG1061683
Naphthalene	ND		5.00	1	01/11/2018 16:08	WG1061683
1,2-Dichloroethane	ND		1.00	1	01/11/2018 16:08	WG1061683
(S) Toluene-d8	*103*		*80.0-120*		*01/11/2018 16:08*	WG1061683
(S) Dibromofluoromethane	*88.8*		*76.0-123*		*01/11/2018 16:08*	WG1061683
(S) 4-Bromofluorobenzene	*110*		*80.0-120*		*01/11/2018 16:08*	WG1061683

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 11:52	WG1061683
Toluene	ND		1.00	1	01/11/2018 11:52	WG1061683
Ethylbenzene	ND		1.00	1	01/11/2018 11:52	WG1061683
Total Xylenes	ND		3.00	1	01/11/2018 11:52	WG1061683
Methyl tert-butyl ether	ND		1.00	1	01/11/2018 11:52	WG1061683
Naphthalene	ND		5.00	1	01/11/2018 11:52	WG1061683
1,2-Dichloroethane	ND		1.00	1	01/11/2018 11:52	WG1061683
(S) Toluene-d8	*105*		*80.0-120*		*01/11/2018 11:52*	WG1061683
(S) Dibromofluoromethane	*89.0*		*76.0-123*		*01/11/2018 11:52*	WG1061683
(S) 4-Bromofluorobenzene	*110*		*80.0-120*		*01/11/2018 11:52*	WG1061683

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	01/11/2018 12:13	WG1061683
Toluene	ND		1.00	1	01/11/2018 12:13	WG1061683
Ethylbenzene	ND		1.00	1	01/11/2018 12:13	WG1061683
Total Xylenes	ND		3.00	1	01/11/2018 12:13	WG1061683
Methyl tert-butyl ether	ND		1.00	1	01/11/2018 12:13	WG1061683
Naphthalene	ND		5.00	1	01/11/2018 12:13	WG1061683
1,2-Dichloroethane	ND		1.00	1	01/11/2018 12:13	WG1061683
(S) Toluene-d8	*105*		*80.0-120*		*01/11/2018 12:13*	WG1061683
(S) Dibromofluoromethane	*89.0*		*76.0-123*		*01/11/2018 12:13*	WG1061683
(S) 4-Bromofluorobenzene	*108*		*80.0-120*		*01/11/2018 12:13*	WG1061683

Method Blank (MB)

(MB) R3278730-2 01/10/18 23:45

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*106*			*80.0-120*
(S) Dibromofluoromethane	*91.5*			*76.0-123*
(S) 4-Bromofluorobenzene	*103*			*80.0-120*

Laboratory Control Sample (LCS)

(LCS) R3278730-1 01/10/18 22:34

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	25.0	21.5	86.0	70.0-130	
1,2-Dichloroethane	25.0	23.3	93.1	70.0-130	
Ethylbenzene	25.0	25.8	103	70.0-130	
Methyl tert-butyl ether	25.0	23.0	91.9	70.0-130	
Naphthalene	25.0	21.3	85.3	70.0-130	
Toluene	25.0	24.2	96.8	70.0-130	
Xylenes, Total	75.0	77.5	103	70.0-130	
(S) Toluene-d8			*106*	*80.0-120*	
(S) Dibromofluoromethane			*89.2*	*76.0-123*	
(S) 4-Bromofluorobenzene			*103*	*80.0-120*	

Method Blank (MB)

(MB) R3278852-2 01/11/18 11:15

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*105*			*80.0-120*
(S) Dibromofluoromethane	*87.4*			*76.0-123*
(S) 4-Bromofluorobenzene	*109*			*80.0-120*

Laboratory Control Sample (LCS)

(LCS) R3278852-1 01/11/18 10:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	25.0	23.3	93.4	70.0-130	
1,2-Dichloroethane	25.0	26.4	105	70.0-130	
Ethylbenzene	25.0	26.3	105	70.0-130	
Methyl tert-butyl ether	25.0	25.0	100	70.0-130	
Naphthalene	25.0	25.1	101	70.0-130	
Toluene	25.0	26.2	105	70.0-130	
Xylenes, Total	75.0	78.6	105	70.0-130	
(S) Toluene-d8			*99.1*	*80.0-120*	
(S) Dibromofluoromethane			*85.7*	*76.0-123*	
(S) 4-Bromofluorobenzene			*103*	*80.0-120*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

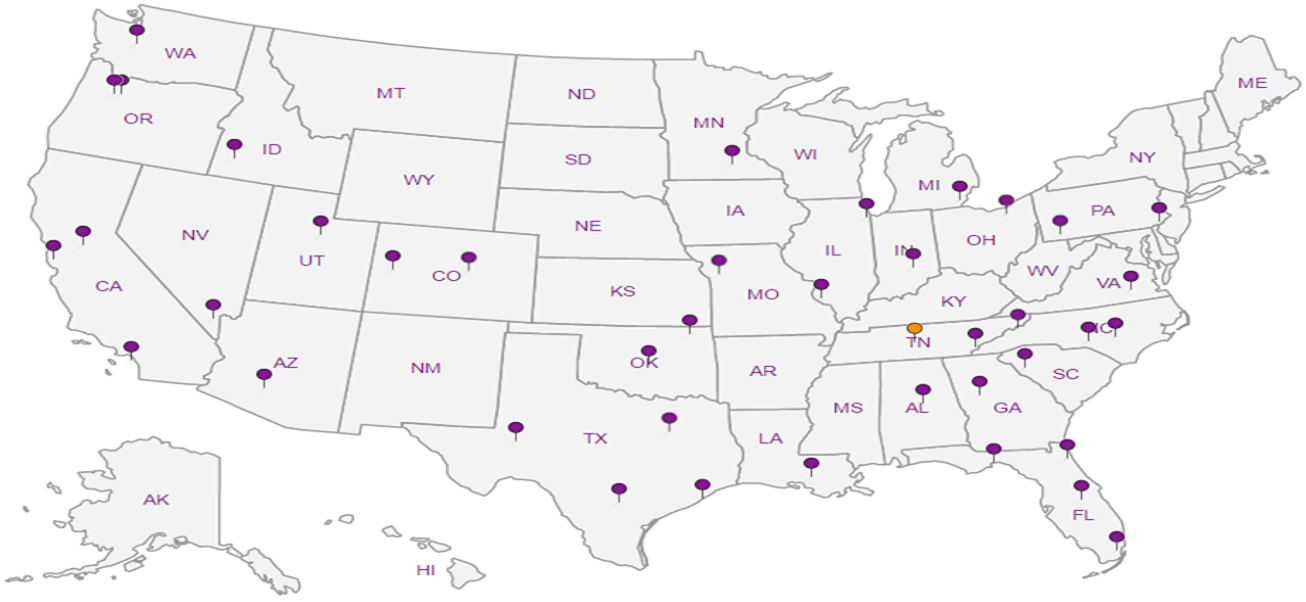
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Groundwater

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 699858.LD.MR.GW

Lab Project # KINCH2MGA-LEWIS12

Collected by (print): M. WARREN

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature): Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEXMNSC 40mlAmb-HCl	V8260BTEXMNSC-TB 40mlAmb-HCl-Blk	BTEX	MTBE	NAPHTHALENE	1,2-DCA only					Remarks	Sample # (lab only)
MW-29-010918	GRAB	GW	NA	01/09/18	0900	3	X		X	X	X	X						-01
MW-26-010918		GW			0915	3	X		X	X	X	X						02
MW-23-010918		GW			0925	3	X		X	X	X	X						03
MW-31-010918		GW			0945	3	X		X	X	X	X						04
MW-10-010918		GW			1000	3	X		X	X	X	X						05
MW-02-010918		GW			1010	3	X		X	X	X	X						06
MW-05-010918		GW			1020	3	X		X	X	X	X						07
MW-43-010918		GW			1105	3	X		X	X	X	X						08
MW-38-010918		GW			1125	3	X		X	X	X	X						09
MW-40-010918		GW			1200	3	X		X	X	X	X						10

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LABORATORIES
a subsidiary of Accutest
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L962304
E033
Acctnum: KINCH2MGA
Template: T131319
Prelogin: P634219
TSR: 526 - Chris McCord
PB: 1-3-18 GM
Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: X UPS ___ FedEx ___ Courier ___

Tracking # 4142 5230 2284

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	01/09/18	1745		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.7 °C Bottles Received: 52
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 1/10/18 Time: 8:45

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Chain of Custody Page 2 of 2

CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Groundwater

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 699858.LD.MR.GW

Lab Project # KINCH2MGA-LEWIS12

Collected by (print): M. WARLEY

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N X Y ___

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEXMNSC 40mlAmb-HCl	V8260BTEXMNSC-TB 40mlAmb-HCl-Blk	BTEX	MTBE	NAPHTHALENE	1,2-DCA ONLY					Remarks	Sample # (lab only)
MW-39-010918	GRAB	GW	NA	01/09/18	1150	3	X		X	X	X	X						-11
MW-34-010918		GW			1140	3	X											12
MW-41-010918		GW			1320	3	X											13
MW-25-010918		GW			1325	3	X											14
MW-35-010918		GW			1335	3	X											15
MW-35-D-010918		GW			1340	3	X											16
TB01-010918		GW			1612	3	X	X										17
FB01-010918		GW			1615	3	X	X										18
		GW				3	X											
		GW				3	X											

Analysis / Container / Preservative

Chain of Custody

ESC LABORATORY SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L962304

Table #

Acctnum: KINCH2MGA

Template: T131319

Prelogin: P634219

TSR: 526 - Chris McCord

PB: 1-3-18 GN

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	01/09/18	1745		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.9 °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 1/10/18 Time: 8:45

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

February 14, 2018

CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group:	L968338
Samples Received:	02/07/2018
Project Number:	699858.LD.MR.GW
Description:	Lewis Drive Groundwater
Site:	LEWIS DRIVE
Report To:	Bethany Garvey 6600 Peachtree Dunwoody Road 400 Embassy Row - Suite 600 Atlanta, GA 30328

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

MW-29-020618 L968338-01 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 08:05 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/10/18 21:21	02/10/18 21:21	BMB

MW-26-020618 L968338-02 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 08:15 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/10/18 21:41	02/10/18 21:41	BMB

MW-23-020618 L968338-03 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 08:25 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/13/18 11:43	02/13/18 11:43	JAH

MW-43-020618 L968338-04 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 09:00 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/10/18 22:20	02/10/18 22:20	BMB

MW-38-020618 L968338-05 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 09:10 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	5	02/10/18 22:39	02/10/18 22:39	BMB

MW-34-020618 L968338-06 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 09:20 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	10	02/10/18 22:59	02/10/18 22:59	BMB

MW-39-020618 L968338-07 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 09:30 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	5	02/10/18 23:19	02/10/18 23:19	BMB

MW-40-020618 L968338-08 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 09:35 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	200	02/10/18 23:38	02/10/18 23:38	BMB

MW-41-020618 L968338-09 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 09:45 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/10/18 23:58	02/10/18 23:58	BMB

MW-25-020618 L968338-10 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 09:55 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/11/18 00:17	02/11/18 00:17	BMB

MW-35-020618 L968338-11 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 10:05 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/11/18 00:37	02/11/18 00:37	BMB

MW-28-020618 L968338-12 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 10:15 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/13/18 12:02	02/13/18 12:02	JAH

MW-31-020618 L968338-13 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 10:45 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/11/18 01:16	02/11/18 01:16	BMB

MW-10-020618 L968338-14 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 11:05 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/11/18 01:36	02/11/18 01:36	BMB

MW-10-D-020618 L968338-15 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 11:10 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/11/18 01:55	02/11/18 01:55	BMB

MW-03-020618 L968338-16 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 11:20 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/11/18 02:15	02/11/18 02:15	BMB

MW-02-020618 L968338-17 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 11:30 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/13/18 12:21	02/13/18 12:21	JAH

MW-05-020618 L968338-18 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 11:40 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/11/18 02:54	02/11/18 02:54	BMB

FB01-020618 L968338-19 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 11:50 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/11/18 03:13	02/11/18 03:13	BMB

MW-30-020618 L968338-20 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 12:00 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071136	1	02/11/18 03:33	02/11/18 03:33	BMB

TB01-020618 L968338-21 GW

Collected by: Melissa Warren | Collected date/time: 02/06/18 11:52 | Received date/time: 02/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1071291	1	02/08/18 11:01	02/08/18 11:01	BMB

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/10/2018 21:21	WG1071136
Toluene	ND		1.00	1	02/10/2018 21:21	WG1071136
Ethylbenzene	ND		1.00	1	02/10/2018 21:21	WG1071136
Total Xylenes	ND		3.00	1	02/10/2018 21:21	WG1071136
Methyl tert-butyl ether	ND		1.00	1	02/10/2018 21:21	WG1071136
Naphthalene	ND		5.00	1	02/10/2018 21:21	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/10/2018 21:21	WG1071136
(S) Toluene-d8	*105*		*80.0-120*		*02/10/2018 21:21*	WG1071136
(S) Dibromofluoromethane	*97.8*		*76.0-123*		*02/10/2018 21:21*	WG1071136
(S) 4-Bromofluorobenzene	*97.5*		*80.0-120*		*02/10/2018 21:21*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	02/10/2018 21:41	WG1071136
Toluene	ND		1.00	1	02/10/2018 21:41	WG1071136
Ethylbenzene	ND		1.00	1	02/10/2018 21:41	WG1071136
Total Xylenes	ND		3.00	1	02/10/2018 21:41	WG1071136
Methyl tert-butyl ether	ND		1.00	1	02/10/2018 21:41	WG1071136
Naphthalene	ND		5.00	1	02/10/2018 21:41	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/10/2018 21:41	WG1071136
(S) Toluene-d8	*107*		*80.0-120*		*02/10/2018 21:41*	WG1071136
(S) Dibromofluoromethane	*97.5*		*76.0-123*		*02/10/2018 21:41*	WG1071136
(S) 4-Bromofluorobenzene	*98.6*		*80.0-120*		*02/10/2018 21:41*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	1.10		1.00	1	02/13/2018 11:43	WG1071136
Toluene	ND		1.00	1	02/13/2018 11:43	WG1071136
Ethylbenzene	ND		1.00	1	02/13/2018 11:43	WG1071136
Total Xylenes	ND		3.00	1	02/13/2018 11:43	WG1071136
Methyl tert-butyl ether	33.8		1.00	1	02/13/2018 11:43	WG1071136
Naphthalene	ND		5.00	1	02/13/2018 11:43	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/13/2018 11:43	WG1071136
(S) Toluene-d8	*98.0*		*80.0-120*		*02/13/2018 11:43*	WG1071136
(S) Dibromofluoromethane	*98.5*		*76.0-123*		*02/13/2018 11:43*	WG1071136
(S) 4-Bromofluorobenzene	*99.7*		*80.0-120*		*02/13/2018 11:43*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/10/2018 22:20	WG1071136
Toluene	ND		1.00	1	02/10/2018 22:20	WG1071136
Ethylbenzene	ND		1.00	1	02/10/2018 22:20	WG1071136
Total Xylenes	ND		3.00	1	02/10/2018 22:20	WG1071136
Methyl tert-butyl ether	ND		1.00	1	02/10/2018 22:20	WG1071136
Naphthalene	ND		5.00	1	02/10/2018 22:20	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/10/2018 22:20	WG1071136
(S) Toluene-d8	*106*		*80.0-120*		*02/10/2018 22:20*	WG1071136
(S) Dibromofluoromethane	*99.0*		*76.0-123*		*02/10/2018 22:20*	WG1071136
(S) 4-Bromofluorobenzene	*97.6*		*80.0-120*		*02/10/2018 22:20*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	389		5.00	5	02/10/2018 22:39	WG1071136
Toluene	ND		5.00	5	02/10/2018 22:39	WG1071136
Ethylbenzene	ND		5.00	5	02/10/2018 22:39	WG1071136
Total Xylenes	208		15.0	5	02/10/2018 22:39	WG1071136
Methyl tert-butyl ether	48.8		5.00	5	02/10/2018 22:39	WG1071136
Naphthalene	ND		25.0	5	02/10/2018 22:39	WG1071136
1,2-Dichloroethane	ND		5.00	5	02/10/2018 22:39	WG1071136
(S) Toluene-d8	*107*		*80.0-120*		*02/10/2018 22:39*	WG1071136
(S) Dibromofluoromethane	*97.9*		*76.0-123*		*02/10/2018 22:39*	WG1071136
(S) 4-Bromofluorobenzene	*98.8*		*80.0-120*		*02/10/2018 22:39*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	249		10.0	10	02/10/2018 22:59	WG1071136
Toluene	19.2		10.0	10	02/10/2018 22:59	WG1071136
Ethylbenzene	ND		10.0	10	02/10/2018 22:59	WG1071136
Total Xylenes	88.3		30.0	10	02/10/2018 22:59	WG1071136
Methyl tert-butyl ether	191		10.0	10	02/10/2018 22:59	WG1071136
Naphthalene	ND		50.0	10	02/10/2018 22:59	WG1071136
1,2-Dichloroethane	ND		10.0	10	02/10/2018 22:59	WG1071136
(S) Toluene-d8	*107*		*80.0-120*		*02/10/2018 22:59*	WG1071136
(S) Dibromofluoromethane	*97.2*		*76.0-123*		*02/10/2018 22:59*	WG1071136
(S) 4-Bromofluorobenzene	*99.0*		*80.0-120*		*02/10/2018 22:59*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	46.9		5.00	5	02/10/2018 23:19	WG1071136
Toluene	ND		5.00	5	02/10/2018 23:19	WG1071136
Ethylbenzene	ND		5.00	5	02/10/2018 23:19	WG1071136
Total Xylenes	ND		15.0	5	02/10/2018 23:19	WG1071136
Methyl tert-butyl ether	263		5.00	5	02/10/2018 23:19	WG1071136
Naphthalene	ND		25.0	5	02/10/2018 23:19	WG1071136
1,2-Dichloroethane	ND		5.00	5	02/10/2018 23:19	WG1071136
(S) Toluene-d8	*106*		*80.0-120*		*02/10/2018 23:19*	WG1071136
(S) Dibromofluoromethane	*96.7*		*76.0-123*		*02/10/2018 23:19*	WG1071136
(S) 4-Bromofluorobenzene	*99.8*		*80.0-120*		*02/10/2018 23:19*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	11100		200	200	02/10/2018 23:38	WG1071136
Toluene	20300		200	200	02/10/2018 23:38	WG1071136
Ethylbenzene	777		200	200	02/10/2018 23:38	WG1071136
Total Xylenes	9350		600	200	02/10/2018 23:38	WG1071136
Methyl tert-butyl ether	373		200	200	02/10/2018 23:38	WG1071136
Naphthalene	ND		1000	200	02/10/2018 23:38	WG1071136
1,2-Dichloroethane	ND		200	200	02/10/2018 23:38	WG1071136
(S) Toluene-d8	*107*		*80.0-120*		*02/10/2018 23:38*	WG1071136
(S) Dibromofluoromethane	*98.8*		*76.0-123*		*02/10/2018 23:38*	WG1071136
(S) 4-Bromofluorobenzene	*98.6*		*80.0-120*		*02/10/2018 23:38*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/10/2018 23:58	WG1071136
Toluene	ND		1.00	1	02/10/2018 23:58	WG1071136
Ethylbenzene	ND		1.00	1	02/10/2018 23:58	WG1071136
Total Xylenes	ND		3.00	1	02/10/2018 23:58	WG1071136
Methyl tert-butyl ether	ND		1.00	1	02/10/2018 23:58	WG1071136
Naphthalene	ND		5.00	1	02/10/2018 23:58	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/10/2018 23:58	WG1071136
(S) Toluene-d8	*108*		*80.0-120*		*02/10/2018 23:58*	WG1071136
(S) Dibromofluoromethane	*98.5*		*76.0-123*		*02/10/2018 23:58*	WG1071136
(S) 4-Bromofluorobenzene	*100*		*80.0-120*		*02/10/2018 23:58*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	10.8		1.00	1	02/11/2018 00:17	WG1071136
Toluene	ND		1.00	1	02/11/2018 00:17	WG1071136
Ethylbenzene	ND		1.00	1	02/11/2018 00:17	WG1071136
Total Xylenes	19.3		3.00	1	02/11/2018 00:17	WG1071136
Methyl tert-butyl ether	ND		1.00	1	02/11/2018 00:17	WG1071136
Naphthalene	ND		5.00	1	02/11/2018 00:17	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/11/2018 00:17	WG1071136
(S) Toluene-d8	*106*		*80.0-120*		*02/11/2018 00:17*	WG1071136
(S) Dibromofluoromethane	*97.8*		*76.0-123*		*02/11/2018 00:17*	WG1071136
(S) 4-Bromofluorobenzene	*98.8*		*80.0-120*		*02/11/2018 00:17*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/11/2018 00:37	WG1071136
Toluene	ND		1.00	1	02/11/2018 00:37	WG1071136
Ethylbenzene	ND		1.00	1	02/11/2018 00:37	WG1071136
Total Xylenes	ND		3.00	1	02/11/2018 00:37	WG1071136
Methyl tert-butyl ether	ND		1.00	1	02/11/2018 00:37	WG1071136
Naphthalene	ND		5.00	1	02/11/2018 00:37	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/11/2018 00:37	WG1071136
(S) Toluene-d8	*105*		*80.0-120*		*02/11/2018 00:37*	WG1071136
(S) Dibromofluoromethane	*98.6*		*76.0-123*		*02/11/2018 00:37*	WG1071136
(S) 4-Bromofluorobenzene	*99.9*		*80.0-120*		*02/11/2018 00:37*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/13/2018 12:02	WG1071136
Toluene	ND		1.00	1	02/13/2018 12:02	WG1071136
Ethylbenzene	ND		1.00	1	02/13/2018 12:02	WG1071136
Total Xylenes	ND		3.00	1	02/13/2018 12:02	WG1071136
Methyl tert-butyl ether	ND		1.00	1	02/13/2018 12:02	WG1071136
Naphthalene	ND		5.00	1	02/13/2018 12:02	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/13/2018 12:02	WG1071136
(S) Toluene-d8	*100*		*80.0-120*		*02/13/2018 12:02*	WG1071136
(S) Dibromofluoromethane	*98.2*		*76.0-123*		*02/13/2018 12:02*	WG1071136
(S) 4-Bromofluorobenzene	*97.8*		*80.0-120*		*02/13/2018 12:02*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/11/2018 01:16	WG1071136
Toluene	ND		1.00	1	02/11/2018 01:16	WG1071136
Ethylbenzene	ND		1.00	1	02/11/2018 01:16	WG1071136
Total Xylenes	ND		3.00	1	02/11/2018 01:16	WG1071136
Methyl tert-butyl ether	ND		1.00	1	02/11/2018 01:16	WG1071136
Naphthalene	ND		5.00	1	02/11/2018 01:16	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/11/2018 01:16	WG1071136
(S) Toluene-d8	*106*		*80.0-120*		*02/11/2018 01:16*	WG1071136
(S) Dibromofluoromethane	*97.5*		*76.0-123*		*02/11/2018 01:16*	WG1071136
(S) 4-Bromofluorobenzene	*98.3*		*80.0-120*		*02/11/2018 01:16*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/11/2018 01:36	WG1071136
Toluene	ND		1.00	1	02/11/2018 01:36	WG1071136
Ethylbenzene	ND		1.00	1	02/11/2018 01:36	WG1071136
Total Xylenes	ND		3.00	1	02/11/2018 01:36	WG1071136
Methyl tert-butyl ether	ND		1.00	1	02/11/2018 01:36	WG1071136
Naphthalene	ND		5.00	1	02/11/2018 01:36	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/11/2018 01:36	WG1071136
(S) Toluene-d8	*107*		*80.0-120*		*02/11/2018 01:36*	WG1071136
(S) Dibromofluoromethane	*98.1*		*76.0-123*		*02/11/2018 01:36*	WG1071136
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*02/11/2018 01:36*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/11/2018 01:55	WG1071136
Toluene	ND		1.00	1	02/11/2018 01:55	WG1071136
Ethylbenzene	ND		1.00	1	02/11/2018 01:55	WG1071136
Total Xylenes	ND		3.00	1	02/11/2018 01:55	WG1071136
Methyl tert-butyl ether	ND		1.00	1	02/11/2018 01:55	WG1071136
Naphthalene	ND		5.00	1	02/11/2018 01:55	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/11/2018 01:55	WG1071136
(S) Toluene-d8	*105*		*80.0-120*		*02/11/2018 01:55*	WG1071136
(S) Dibromofluoromethane	*97.7*		*76.0-123*		*02/11/2018 01:55*	WG1071136
(S) 4-Bromofluorobenzene	*99.9*		*80.0-120*		*02/11/2018 01:55*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/11/2018 02:15	WG1071136
Toluene	ND		1.00	1	02/11/2018 02:15	WG1071136
Ethylbenzene	ND		1.00	1	02/11/2018 02:15	WG1071136
Total Xylenes	ND		3.00	1	02/11/2018 02:15	WG1071136
Methyl tert-butyl ether	ND		1.00	1	02/11/2018 02:15	WG1071136
Naphthalene	ND		5.00	1	02/11/2018 02:15	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/11/2018 02:15	WG1071136
(S) Toluene-d8	*108*		*80.0-120*		*02/11/2018 02:15*	WG1071136
(S) Dibromofluoromethane	*98.8*		*76.0-123*		*02/11/2018 02:15*	WG1071136
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*02/11/2018 02:15*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	30.5		1.00	1	02/13/2018 12:21	WG1071136
Toluene	29.6		1.00	1	02/13/2018 12:21	WG1071136
Ethylbenzene	1.09		1.00	1	02/13/2018 12:21	WG1071136
Total Xylenes	88.3		3.00	1	02/13/2018 12:21	WG1071136
Methyl tert-butyl ether	32.0		1.00	1	02/13/2018 12:21	WG1071136
Naphthalene	ND		5.00	1	02/13/2018 12:21	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/13/2018 12:21	WG1071136
(S) Toluene-d8	*98.9*		*80.0-120*		*02/13/2018 12:21*	WG1071136
(S) Dibromofluoromethane	*97.1*		*76.0-123*		*02/13/2018 12:21*	WG1071136
(S) 4-Bromofluorobenzene	*100*		*80.0-120*		*02/13/2018 12:21*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/11/2018 02:54	WG1071136
Toluene	ND		1.00	1	02/11/2018 02:54	WG1071136
Ethylbenzene	ND		1.00	1	02/11/2018 02:54	WG1071136
Total Xylenes	ND		3.00	1	02/11/2018 02:54	WG1071136
Methyl tert-butyl ether	ND		1.00	1	02/11/2018 02:54	WG1071136
Naphthalene	ND		5.00	1	02/11/2018 02:54	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/11/2018 02:54	WG1071136
(S) Toluene-d8	*109*		*80.0-120*		*02/11/2018 02:54*	WG1071136
(S) Dibromofluoromethane	*96.6*		*76.0-123*		*02/11/2018 02:54*	WG1071136
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*02/11/2018 02:54*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	02/11/2018 03:13	WG1071136
Toluene	ND		1.00	1	02/11/2018 03:13	WG1071136
Ethylbenzene	ND		1.00	1	02/11/2018 03:13	WG1071136
Total Xylenes	ND		3.00	1	02/11/2018 03:13	WG1071136
Methyl tert-butyl ether	ND		1.00	1	02/11/2018 03:13	WG1071136
Naphthalene	ND		5.00	1	02/11/2018 03:13	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/11/2018 03:13	WG1071136
(S) Toluene-d8	*110*		*80.0-120*		*02/11/2018 03:13*	WG1071136
(S) Dibromofluoromethane	*100*		*76.0-123*		*02/11/2018 03:13*	WG1071136
(S) 4-Bromofluorobenzene	*99.2*		*80.0-120*		*02/11/2018 03:13*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	2.20		1.00	1	02/11/2018 03:33	WG1071136
Toluene	1.86		1.00	1	02/11/2018 03:33	WG1071136
Ethylbenzene	ND		1.00	1	02/11/2018 03:33	WG1071136
Total Xylenes	4.10		3.00	1	02/11/2018 03:33	WG1071136
Methyl tert-butyl ether	ND		1.00	1	02/11/2018 03:33	WG1071136
Naphthalene	ND		5.00	1	02/11/2018 03:33	WG1071136
1,2-Dichloroethane	ND		1.00	1	02/11/2018 03:33	WG1071136
(S) Toluene-d8	*108*		*80.0-120*		*02/11/2018 03:33*	WG1071136
(S) Dibromofluoromethane	*98.5*		*76.0-123*		*02/11/2018 03:33*	WG1071136
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*02/11/2018 03:33*	WG1071136

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	02/08/2018 11:01	WG1071291
Benzene	ND		1.00	1	02/08/2018 11:01	WG1071291
Bromodichloromethane	ND		1.00	1	02/08/2018 11:01	WG1071291
Bromoform	ND		1.00	1	02/08/2018 11:01	WG1071291
Bromomethane	ND		5.00	1	02/08/2018 11:01	WG1071291
Carbon disulfide	ND		1.00	1	02/08/2018 11:01	WG1071291
Carbon tetrachloride	ND		1.00	1	02/08/2018 11:01	WG1071291
Chlorobenzene	ND		1.00	1	02/08/2018 11:01	WG1071291
Chlorodibromomethane	ND		1.00	1	02/08/2018 11:01	WG1071291
Chloroethane	ND		5.00	1	02/08/2018 11:01	WG1071291
Chloroform	ND		5.00	1	02/08/2018 11:01	WG1071291
Chloromethane	ND		2.50	1	02/08/2018 11:01	WG1071291
1,2-Dibromo-3-Chloropropane	ND		5.00	1	02/08/2018 11:01	WG1071291
1,2-Dibromoethane	ND		1.00	1	02/08/2018 11:01	WG1071291
1,2-Dichlorobenzene	ND		1.00	1	02/08/2018 11:01	WG1071291
1,3-Dichlorobenzene	ND		1.00	1	02/08/2018 11:01	WG1071291
1,4-Dichlorobenzene	ND		1.00	1	02/08/2018 11:01	WG1071291
1,1-Dichloroethane	ND		1.00	1	02/08/2018 11:01	WG1071291
1,2-Dichloroethane	ND		1.00	1	02/08/2018 11:01	WG1071291
1,1-Dichloroethene	ND		1.00	1	02/08/2018 11:01	WG1071291
cis-1,2-Dichloroethene	ND		1.00	1	02/08/2018 11:01	WG1071291
trans-1,2-Dichloroethene	ND		1.00	1	02/08/2018 11:01	WG1071291
1,2-Dichloropropane	ND		1.00	1	02/08/2018 11:01	WG1071291
cis-1,3-Dichloropropene	ND		1.00	1	02/08/2018 11:01	WG1071291
trans-1,3-Dichloropropene	ND		1.00	1	02/08/2018 11:01	WG1071291
Di-isopropyl ether	ND		1.00	1	02/08/2018 11:01	WG1071291
Ethylbenzene	ND		1.00	1	02/08/2018 11:01	WG1071291
2-Butanone (MEK)	ND		10.0	1	02/08/2018 11:01	WG1071291
2-Hexanone	ND		10.0	1	02/08/2018 11:01	WG1071291
Methylene Chloride	ND		5.00	1	02/08/2018 11:01	WG1071291
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	02/08/2018 11:01	WG1071291
Methyl tert-butyl ether	ND		1.00	1	02/08/2018 11:01	WG1071291
Naphthalene	ND		5.00	1	02/08/2018 11:01	WG1071291
Styrene	ND		1.00	1	02/08/2018 11:01	WG1071291
1,1,2,2-Tetrachloroethane	ND		1.00	1	02/08/2018 11:01	WG1071291
Tetrachloroethene	ND		1.00	1	02/08/2018 11:01	WG1071291
Toluene	ND		1.00	1	02/08/2018 11:01	WG1071291
1,1,1-Trichloroethane	ND		1.00	1	02/08/2018 11:01	WG1071291
1,1,2-Trichloroethane	ND		1.00	1	02/08/2018 11:01	WG1071291
Trichloroethene	ND		1.00	1	02/08/2018 11:01	WG1071291
Vinyl chloride	ND		1.00	1	02/08/2018 11:01	WG1071291
o-Xylene	ND		1.00	1	02/08/2018 11:01	WG1071291
m&p-Xylene	ND		2.00	1	02/08/2018 11:01	WG1071291
Xylenes, Total	ND		3.00	1	02/08/2018 11:01	WG1071291
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	02/08/2018 11:01	WG1071291
1,2,3-Trimethylbenzene	ND		1.00	1	02/08/2018 11:01	WG1071291
(S) Toluene-d8	*106*		*80.0-120*		*02/08/2018 11:01*	WG1071291
(S) Dibromofluoromethane	*97.5*		*76.0-123*		*02/08/2018 11:01*	WG1071291
(S) a,a,a-Trifluorotoluene	*97.0*		*80.0-120*		*02/08/2018 11:01*	WG1071291
(S) 4-Bromofluorobenzene	*99.7*		*80.0-120*		*02/08/2018 11:01*	WG1071291

Method Blank (MB)

(MB) R3285791-3 02/10/18 21:01

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*107*			*80.0-120*
(S) Dibromofluoromethane	*97.7*			*76.0-123*
(S) 4-Bromofluorobenzene	*97.7*			*80.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3285791-1 02/10/18 20:02 • (LCSD) R3285791-2 02/10/18 20:22

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	23.6	23.4	94.3	93.6	70.0-130			0.746	20
1,2-Dichloroethane	25.0	28.4	28.1	114	113	70.0-130			1.03	20
Ethylbenzene	25.0	25.3	24.9	101	99.6	70.0-130			1.75	20
Methyl tert-butyl ether	25.0	19.4	18.5	77.6	74.2	70.0-130			4.56	20
Naphthalene	25.0	23.6	23.3	94.5	93.1	70.0-130			1.48	20
Toluene	25.0	25.0	24.3	100	97.2	70.0-130			2.80	20
Xylenes, Total	75.0	75.1	73.6	100	98.1	70.0-130			2.02	20
(S) Toluene-d8				*106*	*105*	*80.0-120*				
(S) Dibromofluoromethane				*98.1*	*98.2*	*76.0-123*				
(S) 4-Bromofluorobenzene				*101*	*98.6*	*80.0-120*				

Method Blank (MB)

(MB) R3285084-2 02/08/18 09:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Benzene	U		0.331	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
Carbon disulfide	U		0.275	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00
2-Hexanone	U		3.82	10.0
2-Butanone (MEK)	U		3.93	10.0
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Styrene	U		0.307	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00

Method Blank (MB)

(MB) R3285084-2 02/08/18 09:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Trichloroethene	U		0.398	1.00
1,2,3-Trimethylbenzene	U		0.321	1.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
o-Xylene	U		0.341	1.00
m&p-Xylenes	U		0.341	2.00
(S) Toluene-d8	*106*			*80.0-120*
(S) Dibromofluoromethane	*99.2*			*76.0-123*
(S) a,a,a-Trifluorotoluene	*98.7*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.6*			*80.0-120*

Laboratory Control Sample (LCS)

(LCS) R3285084-1 02/08/18 08:49

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	125	133	106	70.0-130	
Benzene	25.0	23.8	95.3	70.0-130	
Bromodichloromethane	25.0	26.4	105	70.0-130	
Bromoform	25.0	25.6	102	70.0-130	
Bromomethane	25.0	22.5	90.0	70.0-130	
Carbon disulfide	25.0	21.5	85.9	70.0-130	
Carbon tetrachloride	25.0	26.5	106	70.0-130	
Chlorobenzene	25.0	24.8	99.4	70.0-130	
Chlorodibromomethane	25.0	26.2	105	70.0-130	
Chloroethane	25.0	19.2	76.8	70.0-130	
Chloroform	25.0	25.6	103	70.0-130	
Chloromethane	25.0	20.7	82.7	70.0-130	
1,2-Dibromo-3-Chloropropane	25.0	24.0	95.8	70.0-130	
1,2-Dibromoethane	25.0	25.0	99.9	70.0-130	
1,2-Dichlorobenzene	25.0	23.5	93.9	70.0-130	
1,3-Dichlorobenzene	25.0	23.1	92.3	70.0-130	
1,4-Dichlorobenzene	25.0	22.9	91.5	70.0-130	
1,1-Dichloroethane	25.0	27.6	110	70.0-130	
1,2-Dichloroethane	25.0	27.2	109	70.0-130	
1,1-Dichloroethene	25.0	24.5	97.9	70.0-130	
cis-1,2-Dichloroethene	25.0	25.0	99.9	70.0-130	
trans-1,2-Dichloroethene	25.0	24.9	99.8	70.0-130	
1,2-Dichloropropane	25.0	28.9	115	70.0-130	

Laboratory Control Sample (LCS)

(LCS) R3285084-1 02/08/18 08:49

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,3-Dichloropropene	25.0	25.7	103	70.0-130	
trans-1,3-Dichloropropene	25.0	26.4	106	70.0-130	
Di-isopropyl ether	25.0	22.4	89.7	70.0-130	
Ethylbenzene	25.0	24.8	99.1	70.0-130	
2-Hexanone	125	145	116	70.0-130	
2-Butanone (MEK)	125	116	92.8	70.0-130	
Methylene Chloride	25.0	23.2	92.7	70.0-130	
4-Methyl-2-pentanone (MIBK)	125	116	92.7	70.0-130	
Methyl tert-butyl ether	25.0	20.1	80.4	70.0-130	
Naphthalene	25.0	23.9	95.4	70.0-130	
Styrene	25.0	23.6	94.4	70.0-130	
1,1,2,2-Tetrachloroethane	25.0	22.8	91.2	70.0-130	
Tetrachloroethene	25.0	24.9	99.5	70.0-130	
Toluene	25.0	24.7	98.7	70.0-130	
1,1,2-Trichlorotrifluoroethane	25.0	27.3	109	70.0-130	
1,1,1-Trichloroethane	25.0	26.8	107	70.0-130	
1,1,2-Trichloroethane	25.0	25.0	100	70.0-130	
Trichloroethene	25.0	26.7	107	70.0-130	
1,2,3-Trimethylbenzene	25.0	24.1	96.5	70.0-130	
Vinyl chloride	25.0	24.2	96.7	70.0-130	
Xylenes, Total	75.0	73.5	98.0	70.0-130	
o-Xylene	25.0	24.7	98.7	70.0-130	
m&p-Xylenes	50.0	48.8	97.6	70.0-130	
(S) Toluene-d8			*105*	*80.0-120*	
(S) Dibromofluoromethane			*99.2*	*76.0-123*	
(S) a,a,a-Trifluorotoluene			*101*	*80.0-120*	
(S) 4-Bromofluorobenzene			*99.5*	*80.0-120*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

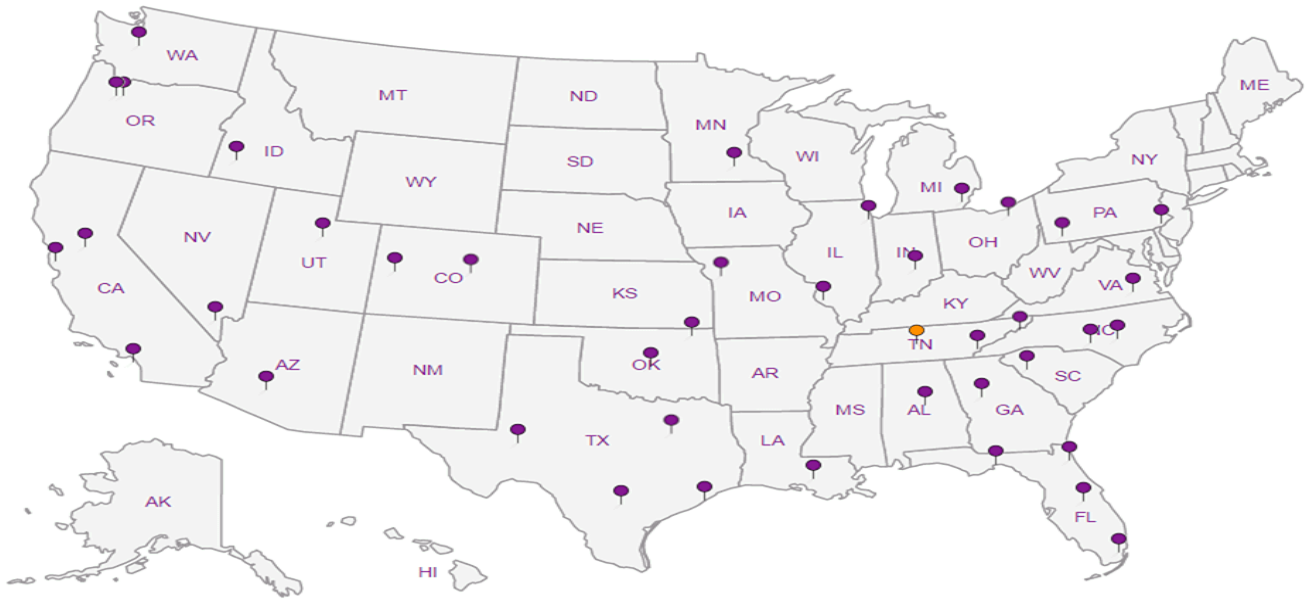
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Groundwater

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 699858.LD.MR.GW

Lab Project # KINCH2MGA-LEWIS12

Collected by (print): MELISSA WARREN

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature):

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEXMNSC 40mlAmb-HCl	V8260BTEXMNSC-TB 40mlAmb-HCl-Blk	BTEX	MTBE	NAPHTHALENE	1,2-DCA					Remarks	Sample # (lab only)
							X		X	X	X	X						
MW-29-020618	GRAB	GW	NA	02/06/18	0805	3	X		X	X	X	X						-01
MW-26-020618		GW			0815	3	X											02
MW-23-020618		GW			0825	3	X											03
MW-43-020618		GW			0900	3	X											04
MW-38-020618		GW			0910	3	X											05
MW-34-020618		GW			0920	3	X											06
MW-39-020618		GW			0930	3	X											07
MW-40-020618		GW			0935	3	X											08
MW-41-020618		GW			0945	3	X											09
MW-25-020618		GW			0955	3	X											10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier __ _____

Tracking # 4269 9202 9201

Relinquished by : (Signature) — Date: 02/06/18 — Time: 1730
Received by: (Signature)

Relinquished by : (Signature) — Date: — Time:
Received by: (Signature)

Relinquished by : (Signature) — Date: — Time:
Received for lab by: (Signature) — Date: 2/7/18 — Time: 845

Trip Blank Received: Yes / No
HCL / MeoH
TBR
1

Temp: 1.9 °C — Bottles Received: 61

If preservation required by Login: Date/Time

Hold: — Condition: NCF / OK

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Chain of Custody Page 1 of 3

ESC LABORATORY SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L968338

Table # E111

Acctnum: KINCH2MGA
Template: T131319
Prelogin: P637822
TSR: 526 - Chris McCord
PB: 1-30-18

Shipped Via: FedEX Ground

CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Groundwater

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 699858, LD, MR, GW

Lab Project # KINCH2MGA-LEWIS12

Collected by (print): MELISSA WARREN LEWIS DRIVE

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day
Date Results Needed

Quote #

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEXMNSC 40mlAmb-HCl	V8260BTEXMNSC-TB 40mlAmb-HCl-Blk	BTEX	MTBE	NAPHTHALENE	1,2-DCA					Remarks	Sample # (lab only)
MW-35-020618	GRAB	GW	N/A	02/06/18	1005	3	X		X	X	X	X						-11
MW-28-020618		GW			1015	3	X											12
MW-31-020618		GW			1045	3	X											13
MW-10-020618		GW			1105	3	X											14
MW-10-DE020618		GW			1110	3	X											15
MW-03-020618		GW			1120	3	X											16
MW-02-020618		GW			1130	3	X											17
MW-05-020618		GW			1140	3	X											18
FB01-020618		GW			1150	3	X											19
MW-30-020618		GW			1200	3	X											20

Chain of Custody Page 2 of 3

ESC LABORATORY SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L968338

Table #

Acctnum: KINCH2MGA
Template: T131319
Prelogin: P637822
TSR: 526 - Chris McCord
PB: 1-30-18

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ___ Temp ___
Flow ___ Other ___

Samples returned via:
__ UPS X FedEx __ Courier

Tracking # 4267 9202 9201

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: X Y N
Bottles arrive intact: X Y N
Correct bottles used: X Y N
Sufficient volume sent: X Y N
If Applicable
VOA Zero Headspace: X Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
	02/06/18	1730		1
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.9 °C Bottles Received: 61
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 2/7/18 Time: 845
				Hold: Condition: NCF / OK

CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Pres Chk

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Groundwater

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 699858.LD.MR.GW

Lab Project # KINCH2MGA-LEWIS12

Collected by (print): MELISSA WARREN

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature):

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEXMNSC 40mlAmb-HCl	V8260BTEXMNSC-TB 40mlAmb-HCl-Blk	TCL VOCs
TB01-020618	N/A	GW	N/A	02/06/18	1152	21		X	X

Chain of Custody Page 3 of 3

ESC LABORATORIES
a subsidiary of Pace Analytical
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L968338

Table #

Acctnum: KINCH2MGA

Template: T131319

Prelogin: P637822

TSR: 526 - Chris McCord

PB: 1-30-18

Shipped Via: FedEX Ground

Remarks | Sample # (lab only)

21

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier __ _____

Tracking # 4269 9202 9201

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: X Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	02/06/18 1730	1730	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR
1

Temp: 1.9 °C Bottles Received: 6

Date: 2/7/18 Time: 845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

March 14, 2018

CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group:	L975433
Samples Received:	03/07/2018
Project Number:	699858.ID.MR.GW
Description:	Lewis Drive Groundwater
Site:	LEWIS DRIVE
Report To:	Bethany Garvey 6600 Peachtree Dunwoody Road 400 Embassy Row - Suite 600 Atlanta, GA 30328

Entire Report Reviewed By:

Jason Romer
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

TABLE OF CONTENTS

MW-22-030618 L975433-02 GW

Collected by: Melissa Warren | Collected date/time: 03/06/18 09:25 | Received date/time: 03/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1082115	1	03/08/18 17:13	03/08/18 17:13	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1082115	1	03/08/18 17:13	03/08/18 17:13	MCG
Wet Chemistry by Method 9056A	WG1081704	1	03/08/18 00:23	03/08/18 00:23	MAJ
Volatile Organic Compounds (GC) by Method RSK175	WG1081916	1	03/08/18 13:20	03/08/18 13:20	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1081780	1	03/07/18 18:06	03/07/18 18:06	LRL

MW-13-030618 L975433-03 GW

Collected by: Melissa Warren | Collected date/time: 03/06/18 10:15 | Received date/time: 03/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1081780	1	03/07/18 18:27	03/07/18 18:27	LRL

FB01-030618 L975433-04 GW

Collected by: Melissa Warren | Collected date/time: 03/06/18 13:00 | Received date/time: 03/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1081780	1	03/07/18 18:48	03/07/18 18:48	LRL

MW-45-030618 L975433-05 GW

Collected by: Melissa Warren | Collected date/time: 03/06/18 13:15 | Received date/time: 03/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1081780	1	03/07/18 19:08	03/07/18 19:08	LRL

MW-45B-030618 L975433-06 GW

Collected by: Melissa Warren | Collected date/time: 03/06/18 13:30 | Received date/time: 03/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1081780	1	03/07/18 19:29	03/07/18 19:29	LRL

MW-46-030618 L975433-08 GW

Collected by: Melissa Warren | Collected date/time: 03/06/18 14:10 | Received date/time: 03/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1081780	1	03/07/18 20:10	03/07/18 20:10	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1081780	10	03/13/18 15:58	03/13/18 15:58	BMB

MW-23B-030618 L975433-09 GW

Collected by: Melissa Warren | Collected date/time: 03/06/18 14:20 | Received date/time: 03/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1081780	1	03/07/18 20:30	03/07/18 20:30	LRL

MW-23-030618 L975433-10 GW

Collected by: Melissa Warren
Collected date/time: 03/06/18 14:25
Received date/time: 03/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1081780	1	03/13/18 14:59	03/13/18 14:59	BMB

MW-26B-030618 L975433-11 GW

Collected by: Melissa Warren
Collected date/time: 03/06/18 14:40
Received date/time: 03/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1081780	1	03/07/18 21:11	03/07/18 21:11	LRL

MW-26-030618 L975433-12 GW

Collected by: Melissa Warren
Collected date/time: 03/06/18 14:45
Received date/time: 03/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1081780	1	03/07/18 21:32	03/07/18 21:32	LRL

TB01-030618 L975433-13 GW

Collected by: Melissa Warren
Collected date/time: 03/06/18 13:05
Received date/time: 03/07/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082068	1	03/08/18 12:27	03/08/18 12:27	JHH

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Technical Service Representative

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Alkalinity	ND		20000	1	03/08/2018 17:13	WG1082115

Sample Narrative:
L975433-02 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Free Carbon Dioxide	ND	T8	20000	1	03/08/2018 17:13	WG1082115

Sample Narrative:
L975433-02 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Nitrate as (N)	182		100	1	03/08/2018 00:23	WG1081704
Sulfate	45000		5000	1	03/08/2018 00:23	WG1081704

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Methane	14.5		10.0	1	03/08/2018 13:20	WG1081916

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/07/2018 18:06	WG1081780
Toluene	1.03		1.00	1	03/07/2018 18:06	WG1081780
Ethylbenzene	ND		1.00	1	03/07/2018 18:06	WG1081780
Xylenes, Total	ND		3.00	1	03/07/2018 18:06	WG1081780
Methyl tert-butyl ether	ND		1.00	1	03/07/2018 18:06	WG1081780
Naphthalene	ND		5.00	1	03/07/2018 18:06	WG1081780
1,2-Dichloroethane	ND		1.00	1	03/07/2018 18:06	WG1081780
(S) Toluene-d8	*104*		*80.0-120*		*03/07/2018 18:06*	WG1081780
(S) Dibromofluoromethane	*100*		*76.0-123*		*03/07/2018 18:06*	WG1081780
(S) a,a,a-Trifluorotoluene	*110*		*80.0-120*		*03/07/2018 18:06*	WG1081780
(S) 4-Bromofluorobenzene	*98.2*		*80.0-120*		*03/07/2018 18:06*	WG1081780

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	6.98		1.00	1	03/07/2018 18:27	WG1081780
Toluene	15.3		1.00	1	03/07/2018 18:27	WG1081780
Ethylbenzene	1.14		1.00	1	03/07/2018 18:27	WG1081780
Xylenes, Total	4.55		3.00	1	03/07/2018 18:27	WG1081780
Methyl tert-butyl ether	ND		1.00	1	03/07/2018 18:27	WG1081780
Naphthalene	ND		5.00	1	03/07/2018 18:27	WG1081780
1,2-Dichloroethane	ND		1.00	1	03/07/2018 18:27	WG1081780
(S) Toluene-d8	*101*		*80.0-120*		*03/07/2018 18:27*	WG1081780
(S) Dibromofluoromethane	*98.1*		*76.0-123*		*03/07/2018 18:27*	WG1081780
(S) a,a,a-Trifluorotoluene	*109*		*80.0-120*		*03/07/2018 18:27*	WG1081780
(S) 4-Bromofluorobenzene	*97.3*		*80.0-120*		*03/07/2018 18:27*	WG1081780

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/07/2018 18:48	WG1081780
Toluene	ND		1.00	1	03/07/2018 18:48	WG1081780
Ethylbenzene	ND		1.00	1	03/07/2018 18:48	WG1081780
Xylenes, Total	ND		3.00	1	03/07/2018 18:48	WG1081780
Methyl tert-butyl ether	ND		1.00	1	03/07/2018 18:48	WG1081780
Naphthalene	ND		5.00	1	03/07/2018 18:48	WG1081780
1,2-Dichloroethane	ND		1.00	1	03/07/2018 18:48	WG1081780
(S) Toluene-d8	*105*		*80.0-120*		*03/07/2018 18:48*	WG1081780
(S) Dibromofluoromethane	*99.9*		*76.0-123*		*03/07/2018 18:48*	WG1081780
(S) a,a,a-Trifluorotoluene	*113*		*80.0-120*		*03/07/2018 18:48*	WG1081780
(S) 4-Bromofluorobenzene	*98.3*		*80.0-120*		*03/07/2018 18:48*	WG1081780

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	24.3		1.00	1	03/07/2018 19:08	WG1081780
Toluene	28.9		1.00	1	03/07/2018 19:08	WG1081780
Ethylbenzene	6.11		1.00	1	03/07/2018 19:08	WG1081780
Xylenes, Total	41.2		3.00	1	03/07/2018 19:08	WG1081780
Methyl tert-butyl ether	ND		1.00	1	03/07/2018 19:08	WG1081780
Naphthalene	ND		5.00	1	03/07/2018 19:08	WG1081780
1,2-Dichloroethane	ND		1.00	1	03/07/2018 19:08	WG1081780
(S) Toluene-d8	*102*		*80.0-120*		*03/07/2018 19:08*	WG1081780
(S) Dibromofluoromethane	*100*		*76.0-123*		*03/07/2018 19:08*	WG1081780
(S) a,a,a-Trifluorotoluene	*111*		*80.0-120*		*03/07/2018 19:08*	WG1081780
(S) 4-Bromofluorobenzene	*97.6*		*80.0-120*		*03/07/2018 19:08*	WG1081780

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/07/2018 19:29	WG1081780
Toluene	2.75		1.00	1	03/07/2018 19:29	WG1081780
Ethylbenzene	ND		1.00	1	03/07/2018 19:29	WG1081780
Xylenes, Total	ND		3.00	1	03/07/2018 19:29	WG1081780
Methyl tert-butyl ether	ND		1.00	1	03/07/2018 19:29	WG1081780
Naphthalene	ND		5.00	1	03/07/2018 19:29	WG1081780
1,2-Dichloroethane	ND		1.00	1	03/07/2018 19:29	WG1081780
(S) Toluene-d8	*104*		*80.0-120*		*03/07/2018 19:29*	WG1081780
(S) Dibromofluoromethane	*101*		*76.0-123*		*03/07/2018 19:29*	WG1081780
(S) a,a,a-Trifluorotoluene	*109*		*80.0-120*		*03/07/2018 19:29*	WG1081780
(S) 4-Bromofluorobenzene	*96.6*		*80.0-120*		*03/07/2018 19:29*	WG1081780

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	173		10.0	10	03/13/2018 15:58	WG1081780
Toluene	16.5		1.00	1	03/07/2018 20:10	WG1081780
Ethylbenzene	1.76		1.00	1	03/07/2018 20:10	WG1081780
Xylenes, Total	29.5		3.00	1	03/07/2018 20:10	WG1081780
Methyl tert-butyl ether	129		1.00	1	03/07/2018 20:10	WG1081780
Naphthalene	7.21		5.00	1	03/07/2018 20:10	WG1081780
1,2-Dichloroethane	ND		1.00	1	03/07/2018 20:10	WG1081780
(S) Toluene-d8	*103*		*80.0-120*		*03/07/2018 20:10*	WG1081780
(S) Toluene-d8	*111*		*80.0-120*		*03/13/2018 15:58*	WG1081780
(S) Dibromofluoromethane	*102*		*76.0-123*		*03/13/2018 15:58*	WG1081780
(S) Dibromofluoromethane	*97.4*		*76.0-123*		*03/07/2018 20:10*	WG1081780
(S) a,a,a-Trifluorotoluene	*97.3*		*80.0-120*		*03/13/2018 15:58*	WG1081780
(S) a,a,a-Trifluorotoluene	*110*		*80.0-120*		*03/07/2018 20:10*	WG1081780
(S) 4-Bromofluorobenzene	*106*		*80.0-120*		*03/13/2018 15:58*	WG1081780
(S) 4-Bromofluorobenzene	*96.5*		*80.0-120*		*03/07/2018 20:10*	WG1081780

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/07/2018 20:30	WG1081780
Toluene	4.57		1.00	1	03/07/2018 20:30	WG1081780
Ethylbenzene	1.20		1.00	1	03/07/2018 20:30	WG1081780
Xylenes, Total	9.14		3.00	1	03/07/2018 20:30	WG1081780
Methyl tert-butyl ether	ND		1.00	1	03/07/2018 20:30	WG1081780
Naphthalene	ND		5.00	1	03/07/2018 20:30	WG1081780
1,2-Dichloroethane	ND		1.00	1	03/07/2018 20:30	WG1081780
(S) Toluene-d8	*105*		*80.0-120*		*03/07/2018 20:30*	WG1081780
(S) Dibromofluoromethane	*98.4*		*76.0-123*		*03/07/2018 20:30*	WG1081780
(S) a,a,a-Trifluorotoluene	*112*		*80.0-120*		*03/07/2018 20:30*	WG1081780
(S) 4-Bromofluorobenzene	*97.4*		*80.0-120*		*03/07/2018 20:30*	WG1081780

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/13/2018 14:59	WG1081780
Toluene	ND		1.00	1	03/13/2018 14:59	WG1081780
Ethylbenzene	ND		1.00	1	03/13/2018 14:59	WG1081780
Xylenes, Total	ND		3.00	1	03/13/2018 14:59	WG1081780
Methyl tert-butyl ether	17.5		1.00	1	03/13/2018 14:59	WG1081780
Naphthalene	ND		5.00	1	03/13/2018 14:59	WG1081780
1,2-Dichloroethane	ND		1.00	1	03/13/2018 14:59	WG1081780
(S) Toluene-d8	*106*		*80.0-120*		*03/13/2018 14:59*	WG1081780
(S) Dibromofluoromethane	*97.7*		*76.0-123*		*03/13/2018 14:59*	WG1081780
(S) a,a,a-Trifluorotoluene	*96.9*		*80.0-120*		*03/13/2018 14:59*	WG1081780
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*03/13/2018 14:59*	WG1081780

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/07/2018 21:11	WG1081780
Toluene	1.03		1.00	1	03/07/2018 21:11	WG1081780
Ethylbenzene	ND		1.00	1	03/07/2018 21:11	WG1081780
Xylenes, Total	ND		3.00	1	03/07/2018 21:11	WG1081780
Methyl tert-butyl ether	ND		1.00	1	03/07/2018 21:11	WG1081780
Naphthalene	ND		5.00	1	03/07/2018 21:11	WG1081780
1,2-Dichloroethane	ND		1.00	1	03/07/2018 21:11	WG1081780
(S) Toluene-d8	*105*		*80.0-120*		*03/07/2018 21:11*	WG1081780
(S) Dibromofluoromethane	*100*		*76.0-123*		*03/07/2018 21:11*	WG1081780
(S) a,a,a-Trifluorotoluene	*112*		*80.0-120*		*03/07/2018 21:11*	WG1081780
(S) 4-Bromofluorobenzene	*97.5*		*80.0-120*		*03/07/2018 21:11*	WG1081780

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/07/2018 21:32	WG1081780
Toluene	ND		1.00	1	03/07/2018 21:32	WG1081780
Ethylbenzene	ND		1.00	1	03/07/2018 21:32	WG1081780
Xylenes, Total	ND		3.00	1	03/07/2018 21:32	WG1081780
Methyl tert-butyl ether	ND		1.00	1	03/07/2018 21:32	WG1081780
Naphthalene	ND		5.00	1	03/07/2018 21:32	WG1081780
1,2-Dichloroethane	ND		1.00	1	03/07/2018 21:32	WG1081780
(S) Toluene-d8	*107*		*80.0-120*		*03/07/2018 21:32*	WG1081780
(S) Dibromofluoromethane	*98.6*		*76.0-123*		*03/07/2018 21:32*	WG1081780
(S) a,a,a-Trifluorotoluene	*111*		*80.0-120*		*03/07/2018 21:32*	WG1081780
(S) 4-Bromofluorobenzene	*96.4*		*80.0-120*		*03/07/2018 21:32*	WG1081780

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/08/2018 12:27	WG1082068
Benzene	ND		1.00	1	03/08/2018 12:27	WG1082068
Bromodichloromethane	ND		1.00	1	03/08/2018 12:27	WG1082068
Bromoform	ND		1.00	1	03/08/2018 12:27	WG1082068
Bromomethane	ND		5.00	1	03/08/2018 12:27	WG1082068
Carbon disulfide	ND		1.00	1	03/08/2018 12:27	WG1082068
Carbon tetrachloride	ND		1.00	1	03/08/2018 12:27	WG1082068
Chlorobenzene	ND		1.00	1	03/08/2018 12:27	WG1082068
Chlorodibromomethane	ND		1.00	1	03/08/2018 12:27	WG1082068
Chloroethane	ND		5.00	1	03/08/2018 12:27	WG1082068
Chloroform	ND		5.00	1	03/08/2018 12:27	WG1082068
Chloromethane	ND		2.50	1	03/08/2018 12:27	WG1082068
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/08/2018 12:27	WG1082068
1,2-Dibromoethane	ND		1.00	1	03/08/2018 12:27	WG1082068
1,2-Dichlorobenzene	ND		1.00	1	03/08/2018 12:27	WG1082068
1,3-Dichlorobenzene	ND		1.00	1	03/08/2018 12:27	WG1082068
1,4-Dichlorobenzene	ND		1.00	1	03/08/2018 12:27	WG1082068
1,1-Dichloroethane	ND		1.00	1	03/08/2018 12:27	WG1082068
1,2-Dichloroethane	ND		1.00	1	03/08/2018 12:27	WG1082068
1,1-Dichloroethene	ND		1.00	1	03/08/2018 12:27	WG1082068
cis-1,2-Dichloroethene	ND		1.00	1	03/08/2018 12:27	WG1082068
trans-1,2-Dichloroethene	ND		1.00	1	03/08/2018 12:27	WG1082068
1,2-Dichloropropane	ND		1.00	1	03/08/2018 12:27	WG1082068
cis-1,3-Dichloropropene	ND		1.00	1	03/08/2018 12:27	WG1082068
trans-1,3-Dichloropropene	ND		1.00	1	03/08/2018 12:27	WG1082068
Di-isopropyl ether	ND		1.00	1	03/08/2018 12:27	WG1082068
Ethylbenzene	ND		1.00	1	03/08/2018 12:27	WG1082068
2-Butanone (MEK)	ND		10.0	1	03/08/2018 12:27	WG1082068
2-Hexanone	ND		10.0	1	03/08/2018 12:27	WG1082068
Methylene Chloride	ND		5.00	1	03/08/2018 12:27	WG1082068
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/08/2018 12:27	WG1082068
Methyl tert-butyl ether	ND		1.00	1	03/08/2018 12:27	WG1082068
Naphthalene	ND		5.00	1	03/08/2018 12:27	WG1082068
Styrene	ND		1.00	1	03/08/2018 12:27	WG1082068
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/08/2018 12:27	WG1082068
Tetrachloroethene	ND		1.00	1	03/08/2018 12:27	WG1082068
Toluene	ND		1.00	1	03/08/2018 12:27	WG1082068
1,1,1-Trichloroethane	ND		1.00	1	03/08/2018 12:27	WG1082068
1,1,2-Trichloroethane	ND		1.00	1	03/08/2018 12:27	WG1082068
Trichloroethene	ND		1.00	1	03/08/2018 12:27	WG1082068
Vinyl chloride	ND		1.00	1	03/08/2018 12:27	WG1082068
Xylenes, Total	ND		3.00	1	03/08/2018 12:27	WG1082068
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/08/2018 12:27	WG1082068
1,2,3-Trimethylbenzene	ND		1.00	1	03/08/2018 12:27	WG1082068
(S) Toluene-d8	*104*		*80.0-120*		*03/08/2018 12:27*	WG1082068
(S) Dibromofluoromethane	*102*		*76.0-123*		*03/08/2018 12:27*	WG1082068
(S) a,a,a-Trifluorotoluene	*108*		*80.0-120*		*03/08/2018 12:27*	WG1082068
(S) 4-Bromofluorobenzene	*88.3*		*80.0-120*		*03/08/2018 12:27*	WG1082068

L975308-01 Original Sample (OS) • Duplicate (DUP)

(OS) L975308-01 03/08/18 14:33 • (DUP) R3291856-1 03/08/18 14:39

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	136000	140000	1	2.32		20

Sample Narrative:
OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

L975768-06 Original Sample (OS) • Duplicate (DUP)

(OS) L975768-06 03/08/18 17:01 • (DUP) R3291856-9 03/08/18 17:08

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	ND	6550	1	0.000		20

Sample Narrative:
OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3291856-7 03/08/18 15:42 • (LCSD) R3291856-8 03/08/18 16:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Alkalinity	100000	98500	98600	98.5	98.6	85.0-115			0.112	20

Sample Narrative:
LCS: Endpoint pH 4.5
LCSD: Endpoint pH 4.5

L975308-01 Original Sample (OS) • Duplicate (DUP)

(OS) L975308-01 03/08/18 14:33 • (DUP) R3291856-2 03/08/18 14:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Free Carbon Dioxide	ND	ND	1	0.000		20

Sample Narrative:
OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

L975768-06 Original Sample (OS) • Duplicate (DUP)

(OS) L975768-06 03/08/18 17:01 • (DUP) R3291856-10 03/08/18 17:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Free Carbon Dioxide	38100	40100	1	5.11		20

Sample Narrative:
OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

Method Blank (MB)

(MB) R3291531-1 03/07/18 17:11

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

L975288-01 Original Sample (OS) • Duplicate (DUP)

(OS) L975288-01 03/07/18 19:14 • (DUP) R3291531-4 03/07/18 19:30

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	3480	3630	1	4.26		15
Sulfate	22800	22800	1	0.118		15

L975439-03 Original Sample (OS) • Duplicate (DUP)

(OS) L975439-03 03/08/18 01:24 • (DUP) R3291531-7 03/08/18 01:40

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	254	274	1	7.38		15
Sulfate	4240	4280	1	0.971	J	15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3291531-2 03/07/18 17:26 • (LCSD) R3291531-3 03/07/18 17:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Nitrate	8000	8330	8280	104	104	80.0-120			0.562	15
Sulfate	40000	40000	39800	100	99.5	80.0-120			0.534	15

L975288-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L975288-01 03/07/18 19:14 • (MS) R3291531-5 03/07/18 19:45 • (MSD) R3291531-6 03/07/18 20:31

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate	5000	3480	8420	8570	99.0	102	1	80.0-120			1.68	15
Sulfate	50000	22800	71900	71700	98.2	97.8	1	80.0-120			0.267	15

L975439-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L975439-03 03/08/18 01:24 • (MS) R3291531-8 03/08/18 01:55

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate	5000	254	5130	97.4	1	80.0-120	
Sulfate	50000	4240	54000	99.5	1	80.0-120	

Method Blank (MB)

(MB) R3291615-1 03/08/18 09:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		2.91	10.0

L974556-07 Original Sample (OS) • Duplicate (DUP)

(OS) L974556-07 03/08/18 11:16 • (DUP) R3291615-2 03/08/18 11:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	0.000	1	0.000		20

L974857-01 Original Sample (OS) • Duplicate (DUP)

(OS) L974857-01 03/08/18 11:59 • (DUP) R3291615-3 03/08/18 13:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3291615-4 03/08/18 13:42 • (LCSD) R3291615-5 03/08/18 13:48

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	69.6	65.1	103	96.1	85.0-115			6.58	20

Method Blank (MB)

(MB) R3292676-3 03/07/18 16:49

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*105*			*80.0-120*
(S) Dibromofluoromethane	*96.6*			*76.0-123*
(S) a,a,a-Trifluorotoluene	*109*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.4*			*80.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3292676-1 03/07/18 15:48 • (LCSD) R3292676-2 03/07/18 16:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	25.0	23.4	100	93.5	70.0-130			6.75	20
1,2-Dichloroethane	25.0	25.3	22.8	101	91.3	70.0-130			10.5	20
Ethylbenzene	25.0	25.6	24.1	103	96.4	70.0-130			6.11	20
Methyl tert-butyl ether	25.0	24.3	22.1	97.4	88.5	70.0-130			9.60	20
Naphthalene	25.0	25.9	24.9	104	99.8	70.0-130			3.93	20
Toluene	25.0	24.1	22.3	96.6	89.2	70.0-130			7.93	20
Xylenes, Total	75.0	78.3	72.8	104	97.1	70.0-130			7.28	20
(S) Toluene-d8				*102*	*99.9*	*80.0-120*				
(S) Dibromofluoromethane				*95.5*	*93.6*	*76.0-123*				
(S) a,a,a-Trifluorotoluene				*109*	*109*	*80.0-120*				
(S) 4-Bromofluorobenzene				*96.5*	*97.2*	*80.0-120*				

L975470-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L975470-02 03/07/18 23:15 • (MS) R3292676-4 03/08/18 00:17 • (MSD) R3292676-5 03/08/18 00:38

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	ND	25.7	24.5	103	98.2	1	54.3-133			4.43	20
1,2-Dichloroethane	25.0	ND	25.6	25.1	103	100	1	60.0-126			2.10	20
Ethylbenzene	25.0	ND	26.7	25.0	107	100	1	61.4-133			6.56	20
Methyl tert-butyl ether	25.0	ND	25.4	24.8	102	99.2	1	57.7-134			2.30	20
Naphthalene	25.0	ND	27.1	25.2	102	94.4	1	58.0-135			7.38	25.5

L975470-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L975470-02 03/07/18 23:15 • (MS) R3292676-4 03/08/18 00:17 • (MSD) R3292676-5 03/08/18 00:38

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Toluene	25.0	ND	25.1	23.3	100	93.2	1	61.4-130			7.28	20
Xylenes, Total	75.0	ND	79.6	75.7	106	101	1	63.3-131			5.02	20
(S) Toluene-d8					*102*	*99.5*		*80.0-120*				
(S) Dibromofluoromethane					*97.5*	*97.7*		*76.0-123*				
(S) a,a,a-Trifluorotoluene					*110*	*108*		*80.0-120*				
(S) 4-Bromofluorobenzene					*95.1*	*94.9*		*80.0-120*				

Method Blank (MB)

(MB) R3291779-2 03/08/18 11:17

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Benzene	U		0.331	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
Carbon disulfide	U		0.275	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00
2-Hexanone	U		3.82	10.0
2-Butanone (MEK)	U		3.93	10.0
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	2.20	J	1.00	5.00
Styrene	U		0.307	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00

Method Blank (MB)

(MB) R3291779-2 03/08/18 11:17

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Trichloroethene	U		0.398	1.00
1,2,3-Trimethylbenzene	U		0.321	1.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*105*			*80.0-120*
(S) Dibromofluoromethane	*98.5*			*76.0-123*
(S) a,a,a-Trifluorotoluene	*108*			*80.0-120*
(S) 4-Bromofluorobenzene	*90.1*			*80.0-120*

Laboratory Control Sample (LCS)

(LCS) R3291779-1 03/08/18 10:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	125	134	107	70.0-130	
Benzene	25.0	27.0	108	70.0-130	
Bromodichloromethane	25.0	27.1	108	70.0-130	
Bromoform	25.0	18.7	74.6	70.0-130	
Bromomethane	25.0	32.0	128	70.0-130	
Carbon disulfide	25.0	28.3	113	70.0-130	
Carbon tetrachloride	25.0	27.9	111	70.0-130	
Chlorobenzene	25.0	25.4	102	70.0-130	
Chlorodibromomethane	25.0	26.0	104	70.0-130	
Chloroethane	25.0	32.1	128	70.0-130	
Chloroform	25.0	27.2	109	70.0-130	
Chloromethane	25.0	25.7	103	70.0-130	
1,2-Dibromo-3-Chloropropane	25.0	23.6	94.6	70.0-130	
1,2-Dibromoethane	25.0	25.0	100	70.0-130	
1,2-Dichlorobenzene	25.0	25.9	104	70.0-130	
1,3-Dichlorobenzene	25.0	27.1	108	70.0-130	
1,4-Dichlorobenzene	25.0	26.1	104	70.0-130	
1,1-Dichloroethane	25.0	27.1	109	70.0-130	
1,2-Dichloroethane	25.0	26.7	107	70.0-130	
1,1-Dichloroethene	25.0	28.2	113	70.0-130	
cis-1,2-Dichloroethene	25.0	26.8	107	70.0-130	
trans-1,2-Dichloroethene	25.0	26.4	105	70.0-130	
1,2-Dichloropropane	25.0	27.7	111	70.0-130	
cis-1,3-Dichloropropene	25.0	26.8	107	70.0-130	
trans-1,3-Dichloropropene	25.0	26.5	106	70.0-130	

Laboratory Control Sample (LCS)

(LCS) R3291779-1 03/08/18 10:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Di-isopropyl ether	25.0	27.5	110	70.0-130	
Ethylbenzene	25.0	25.8	103	70.0-130	
2-Hexanone	125	139	112	70.0-130	
2-Butanone (MEK)	125	132	105	70.0-130	
Methylene Chloride	25.0	26.0	104	70.0-130	
4-Methyl-2-pentanone (MIBK)	125	140	112	70.0-130	
Methyl tert-butyl ether	25.0	27.5	110	70.0-130	
Naphthalene	25.0	24.6	98.5	70.0-130	
Styrene	25.0	25.9	103	70.0-130	
1,1,2,2-Tetrachloroethane	25.0	24.3	97.1	70.0-130	
Tetrachloroethene	25.0	26.1	104	70.0-130	
Toluene	25.0	25.8	103	70.0-130	
1,1,2-Trichlorotrifluoroethane	25.0	29.3	117	70.0-130	
1,1,1-Trichloroethane	25.0	28.7	115	70.0-130	
1,1,2-Trichloroethane	25.0	25.6	102	70.0-130	
Trichloroethene	25.0	26.8	107	70.0-130	
1,2,3-Trimethylbenzene	25.0	27.7	111	70.0-130	
Vinyl chloride	25.0	28.3	113	70.0-130	
Xylenes, Total	75.0	79.4	106	70.0-130	
(S) Toluene-d8			*100*	*80.0-120*	
(S) Dibromofluoromethane			*104*	*76.0-123*	
(S) a,a,a-Trifluorotoluene			*101*	*80.0-120*	
(S) 4-Bromofluorobenzene			*90.2*	*80.0-120*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
T8	Sample(s) received past/too close to holding time expiration.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

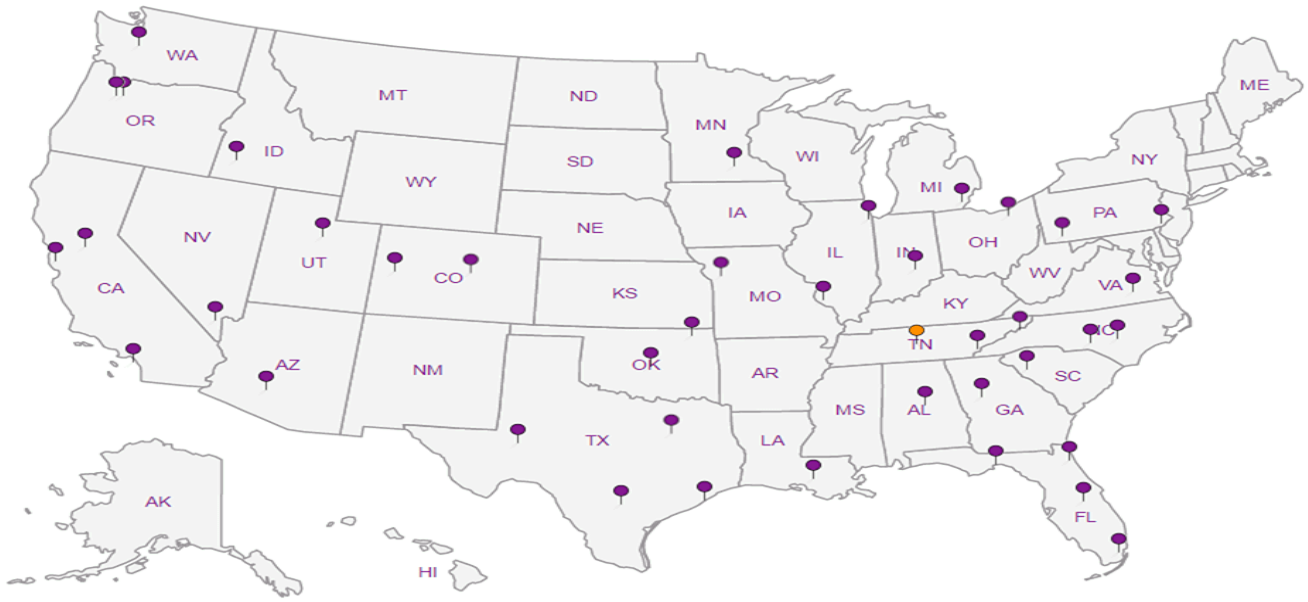
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Surface Water

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 609858.1D.MR.GW LEWIS DRIVE

Lab Project # KINCH2MGA-LEWIS

Collected by (print): MELISSA WARREN

Site/Facility ID # LEWISDRIVE BELTON, SC

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N X Y ___

Chain of Custody Page 1 of 2

ESC LABORATORIES
a subsidiary of Pace Analytical
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 975433

Table # G089

Acctnum: KINCH2MGA
Template: T130279
Prelogin: P640860
TSR: 526 - Chris McCord
PB: 2-27-18

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEXNSC 40mlAmb-HCl	V8260BTEXNSC-TB 40mlAmb-HCl-Blk	BTEX	NAPHTHALENE	1,2-DCA	NITRATE	ALKALINITY	SULFATE	FERROUS IRON	METHANE	Remarks	Sample # (lab only)
MW-22-030618	GRAB	GW	N/A	03/06/18	0925	3	X		X	X	X	X	X	X	X	X		-02
MW-13-030618		GW	N/A		1015	3	X		X	X	X							-03
FB01-030618		GW	N/A		1300	3	X		X	X	X							-04
MW-45-030618		GW	N/A		1315	3	X		X	X	X							-05
MW-45B-030618		GW			1330	3	X		X	X	X							-06
MW-20-030618		GW			1345	3	X		X	X	X	X	X	X	X	X		-07
MW-46-030618		GW			1410	3	X		X	X	X							-08
MW-23B-030618		GW			1420	3	X		X	X	X							-09
MW-23-030618		GW			1425	3	X		X	X	X							-10
MW-26B-030618		GW			1440	3	X		X	X	X							-11

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: CO_2 - LAB CALCULATION FOR ~~ALL~~ SAMPLES MW-22-030618 AND MW-20-030618

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Samples returned via: ___ UPS ___ FedEx ___ Courier ___ _____

Tracking # 4269 9209 8613

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeOH TBR
	03/06/18	1630		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.3 °C Bottles Received: 41HB
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3.7.18 Time: 845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Surface Water

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 699858.LD.MR.GW

Lab Project # KINCH2MGA-LEWIS

Collected by (print): MELISSA WARREN

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature):

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Chain of Custody Page 2 of 2

ESC LABORATORIES
a subsidiary of Accutest

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 975433

Table #

Acctnum: KINCH2MGA
Template: T130279
Prelogin: P640860
TSR: 526 - Chris McCord
PB: 2-27-18

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEXNSC 40mlAmb-HCl	V8260BTEXNSC-TB 40mlAmb-HCl-Blk	BTEX	NAPTHALENE	1,2 - DCA	Remarks	Sample # (lab only)
MW-26-030618	GRAB	GW	NA	03/06/18	1445	3	X		X	X	X		-12
		GW				3	X						
		GW				3	X						
		GW				3	X						
		GW				3	X						
TB01-030618	GRAB	GW	NA	03/06/18	1305	1		X					-13

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 4269 9209 8613

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: X Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: (Yes / No) HCL / MeoH TBR
	03/06/18	1630		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.3 °C Bottles Received: 4 1 TB
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3.7.18 Time: 815
				Hold: Condition: NCF / OK

Andy Vann

From: Chris McCord
Sent: Thursday, March 08, 2018 9:00 AM
To: Login; Due WetLab; Due VOC
Subject: L975433 *KINCH2MGA*

Importance: High

Please remove ALK, SULFATE, RSK175, and V8260BTEXNSC from L975433-07 per client email below.

SULFATE = WET:WIP:WG1081704
V8260BTEXNSC = VOL:WIP:WG1081780

Thanks,

Christopher McCord
Project Manager
ESC Lab Sciences-a subsidiary of Pace Analytical
12065 Lebanon Road | Mt. Juliet, TN 37122
615.773.3281 | Cell 615.504.3183
cmccord@esclabsciences.com | www.esclabsciences.com

From: Garvey, Bethany/ATL [mailto:Bethany.Garvey@CH2M.com]
Sent: Wednesday, March 07, 2018 10:45 PM
To: Chris McCord
Cc: Wiley, Tom/ATL
Subject: FW: L975433 KINCH2MGA NCF MIL

Hi Chris,

Please cancel the ferrous iron analysis listed on the COC. We are not needing the lab to perform that analysis. And yes, we are still needing the Trip Blank to be analyzed for TCL VOCs. ☺

Also can you please analyze MW-20 for nitrate only (so it's within hold) and place all other MW-20 parameters 'ON-HOLD'.

Thanks,
Bethany

Matthew Lockhart

ESC Lab Sciences
Non-Conformance Form

Login #:975433	Client:KINCH2MGA	Date:03/07/18	Evaluated by: Matthew Lockhart

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time	X	Login Clarification Needed		**If Broken Container:**
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courie
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments:Did not receive contianers to run for Ferous Iron.

Client informed by:		Call	x	Email		Voice Mail		Date:3/7/18	Time: 22:45
TSR Initials: CM	Client Contact: Bethany Garvey								

Login Instructions:

Ferrous Iron not needed.

ANALYTICAL REPORT

March 15, 2018

CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group:	L975693
Samples Received:	03/08/2018
Project Number:	699858. LD. MR.GW
Description:	Lewis Drive Groundwater
Site:	LEWIS DRIVE
Report To:	Bethany Garvey 6600 Peachtree Dunwoody Road 400 Embassy Row - Suite 600 Atlanta, GA 30328

Entire Report Reviewed By:

Jason Romer
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

MW-13B-030718 L975693-01 GW

Collected by: Melissa Warren
Collected date/time: 03/07/18 09:35
Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/08/18 20:04	03/08/18 20:04	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	10	03/13/18 16:47	03/13/18 16:47	BMB

MW-14-030718 L975693-02 GW

Collected by: Melissa Warren
Collected date/time: 03/07/18 09:40
Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/08/18 20:24	03/08/18 20:24	BMB

MW-14B-030718 L975693-03 GW

Collected by: Melissa Warren
Collected date/time: 03/07/18 09:45
Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/08/18 20:43	03/08/18 20:43	BMB

TB01-030718 L975693-04 GW

Collected by: Melissa Warren
Collected date/time: 03/07/18 09:50
Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082412	1	03/13/18 19:23	03/13/18 19:23	DWR

MW-48B-030718 L975693-05 GW

Collected by: Melissa Warren
Collected date/time: 03/07/18 10:00
Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/08/18 21:02	03/08/18 21:02	BMB

MW-50B-030718 L975693-06 GW

Collected by: Melissa Warren
Collected date/time: 03/07/18 10:10
Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/08/18 21:21	03/08/18 21:21	BMB

MW-47-030718 L975693-07 GW

Collected by: Melissa Warren
Collected date/time: 03/07/18 10:20
Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/08/18 21:41	03/08/18 21:41	BMB

MW-31-030718 L975693-08 GW

Collected by: Melissa Warren
Collected date/time: 03/07/18 10:25
Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/08/18 22:00	03/08/18 22:00	BMB

MW-33T-030718 L975693-09 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 10:35 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/08/18 22:19	03/08/18 22:19	BMB

MW-10-030718 L975693-10 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 11:00 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1082115	1	03/08/18 15:58	03/08/18 15:58	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1082115	1	03/08/18 15:58	03/08/18 15:58	MCG
Wet Chemistry by Method 9056A	WG1082093	1	03/08/18 19:23	03/08/18 19:23	DR
Volatile Organic Compounds (GC) by Method RSK175	WG1082294	1	03/09/18 11:13	03/09/18 11:13	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/08/18 22:38	03/08/18 22:38	BMB

MW-02-030718 L975693-11 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 12:30 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1082115	1	03/08/18 16:03	03/08/18 16:03	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1082115	1	03/08/18 16:03	03/08/18 16:03	MCG
Wet Chemistry by Method 9056A	WG1082093	1	03/08/18 20:09	03/08/18 20:09	DR
Volatile Organic Compounds (GC) by Method RSK175	WG1082294	1	03/09/18 11:16	03/09/18 11:16	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/08/18 22:57	03/08/18 22:57	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	10	03/13/18 17:07	03/13/18 17:07	BMB

MW-02B-030718 L975693-12 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 12:35 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/08/18 23:16	03/08/18 23:16	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/13/18 17:26	03/13/18 17:26	BMB

MW-32-030718 L975693-13 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 12:50 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1082115	1	03/08/18 16:14	03/08/18 16:14	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1082115	1	03/08/18 16:14	03/08/18 16:14	MCG
Wet Chemistry by Method 9056A	WG1082093	1	03/08/18 20:40	03/08/18 20:40	DR
Volatile Organic Compounds (GC) by Method RSK175	WG1082294	1	03/09/18 11:19	03/09/18 11:19	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/08/18 23:36	03/08/18 23:36	BMB

MW-30-030718 L975693-15 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 13:05 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/09/18 00:15	03/09/18 00:15	BMB

MW-04-030718 L975693-16 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 13:40 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1082115	1	03/08/18 16:21	03/08/18 16:21	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1082115	1	03/08/18 16:21	03/08/18 16:21	MCG
Wet Chemistry by Method 9056A	WG1082093	1	03/08/18 20:55	03/08/18 20:55	DR
Volatile Organic Compounds (GC) by Method RSK175	WG1082294	1	03/09/18 11:22	03/09/18 11:22	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/09/18 00:34	03/09/18 00:34	BMB

MW-05-030718 L975693-17 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 13:50 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/09/18 00:53	03/09/18 00:53	BMB

MW-06-030718 L975693-18 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 14:00 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/09/18 01:13	03/09/18 01:13	BMB

MW-06B-030718 L975693-19 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 14:05 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/09/18 01:32	03/09/18 01:32	BMB

MW-16-030718 L975693-20 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 14:30 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1082115	1	03/08/18 16:26	03/08/18 16:26	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1082115	1	03/08/18 16:26	03/08/18 16:26	MCG
Wet Chemistry by Method 9056A	WG1082093	1	03/08/18 21:11	03/08/18 21:11	DR
Volatile Organic Compounds (GC) by Method RSK175	WG1082294	1	03/09/18 11:24	03/09/18 11:24	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	10	03/09/18 01:51	03/09/18 01:51	BMB

MW-08-030718 L975693-21 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 14:50 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1082115	1	03/08/18 16:31	03/08/18 16:31	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1082115	1	03/08/18 16:31	03/08/18 16:31	MCG
Wet Chemistry by Method 9056A	WG1082093	1	03/08/18 21:26	03/08/18 21:26	DR
Volatile Organic Compounds (GC) by Method RSK175	WG1082294	1	03/09/18 11:50	03/09/18 11:50	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082335	1	03/09/18 02:10	03/09/18 02:10	BMB

MW-09-030718 L975693-22 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 15:00 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1082115	1	03/08/18 16:36	03/08/18 16:36	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1082115	1	03/08/18 16:36	03/08/18 16:36	MCG
Wet Chemistry by Method 9056A	WG1082093	1	03/08/18 21:41	03/08/18 21:41	DR
Volatile Organic Compounds (GC) by Method RSK175	WG1082294	1	03/09/18 11:35	03/09/18 11:35	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082433	1	03/09/18 00:33	03/09/18 00:33	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082433	1	03/14/18 16:38	03/14/18 16:38	AB

MW-09D-030718 L975693-23 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 15:05 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082433	1	03/09/18 00:54	03/09/18 00:54	DWR

MW-09B-030718 L975693-24 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 15:15 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082433	1	03/09/18 01:15	03/09/18 01:15	DWR

MW-36-030718 L975693-25 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 15:20 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082433	10	03/09/18 01:36	03/09/18 01:36	DWR

MW-36B-030718 L975693-26 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 15:25 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082433	1	03/09/18 01:57	03/09/18 01:57	DWR

MW-21-030718 L975693-27 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 15:55 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082433	1	03/09/18 02:18	03/09/18 02:18	DWR

MW-17B-030718 L975693-28 GW

Collected by: Melissa Warren | Collected date/time: 03/07/18 16:00 | Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082433	200	03/15/18 04:48	03/15/18 04:48	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082433	50	03/09/18 02:39	03/09/18 02:39	DWR

FB01-030718 L975693-29 GW

Collected by: Melissa Warren
Collected date/time: 03/07/18 16:05
Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082433	1	03/09/18 03:00	03/09/18 03:00	DWR

MW-17BD-030718 L975693-30 GW

Collected by: Melissa Warren
Collected date/time: 03/07/18 16:02
Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082433	200	03/15/18 05:07	03/15/18 05:07	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082433	50	03/09/18 03:21	03/09/18 03:21	DWR

MW-29-030718 L975693-31 GW

Collected by: Melissa Warren
Collected date/time: 03/07/18 08:55
Received date/time: 03/08/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1082115	1	03/08/18 16:43	03/08/18 16:43	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1082115	1	03/08/18 16:43	03/08/18 16:43	MCG
Wet Chemistry by Method 9056A	WG1082093	1	03/08/18 21:57	03/08/18 21:57	DR
Volatile Organic Compounds (GC) by Method RSK175	WG1082294	1	03/09/18 11:37	03/09/18 11:37	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082433	1	03/09/18 03:42	03/09/18 03:42	DWR

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	252		10.0	10	03/13/2018 16:47	WG1082335
Toluene	12.1		1.00	1	03/08/2018 20:04	WG1082335
Ethylbenzene	3.13		1.00	1	03/08/2018 20:04	WG1082335
Total Xylenes	60.2		3.00	1	03/08/2018 20:04	WG1082335
Methyl tert-butyl ether	175		1.00	1	03/08/2018 20:04	WG1082335
Naphthalene	6.44		5.00	1	03/08/2018 20:04	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/08/2018 20:04	WG1082335
(S) Toluene-d8	*106*		*80.0-120*		*03/13/2018 16:47*	WG1082335
(S) Toluene-d8	*103*		*80.0-120*		*03/08/2018 20:04*	WG1082335
(S) Dibromofluoromethane	*89.4*		*76.0-123*		*03/13/2018 16:47*	WG1082335
(S) Dibromofluoromethane	*108*		*76.0-123*		*03/08/2018 20:04*	WG1082335
(S) 4-Bromofluorobenzene	*92.9*		*80.0-120*		*03/13/2018 16:47*	WG1082335
(S) 4-Bromofluorobenzene	*106*		*80.0-120*		*03/08/2018 20:04*	WG1082335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/08/2018 20:24	WG1082335
Toluene	ND		1.00	1	03/08/2018 20:24	WG1082335
Ethylbenzene	ND		1.00	1	03/08/2018 20:24	WG1082335
Total Xylenes	ND		3.00	1	03/08/2018 20:24	WG1082335
Methyl tert-butyl ether	ND		1.00	1	03/08/2018 20:24	WG1082335
Naphthalene	ND		5.00	1	03/08/2018 20:24	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/08/2018 20:24	WG1082335
(S) Toluene-d8	*101*		*80.0-120*		*03/08/2018 20:24*	WG1082335
(S) Dibromofluoromethane	*111*		*76.0-123*		*03/08/2018 20:24*	WG1082335
(S) 4-Bromofluorobenzene	*109*		*80.0-120*		*03/08/2018 20:24*	WG1082335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	3.57		1.00	1	03/08/2018 20:43	WG1082335
Toluene	ND		1.00	1	03/08/2018 20:43	WG1082335
Ethylbenzene	ND		1.00	1	03/08/2018 20:43	WG1082335
Total Xylenes	5.60		3.00	1	03/08/2018 20:43	WG1082335
Methyl tert-butyl ether	9.28		1.00	1	03/08/2018 20:43	WG1082335
Naphthalene	ND		5.00	1	03/08/2018 20:43	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/08/2018 20:43	WG1082335
(S) Toluene-d8	*102*		*80.0-120*		*03/08/2018 20:43*	WG1082335
(S) Dibromofluoromethane	*107*		*76.0-123*		*03/08/2018 20:43*	WG1082335
(S) 4-Bromofluorobenzene	*109*		*80.0-120*		*03/08/2018 20:43*	WG1082335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/13/2018 19:23	WG1082412
Benzene	ND		1.00	1	03/13/2018 19:23	WG1082412
Bromodichloromethane	ND		1.00	1	03/13/2018 19:23	WG1082412
Bromoform	ND		1.00	1	03/13/2018 19:23	WG1082412
Bromomethane	ND		5.00	1	03/13/2018 19:23	WG1082412
Carbon disulfide	ND		1.00	1	03/13/2018 19:23	WG1082412
Carbon tetrachloride	ND		1.00	1	03/13/2018 19:23	WG1082412
Chlorobenzene	ND		1.00	1	03/13/2018 19:23	WG1082412
Chlorodibromomethane	ND		1.00	1	03/13/2018 19:23	WG1082412
Chloroethane	ND		5.00	1	03/13/2018 19:23	WG1082412
Chloroform	ND		5.00	1	03/13/2018 19:23	WG1082412
Chloromethane	ND		2.50	1	03/13/2018 19:23	WG1082412
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/13/2018 19:23	WG1082412
1,2-Dibromoethane	ND		1.00	1	03/13/2018 19:23	WG1082412
1,2-Dichlorobenzene	ND		1.00	1	03/13/2018 19:23	WG1082412
1,3-Dichlorobenzene	ND		1.00	1	03/13/2018 19:23	WG1082412
1,4-Dichlorobenzene	ND		1.00	1	03/13/2018 19:23	WG1082412
1,1-Dichloroethane	ND		1.00	1	03/13/2018 19:23	WG1082412
1,2-Dichloroethane	ND		1.00	1	03/13/2018 19:23	WG1082412
1,1-Dichloroethene	ND		1.00	1	03/13/2018 19:23	WG1082412
cis-1,2-Dichloroethene	ND		1.00	1	03/13/2018 19:23	WG1082412
trans-1,2-Dichloroethene	ND		1.00	1	03/13/2018 19:23	WG1082412
1,2-Dichloropropane	ND		1.00	1	03/13/2018 19:23	WG1082412
cis-1,3-Dichloropropene	ND		1.00	1	03/13/2018 19:23	WG1082412
trans-1,3-Dichloropropene	ND		1.00	1	03/13/2018 19:23	WG1082412
Di-isopropyl ether	ND		1.00	1	03/13/2018 19:23	WG1082412
Ethylbenzene	ND		1.00	1	03/13/2018 19:23	WG1082412
2-Butanone (MEK)	ND		10.0	1	03/13/2018 19:23	WG1082412
2-Hexanone	ND		10.0	1	03/13/2018 19:23	WG1082412
Methylene Chloride	ND		5.00	1	03/13/2018 19:23	WG1082412
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/13/2018 19:23	WG1082412
Methyl tert-butyl ether	ND		1.00	1	03/13/2018 19:23	WG1082412
Naphthalene	ND		5.00	1	03/13/2018 19:23	WG1082412
Styrene	ND		1.00	1	03/13/2018 19:23	WG1082412
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/13/2018 19:23	WG1082412
Tetrachloroethene	ND		1.00	1	03/13/2018 19:23	WG1082412
Toluene	ND		1.00	1	03/13/2018 19:23	WG1082412
1,1,1-Trichloroethane	ND		1.00	1	03/13/2018 19:23	WG1082412
1,1,2-Trichloroethane	ND		1.00	1	03/13/2018 19:23	WG1082412
Trichloroethene	ND		1.00	1	03/13/2018 19:23	WG1082412
Vinyl chloride	ND		1.00	1	03/13/2018 19:23	WG1082412
Xylenes, Total	ND		3.00	1	03/13/2018 19:23	WG1082412
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/13/2018 19:23	WG1082412
1,2,3-Trimethylbenzene	ND		1.00	1	03/13/2018 19:23	WG1082412
(S) Toluene-d8	*102*		*80.0-120*		*03/13/2018 19:23*	WG1082412
(S) Dibromofluoromethane	*102*		*76.0-123*		*03/13/2018 19:23*	WG1082412
(S) a,a,a-Trifluorotoluene	*103*		*80.0-120*		*03/13/2018 19:23*	WG1082412
(S) 4-Bromofluorobenzene	*98.1*		*80.0-120*		*03/13/2018 19:23*	WG1082412

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/08/2018 21:02	WG1082335
Toluene	ND		1.00	1	03/08/2018 21:02	WG1082335
Ethylbenzene	ND		1.00	1	03/08/2018 21:02	WG1082335
Total Xylenes	ND		3.00	1	03/08/2018 21:02	WG1082335
Methyl tert-butyl ether	2.97		1.00	1	03/08/2018 21:02	WG1082335
Naphthalene	ND		5.00	1	03/08/2018 21:02	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/08/2018 21:02	WG1082335
(S) Toluene-d8	*100*		*80.0-120*		*03/08/2018 21:02*	WG1082335
(S) Dibromofluoromethane	*110*		*76.0-123*		*03/08/2018 21:02*	WG1082335
(S) 4-Bromofluorobenzene	*112*		*80.0-120*		*03/08/2018 21:02*	WG1082335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/08/2018 21:21	WG1082335
Toluene	ND		1.00	1	03/08/2018 21:21	WG1082335
Ethylbenzene	ND		1.00	1	03/08/2018 21:21	WG1082335
Total Xylenes	ND		3.00	1	03/08/2018 21:21	WG1082335
Methyl tert-butyl ether	26.7		1.00	1	03/08/2018 21:21	WG1082335
Naphthalene	ND		5.00	1	03/08/2018 21:21	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/08/2018 21:21	WG1082335
(S) Toluene-d8	*107*		*80.0-120*		*03/08/2018 21:21*	WG1082335
(S) Dibromofluoromethane	*109*		*76.0-123*		*03/08/2018 21:21*	WG1082335
(S) 4-Bromofluorobenzene	*108*		*80.0-120*		*03/08/2018 21:21*	WG1082335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/08/2018 21:41	WG1082335
Toluene	ND		1.00	1	03/08/2018 21:41	WG1082335
Ethylbenzene	ND		1.00	1	03/08/2018 21:41	WG1082335
Total Xylenes	ND		3.00	1	03/08/2018 21:41	WG1082335
Methyl tert-butyl ether	ND		1.00	1	03/08/2018 21:41	WG1082335
Naphthalene	ND		5.00	1	03/08/2018 21:41	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/08/2018 21:41	WG1082335
(S) Toluene-d8	*106*		*80.0-120*		*03/08/2018 21:41*	WG1082335
(S) Dibromofluoromethane	*110*		*76.0-123*		*03/08/2018 21:41*	WG1082335
(S) 4-Bromofluorobenzene	*108*		*80.0-120*		*03/08/2018 21:41*	WG1082335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/08/2018 22:00	WG1082335
Toluene	ND		1.00	1	03/08/2018 22:00	WG1082335
Ethylbenzene	ND		1.00	1	03/08/2018 22:00	WG1082335
Total Xylenes	ND		3.00	1	03/08/2018 22:00	WG1082335
Methyl tert-butyl ether	ND		1.00	1	03/08/2018 22:00	WG1082335
Naphthalene	ND		5.00	1	03/08/2018 22:00	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/08/2018 22:00	WG1082335
(S) Toluene-d8	*117*		*80.0-120*		*03/08/2018 22:00*	WG1082335
(S) Dibromofluoromethane	*111*		*76.0-123*		*03/08/2018 22:00*	WG1082335
(S) 4-Bromofluorobenzene	*108*		*80.0-120*		*03/08/2018 22:00*	WG1082335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/08/2018 22:19	WG1082335
Toluene	ND		1.00	1	03/08/2018 22:19	WG1082335
Ethylbenzene	ND		1.00	1	03/08/2018 22:19	WG1082335
Total Xylenes	ND		3.00	1	03/08/2018 22:19	WG1082335
Methyl tert-butyl ether	ND		1.00	1	03/08/2018 22:19	WG1082335
Naphthalene	ND		5.00	1	03/08/2018 22:19	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/08/2018 22:19	WG1082335
(S) Toluene-d8	*118*		*80.0-120*		*03/08/2018 22:19*	WG1082335
(S) Dibromofluoromethane	*108*		*76.0-123*		*03/08/2018 22:19*	WG1082335
(S) 4-Bromofluorobenzene	*90.1*		*80.0-120*		*03/08/2018 22:19*	WG1082335

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Alkalinity	ND		20000	1	03/08/2018 15:58	WG1082115

Sample Narrative:
L975693-10 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Free Carbon Dioxide	40400	T8	20000	1	03/08/2018 15:58	WG1082115

Sample Narrative:
L975693-10 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Nitrate as (N)	ND		100	1	03/08/2018 19:23	WG1082093
Sulfate	ND		5000	1	03/08/2018 19:23	WG1082093

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Methane	ND		10.0	1	03/09/2018 11:13	WG1082294

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/08/2018 22:38	WG1082335
Toluene	ND		1.00	1	03/08/2018 22:38	WG1082335
Ethylbenzene	ND		1.00	1	03/08/2018 22:38	WG1082335
Total Xylenes	ND		3.00	1	03/08/2018 22:38	WG1082335
Methyl tert-butyl ether	ND		1.00	1	03/08/2018 22:38	WG1082335
Naphthalene	ND		5.00	1	03/08/2018 22:38	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/08/2018 22:38	WG1082335
(S) Toluene-d8	*87.7*		*80.0-120*		*03/08/2018 22:38*	WG1082335
(S) Dibromofluoromethane	*109*		*76.0-123*		*03/08/2018 22:38*	WG1082335
(S) 4-Bromofluorobenzene	*111*		*80.0-120*		*03/08/2018 22:38*	WG1082335

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Alkalinity	128000		20000	1	03/08/2018 16:03	WG1082115

Sample Narrative:
L975693-11 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Free Carbon Dioxide	ND	T8	20000	1	03/08/2018 16:03	WG1082115

Sample Narrative:
L975693-11 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Nitrate as (N)	313		100	1	03/08/2018 20:09	WG1082093
Sulfate	ND		5000	1	03/08/2018 20:09	WG1082093

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Methane	22.8		10.0	1	03/09/2018 11:16	WG1082294

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	131		1.00	1	03/08/2018 22:57	WG1082335
Toluene	594		10.0	10	03/13/2018 17:07	WG1082335
Ethylbenzene	34.1		1.00	1	03/08/2018 22:57	WG1082335
Total Xylenes	442		3.00	1	03/08/2018 22:57	WG1082335
Methyl tert-butyl ether	27.6		1.00	1	03/08/2018 22:57	WG1082335
Naphthalene	34.5		5.00	1	03/08/2018 22:57	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/08/2018 22:57	WG1082335
(S) Toluene-d8	*102*		*80.0-120*		*03/08/2018 22:57*	WG1082335
(S) Toluene-d8	*107*		*80.0-120*		*03/13/2018 17:07*	WG1082335
(S) Dibromofluoromethane	*90.7*		*76.0-123*		*03/13/2018 17:07*	WG1082335
(S) Dibromofluoromethane	*110*		*76.0-123*		*03/08/2018 22:57*	WG1082335
(S) 4-Bromofluorobenzene	*89.2*		*80.0-120*		*03/13/2018 17:07*	WG1082335
(S) 4-Bromofluorobenzene	*130*	J1	*80.0-120*		*03/08/2018 22:57*	WG1082335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/08/2018 23:16	WG1082335
Toluene	ND		1.00	1	03/13/2018 17:26	WG1082335
Ethylbenzene	ND		1.00	1	03/08/2018 23:16	WG1082335
Total Xylenes	ND		3.00	1	03/08/2018 23:16	WG1082335
Methyl tert-butyl ether	ND		1.00	1	03/08/2018 23:16	WG1082335
Naphthalene	ND		5.00	1	03/08/2018 23:16	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/08/2018 23:16	WG1082335
(S) Toluene-d8	*99.2*		*80.0-120*		*03/08/2018 23:16*	WG1082335
(S) Toluene-d8	*108*		*80.0-120*		*03/13/2018 17:26*	WG1082335
(S) Dibromofluoromethane	*86.8*		*76.0-123*		*03/13/2018 17:26*	WG1082335
(S) Dibromofluoromethane	*109*		*76.0-123*		*03/08/2018 23:16*	WG1082335
(S) 4-Bromofluorobenzene	*90.7*		*80.0-120*		*03/13/2018 17:26*	WG1082335
(S) 4-Bromofluorobenzene	*122*	J1	*80.0-120*		*03/08/2018 23:16*	WG1082335

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/08/2018 16:14	WG1082115

Sample Narrative:
L975693-13 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	T8	20000	1	03/08/2018 16:14	WG1082115

Sample Narrative:
L975693-13 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate as (N)	947		100	1	03/08/2018 20:40	WG1082093
Sulfate	ND		5000	1	03/08/2018 20:40	WG1082093

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/09/2018 11:19	WG1082294

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/08/2018 23:36	WG1082335
Toluene	ND		1.00	1	03/08/2018 23:36	WG1082335
Ethylbenzene	ND		1.00	1	03/08/2018 23:36	WG1082335
Total Xylenes	ND		3.00	1	03/08/2018 23:36	WG1082335
Methyl tert-butyl ether	ND		1.00	1	03/08/2018 23:36	WG1082335
Naphthalene	ND		5.00	1	03/08/2018 23:36	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/08/2018 23:36	WG1082335
(S) Toluene-d8	*102*		*80.0-120*		*03/08/2018 23:36*	WG1082335
(S) Dibromofluoromethane	*106*		*76.0-123*		*03/08/2018 23:36*	WG1082335
(S) 4-Bromofluorobenzene	*110*		*80.0-120*		*03/08/2018 23:36*	WG1082335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	22.1		1.00	1	03/09/2018 00:15	WG1082335
Toluene	8.94		1.00	1	03/09/2018 00:15	WG1082335
Ethylbenzene	ND		1.00	1	03/09/2018 00:15	WG1082335
Total Xylenes	19.1		3.00	1	03/09/2018 00:15	WG1082335
Methyl tert-butyl ether	2.25		1.00	1	03/09/2018 00:15	WG1082335
Naphthalene	ND		5.00	1	03/09/2018 00:15	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/09/2018 00:15	WG1082335
(S) Toluene-d8	*101*		*80.0-120*		*03/09/2018 00:15*	WG1082335
(S) Dibromofluoromethane	*109*		*76.0-123*		*03/09/2018 00:15*	WG1082335
(S) 4-Bromofluorobenzene	*114*		*80.0-120*		*03/09/2018 00:15*	WG1082335

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Alkalinity	ND		20000	1	03/08/2018 16:21	WG1082115

Sample Narrative:
L975693-16 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Free Carbon Dioxide	33800	T8	20000	1	03/08/2018 16:21	WG1082115

Sample Narrative:
L975693-16 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Nitrate as (N)	ND		100	1	03/08/2018 20:55	WG1082093
Sulfate	ND		5000	1	03/08/2018 20:55	WG1082093

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Methane	ND		10.0	1	03/09/2018 11:22	WG1082294

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 00:34	WG1082335
Toluene	ND		1.00	1	03/09/2018 00:34	WG1082335
Ethylbenzene	ND		1.00	1	03/09/2018 00:34	WG1082335
Total Xylenes	ND		3.00	1	03/09/2018 00:34	WG1082335
Methyl tert-butyl ether	ND		1.00	1	03/09/2018 00:34	WG1082335
Naphthalene	ND		5.00	1	03/09/2018 00:34	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/09/2018 00:34	WG1082335
(S) Toluene-d8	*99.3*		*80.0-120*		*03/09/2018 00:34*	WG1082335
(S) Dibromofluoromethane	*108*		*76.0-123*		*03/09/2018 00:34*	WG1082335
(S) 4-Bromofluorobenzene	*111*		*80.0-120*		*03/09/2018 00:34*	WG1082335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 00:53	WG1082335
Toluene	ND		1.00	1	03/09/2018 00:53	WG1082335
Ethylbenzene	ND		1.00	1	03/09/2018 00:53	WG1082335
Total Xylenes	ND		3.00	1	03/09/2018 00:53	WG1082335
Methyl tert-butyl ether	ND		1.00	1	03/09/2018 00:53	WG1082335
Naphthalene	ND		5.00	1	03/09/2018 00:53	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/09/2018 00:53	WG1082335
(S) Toluene-d8	*100*		*80.0-120*		*03/09/2018 00:53*	WG1082335
(S) Dibromofluoromethane	*107*		*76.0-123*		*03/09/2018 00:53*	WG1082335
(S) 4-Bromofluorobenzene	*112*		*80.0-120*		*03/09/2018 00:53*	WG1082335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 01:13	WG1082335
Toluene	ND		1.00	1	03/09/2018 01:13	WG1082335
Ethylbenzene	ND		1.00	1	03/09/2018 01:13	WG1082335
Total Xylenes	ND		3.00	1	03/09/2018 01:13	WG1082335
Methyl tert-butyl ether	ND		1.00	1	03/09/2018 01:13	WG1082335
Naphthalene	ND		5.00	1	03/09/2018 01:13	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/09/2018 01:13	WG1082335
(S) Toluene-d8	*101*		*80.0-120*		*03/09/2018 01:13*	WG1082335
(S) Dibromofluoromethane	*106*		*76.0-123*		*03/09/2018 01:13*	WG1082335
(S) 4-Bromofluorobenzene	*111*		*80.0-120*		*03/09/2018 01:13*	WG1082335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 01:32	WG1082335
Toluene	3.63		1.00	1	03/09/2018 01:32	WG1082335
Ethylbenzene	ND		1.00	1	03/09/2018 01:32	WG1082335
Total Xylenes	ND		3.00	1	03/09/2018 01:32	WG1082335
Methyl tert-butyl ether	ND		1.00	1	03/09/2018 01:32	WG1082335
Naphthalene	ND		5.00	1	03/09/2018 01:32	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/09/2018 01:32	WG1082335
(S) Toluene-d8	*105*		*80.0-120*		*03/09/2018 01:32*	WG1082335
(S) Dibromofluoromethane	*104*		*76.0-123*		*03/09/2018 01:32*	WG1082335
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*03/09/2018 01:32*	WG1082335

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Alkalinity	ND		20000	1	03/08/2018 16:26	WG1082115

Sample Narrative:
L975693-20 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Free Carbon Dioxide	ND	T8	20000	1	03/08/2018 16:26	WG1082115

Sample Narrative:
L975693-20 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Nitrate as (N)	ND		100	1	03/08/2018 21:11	WG1082093
Sulfate	ND		5000	1	03/08/2018 21:11	WG1082093

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Methane	ND		10.0	1	03/09/2018 11:24	WG1082294

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	130		10.0	10	03/09/2018 01:51	WG1082335
Toluene	1370		10.0	10	03/09/2018 01:51	WG1082335
Ethylbenzene	295		10.0	10	03/09/2018 01:51	WG1082335
Total Xylenes	2470		30.0	10	03/09/2018 01:51	WG1082335
Methyl tert-butyl ether	132		10.0	10	03/09/2018 01:51	WG1082335
Naphthalene	618		50.0	10	03/09/2018 01:51	WG1082335
1,2-Dichloroethane	ND		10.0	10	03/09/2018 01:51	WG1082335
(S) Toluene-d8	*112*		*80.0-120*		*03/09/2018 01:51*	WG1082335
(S) Dibromofluoromethane	*109*		*76.0-123*		*03/09/2018 01:51*	WG1082335
(S) 4-Bromofluorobenzene	*109*		*80.0-120*		*03/09/2018 01:51*	WG1082335

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/08/2018 16:31	WG1082115

Sample Narrative:
L975693-21 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	T8	20000	1	03/08/2018 16:31	WG1082115

Sample Narrative:
L975693-21 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		100	1	03/08/2018 21:26	WG1082093
Sulfate	ND		5000	1	03/08/2018 21:26	WG1082093

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/09/2018 11:50	WG1082294

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/09/2018 02:10	WG1082335
Toluene	ND		1.00	1	03/09/2018 02:10	WG1082335
Ethylbenzene	ND		1.00	1	03/09/2018 02:10	WG1082335
Total Xylenes	ND		3.00	1	03/09/2018 02:10	WG1082335
Methyl tert-butyl ether	ND		1.00	1	03/09/2018 02:10	WG1082335
Naphthalene	ND		5.00	1	03/09/2018 02:10	WG1082335
1,2-Dichloroethane	ND		1.00	1	03/09/2018 02:10	WG1082335
(S) Toluene-d8	*104*		*80.0-120*		*03/09/2018 02:10*	WG1082335
(S) Dibromofluoromethane	*107*		*76.0-123*		*03/09/2018 02:10*	WG1082335
(S) 4-Bromofluorobenzene	*111*		*80.0-120*		*03/09/2018 02:10*	WG1082335

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Alkalinity	ND		20000	1	03/08/2018 16:36	WG1082115

Sample Narrative:
L975693-22 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Free Carbon Dioxide	ND	T8	20000	1	03/08/2018 16:36	WG1082115

Sample Narrative:
L975693-22 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Nitrate as (N)	ND		100	1	03/08/2018 21:41	WG1082093
Sulfate	ND		5000	1	03/08/2018 21:41	WG1082093

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Methane	ND		10.0	1	03/09/2018 11:35	WG1082294

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	3.30		1.00	1	03/09/2018 00:33	WG1082433
Toluene	11.0		1.00	1	03/09/2018 00:33	WG1082433
Ethylbenzene	ND		1.00	1	03/09/2018 00:33	WG1082433
Total Xylenes	3.92		3.00	1	03/14/2018 16:38	WG1082433
Methyl tert-butyl ether	8.74		1.00	1	03/09/2018 00:33	WG1082433
Naphthalene	ND		5.00	1	03/09/2018 00:33	WG1082433
1,2-Dichloroethane	ND		1.00	1	03/09/2018 00:33	WG1082433
(S) Toluene-d8	*101*		*80.0-120*		*03/14/2018 16:38*	WG1082433
(S) Toluene-d8	*104*		*80.0-120*		*03/09/2018 00:33*	WG1082433
(S) Dibromofluoromethane	*101*		*76.0-123*		*03/14/2018 16:38*	WG1082433
(S) Dibromofluoromethane	*97.9*		*76.0-123*		*03/09/2018 00:33*	WG1082433
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*03/14/2018 16:38*	WG1082433
(S) 4-Bromofluorobenzene	*103*		*80.0-120*		*03/09/2018 00:33*	WG1082433

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 00:54	WG1082433
Toluene	1.32		1.00	1	03/09/2018 00:54	WG1082433
Ethylbenzene	ND		1.00	1	03/09/2018 00:54	WG1082433
Total Xylenes	ND		3.00	1	03/09/2018 00:54	WG1082433
Methyl tert-butyl ether	8.74		1.00	1	03/09/2018 00:54	WG1082433
Naphthalene	ND		5.00	1	03/09/2018 00:54	WG1082433
1,2-Dichloroethane	ND		1.00	1	03/09/2018 00:54	WG1082433
(S) Toluene-d8	*104*		*80.0-120*		*03/09/2018 00:54*	WG1082433
(S) Dibromofluoromethane	*97.3*		*76.0-123*		*03/09/2018 00:54*	WG1082433
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*03/09/2018 00:54*	WG1082433

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	4.36		1.00	1	03/09/2018 01:15	WG1082433
Toluene	18.1		1.00	1	03/09/2018 01:15	WG1082433
Ethylbenzene	4.50		1.00	1	03/09/2018 01:15	WG1082433
Total Xylenes	33.3		3.00	1	03/09/2018 01:15	WG1082433
Methyl tert-butyl ether	1.37		1.00	1	03/09/2018 01:15	WG1082433
Naphthalene	ND		5.00	1	03/09/2018 01:15	WG1082433
1,2-Dichloroethane	ND		1.00	1	03/09/2018 01:15	WG1082433
(S) Toluene-d8	*103*		*80.0-120*		*03/09/2018 01:15*	WG1082433
(S) Dibromofluoromethane	*97.9*		*76.0-123*		*03/09/2018 01:15*	WG1082433
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*03/09/2018 01:15*	WG1082433

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	44.2		10.0	10	03/09/2018 01:36	WG1082433
Toluene	75.2		10.0	10	03/09/2018 01:36	WG1082433
Ethylbenzene	ND		10.0	10	03/09/2018 01:36	WG1082433
Total Xylenes	38.4		30.0	10	03/09/2018 01:36	WG1082433
Methyl tert-butyl ether	ND		10.0	10	03/09/2018 01:36	WG1082433
Naphthalene	ND		50.0	10	03/09/2018 01:36	WG1082433
1,2-Dichloroethane	ND		10.0	10	03/09/2018 01:36	WG1082433
(S) Toluene-d8	*105*		*80.0-120*		*03/09/2018 01:36*	WG1082433
(S) Dibromofluoromethane	*94.6*		*76.0-123*		*03/09/2018 01:36*	WG1082433
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*03/09/2018 01:36*	WG1082433

Sample Narrative:

L975693-25 WG1082433: Non-target compounds too high to run at a lower dilution.

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 01:57	WG1082433
Toluene	ND		1.00	1	03/09/2018 01:57	WG1082433
Ethylbenzene	ND		1.00	1	03/09/2018 01:57	WG1082433
Total Xylenes	ND		3.00	1	03/09/2018 01:57	WG1082433
Methyl tert-butyl ether	ND		1.00	1	03/09/2018 01:57	WG1082433
Naphthalene	ND		5.00	1	03/09/2018 01:57	WG1082433
1,2-Dichloroethane	ND		1.00	1	03/09/2018 01:57	WG1082433
(S) Toluene-d8	*105*		*80.0-120*		*03/09/2018 01:57*	WG1082433
(S) Dibromofluoromethane	*97.2*		*76.0-123*		*03/09/2018 01:57*	WG1082433
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*03/09/2018 01:57*	WG1082433

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 02:18	WG1082433
Toluene	ND		1.00	1	03/09/2018 02:18	WG1082433
Ethylbenzene	ND		1.00	1	03/09/2018 02:18	WG1082433
Total Xylenes	ND		3.00	1	03/09/2018 02:18	WG1082433
Methyl tert-butyl ether	ND		1.00	1	03/09/2018 02:18	WG1082433
Naphthalene	ND		5.00	1	03/09/2018 02:18	WG1082433
1,2-Dichloroethane	ND		1.00	1	03/09/2018 02:18	WG1082433
(S) Toluene-d8	*106*		*80.0-120*		*03/09/2018 02:18*	WG1082433
(S) Dibromofluoromethane	*97.9*		*76.0-123*		*03/09/2018 02:18*	WG1082433
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*03/09/2018 02:18*	WG1082433

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	8830		50.0	50	03/09/2018 02:39	WG1082433
Toluene	20200		200	200	03/15/2018 04:48	WG1082433
Ethylbenzene	1110		50.0	50	03/09/2018 02:39	WG1082433
Total Xylenes	8220		150	50	03/09/2018 02:39	WG1082433
Methyl tert-butyl ether	960		50.0	50	03/09/2018 02:39	WG1082433
Naphthalene	ND		250	50	03/09/2018 02:39	WG1082433
1,2-Dichloroethane	ND		50.0	50	03/09/2018 02:39	WG1082433
(S) Toluene-d8	*105*		*80.0-120*		*03/09/2018 02:39*	WG1082433
(S) Toluene-d8	*109*		*80.0-120*		*03/15/2018 04:48*	WG1082433
(S) Dibromofluoromethane	*95.5*		*76.0-123*		*03/09/2018 02:39*	WG1082433
(S) Dibromofluoromethane	*85.9*		*76.0-123*		*03/15/2018 04:48*	WG1082433
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*03/09/2018 02:39*	WG1082433
(S) 4-Bromofluorobenzene	*92.4*		*80.0-120*		*03/15/2018 04:48*	WG1082433

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 03:00	WG1082433
Toluene	ND		1.00	1	03/09/2018 03:00	WG1082433
Ethylbenzene	ND		1.00	1	03/09/2018 03:00	WG1082433
Total Xylenes	ND		3.00	1	03/09/2018 03:00	WG1082433
Methyl tert-butyl ether	ND		1.00	1	03/09/2018 03:00	WG1082433
Naphthalene	ND		5.00	1	03/09/2018 03:00	WG1082433
1,2-Dichloroethane	ND		1.00	1	03/09/2018 03:00	WG1082433
(S) Toluene-d8	*104*		*80.0-120*		*03/09/2018 03:00*	WG1082433
(S) Dibromofluoromethane	*95.8*		*76.0-123*		*03/09/2018 03:00*	WG1082433
(S) 4-Bromofluorobenzene	*103*		*80.0-120*		*03/09/2018 03:00*	WG1082433

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	8700		50.0	50	03/09/2018 03:21	WG1082433
Toluene	19400		200	200	03/15/2018 05:07	WG1082433
Ethylbenzene	1080		50.0	50	03/09/2018 03:21	WG1082433
Total Xylenes	7770		150	50	03/09/2018 03:21	WG1082433
Methyl tert-butyl ether	983		50.0	50	03/09/2018 03:21	WG1082433
Naphthalene	ND		250	50	03/09/2018 03:21	WG1082433
1,2-Dichloroethane	ND		50.0	50	03/09/2018 03:21	WG1082433
(S) Toluene-d8	*111*		*80.0-120*		*03/15/2018 05:07*	WG1082433
(S) Toluene-d8	*106*		*80.0-120*		*03/09/2018 03:21*	WG1082433
(S) Dibromofluoromethane	*97.0*		*76.0-123*		*03/09/2018 03:21*	WG1082433
(S) Dibromofluoromethane	*84.8*		*76.0-123*		*03/15/2018 05:07*	WG1082433
(S) 4-Bromofluorobenzene	*91.8*		*80.0-120*		*03/15/2018 05:07*	WG1082433
(S) 4-Bromofluorobenzene	*103*		*80.0-120*		*03/09/2018 03:21*	WG1082433

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Alkalinity	ND		20000	1	03/08/2018 16:43	WG1082115

Sample Narrative:
L975693-31 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Free Carbon Dioxide	67400	T8	20000	1	03/08/2018 16:43	WG1082115

Sample Narrative:
L975693-31 WG1082115: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Nitrate as (N)	3280		100	1	03/08/2018 21:57	WG1082093
Sulfate	69600		5000	1	03/08/2018 21:57	WG1082093

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Methane	ND		10.0	1	03/09/2018 11:37	WG1082294

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 03:42	WG1082433
Toluene	ND		1.00	1	03/09/2018 03:42	WG1082433
Ethylbenzene	ND		1.00	1	03/09/2018 03:42	WG1082433
Total Xylenes	ND		3.00	1	03/09/2018 03:42	WG1082433
Methyl tert-butyl ether	ND		1.00	1	03/09/2018 03:42	WG1082433
Naphthalene	ND		5.00	1	03/09/2018 03:42	WG1082433
1,2-Dichloroethane	ND		1.00	1	03/09/2018 03:42	WG1082433
(S) Toluene-d8	*106*		*80.0-120*		*03/09/2018 03:42*	WG1082433
(S) Dibromofluoromethane	*98.7*		*76.0-123*		*03/09/2018 03:42*	WG1082433
(S) 4-Bromofluorobenzene	*103*		*80.0-120*		*03/09/2018 03:42*	WG1082433

L975308-01 Original Sample (OS) • Duplicate (DUP)

(OS) L975308-01 03/08/18 14:33 • (DUP) R3291856-1 03/08/18 14:39

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	136000	140000	1	2.32		20

Sample Narrative:
OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

L975768-06 Original Sample (OS) • Duplicate (DUP)

(OS) L975768-06 03/08/18 17:01 • (DUP) R3291856-9 03/08/18 17:08

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	ND	6550	1	0.000		20

Sample Narrative:
OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3291856-7 03/08/18 15:42 • (LCSD) R3291856-8 03/08/18 16:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Alkalinity	100000	98500	98600	98.5	98.6	85.0-115			0.112	20

Sample Narrative:
LCS: Endpoint pH 4.5
LCSD: Endpoint pH 4.5

L975308-01 Original Sample (OS) • Duplicate (DUP)

(OS) L975308-01 03/08/18 14:33 • (DUP) R3291856-2 03/08/18 14:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Free Carbon Dioxide	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

L975768-06 Original Sample (OS) • Duplicate (DUP)

(OS) L975768-06 03/08/18 17:01 • (DUP) R3291856-10 03/08/18 17:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Free Carbon Dioxide	38100	40100	1	5.11		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

Method Blank (MB)

(MB) R3291805-1 03/08/18 12:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

L975690-03 Original Sample (OS) • Duplicate (DUP)

(OS) L975690-03 03/08/18 17:50 • (DUP) R3291805-4 03/08/18 18:06

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Nitrate	U	0.000	1	0.000		15

L975693-31 Original Sample (OS) • Duplicate (DUP)

(OS) L975693-31 03/08/18 21:57 • (DUP) R3291805-7 03/08/18 22:12

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Nitrate	3280	3670	1	11.1		15
Sulfate	69600	70200	1	0.794		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3291805-2 03/08/18 12:40 • (LCSD) R3291805-3 03/08/18 12:55

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Nitrate	8000	8410	8350	105	104	80.0-120			0.734	15
Sulfate	40000	40000	39700	100	99.3	80.0-120			0.806	15

L975690-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L975690-03 03/08/18 17:50 • (MS) R3291805-5 03/08/18 18:21 • (MSD) R3291805-6 03/08/18 18:36

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate	5000	U	4810	4850	96.3	97.0	1	80.0-120			0.784	15

L975693-31 Original Sample (OS) • Matrix Spike (MS)

(OS) L975693-31 03/08/18 21:57 • (MS) R3291805-8 03/08/18 22:28

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate	5000	3280	8570	106	1	80.0-120	
Sulfate	50000	69600	116000	93.3	1	80.0-120	E

Method Blank (MB)

(MB) R3291940-1 03/09/18 10:05

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Methane	U		2.91	10.0

L975682-06 Original Sample (OS) • Duplicate (DUP)

(OS) L975682-06 03/09/18 10:44 • (DUP) R3291940-2 03/09/18 11:04

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	U	0.000	1	0.000		20

L975693-31 Original Sample (OS) • Duplicate (DUP)

(OS) L975693-31 03/09/18 11:37 • (DUP) R3291940-3 03/09/18 11:52

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	ND	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3291940-4 03/09/18 11:56 • (LCSD) R3291940-5 03/09/18 11:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methane	67.8	68.2	72.3	101	107	85.0-115			5.92	20

Method Blank (MB)

(MB) R3292538-2 03/08/18 16:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*102*			*80.0-120*
(S) Dibromofluoromethane	*109*			*76.0-123*
(S) 4-Bromofluorobenzene	*108*			*80.0-120*

Laboratory Control Sample (LCS)

(LCS) R3292538-1 03/08/18 15:50

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	25.0	28.8	115	70.0-130	
1,2-Dichloroethane	25.0	28.0	112	70.0-130	
Ethylbenzene	25.0	28.0	112	70.0-130	
Methyl tert-butyl ether	25.0	29.3	117	70.0-130	
Naphthalene	25.0	20.0	80.1	70.0-130	
Toluene	25.0	27.1	108	70.0-130	
Xylenes, Total	75.0	82.9	111	70.0-130	
(S) Toluene-d8			*102*	*80.0-120*	
(S) Dibromofluoromethane			*107*	*76.0-123*	
(S) 4-Bromofluorobenzene			*111*	*80.0-120*	

Method Blank (MB)

(MB) R3293119-4 03/13/18 18:20

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Benzene	U		0.331	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
Carbon disulfide	U		0.275	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00
2-Hexanone	U		3.82	10.0
2-Butanone (MEK)	U		3.93	10.0
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Styrene	U		0.307	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00

Method Blank (MB)

(MB) R3293119-4 03/13/18 18:20

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Trichloroethene	U		0.398	1.00
1,2,3-Trimethylbenzene	U		0.321	1.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*101*			*80.0-120*
(S) Dibromofluoromethane	*101*			*76.0-123*
(S) a,a,a-Trifluorotoluene	*102*			*80.0-120*
(S) 4-Bromofluorobenzene	*95.9*			*80.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3293119-1 03/13/18 17:05 • (LCSD) R3293119-2 03/13/18 17:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	137	115	110	92.0	70.0-130			17.6	23.9
Benzene	25.0	22.9	22.8	91.4	91.3	70.0-130			0.165	20
Bromodichloromethane	25.0	26.8	27.1	107	108	70.0-130			0.796	20
Bromoform	25.0	25.0	25.3	99.9	101	70.0-130			1.18	20
Bromomethane	25.0	21.1	21.5	84.2	86.1	70.0-130			2.21	20
Carbon disulfide	25.0	20.7	20.8	83.0	83.1	70.0-130			0.112	20
Carbon tetrachloride	25.0	26.9	26.6	107	106	70.0-130			1.13	20
Chlorobenzene	25.0	23.5	22.9	93.9	91.6	70.0-130			2.43	20
Chlorodibromomethane	25.0	26.6	25.2	106	101	70.0-130			5.45	20
Chloroethane	25.0	19.4	20.0	77.6	79.8	70.0-130			2.81	20
Chloroform	25.0	28.1	27.8	112	111	70.0-130			0.924	20
Chloromethane	25.0	17.8	17.6	71.1	70.6	70.0-130			0.716	20
1,2-Dibromo-3-Chloropropane	25.0	27.4	27.7	110	111	70.0-130			0.946	20
1,2-Dibromoethane	25.0	26.3	25.8	105	103	70.0-130			2.11	20
1,2-Dichlorobenzene	25.0	23.3	22.7	93.0	90.7	70.0-130			2.55	20
1,3-Dichlorobenzene	25.0	21.2	21.8	84.9	87.2	70.0-130			2.69	20
1,4-Dichlorobenzene	25.0	23.1	22.6	92.3	90.6	70.0-130			1.91	20
1,1-Dichloroethane	25.0	22.4	22.0	89.5	87.9	70.0-130			1.78	20
1,2-Dichloroethane	25.0	27.7	26.9	111	108	70.0-130			3.11	20
1,1-Dichloroethene	25.0	22.5	22.6	90.2	90.5	70.0-130			0.352	20
cis-1,2-Dichloroethene	25.0	23.8	24.0	95.0	96.1	70.0-130			1.10	20
trans-1,2-Dichloroethene	25.0	23.3	23.5	93.1	94.1	70.0-130			1.04	20
1,2-Dichloropropane	25.0	20.4	20.5	81.7	82.0	70.0-130			0.354	20
cis-1,3-Dichloropropene	25.0	26.6	26.2	106	105	70.0-130			1.64	20
trans-1,3-Dichloropropene	25.0	27.7	26.8	111	107	70.0-130			3.45	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3293119-1 03/13/18 17:05 • (LCSD) R3293119-2 03/13/18 17:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Di-isopropyl ether	25.0	22.1	21.7	88.6	86.9	70.0-130			1.89	20
Ethylbenzene	25.0	24.8	24.2	99.1	97.0	70.0-130			2.15	20
2-Hexanone	125	109	103	87.2	82.5	70.0-130			5.62	20
2-Butanone (MEK)	125	104	94.1	83.2	75.3	70.0-130			9.97	20
Methylene Chloride	25.0	23.7	22.8	94.9	91.2	70.0-130			3.97	20
4-Methyl-2-pentanone (MIBK)	125	127	120	102	95.8	70.0-130			6.10	20
Methyl tert-butyl ether	25.0	26.5	24.4	106	97.6	70.0-130			8.18	20
Naphthalene	25.0	25.1	25.5	100	102	70.0-130			1.81	20
Styrene	25.0	20.9	21.5	83.5	85.8	70.0-130			2.74	20
1,1,2,2-Tetrachloroethane	25.0	22.7	21.8	90.7	87.2	70.0-130			3.94	20
Tetrachloroethene	25.0	23.1	22.6	92.5	90.5	70.0-130			2.19	20
Toluene	25.0	22.3	22.4	89.4	89.5	70.0-130			0.146	20
1,1,2-Trichlorotrifluoroethane	25.0	27.7	27.0	111	108	70.0-130			2.78	20
1,1,1-Trichloroethane	25.0	29.5	28.5	118	114	70.0-130			3.45	20
1,1,2-Trichloroethane	25.0	24.5	23.6	98.2	94.3	70.0-130			4.07	20
Trichloroethene	25.0	25.2	25.1	101	100	70.0-130			0.183	20
1,2,3-Trimethylbenzene	25.0	26.3	27.0	105	108	70.0-130			2.58	20
Vinyl chloride	25.0	20.7	20.7	82.6	82.8	70.0-130			0.237	20
Xylenes, Total	75.0	73.4	75.0	97.9	100	70.0-130			2.16	20
(S) Toluene-d8				*103*	*101*	*80.0-120*				
(S) Dibromofluoromethane				*102*	*101*	*76.0-123*				
(S) a,a,a-Trifluorotoluene				*103*	*103*	*80.0-120*				
(S) 4-Bromofluorobenzene				*93.8*	*95.1*	*80.0-120*				

Method Blank (MB)

(MB) R3292764-2 03/08/18 22:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*107*			*80.0-120*
(S) Dibromofluoromethane	*96.0*			*76.0-123*
(S) 4-Bromofluorobenzene	*105*			*80.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3292764-1 03/08/18 20:21 • (LCSD) R3292764-3 03/08/18 20:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	26.5	26.6	106	106	70.0-130			0.245	20
1,2-Dichloroethane	25.0	28.6	28.0	114	112	70.0-130			1.97	20
Ethylbenzene	25.0	26.2	26.2	105	105	70.0-130			0.219	20
Methyl tert-butyl ether	25.0	25.1	24.6	100	98.6	70.0-130			1.81	20
Naphthalene	25.0	26.4	26.3	106	105	70.0-130			0.249	20
Toluene	25.0	26.5	26.1	106	104	70.0-130			1.59	20
Xylenes, Total	75.0	80.6	78.3	107	104	70.0-130			2.89	20
(S) Toluene-d8				*107*	*104*	*80.0-120*				
(S) Dibromofluoromethane				*96.9*	*98.2*	*76.0-123*				
(S) 4-Bromofluorobenzene				*103*	*106*	*80.0-120*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
T8	Sample(s) received past/too close to holding time expiration.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

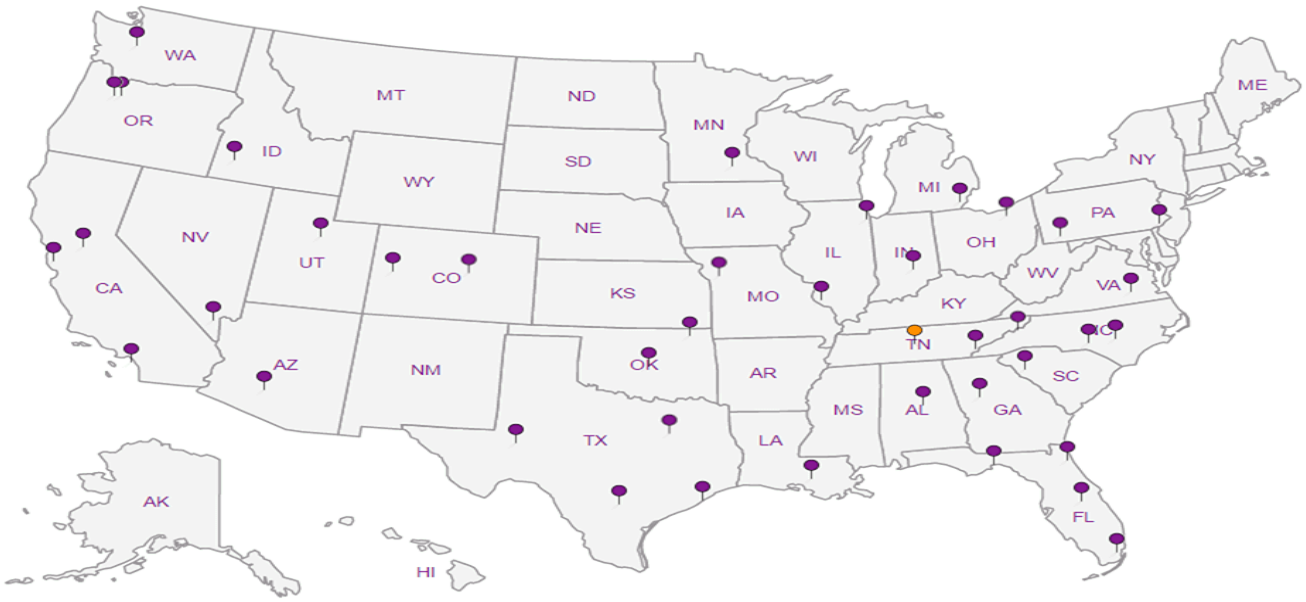
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Pres Chk

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Groundwater

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 699858.LD.MR.GW

Lab Project # KINCH2MGA-LEWIS12

Collected by (print): MELISSA WARNER

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature):

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NITRATE,SULFATE* 125mlHDPE-NoPres	ALK,CO2 125mlHDPE-NoPres	RSK175 40mlAmb HCl	V8260BTEXMNSC 40mlAmb-HCl	NAPHTHALENE	BTEX	1,2-DCA	V8260 BTEX/NSC - TB 40mlAmb HCl-BLK				
MW-13B-030718	GRAB	GW	NA	03/07/18	0935	3					X	X	X					-01
MW-14-030718		GW			0940	3					X	X	X					-02
MW-14B-030718		GW			0945	3					X	X	X					-03
TB01-030718		GW			0950	1					X	X	X	X				-04
MW-48B-030718		GW			1000	3					X	X	X					-05
MW-50B-030718		GW			1010	3					X	X	X					-06
MW-47-030718		GW			1020	3					X	X	X					-07
MW-31-030718		GW			1025	3					X	X	X					-08
MW-33T-030718		GW			1035	3					X	X	X					-09
MW-10-030718		GW			1100	~~3~~ 7 MT	X	X	X	X	X	X	X	X				-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: *NITRATE/SULFATE* has a 48hr hold time.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 4269 9209 8543

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	03/07/18	1730	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			801

Trip Blank Received: Yes / No
HCl / MeoH
TBR

Temp: 2.2 °C Bottles Received: 126

Date: 3/8/18 Time: 9:00

Hold: Condition: NCF OK

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X __Y __N
Bottles arrive intact: X __Y __N
Correct bottles used: X __Y __N
Sufficient volume sent: X __Y __N
If Applicable
VOA Zero Headspace: X __Y __N
Preservation Correct/Checked: __Y __N

If preservation required by Login: Date/Time

Chain of Custody Page 1 of 4

ESC LABORATORIES
a subsidiary of Accutest

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L975693

D068

Acctnum: KINCH2MGA
Template: T130277
Prelogin: P640853
TSR: 526 - Chris McCord
PB: 2-27186
Shipped Via: FedEX Ground

Remarks | Sample # (lab only)

CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Groundwater

City/State Collected:

Phone: 770-604-9182
Fax:

Client Project # 699858, LD, MR, GW

Lab Project # KINCH2MGA-LEWIS12

Collected by (print): MELISSA WARREN

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N X Y ___

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NITRATE,SULFATE* 125mlHDPE-NoPres	ALK,CO2 125mlHDPE-NoPres	RSK175 40mlAmb HCl	V8260BTEXMNSC 40mlAmb-HCl	BTEX	NAPHTHALENE	1,2-DCA	Remarks	Sample # (lab only)
MW-02-030718	GRAB	GW	N/A	03/07/18	1230	3	X	X	X	X	X	X	X		-11
MW-02B-030718		GW			1235	3				X	X	X	X		-12
MW-32-030718		GW			1250	3	X	X	X	X	X	X	X		-13
MW-03-030718		GW			1300	3				X	X	X	X		-14
MW-30-030718		GW			1305	3				X	X	X	X		-15
MW-04-030718		GW			1340	3	X	X	X	X	X	X	X		-16
MW-05-030718		GW			1350	3				X	X	X	X		-17
MW-06-030718		GW			1400	3				X	X	X	X		-18
MW-06B-030718		GW			1405	3				X	X	X	X		-19
MW-16-030718		GW			1430	3 TAT	X	X	X	X	X	X	X		-20

Remarks: *NITRATE/SULFATE* has a 48hr hold time.

pH _____ Temp _____

Flow _____ Other _____

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Samples returned via: __ UPS __ FedEx __ Courier __ _____

Tracking # 4269 9209 8543

Trip Blank Received: (Yes) / No
(HCL) / MeoH
TBR

Temp: 3.7 °C Bottles Received: 12G

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	03/07/18	1730	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			801

Date: 3/8/18 Time: 9:00

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X __Y __N
Bottles arrive intact: X __Y __N
Correct bottles used: X __Y __N
Sufficient volume sent: X __Y __N
If Applicable
VOA Zero Headspace: X __Y __N
Preservation Correct/Checked: __Y __N

Chain of Custody Page 2 of 4

ESC LABORATORY SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L975693

Table #

Acctnum: KINCH2MGA

Template: T130277

Prelogin: P640853

TSR: 526 - Chris McCord

PB: 2-27-18

Shipped Via: FedEX Ground

CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Groundwater

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 699858, LD, MR, GW

Lab Project # KINCH2MGA-LEWIS12

Collected by (print): MELISSA WARREN

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NITRATE,SULFATE* 125mlHDPE-NoPres	ALK,CO2 125mlHDPE-NoPres	RSK175 40mlAmb HCl	V8260BTEXMNSC 40mlAmb-HCl	BTEX	NAPHTHALENE	1,2-DCA	Remarks	Sample # (lab only)
MW-08-030718	GRAB	GW	N/A	03/07/18	1450	3	X	X	X	X	X	X	X		-21
MW-09-030718		GW			1500	3	X	X	X	X	X	X	X		-22
MW-09D-030718		GW			1505	3				X	X	X	X		-23
MW-09B-030718		GW			1515	3				X	X	X	X		-24
MW-36-030718		GW			1520	3				X	X	X	X		-25
MW-36B-030718		GW			1525	3				X	X	X	X		-26
MW-21-030718		GW			1555	3				X	X	X	X		-27
MW-17B-030718		GW			1600	3				X	X	X	X		-28
FB01-030718		GW			1605	3				X	X	X	X		-29
MW-17BD-030718		GW			1602	3				X	X	X	X		-30

Analysis / Container / Preservative

Chain of Custody Page 3 of 4

ESC LABORATORY SCIENCES
a subsidiary of ACZ

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L975693

Table #

Acctnum: KINCH2MGA

Template: T130277

Prelogin: P640853

TSR: 526 - Chris McCord

PB: 2-27-18

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: *NITRATE/SULFATE* has a 48hr hold time.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 4269 9209 8543

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: X Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: (Yes) / No HCL / MeoH TBR
	03/07/18	1730		1
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.2 °C Bottles Received: 12G
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/8/18 Time: 9:00
				Hold: Condition: NCF / OK

Chain of Custody Page 4 of 4

ESC LABORATORY SCIENCES
a subsidiary of Accelerated

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L975693

Table #

Acctnum: KINCH2MGA
Template: T130277
Prelogin: P640853
TSR: 526 - Chris McCord
PB: 2-27-18GW

Shipped Via: FedEX Ground

CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: **Bethany Garvey**

Email To: **bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;**

Project Description: **Lewis Drive Groundwater**

City/State Collected: BELTON, SC

Phone: **770-604-9182**
Fax:

Client Project # 699858, LD.MR.GW

Lab Project # **KINCH2MGA-LEWIS12**

Collected by (print): MELISSA WARREN

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature):

Immediately Packed on Ice N Y

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NITRATE,SULFATE* 125mlHDPE-NoPres	ALK,CO2 125mlHDPE-NoPres	RSK175 40mlAmb HCl	V8260BTEXMNSC 40mlAmb-HCl	NAPHTHALENE	BTEX	1,2-DCA				Remarks	Sample # (lab only)
MW-29-030718	GRAB	GW	NA	03/07/18	0855	3	X	X	X	X	X	X	X					-31
~~MW-13B-030718~~																		
~~MW-14-030718~~																		
~~MW-14B-030718~~																		

Analysis / Container / Preservative

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:*NITRATE/SULFATE* has a 48hr hold time.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 4269 9209 8543

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	03/07/18	1730	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCl / MeoH
TBR

Temp: 3.3 °C Bottles Received: 126

Date: 3/8/18 Time: 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Andy Vann

From: Jason Romer
Sent: Monday, March 12, 2018 1:23 PM
To: Login; Due VOC
Cc: Chris McCord
Subject: L975693-14 - KINCH2MGA

Per client email, please cancel VOC analysis for MW-03-030718

Login - Please delete L975693-14 and scan a copy of the email with the COC.

Thanks,

Jason Romer
Project Manager
ESC Lab Sciences-a subsidiary of Pace Analytical
12065 Lebanon Road | Mt. Juliet, TN 37122
800.767.5859 Ext. 9713| Direct 615.773.9713
jromer@esclabsciences.com | www.esclabsciences.com

ANALYTICAL REPORT

March 19, 2018

CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group:	L976079
Samples Received:	03/09/2018
Project Number:	699858.LD.MR.GW
Description:	Lewis Drive Groundwater
Site:	LEWIS DRIVE
Report To:	Bethany Garvey 6600 Peachtree Dunwoody Road 400 Embassy Row - Suite 600 Atlanta, GA 30328

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

TABLE OF CONTENTS

MW-07-030818 L976079-01 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 07:30 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	250	03/15/18 12:19	03/15/18 12:19	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	50	03/15/18 00:51	03/15/18 00:51	JAH

MW-03-030818 L976079-02 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 07:45 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1083076	1	03/12/18 09:31	03/12/18 09:31	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1083076	1	03/12/18 09:31	03/12/18 09:31	MCG
Wet Chemistry by Method 9056A	WG1082626	1	03/09/18 20:30	03/09/18 20:30	MAJ
Volatile Organic Compounds (GC) by Method RSK175	WG1083421	1	03/12/18 11:47	03/12/18 11:47	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	1	03/15/18 01:11	03/15/18 01:11	JAH

MW-15B-030818 L976079-03 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 08:30 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	25	03/15/18 01:30	03/15/18 01:30	JAH

MW-15-030818 L976079-04 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 08:35 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1083076	1	03/12/18 09:38	03/12/18 09:38	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1083076	1	03/12/18 09:38	03/12/18 09:38	MCG
Wet Chemistry by Method 9056A	WG1082626	1	03/09/18 20:43	03/09/18 20:43	MAJ
Volatile Organic Compounds (GC) by Method RSK175	WG1083421	1	03/12/18 11:49	03/12/18 11:49	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	1	03/15/18 01:50	03/15/18 01:50	JAH

MW-38-030818 L976079-05 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 08:50 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	5	03/15/18 02:09	03/15/18 02:09	JAH

MW-37-030818 L976079-06 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 08:55 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	1	03/09/18 16:58	03/09/18 16:58	AB

MW-43B-030818 L976079-07 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 09:10 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	1	03/09/18 17:17	03/09/18 17:17	AB

MW-43-030818 L976079-08 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 09:15 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	1	03/09/18 17:37	03/09/18 17:37	AB

MW-24-030818 L976079-09 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 09:25 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	1	03/09/18 17:56	03/09/18 17:56	AB

MW-24B-030818 L976079-10 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 09:30 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	1	03/09/18 18:15	03/09/18 18:15	AB

FB01-030818 L976079-11 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 09:35 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	1	03/09/18 18:34	03/09/18 18:34	AB

TB01-030818 L976079-12 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 09:37 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1084658	1	03/14/18 17:43	03/14/18 17:43	JAH

MW-34-030818 L976079-13 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 09:55 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	1	03/09/18 18:54	03/09/18 18:54	AB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	10	03/15/18 02:29	03/15/18 02:29	JAH

MW-39-030818 L976079-14 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 10:00 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	1	03/09/18 19:13	03/09/18 19:13	AB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	5	03/15/18 02:49	03/15/18 02:49	JAH

MW-40-030818 L976079-15 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 10:15 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1083076	1	03/12/18 09:44	03/12/18 09:44	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1083076	1	03/12/18 09:44	03/12/18 09:44	MCG
Wet Chemistry by Method 9056A	WG1082627	1	03/09/18 12:32	03/09/18 12:32	MAJ
Volatile Organic Compounds (GC) by Method RSK175	WG1083421	1	03/12/18 11:52	03/12/18 11:52	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	250	03/15/18 12:38	03/15/18 12:38	LRL

MW-40-030818 L976079-15 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 10:15 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	50	03/15/18 03:09	03/15/18 03:09	JAH

MW-41-030818 L976079-16 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 10:20 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	1	03/15/18 03:29	03/15/18 03:29	JAH

MW-42-030818 L976079-17 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 10:30 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1083076	1	03/12/18 09:49	03/12/18 09:49	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1083076	1	03/12/18 09:49	03/12/18 09:49	MCG
Wet Chemistry by Method 9056A	WG1082627	1	03/09/18 12:48	03/09/18 12:48	MAJ
Volatile Organic Compounds (GC) by Method RSK175	WG1083421	1	03/12/18 12:12	03/12/18 12:12	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	1	03/15/18 03:49	03/15/18 03:49	JAH

MW-25-030818 L976079-18 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 10:40 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1083076	1	03/12/18 09:55	03/12/18 09:55	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1083076	1	03/12/18 09:55	03/12/18 09:55	MCG
Wet Chemistry by Method 9056A	WG1082627	1	03/09/18 13:49	03/09/18 13:49	MAJ
Volatile Organic Compounds (GC) by Method RSK175	WG1083421	1	03/12/18 12:15	03/12/18 12:15	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	1	03/15/18 04:08	03/15/18 04:08	JAH

MW-25B-030818 L976079-19 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 10:45 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	1	03/15/18 04:28	03/15/18 04:28	JAH

MW-35-030818 L976079-20 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 10:55 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1083076	1	03/12/18 10:00	03/12/18 10:00	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1083076	1	03/12/18 10:00	03/12/18 10:00	MCG
Wet Chemistry by Method 9056A	WG1082627	1	03/09/18 14:35	03/09/18 14:35	MAJ
Volatile Organic Compounds (GC) by Method RSK175	WG1083421	1	03/12/18 12:18	03/12/18 12:18	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082735	1	03/09/18 21:08	03/09/18 21:08	AB

MW-49-030818 L976079-21 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 12:05 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082917	1	03/10/18 01:22	03/10/18 01:22	ACE

MW-28-030818 L976079-22 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 12:10 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082917	1	03/10/18 01:41	03/10/18 01:41	ACE

MW-12B-030818 L976079-23 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 12:25 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082917	1	03/10/18 02:00	03/10/18 02:00	ACE

MW-12-030818 L976079-24 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 12:30 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1083076	1	03/12/18 10:13	03/12/18 10:13	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1083076	1	03/12/18 10:13	03/12/18 10:13	MCG
Wet Chemistry by Method 9056A	WG1082627	1	03/09/18 14:51	03/09/18 14:51	MAJ
Volatile Organic Compounds (GC) by Method RSK175	WG1083421	1	03/12/18 12:21	03/12/18 12:21	BG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082917	10	03/10/18 02:20	03/10/18 02:20	ACE

MW-27-030818 L976079-25 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 13:00 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082917	1	03/10/18 02:39	03/10/18 02:39	ACE

MW-27B-030818 L976079-26 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 13:05 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082917	1	03/10/18 02:58	03/10/18 02:58	ACE

MW-01-030818 L976079-27 GW

Collected by: Melissa Warren | Collected date/time: 03/08/18 13:20 | Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1083076	1	03/12/18 10:19	03/12/18 10:19	MCG
Wet Chemistry by Method 4500CO2 D-2011	WG1083076	1	03/12/18 10:19	03/12/18 10:19	MCG
Wet Chemistry by Method 9056A	WG1082627	1	03/09/18 15:06	03/09/18 15:06	MAJ
Volatile Organic Compounds (GC) by Method RSK175	WG1083671	1	03/13/18 10:46	03/13/18 10:46	AMC
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082917	1	03/10/18 03:17	03/10/18 03:17	ACE

MW-01B-030818 L976079-28 GW

Collected by: Melissa Warren
Collected date/time: 03/08/18 13:30
Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082917	1	03/10/18 03:36	03/10/18 03:36	ACE

MW-27BD-030818 L976079-29 GW

Collected by: Melissa Warren
Collected date/time: 03/08/18 13:07
Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082917	1	03/10/18 03:55	03/10/18 03:55	ACE

MW-44-030818 L976079-30 GW

Collected by: Melissa Warren
Collected date/time: 03/08/18 13:35
Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082917	1	03/10/18 04:14	03/10/18 04:14	ACE

MW-44D-030818 L976079-31 GW

Collected by: Melissa Warren
Collected date/time: 03/08/18 13:40
Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082917	1	03/10/18 04:33	03/10/18 04:33	ACE

MW-44B-030818 L976079-32 GW

Collected by: Melissa Warren
Collected date/time: 03/08/18 13:45
Received date/time: 03/09/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1082917	1	03/10/18 04:53	03/10/18 04:53	ACE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	4550		50.0	50	03/15/2018 00:51	WG1082735
Toluene	14100		250	250	03/15/2018 12:19	WG1082735
Ethylbenzene	802		50.0	50	03/15/2018 00:51	WG1082735
Total Xylenes	7520		150	50	03/15/2018 00:51	WG1082735
Methyl tert-butyl ether	ND		50.0	50	03/15/2018 00:51	WG1082735
Naphthalene	ND		250	50	03/15/2018 00:51	WG1082735
1,2-Dichloroethane	ND		50.0	50	03/15/2018 00:51	WG1082735
(S) Toluene-d8	*104*		*80.0-120*		*03/15/2018 00:51*	WG1082735
(S) Toluene-d8	*106*		*80.0-120*		*03/15/2018 12:19*	WG1082735
(S) Dibromofluoromethane	*84.9*		*76.0-123*		*03/15/2018 00:51*	WG1082735
(S) Dibromofluoromethane	*97.1*		*76.0-123*		*03/15/2018 12:19*	WG1082735
(S) 4-Bromofluorobenzene	*96.8*		*80.0-120*		*03/15/2018 00:51*	WG1082735
(S) 4-Bromofluorobenzene	*99.9*		*80.0-120*		*03/15/2018 12:19*	WG1082735

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Alkalinity	ND		20000	1	03/12/2018 09:31	WG1083076

Sample Narrative:
L976079-02 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Free Carbon Dioxide	ND	T8	20000	1	03/12/2018 09:31	WG1083076

Sample Narrative:
L976079-02 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Nitrate as (N)	497		100	1	03/09/2018 20:30	WG1082626
Sulfate	ND		5000	1	03/09/2018 20:30	WG1082626

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Methane	ND		10.0	1	03/12/2018 11:47	WG1083421

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/15/2018 01:11	WG1082735
Toluene	ND		1.00	1	03/15/2018 01:11	WG1082735
Ethylbenzene	ND		1.00	1	03/15/2018 01:11	WG1082735
Total Xylenes	ND		3.00	1	03/15/2018 01:11	WG1082735
Methyl tert-butyl ether	ND		1.00	1	03/15/2018 01:11	WG1082735
Naphthalene	ND		5.00	1	03/15/2018 01:11	WG1082735
1,2-Dichloroethane	ND		1.00	1	03/15/2018 01:11	WG1082735
(S) Toluene-d8	*110*		*80.0-120*		*03/15/2018 01:11*	WG1082735
(S) Dibromofluoromethane	*87.0*		*76.0-123*		*03/15/2018 01:11*	WG1082735
(S) 4-Bromofluorobenzene	*95.5*		*80.0-120*		*03/15/2018 01:11*	WG1082735

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	1290		25.0	25	03/15/2018 01:30	WG1082735
Toluene	3140		25.0	25	03/15/2018 01:30	WG1082735
Ethylbenzene	151		25.0	25	03/15/2018 01:30	WG1082735
Total Xylenes	1070		75.0	25	03/15/2018 01:30	WG1082735
Methyl tert-butyl ether	93.2		25.0	25	03/15/2018 01:30	WG1082735
Naphthalene	ND		125	25	03/15/2018 01:30	WG1082735
1,2-Dichloroethane	ND		25.0	25	03/15/2018 01:30	WG1082735
(S) Toluene-d8	*106*		*80.0-120*		*03/15/2018 01:30*	WG1082735
(S) Dibromofluoromethane	*88.3*		*76.0-123*		*03/15/2018 01:30*	WG1082735
(S) 4-Bromofluorobenzene	*96.4*		*80.0-120*		*03/15/2018 01:30*	WG1082735

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Alkalinity	ND		20000	1	03/12/2018 09:38	WG1083076

Sample Narrative:
L976079-04 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Free Carbon Dioxide	ND	T8	20000	1	03/12/2018 09:38	WG1083076

Sample Narrative:
L976079-04 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Nitrate as (N)	1080		100	1	03/09/2018 20:43	WG1082626
Sulfate	ND		5000	1	03/09/2018 20:43	WG1082626

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Methane	ND		10.0	1	03/12/2018 11:49	WG1083421

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	53.1		1.00	1	03/15/2018 01:50	WG1082735
Toluene	89.9		1.00	1	03/15/2018 01:50	WG1082735
Ethylbenzene	2.75		1.00	1	03/15/2018 01:50	WG1082735
Total Xylenes	53.1		3.00	1	03/15/2018 01:50	WG1082735
Methyl tert-butyl ether	85.0		1.00	1	03/15/2018 01:50	WG1082735
Naphthalene	ND		5.00	1	03/15/2018 01:50	WG1082735
1,2-Dichloroethane	ND		1.00	1	03/15/2018 01:50	WG1082735
(S) Toluene-d8	*106*		*80.0-120*		*03/15/2018 01:50*	WG1082735
(S) Dibromofluoromethane	*85.6*		*76.0-123*		*03/15/2018 01:50*	WG1082735
(S) 4-Bromofluorobenzene	*93.3*		*80.0-120*		*03/15/2018 01:50*	WG1082735

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	364		5.00	5	03/15/2018 02:09	WG1082735
Toluene	ND		5.00	5	03/15/2018 02:09	WG1082735
Ethylbenzene	ND		5.00	5	03/15/2018 02:09	WG1082735
Total Xylenes	202		15.0	5	03/15/2018 02:09	WG1082735
Methyl tert-butyl ether	54.8		5.00	5	03/15/2018 02:09	WG1082735
Naphthalene	ND		25.0	5	03/15/2018 02:09	WG1082735
1,2-Dichloroethane	ND		5.00	5	03/15/2018 02:09	WG1082735
(S) Toluene-d8	*108*		*80.0-120*		*03/15/2018 02:09*	WG1082735
(S) Dibromofluoromethane	*83.1*		*76.0-123*		*03/15/2018 02:09*	WG1082735
(S) 4-Bromofluorobenzene	*94.6*		*80.0-120*		*03/15/2018 02:09*	WG1082735

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 16:58	WG1082735
Toluene	ND		1.00	1	03/09/2018 16:58	WG1082735
Ethylbenzene	ND		1.00	1	03/09/2018 16:58	WG1082735
Total Xylenes	ND		3.00	1	03/09/2018 16:58	WG1082735
Methyl tert-butyl ether	3.71		1.00	1	03/09/2018 16:58	WG1082735
Naphthalene	ND		5.00	1	03/09/2018 16:58	WG1082735
1,2-Dichloroethane	ND		1.00	1	03/09/2018 16:58	WG1082735
(S) Toluene-d8	*104*		*80.0-120*		*03/09/2018 16:58*	WG1082735
(S) Dibromofluoromethane	*94.5*		*76.0-123*		*03/09/2018 16:58*	WG1082735
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*03/09/2018 16:58*	WG1082735

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 17:17	WG1082735
Toluene	ND		1.00	1	03/09/2018 17:17	WG1082735
Ethylbenzene	ND		1.00	1	03/09/2018 17:17	WG1082735
Total Xylenes	ND		3.00	1	03/09/2018 17:17	WG1082735
Methyl tert-butyl ether	ND		1.00	1	03/09/2018 17:17	WG1082735
Naphthalene	ND		5.00	1	03/09/2018 17:17	WG1082735
1,2-Dichloroethane	ND		1.00	1	03/09/2018 17:17	WG1082735
(S) Toluene-d8	*110*		*80.0-120*		*03/09/2018 17:17*	WG1082735
(S) Dibromofluoromethane	*94.9*		*76.0-123*		*03/09/2018 17:17*	WG1082735
(S) 4-Bromofluorobenzene	*103*		*80.0-120*		*03/09/2018 17:17*	WG1082735

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 17:37	WG1082735
Toluene	ND		1.00	1	03/09/2018 17:37	WG1082735
Ethylbenzene	ND		1.00	1	03/09/2018 17:37	WG1082735
Total Xylenes	ND		3.00	1	03/09/2018 17:37	WG1082735
Methyl tert-butyl ether	ND		1.00	1	03/09/2018 17:37	WG1082735
Naphthalene	ND		5.00	1	03/09/2018 17:37	WG1082735
1,2-Dichloroethane	ND		1.00	1	03/09/2018 17:37	WG1082735
(S) Toluene-d8	*106*		*80.0-120*		*03/09/2018 17:37*	WG1082735
(S) Dibromofluoromethane	*93.6*		*76.0-123*		*03/09/2018 17:37*	WG1082735
(S) 4-Bromofluorobenzene	*103*		*80.0-120*		*03/09/2018 17:37*	WG1082735

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 17:56	WG1082735
Toluene	ND		1.00	1	03/09/2018 17:56	WG1082735
Ethylbenzene	ND		1.00	1	03/09/2018 17:56	WG1082735
Total Xylenes	ND		3.00	1	03/09/2018 17:56	WG1082735
Methyl tert-butyl ether	ND		1.00	1	03/09/2018 17:56	WG1082735
Naphthalene	ND		5.00	1	03/09/2018 17:56	WG1082735
1,2-Dichloroethane	ND		1.00	1	03/09/2018 17:56	WG1082735
(S) Toluene-d8	*104*		*80.0-120*		*03/09/2018 17:56*	WG1082735
(S) Dibromofluoromethane	*96.2*		*76.0-123*		*03/09/2018 17:56*	WG1082735
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*03/09/2018 17:56*	WG1082735

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 18:15	WG1082735
Toluene	ND		1.00	1	03/09/2018 18:15	WG1082735
Ethylbenzene	ND		1.00	1	03/09/2018 18:15	WG1082735
Total Xylenes	ND		3.00	1	03/09/2018 18:15	WG1082735
Methyl tert-butyl ether	ND		1.00	1	03/09/2018 18:15	WG1082735
Naphthalene	ND		5.00	1	03/09/2018 18:15	WG1082735
1,2-Dichloroethane	ND		1.00	1	03/09/2018 18:15	WG1082735
(S) Toluene-d8	*106*		*80.0-120*		*03/09/2018 18:15*	WG1082735
(S) Dibromofluoromethane	*92.6*		*76.0-123*		*03/09/2018 18:15*	WG1082735
(S) 4-Bromofluorobenzene	*107*		*80.0-120*		*03/09/2018 18:15*	WG1082735

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 18:34	WG1082735
Toluene	ND		1.00	1	03/09/2018 18:34	WG1082735
Ethylbenzene	ND		1.00	1	03/09/2018 18:34	WG1082735
Total Xylenes	ND		3.00	1	03/09/2018 18:34	WG1082735
Methyl tert-butyl ether	ND		1.00	1	03/09/2018 18:34	WG1082735
Naphthalene	ND		5.00	1	03/09/2018 18:34	WG1082735
1,2-Dichloroethane	ND		1.00	1	03/09/2018 18:34	WG1082735
(S) Toluene-d8	*104*		*80.0-120*		*03/09/2018 18:34*	WG1082735
(S) Dibromofluoromethane	*92.2*		*76.0-123*		*03/09/2018 18:34*	WG1082735
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*03/09/2018 18:34*	WG1082735

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	03/14/2018 17:43	WG1084658
Benzene	ND		1.00	1	03/14/2018 17:43	WG1084658
Bromodichloromethane	ND		1.00	1	03/14/2018 17:43	WG1084658
Bromoform	ND		1.00	1	03/14/2018 17:43	WG1084658
Bromomethane	ND		5.00	1	03/14/2018 17:43	WG1084658
Carbon disulfide	ND		1.00	1	03/14/2018 17:43	WG1084658
Carbon tetrachloride	ND		1.00	1	03/14/2018 17:43	WG1084658
Chlorobenzene	ND		1.00	1	03/14/2018 17:43	WG1084658
Chlorodibromomethane	ND		1.00	1	03/14/2018 17:43	WG1084658
Chloroethane	ND		5.00	1	03/14/2018 17:43	WG1084658
Chloroform	ND		5.00	1	03/14/2018 17:43	WG1084658
Chloromethane	ND		2.50	1	03/14/2018 17:43	WG1084658
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/14/2018 17:43	WG1084658
1,2-Dibromoethane	ND		1.00	1	03/14/2018 17:43	WG1084658
1,2-Dichlorobenzene	ND		1.00	1	03/14/2018 17:43	WG1084658
1,3-Dichlorobenzene	ND		1.00	1	03/14/2018 17:43	WG1084658
1,4-Dichlorobenzene	ND		1.00	1	03/14/2018 17:43	WG1084658
1,1-Dichloroethane	ND		1.00	1	03/14/2018 17:43	WG1084658
1,2-Dichloroethane	ND		1.00	1	03/14/2018 17:43	WG1084658
1,1-Dichloroethene	ND		1.00	1	03/14/2018 17:43	WG1084658
cis-1,2-Dichloroethene	ND		1.00	1	03/14/2018 17:43	WG1084658
trans-1,2-Dichloroethene	ND		1.00	1	03/14/2018 17:43	WG1084658
1,2-Dichloropropane	ND		1.00	1	03/14/2018 17:43	WG1084658
cis-1,3-Dichloropropene	ND		1.00	1	03/14/2018 17:43	WG1084658
trans-1,3-Dichloropropene	ND		1.00	1	03/14/2018 17:43	WG1084658
Di-isopropyl ether	ND		1.00	1	03/14/2018 17:43	WG1084658
Ethylbenzene	ND		1.00	1	03/14/2018 17:43	WG1084658
2-Butanone (MEK)	ND		10.0	1	03/14/2018 17:43	WG1084658
2-Hexanone	ND		10.0	1	03/14/2018 17:43	WG1084658
Methylene Chloride	ND		5.00	1	03/14/2018 17:43	WG1084658
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/14/2018 17:43	WG1084658
Methyl tert-butyl ether	ND		1.00	1	03/14/2018 17:43	WG1084658
Naphthalene	ND		5.00	1	03/14/2018 17:43	WG1084658
Styrene	ND		1.00	1	03/14/2018 17:43	WG1084658
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/14/2018 17:43	WG1084658
Tetrachloroethene	ND		1.00	1	03/14/2018 17:43	WG1084658
Toluene	ND		1.00	1	03/14/2018 17:43	WG1084658
1,1,1-Trichloroethane	ND		1.00	1	03/14/2018 17:43	WG1084658
1,1,2-Trichloroethane	ND		1.00	1	03/14/2018 17:43	WG1084658
Trichloroethene	ND		1.00	1	03/14/2018 17:43	WG1084658
Vinyl chloride	ND		1.00	1	03/14/2018 17:43	WG1084658
Xylenes, Total	ND		3.00	1	03/14/2018 17:43	WG1084658
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/14/2018 17:43	WG1084658
1,2,3-Trimethylbenzene	ND		1.00	1	03/14/2018 17:43	WG1084658
(S) Toluene-d8	*105*		*80.0-120*		*03/14/2018 17:43*	WG1084658
(S) Dibromofluoromethane	*83.0*		*76.0-123*		*03/14/2018 17:43*	WG1084658
(S) a,a,a-Trifluorotoluene	*99.5*		*80.0-120*		*03/14/2018 17:43*	WG1084658
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*03/14/2018 17:43*	WG1084658

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	696		10.0	10	03/15/2018 02:29	WG1082735
Toluene	51.6		1.00	1	03/09/2018 18:54	WG1082735
Ethylbenzene	7.35		1.00	1	03/09/2018 18:54	WG1082735
Total Xylenes	180		3.00	1	03/09/2018 18:54	WG1082735
Methyl tert-butyl ether	229		10.0	10	03/15/2018 02:29	WG1082735
Naphthalene	5.84		5.00	1	03/09/2018 18:54	WG1082735
1,2-Dichloroethane	ND		1.00	1	03/09/2018 18:54	WG1082735
(S) Toluene-d8	*110*		*80.0-120*		*03/15/2018 02:29*	WG1082735
(S) Toluene-d8	*104*		*80.0-120*		*03/09/2018 18:54*	WG1082735
(S) Dibromofluoromethane	*84.7*		*76.0-123*		*03/15/2018 02:29*	WG1082735
(S) Dibromofluoromethane	*103*		*76.0-123*		*03/09/2018 18:54*	WG1082735
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*03/09/2018 18:54*	WG1082735
(S) 4-Bromofluorobenzene	*95.4*		*80.0-120*		*03/15/2018 02:29*	WG1082735

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 19:13	WG1082735
Toluene	ND		1.00	1	03/09/2018 19:13	WG1082735
Ethylbenzene	ND		1.00	1	03/09/2018 19:13	WG1082735
Total Xylenes	ND		3.00	1	03/09/2018 19:13	WG1082735
Methyl tert-butyl ether	304		5.00	5	03/15/2018 02:49	WG1082735
Naphthalene	ND		5.00	1	03/09/2018 19:13	WG1082735
1,2-Dichloroethane	ND		1.00	1	03/09/2018 19:13	WG1082735
(S) Toluene-d8	*107*		*80.0-120*		*03/09/2018 19:13*	WG1082735
(S) Toluene-d8	*108*		*80.0-120*		*03/15/2018 02:49*	WG1082735
(S) Dibromofluoromethane	*95.4*		*76.0-123*		*03/09/2018 19:13*	WG1082735
(S) Dibromofluoromethane	*87.5*		*76.0-123*		*03/15/2018 02:49*	WG1082735
(S) 4-Bromofluorobenzene	*92.6*		*80.0-120*		*03/15/2018 02:49*	WG1082735
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*03/09/2018 19:13*	WG1082735

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Alkalinity	28100		20000	1	03/12/2018 09:44	WG1083076

Sample Narrative:
L976079-15 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Free Carbon Dioxide	49500	T8	20000	1	03/12/2018 09:44	WG1083076

Sample Narrative:
L976079-15 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Nitrate as (N)	ND		100	1	03/09/2018 12:32	WG1082627
Sulfate	ND		5000	1	03/09/2018 12:32	WG1082627

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Methane	29.0		10.0	1	03/12/2018 11:52	WG1083421

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	8450		50.0	50	03/15/2018 03:09	WG1082735
Toluene	14500		250	250	03/15/2018 12:38	WG1082735
Ethylbenzene	498		50.0	50	03/15/2018 03:09	WG1082735
Total Xylenes	7580		150	50	03/15/2018 03:09	WG1082735
Methyl tert-butyl ether	337		50.0	50	03/15/2018 03:09	WG1082735
Naphthalene	ND		250	50	03/15/2018 03:09	WG1082735
1,2-Dichloroethane	ND		50.0	50	03/15/2018 03:09	WG1082735
(S) Toluene-d8	*109*		*80.0-120*		*03/15/2018 12:38*	WG1082735
(S) Toluene-d8	*110*		*80.0-120*		*03/15/2018 03:09*	WG1082735
(S) Dibromofluoromethane	*95.1*		*76.0-123*		*03/15/2018 12:38*	WG1082735
(S) Dibromofluoromethane	*81.4*		*76.0-123*		*03/15/2018 03:09*	WG1082735
(S) 4-Bromofluorobenzene	*96.8*		*80.0-120*		*03/15/2018 03:09*	WG1082735
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*03/15/2018 12:38*	WG1082735

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/15/2018 03:29	WG1082735
Toluene	ND		1.00	1	03/15/2018 03:29	WG1082735
Ethylbenzene	ND		1.00	1	03/15/2018 03:29	WG1082735
Total Xylenes	ND		3.00	1	03/15/2018 03:29	WG1082735
Methyl tert-butyl ether	ND		1.00	1	03/15/2018 03:29	WG1082735
Naphthalene	ND		5.00	1	03/15/2018 03:29	WG1082735
1,2-Dichloroethane	ND		1.00	1	03/15/2018 03:29	WG1082735
(S) Toluene-d8	*105*		*80.0-120*		*03/15/2018 03:29*	WG1082735
(S) Dibromofluoromethane	*88.8*		*76.0-123*		*03/15/2018 03:29*	WG1082735
(S) 4-Bromofluorobenzene	*93.5*		*80.0-120*		*03/15/2018 03:29*	WG1082735

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/12/2018 09:49	WG1083076

Sample Narrative:
L976079-17 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	27300	T8	20000	1	03/12/2018 09:49	WG1083076

Sample Narrative:
L976079-17 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate as (N)	510	J3	100	1	03/09/2018 12:48	WG1082627
Sulfate	ND		5000	1	03/09/2018 12:48	WG1082627

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	30.4		10.0	1	03/12/2018 12:12	WG1083421

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	1.02		1.00	1	03/15/2018 03:49	WG1082735
Toluene	ND		1.00	1	03/15/2018 03:49	WG1082735
Ethylbenzene	ND		1.00	1	03/15/2018 03:49	WG1082735
Total Xylenes	ND		3.00	1	03/15/2018 03:49	WG1082735
Methyl tert-butyl ether	ND		1.00	1	03/15/2018 03:49	WG1082735
Naphthalene	ND		5.00	1	03/15/2018 03:49	WG1082735
1,2-Dichloroethane	ND		1.00	1	03/15/2018 03:49	WG1082735
(S) Toluene-d8	*112*		*80.0-120*		*03/15/2018 03:49*	WG1082735
(S) Dibromofluoromethane	*85.4*		*76.0-123*		*03/15/2018 03:49*	WG1082735
(S) 4-Bromofluorobenzene	*92.6*		*80.0-120*		*03/15/2018 03:49*	WG1082735

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Alkalinity	ND		20000	1	03/12/2018 09:55	WG1083076

Sample Narrative:
L976079-18 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Free Carbon Dioxide	45000	T8	20000	1	03/12/2018 09:55	WG1083076

Sample Narrative:
L976079-18 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Nitrate as (N)	ND		100	1	03/09/2018 13:49	WG1082627
Sulfate	ND		5000	1	03/09/2018 13:49	WG1082627

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Methane	ND		10.0	1	03/12/2018 12:15	WG1083421

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/15/2018 04:08	WG1082735
Toluene	ND		1.00	1	03/15/2018 04:08	WG1082735
Ethylbenzene	ND		1.00	1	03/15/2018 04:08	WG1082735
Total Xylenes	ND		3.00	1	03/15/2018 04:08	WG1082735
Methyl tert-butyl ether	ND		1.00	1	03/15/2018 04:08	WG1082735
Naphthalene	ND		5.00	1	03/15/2018 04:08	WG1082735
1,2-Dichloroethane	ND		1.00	1	03/15/2018 04:08	WG1082735
(S) Toluene-d8	*110*		*80.0-120*		*03/15/2018 04:08*	WG1082735
(S) Dibromofluoromethane	*85.5*		*76.0-123*		*03/15/2018 04:08*	WG1082735
(S) 4-Bromofluorobenzene	*94.1*		*80.0-120*		*03/15/2018 04:08*	WG1082735

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/15/2018 04:28	WG1082735
Toluene	ND		1.00	1	03/15/2018 04:28	WG1082735
Ethylbenzene	ND		1.00	1	03/15/2018 04:28	WG1082735
Total Xylenes	ND		3.00	1	03/15/2018 04:28	WG1082735
Methyl tert-butyl ether	ND		1.00	1	03/15/2018 04:28	WG1082735
Naphthalene	ND		5.00	1	03/15/2018 04:28	WG1082735
1,2-Dichloroethane	ND		1.00	1	03/15/2018 04:28	WG1082735
(S) Toluene-d8	*111*		*80.0-120*		*03/15/2018 04:28*	WG1082735
(S) Dibromofluoromethane	*85.5*		*76.0-123*		*03/15/2018 04:28*	WG1082735
(S) 4-Bromofluorobenzene	*94.5*		*80.0-120*		*03/15/2018 04:28*	WG1082735

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Alkalinity	ND		20000	1	03/12/2018 10:00	WG1083076

Sample Narrative:
L976079-20 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Free Carbon Dioxide	45300	T8	20000	1	03/12/2018 10:00	WG1083076

Sample Narrative:
L976079-20 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Nitrate as (N)	643		100	1	03/09/2018 14:35	WG1082627
Sulfate	ND		5000	1	03/09/2018 14:35	WG1082627

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Methane	ND		10.0	1	03/12/2018 12:18	WG1083421

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/09/2018 21:08	WG1082735
Toluene	ND		1.00	1	03/09/2018 21:08	WG1082735
Ethylbenzene	ND		1.00	1	03/09/2018 21:08	WG1082735
Total Xylenes	ND		3.00	1	03/09/2018 21:08	WG1082735
Methyl tert-butyl ether	ND		1.00	1	03/09/2018 21:08	WG1082735
Naphthalene	ND		5.00	1	03/09/2018 21:08	WG1082735
1,2-Dichloroethane	ND		1.00	1	03/09/2018 21:08	WG1082735
(S) Toluene-d8	*105*		*80.0-120*		*03/09/2018 21:08*	WG1082735
(S) Dibromofluoromethane	*95.3*		*76.0-123*		*03/09/2018 21:08*	WG1082735
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*03/09/2018 21:08*	WG1082735

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/10/2018 01:22	WG1082917
Toluene	ND		1.00	1	03/10/2018 01:22	WG1082917
Ethylbenzene	ND		1.00	1	03/10/2018 01:22	WG1082917
Total Xylenes	ND		3.00	1	03/10/2018 01:22	WG1082917
Methyl tert-butyl ether	ND		1.00	1	03/10/2018 01:22	WG1082917
Naphthalene	ND		5.00	1	03/10/2018 01:22	WG1082917
1,2-Dichloroethane	ND		1.00	1	03/10/2018 01:22	WG1082917
(S) Toluene-d8	*103*		*80.0-120*		*03/10/2018 01:22*	WG1082917
(S) Dibromofluoromethane	*94.3*		*76.0-123*		*03/10/2018 01:22*	WG1082917
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*03/10/2018 01:22*	WG1082917

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	10.1		1.00	1	03/10/2018 01:41	WG1082917
Toluene	5.27		1.00	1	03/10/2018 01:41	WG1082917
Ethylbenzene	9.92		1.00	1	03/10/2018 01:41	WG1082917
Total Xylenes	21.2		3.00	1	03/10/2018 01:41	WG1082917
Methyl tert-butyl ether	ND		1.00	1	03/10/2018 01:41	WG1082917
Naphthalene	ND		5.00	1	03/10/2018 01:41	WG1082917
1,2-Dichloroethane	ND		1.00	1	03/10/2018 01:41	WG1082917
(S) Toluene-d8	*106*		*80.0-120*		*03/10/2018 01:41*	WG1082917
(S) Dibromofluoromethane	*95.6*		*76.0-123*		*03/10/2018 01:41*	WG1082917
(S) 4-Bromofluorobenzene	*89.6*		*80.0-120*		*03/10/2018 01:41*	WG1082917

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	3.60		1.00	1	03/10/2018 02:00	WG1082917
Toluene	ND		1.00	1	03/10/2018 02:00	WG1082917
Ethylbenzene	ND		1.00	1	03/10/2018 02:00	WG1082917
Total Xylenes	ND		3.00	1	03/10/2018 02:00	WG1082917
Methyl tert-butyl ether	ND		1.00	1	03/10/2018 02:00	WG1082917
Naphthalene	ND		5.00	1	03/10/2018 02:00	WG1082917
1,2-Dichloroethane	ND		1.00	1	03/10/2018 02:00	WG1082917
(S) Toluene-d8	*97.5*		*80.0-120*		*03/10/2018 02:00*	WG1082917
(S) Dibromofluoromethane	*105*		*76.0-123*		*03/10/2018 02:00*	WG1082917
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*03/10/2018 02:00*	WG1082917

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	26000		20000	1	03/12/2018 10:13	WG1083076

Sample Narrative:
L976079-24 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	21900	T8	20000	1	03/12/2018 10:13	WG1083076

Sample Narrative:
L976079-24 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		100	1	03/09/2018 14:51	WG1082627
Sulfate	ND		5000	1	03/09/2018 14:51	WG1082627

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/12/2018 12:21	WG1083421

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	486		10.0	10	03/10/2018 02:20	WG1082917
Toluene	1880		10.0	10	03/10/2018 02:20	WG1082917
Ethylbenzene	25.2		10.0	10	03/10/2018 02:20	WG1082917
Total Xylenes	1980		30.0	10	03/10/2018 02:20	WG1082917
Methyl tert-butyl ether	ND		10.0	10	03/10/2018 02:20	WG1082917
Naphthalene	ND		50.0	10	03/10/2018 02:20	WG1082917
1,2-Dichloroethane	ND		10.0	10	03/10/2018 02:20	WG1082917
(S) Toluene-d8	*98.1*		*80.0-120*		*03/10/2018 02:20*	WG1082917
(S) Dibromofluoromethane	*106*		*76.0-123*		*03/10/2018 02:20*	WG1082917
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*03/10/2018 02:20*	WG1082917

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	14.5		1.00	1	03/10/2018 02:39	WG1082917
Toluene	62.3		1.00	1	03/10/2018 02:39	WG1082917
Ethylbenzene	29.7		1.00	1	03/10/2018 02:39	WG1082917
Total Xylenes	227		3.00	1	03/10/2018 02:39	WG1082917
Methyl tert-butyl ether	ND		1.00	1	03/10/2018 02:39	WG1082917
Naphthalene	ND		5.00	1	03/10/2018 02:39	WG1082917
1,2-Dichloroethane	ND		1.00	1	03/10/2018 02:39	WG1082917
(S) Toluene-d8	*99.1*		*80.0-120*		*03/10/2018 02:39*	WG1082917
(S) Dibromofluoromethane	*86.3*		*76.0-123*		*03/10/2018 02:39*	WG1082917
(S) 4-Bromofluorobenzene	*117*		*80.0-120*		*03/10/2018 02:39*	WG1082917

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/10/2018 02:58	WG1082917
Toluene	6.82		1.00	1	03/10/2018 02:58	WG1082917
Ethylbenzene	3.44		1.00	1	03/10/2018 02:58	WG1082917
Total Xylenes	28.8		3.00	1	03/10/2018 02:58	WG1082917
Methyl tert-butyl ether	ND		1.00	1	03/10/2018 02:58	WG1082917
Naphthalene	ND		5.00	1	03/10/2018 02:58	WG1082917
1,2-Dichloroethane	ND		1.00	1	03/10/2018 02:58	WG1082917
(S) Toluene-d8	*101*		*80.0-120*		*03/10/2018 02:58*	WG1082917
(S) Dibromofluoromethane	*101*		*76.0-123*		*03/10/2018 02:58*	WG1082917
(S) 4-Bromofluorobenzene	*96.5*		*80.0-120*		*03/10/2018 02:58*	WG1082917

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Alkalinity	ND		20000	1	03/12/2018 10:19	WG1083076

Sample Narrative:
L976079-27 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Free Carbon Dioxide	35300	T8	20000	1	03/12/2018 10:19	WG1083076

Sample Narrative:
L976079-27 WG1083076: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Nitrate as (N)	ND		100	1	03/09/2018 15:06	WG1082627
Sulfate	ND		5000	1	03/09/2018 15:06	WG1082627

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Methane	14.5		10.0	1	03/13/2018 10:46	WG1083671

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	1.85		1.00	1	03/10/2018 03:17	WG1082917
Toluene	ND		1.00	1	03/10/2018 03:17	WG1082917
Ethylbenzene	ND		1.00	1	03/10/2018 03:17	WG1082917
Total Xylenes	ND		3.00	1	03/10/2018 03:17	WG1082917
Methyl tert-butyl ether	ND		1.00	1	03/10/2018 03:17	WG1082917
Naphthalene	ND		5.00	1	03/10/2018 03:17	WG1082917
1,2-Dichloroethane	ND		1.00	1	03/10/2018 03:17	WG1082917
(S) Toluene-d8	*102*		*80.0-120*		*03/10/2018 03:17*	WG1082917
(S) Dibromofluoromethane	*99.6*		*76.0-123*		*03/10/2018 03:17*	WG1082917
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*03/10/2018 03:17*	WG1082917

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	3.51		1.00	1	03/10/2018 03:36	WG1082917
Toluene	ND		1.00	1	03/10/2018 03:36	WG1082917
Ethylbenzene	ND		1.00	1	03/10/2018 03:36	WG1082917
Total Xylenes	ND		3.00	1	03/10/2018 03:36	WG1082917
Methyl tert-butyl ether	ND		1.00	1	03/10/2018 03:36	WG1082917
Naphthalene	ND		5.00	1	03/10/2018 03:36	WG1082917
1,2-Dichloroethane	ND		1.00	1	03/10/2018 03:36	WG1082917
(S) Toluene-d8	*97.8*		*80.0-120*		*03/10/2018 03:36*	WG1082917
(S) Dibromofluoromethane	*93.2*		*76.0-123*		*03/10/2018 03:36*	WG1082917
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*03/10/2018 03:36*	WG1082917

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/10/2018 03:55	WG1082917
Toluene	7.97		1.00	1	03/10/2018 03:55	WG1082917
Ethylbenzene	4.02		1.00	1	03/10/2018 03:55	WG1082917
Total Xylenes	30.7		3.00	1	03/10/2018 03:55	WG1082917
Methyl tert-butyl ether	ND		1.00	1	03/10/2018 03:55	WG1082917
Naphthalene	ND		5.00	1	03/10/2018 03:55	WG1082917
1,2-Dichloroethane	ND		1.00	1	03/10/2018 03:55	WG1082917
(S) Toluene-d8	*129*	J1	*80.0-120*		*03/10/2018 03:55*	WG1082917
(S) Dibromofluoromethane	*97.5*		*76.0-123*		*03/10/2018 03:55*	WG1082917
(S) 4-Bromofluorobenzene	*88.6*		*80.0-120*		*03/10/2018 03:55*	WG1082917

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/10/2018 04:14	WG1082917
Toluene	ND		1.00	1	03/10/2018 04:14	WG1082917
Ethylbenzene	ND		1.00	1	03/10/2018 04:14	WG1082917
Total Xylenes	ND		3.00	1	03/10/2018 04:14	WG1082917
Methyl tert-butyl ether	ND		1.00	1	03/10/2018 04:14	WG1082917
Naphthalene	ND		5.00	1	03/10/2018 04:14	WG1082917
1,2-Dichloroethane	ND		1.00	1	03/10/2018 04:14	WG1082917
(S) Toluene-d8	*98.3*		*80.0-120*		*03/10/2018 04:14*	WG1082917
(S) Dibromofluoromethane	*100*		*76.0-123*		*03/10/2018 04:14*	WG1082917
(S) 4-Bromofluorobenzene	*110*		*80.0-120*		*03/10/2018 04:14*	WG1082917

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/10/2018 04:33	WG1082917
Toluene	ND		1.00	1	03/10/2018 04:33	WG1082917
Ethylbenzene	ND		1.00	1	03/10/2018 04:33	WG1082917
Total Xylenes	ND		3.00	1	03/10/2018 04:33	WG1082917
Methyl tert-butyl ether	ND		1.00	1	03/10/2018 04:33	WG1082917
Naphthalene	ND		5.00	1	03/10/2018 04:33	WG1082917
1,2-Dichloroethane	ND		1.00	1	03/10/2018 04:33	WG1082917
(S) Toluene-d8	*101*		*80.0-120*		*03/10/2018 04:33*	WG1082917
(S) Dibromofluoromethane	*92.1*		*76.0-123*		*03/10/2018 04:33*	WG1082917
(S) 4-Bromofluorobenzene	*106*		*80.0-120*		*03/10/2018 04:33*	WG1082917

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	03/10/2018 04:53	WG1082917
Toluene	ND		1.00	1	03/10/2018 04:53	WG1082917
Ethylbenzene	ND		1.00	1	03/10/2018 04:53	WG1082917
Total Xylenes	ND		3.00	1	03/10/2018 04:53	WG1082917
Methyl tert-butyl ether	ND		1.00	1	03/10/2018 04:53	WG1082917
Naphthalene	ND		5.00	1	03/10/2018 04:53	WG1082917
1,2-Dichloroethane	ND		1.00	1	03/10/2018 04:53	WG1082917
(S) Toluene-d8	*108*		*80.0-120*		*03/10/2018 04:53*	WG1082917
(S) Dibromofluoromethane	*96.5*		*76.0-123*		*03/10/2018 04:53*	WG1082917
(S) 4-Bromofluorobenzene	*107*		*80.0-120*		*03/10/2018 04:53*	WG1082917

L976094-01 Original Sample (OS) • Duplicate (DUP)

(OS) L976094-01 03/12/18 09:04 • (DUP) R3292406-1 03/12/18 09:11

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	113000	114000	1	1.23		20

Sample Narrative:
OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

L976002-02 Original Sample (OS) • Duplicate (DUP)

(OS) L976002-02 03/12/18 11:26 • (DUP) R3292406-5 03/12/18 11:34

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	8130	6420	1	23.5	J P1	20

Sample Narrative:
OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3292406-3 03/12/18 10:06 • (LCSD) R3292406-4 03/12/18 11:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Alkalinity	100000	96300	97600	96.3	97.6	85.0-115			1.30	20

Sample Narrative:
LCS: Endpoint pH 4.5
LCSD: Endpoint pH 4.5

L976094-01 Original Sample (OS) • Duplicate (DUP)

(OS) L976094-01 03/12/18 09:04 • (DUP) R3292406-2 03/12/18 09:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Free Carbon Dioxide	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

L976002-02 Original Sample (OS) • Duplicate (DUP)

(OS) L976002-02 03/12/18 11:26 • (DUP) R3292406-6 03/12/18 11:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Free Carbon Dioxide	U	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

Method Blank (MB)

(MB) R3292164-1 03/09/18 11:31

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

L976070-02 Original Sample (OS) • Duplicate (DUP)

(OS) L976070-02 03/09/18 15:35 • (DUP) R3292164-4 03/09/18 16:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Nitrate	U	0.000	1	0.000		15
Sulfate	3950	3900	1	1.32	J	15

L976080-01 Original Sample (OS) • Duplicate (DUP)

(OS) L976080-01 03/09/18 20:57 • (DUP) R3292164-7 03/09/18 21:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Sulfate	21200	21300	1	0.252		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3292164-2 03/09/18 11:45 • (LCSD) R3292164-3 03/09/18 11:58

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Nitrate	8000	8120	8100	102	101	80.0-120			0.260	15
Sulfate	40000	40100	39900	100	99.8	80.0-120			0.364	15

L976070-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L976070-02 03/09/18 15:35 • (MS) R3292164-5 03/09/18 16:28 • (MSD) R3292164-6 03/09/18 16:42

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate	5000	U	4850	4960	97.0	99.2	1	80.0-120			2.26	15
Sulfate	50000	3950	54000	53900	100	99.8	1	80.0-120			0.159	15

L976080-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L976080-01 03/09/18 20:57 • (MS) R3292164-8 03/09/18 21:51

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate	5000	9840	14500	93.5	1	80.0-120	E
Sulfate	50000	21200	70700	98.9	1	80.0-120	

Method Blank (MB)

(MB) R3292167-1 03/09/18 07:01

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

L976079-17 Original Sample (OS) • Duplicate (DUP)

(OS) L976079-17 03/09/18 12:48 • (DUP) R3292167-4 03/09/18 13:03

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	510	642	1	23.0	J3	15
Sulfate	ND	87.5	1	0.000		15

L976092-10 Original Sample (OS) • Duplicate (DUP)

(OS) L976092-10 03/09/18 18:42 • (DUP) R3292167-7 03/09/18 18:58

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	872	910	1	4.21		15
Sulfate	47100	46700	1	0.954		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3292167-2 03/09/18 07:16 • (LCSD) R3292167-3 03/09/18 07:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Nitrate	8000	8200	8200	102	103	80.0-120			0.0866	15
Sulfate	40000	39400	39200	98.5	98.1	80.0-120			0.464	15

L976079-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L976079-17 03/09/18 12:48 • (MS) R3292167-5 03/09/18 13:18 • (MSD) R3292167-6 03/09/18 13:34

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate	5000	510	5550	5790	101	106	1	80.0-120			4.21	15
Sulfate	50000	ND	50200	50800	100	101	1	80.0-120			1.17	15

L976092-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L976092-10 03/09/18 18:42 • (MS) R3292167-8 03/09/18 19:13

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate	5000	872	5930	101	1	80.0-120	
Sulfate	50000	47100	95000	95.7	1	80.0-120	

Method Blank (MB)

(MB) R3292460-1 03/12/18 08:42

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		2.91	10.0

L975931-05 Original Sample (OS) • Duplicate (DUP)

(OS) L975931-05 03/12/18 11:20 • (DUP) R3292460-2 03/12/18 11:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20

L976079-04 Original Sample (OS) • Duplicate (DUP)

(OS) L976079-04 03/12/18 11:49 • (DUP) R3292460-3 03/12/18 12:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3292460-4 03/12/18 12:42 • (LCSD) R3292460-5 03/12/18 12:46

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	70.4	74.6	104	110	85.0-115			5.89	20

Method Blank (MB)

(MB) R3292710-1 03/13/18 10:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		2.91	10.0

L976448-06 Original Sample (OS) • Duplicate (DUP)

(OS) L976448-06 03/13/18 11:09 • (DUP) R3292710-2 03/13/18 11:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	13.6	11.7	1	15.5		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3292710-3 03/13/18 11:23 • (LCSD) R3292710-4 03/13/18 11:28

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	77.5	76.1	114	112	85.0-115			1.84	20

Method Blank (MB)

(MB) R3293235-2 03/09/18 14:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*108*			*80.0-120*
(S) Dibromofluoromethane	*93.3*			*76.0-123*
(S) 4-Bromofluorobenzene	*103*			*80.0-120*

Laboratory Control Sample (LCS)

(LCS) R3293235-1 03/09/18 13:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	25.0	24.0	95.8	70.0-130	
1,2-Dichloroethane	25.0	28.6	115	70.0-130	
Ethylbenzene	25.0	28.9	116	70.0-130	
Methyl tert-butyl ether	25.0	24.6	98.4	70.0-130	
Naphthalene	25.0	30.4	122	70.0-130	
Toluene	25.0	27.5	110	70.0-130	
Xylenes, Total	75.0	85.9	115	70.0-130	
(S) Toluene-d8			*106*	*80.0-120*	
(S) Dibromofluoromethane			*94.6*	*76.0-123*	
(S) 4-Bromofluorobenzene			*103*	*80.0-120*	

Method Blank (MB)

(MB) R3292885-2 03/10/18 01:03

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*105*			*80.0-120*
(S) Dibromofluoromethane	*95.3*			*76.0-123*
(S) 4-Bromofluorobenzene	*97.8*			*80.0-120*

Laboratory Control Sample (LCS)

(LCS) R3292885-1 03/10/18 00:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	25.0	22.2	88.6	70.0-130	
1,2-Dichloroethane	25.0	25.4	102	70.0-130	
Ethylbenzene	25.0	25.7	103	70.0-130	
Methyl tert-butyl ether	25.0	22.5	90.1	70.0-130	
Naphthalene	25.0	23.8	95.1	70.0-130	
Toluene	25.0	24.9	99.8	70.0-130	
Xylenes, Total	75.0	74.3	99.1	70.0-130	
(S) Toluene-d8			*106*	*80.0-120*	
(S) Dibromofluoromethane			*97.6*	*76.0-123*	
(S) 4-Bromofluorobenzene			*98.8*	*80.0-120*	

Method Blank (MB)

(MB) R3293387-3 03/14/18 16:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Benzene	U		0.331	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
Carbon disulfide	U		0.275	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00
2-Hexanone	U		3.82	10.0
2-Butanone (MEK)	U		3.93	10.0
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Styrene	U		0.307	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00

Method Blank (MB)

(MB) R3293387-3 03/14/18 16:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Trichloroethene	U		0.398	1.00
1,2,3-Trimethylbenzene	U		0.321	1.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*105*			*80.0-120*
(S) Dibromofluoromethane	*82.6*			*76.0-123*
(S) a,a,a-Trifluorotoluene	*101*			*80.0-120*
(S) 4-Bromofluorobenzene	*101*			*80.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3293387-1 03/14/18 15:41 • (LCSD) R3293387-2 03/14/18 16:01

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	102	100	81.7	80.1	70.0-130			2.05	23.9
Benzene	25.0	23.7	23.7	94.8	94.9	70.0-130			0.201	20
Bromodichloromethane	25.0	25.6	25.4	102	102	70.0-130			0.497	20
Bromoform	25.0	29.2	28.6	117	115	70.0-130			1.84	20
Bromomethane	25.0	25.1	25.7	101	103	70.0-130			2.21	20
Carbon disulfide	25.0	24.0	24.0	95.8	95.9	70.0-130			0.0454	20
Carbon tetrachloride	25.0	24.5	24.8	98.1	99.4	70.0-130			1.30	20
Chlorobenzene	25.0	28.2	28.0	113	112	70.0-130			0.518	20
Chlorodibromomethane	25.0	27.9	27.8	112	111	70.0-130			0.372	20
Chloroethane	25.0	24.0	24.5	96.0	97.9	70.0-130			1.99	20
Chloroform	25.0	23.6	23.7	94.2	94.9	70.0-130			0.742	20
Chloromethane	25.0	23.6	24.0	94.2	95.8	70.0-130			1.67	20
1,2-Dibromo-3-Chloropropane	25.0	26.3	25.3	105	101	70.0-130			4.21	20
1,2-Dibromoethane	25.0	27.8	28.0	111	112	70.0-130			0.790	20
1,2-Dichlorobenzene	25.0	29.0	29.0	116	116	70.0-130			0.216	20
1,3-Dichlorobenzene	25.0	28.1	28.8	112	115	70.0-130			2.73	20
1,4-Dichlorobenzene	25.0	27.1	27.4	108	110	70.0-130			1.07	20
1,1-Dichloroethane	25.0	23.8	24.0	95.4	96.0	70.0-130			0.605	20
1,2-Dichloroethane	25.0	23.0	23.7	92.0	94.7	70.0-130			2.95	20
1,1-Dichloroethene	25.0	24.2	24.1	96.8	96.3	70.0-130			0.526	20
cis-1,2-Dichloroethene	25.0	23.0	23.4	92.0	93.5	70.0-130			1.63	20
trans-1,2-Dichloroethene	25.0	24.2	24.3	96.7	97.2	70.0-130			0.478	20
1,2-Dichloropropane	25.0	27.8	26.6	111	106	70.0-130			4.46	20
cis-1,3-Dichloropropene	25.0	27.8	26.9	111	108	70.0-130			3.11	20
trans-1,3-Dichloropropene	25.0	24.2	24.0	96.8	95.9	70.0-130			0.887	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3293387-1 03/14/18 15:41 • (LCSD) R3293387-2 03/14/18 16:01

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Di-isopropyl ether	25.0	22.6	22.8	90.2	91.1	70.0-130			0.993	20
Ethylbenzene	25.0	28.6	28.7	114	115	70.0-130			0.461	20
2-Hexanone	125	129	127	103	102	70.0-130			1.65	20
2-Butanone (MEK)	125	113	113	90.6	90.1	70.0-130			0.525	20
Methylene Chloride	25.0	21.6	22.1	86.4	88.3	70.0-130			2.18	20
4-Methyl-2-pentanone (MIBK)	125	130	132	104	106	70.0-130			1.19	20
Methyl tert-butyl ether	25.0	23.5	23.6	93.9	94.3	70.0-130			0.424	20
Naphthalene	25.0	27.8	27.8	111	111	70.0-130			0.0974	20
Styrene	25.0	29.5	29.7	118	119	70.0-130			0.507	20
1,1,2,2-Tetrachloroethane	25.0	24.3	24.3	97.1	97.2	70.0-130			0.0543	20
Tetrachloroethene	25.0	28.9	28.3	115	113	70.0-130			1.95	20
Toluene	25.0	28.2	27.8	113	111	70.0-130			1.57	20
1,1,2-Trichlorotrifluoroethane	25.0	21.0	21.2	84.1	84.7	70.0-130			0.684	20
1,1,1-Trichloroethane	25.0	23.9	24.2	95.8	96.8	70.0-130			1.04	20
1,1,2-Trichloroethane	25.0	27.4	26.9	109	108	70.0-130			1.60	20
Trichloroethene	25.0	29.0	29.4	116	118	70.0-130			1.33	20
1,2,3-Trimethylbenzene	25.0	26.7	27.0	107	108	70.0-130			1.19	20
Vinyl chloride	25.0	24.6	24.5	98.3	98.2	70.0-130			0.0744	20
Xylenes, Total	75.0	85.9	85.4	115	114	70.0-130			0.584	20
(S) Toluene-d8				*102*	*101*	*80.0-120*				
(S) Dibromofluoromethane				*84.5*	*85.2*	*76.0-123*				
(S) a,a,a-Trifluorotoluene				*101*	*99.1*	*80.0-120*				
(S) 4-Bromofluorobenzene				*99.1*	*95.7*	*80.0-120*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

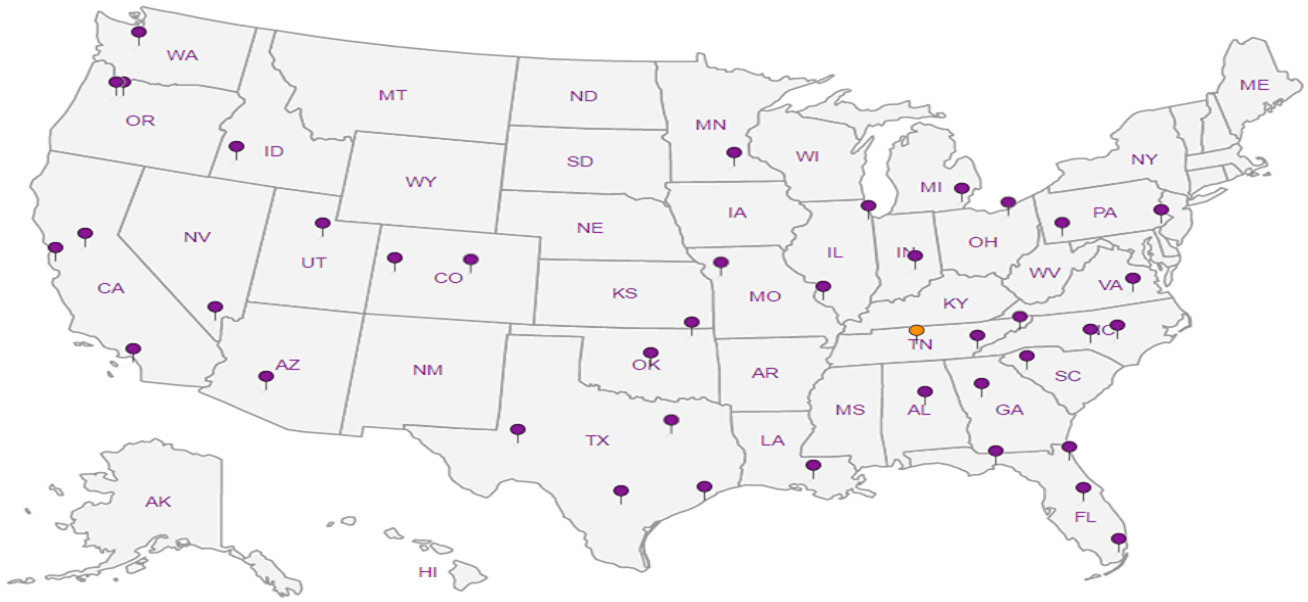
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Groundwater

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 699858, LD.MR.GW LEWIS DRIVE

Lab Project # KINCH2MGA-LEWIS12

Collected by (print): MELISSA WARREN

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature):

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NITRATE,SULFATE* 125mlHDPE-NoPres	ALK,CO2 125mlHDPE-NoPres	RSK175 40mlAmb HCl	V8260BTEXMNSC 40mlAmb-HCl	NAPHTHALENE	BTEX	1,2-DCA	Remarks	Sample # (lab only)
MW-07-030818	GRAB	GW	NA	03/08/18	0730	3				Y	Y	Y	Y		01
MW-03-030818		GW			0745	3	Y	Y	Y	Y	Y	Y	Y		02
MW-15B-030818		GW			0830	3				Y	Y	Y	Y		03
MW-15-030818		GW			0835	3	Y	Y	Y	Y	Y	Y	Y		04
MW-38-030818		GW			0850	3				Y	Y	Y	Y		05
MW-37-030818		GW			0855	3				Y	Y	Y	Y		06
MW-43B-030818		GW			0910	3				Y	Y	Y	Y		07
MW-43-030818		GW			0915	3				Y	Y	Y	Y		08
MW-24-030818		GW			0925	3				Y	Y	Y	Y		09
MW-24B-030818		GW			0930	3				Y	Y	Y	Y		10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: *NITRATE/SULFATE* has a 48hr hold time.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier _____

Tracking # 4142 5221 2801

Trip Blank Received: Yes / (No) HCL / MeoH TBR

Temp: 3.5 °C Bottles Received: 23

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	03/08/18	1630	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Kate Mallard 863

Date: 3/9/18 Time: 0845

Sample Receipt Checklist
COC Seal Present/Intact: NP / Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Chain of Custody Page 1 of 4

ESC LABORATORY SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 976079

H198

Acctnum: KINCH2MGA
Template: T130277
Prelogin: P640853
TSR: 526 - Chris McCord
PB: 2-27-18
Shipped Via: FedEX Ground

Chain of Custody Page 2 of 4

ESC LABORATORIES
a subsidiary of Accutest
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Groundwater

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 699858.CD.MP.GW

Lab Project # KINCH2MGA-LEWIS12

Collected by (print): MELISSA WARREN

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N Y

L# 976079

Table #

Acctnum: KINCH2MGA

Template: T130277

Prelogin: P640853

TSR: 526 - Chris McCord

PB: 2-27-18

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Pres Chk	*NITRATE,SULFATE* 125mlHDPE-NoPres	ALK,CO2 125mlHDPE-NoPres	RSK175 40mlAmb HCl	V8260BTEXMNSC 40mlAmb-HCl	NAPTHALENE	BTEX	1,2 - DCA	V8260BTEX NSC-TB - 40mlAmb-HCl-BLK	Remarks	Sample # (lab only)
FB01-030818	GRAB	GW	NA	03/08/18	0935	3					Y	Y	Y	Y			11
TB01-030818		GW			0937	1									Y		12
MW-34-030818		GW			0955	3					Y	Y	Y	Y			13
MW-39-030818		GW			1000	3					Y	Y	Y	Y			14
MW-40-030818		GW			1015	7 3a	Y	Y	Y	Y	Y	Y	Y	Y			15
MW-41-030818		GW			1020	3					Y	Y	Y	Y			16
MW-42-030818		GW			1030	7 3	Y	Y	Y	Y	Y	Y	Y	Y			17
MW-25-030818		GW			1040	7 3	Y	Y	Y	Y	Y	Y	Y	Y			18
MW-25B-030818		GW			1045	3					Y	Y	Y	Y			19
MW-35-030818		GW			1055	7 3	Y	Y	Y	Y	Y	Y	Y	Y			2

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *NITRATE/SULFATE* has a 48hr hold time.

pH ____ Temp ____

Flow ____ Other ____

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Samples returned via: ___ UPS X FedEx ___ Courier ____

Tracking # 4142 5221 2801

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	03/08/18	1630			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.5 °C Bottles Received: 123	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/9/18 Time: 0845	Hold: Condition: NCF / OK

CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Groundwater

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 699858.1D.MR.GW

Lab Project # KINCH2MGA-LEWIS12

Collected by (print): MELISSA WARREN

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature):

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NITRATE,SULFATE* 125mlHDPE-NoPres	ALK,CO2 125mlHDPE-NoPres	RSK175 40mlAmb HCl	V8260BTEXMNSC 40mlAmb-HCl	NAPHTHALENE	BTEX	1,2 - DCA
MW-49-030818	GRAB	GW	NA	03/08/18	1205	3				X	X	X	X
MW-28-030818		GW			1210	3	X	X	X	X	X	X	X
MW-12B-030818		GW			1225	3				X	X	X	X
MW-12-030818		GW			1230	7	X	X	X	X	X	X	X
MW-27-030818		GW			1300	3				X	X	X	X
MW-27B-030818		GW			1305	3				X	X	X	X
MW-01-030818		GW			1320	7	X	X	X	X	X	X	X
MW-01B-030818		GW			1330	3				X	X	X	X
MW-27BD-030818		GW			1307	3				X	X	X	X
MW-44-030818		GW			1335	3				X	X	X	X

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: *NITRATE/SULFATE* has a 48hr hold time.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier __ _____

Tracking # 4142 5221 2801

Trip Blank Received: (Yes) No
HCL / MeoH
TBR

Temp: 3.5 °C

Bottles Received: 123

If preservation required by Login: Date/Time

Hold:

Condition: NCF (OK)

Sample Receipt Checklist
COC Seal Present/Intact: __NP (Y) N
COC Signed/Accurate: X N
Bottles arrive intact: X N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	03/08/18	1630	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Kate Hoffman 803

Date: 3/9/11 Time: 0845

Chain of Custody Page 3 of 4

ESC LABORATORIES
a subsidiary of

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 97607

Table #

Acctnum: KINCH2MGA

Template: T130277

Prelogin: P640853

TSR: 526 - Chris McCord

PB: 2-27-18

Shipped Via: FedEX Ground

Remarks	Sample # (lab only)
	21
	22
	23
	24
	25
	26
	27
	28
	29
	30

CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 4 of 4

ESC LAB SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Groundwater

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 699856.LD.MR.GW

Lab Project # KINCH2MGA-LEWIS12

L# 976079

Table #

Collected by (print): MELISSA WARREN

Site/Facility ID # LEWIS DRIVE

P.O. #

Acctnum: KINCH2MGA
Template: T130277
Prelogin: P640853
TSR: 526 - Chris McCord
PB: 2-27-18

Shipped Via: FedEX Ground

Collected by (signature): [signature]

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NITRATE,SULFATE* 125mlHDPE-NoPres	ALK,CO2 125mlHDPE-NoPres	RSK175 40mlAmb HCl	V8260BTEXMNSC 40mlAmb-HCl	NAPHTHALENE	BTEX	1,2-DCA			Remarks	Sample # (lab only)
Pres Chk										X	X	X	X				
MW-44D-030818	GRAB	GW	NA	03/08/18	1340	3				X	X	X	X				31
MW-44B-030818	GRAB	GW	NA	03/08/18	1345	3				X	X	X	X				32
		GW															
		GW															
		GW															
		GW															
		GW															
		GW															
		GW															
		GW															

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other ______

Remarks: *NITRATE/SULFATE* has a 48hr hold time.

pH ______ Temp ______
Flow ______ Other ______

Samples returned via:
__ UPS X FedEx __ Courier __ ______

Tracking # 4142 5221 2861

Sample Receipt Checklist
COC Seal Present/Intact: _NP ✓Y _N
COC Signed/Accurate: ✓Y _N
Bottles arrive intact: ✓Y _N
Correct bottles used: ✓Y _N
Sufficient volume sent: ✓Y _N
If Applicable
VOA Zero Headspace: ✓Y _N
Preservation Correct/Checked: _Y _N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No — HCl / MeoH — TBR	
[signature]	03/08/18	1630			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.5 °C — Bottles Received: 123	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature] 863	Date: 3/9/18 — Time: 0845	Hold: — Condition: NCF / OK

Appendix D
Operation and Maintenance Logs

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance Maintenance Log *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Discharge Permit and Expiration Date
11/15/18 1015	Scott Smith		Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Site Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect condition of Brown's Creek.	Each visit	(Yes) / No	Yes / No		
Perform air monitoring near Cupboard Creek.	Each visit	(Yes) / No	Yes / No	–	
Activate and inspect condition of receiver auto drain.	Each visit	Yes / (No)	Yes / No	Frozen, Thaw w/ heat gun and improve insulation.	
...	...				
...	...				

Equipment Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect receiver tank and discharge lines.	Monthly	(Yes) / No	Yes / No		
Inspect condensate system components. Drain and clean as needed.	Monthly	(Yes) / No	Yes / No		
Inspect the two fire extinguishers for signs of deterioration. Shake contents.	Monthly	Yes / (No)	Yes / No		
Coordinate with Airite to performed quarterly and annual PM on both machines.	Quarterly	Yes / (No)	Yes / No		
Inspect various building components detailed in Section X.X.X.	Semi-Annually	Yes / (No)	Yes / No		
Test relief valve on receiver tank for proper operation.	Annually	Yes / (No)	Yes / No		
Inspect flow meters per Section X.X.X. Verify calibration.	Annually	Yes / (No)	Yes / No		
Calibrate EAD	Annually	Yes / (No)	Yes / No		

NOTE: Please check the manufacturer's instructions for the specific maintenance schedule and instructions.

Additional Comments: 0

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 1 of 4
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	*Lewis Drive, Belton, South Carolina*

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/4/2018 1015 1315	SCOTT SMITH	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Exterior Components	(Units)	Optimal Level	Max Level	Arrival	Departure
System Operating	(Yes/No)	NA	NA	Yes	Yes
Air Compressor 1 Run Time	(hours)	NA	NA	5089.2	—
Air Compressor 1 Load Time	(hours)	NA	NA	2584.5	—
Air Compressor 1 Discharge Temp	(F)	60 - 100	110	—	—
Air Compressor 1 Pressure	(psig)	90 - 110	100	—	—
Air Compressor 2 Run Time	(hours)	NA	NA	2985:18	2988:11
Air Compressor 2 Load Time	(hours)	NA	NA	2049:18	2051:59
Air Compressor 2 Temp	(F)	60 - 100	110	179	181
Air Compressor 2 Pressure	(psig)	90 - 110	100	110	97
Receiver Tank Pressure	(psig)	90 - 110	100	115	105
Receiver Tank Temperature	(F)	60 - 100	110	N/A	N/A
Interior Manifold	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
Manifold Pressure	(psig)	90 - 110	100	105	100
Manifold Temperature	(F)	60 - 100	110	46	50
Manifold Flow Rate	(scfm)	TBD	TBD	1014	1120
Horizontal Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
HAS-1 Target Flow Rate	(scfm)	TBD	TBD	435.0	435.0
HAS-1 Actual Flow Rate	(scfm)	TBD	TBD	448.3	432.4
HAS-1 Valve Position	(%)	TBD	TBD	16.8	15.5
HAS-1 Pressure	(psig)	10 - 20	30	22	22
HAS-2 Target Flow Rate	(scfm)	TBD	TBD	72.0	130.0
HAS-2 Actual Flow Rate	(scfm)	TBD	TBD	73.5	133.1
HAS-2 Valve Position	(%)	TBD	TBD	5.5	7.5
HAS-2 Pressure	(psig)	10 - 20	30	16	20
HAS-3 Target Flow Rate	(scfm)	TBD	TBD	217.5	217.5
HAS-3 Actual Flow Rate	(scfm)	TBD	TBD	219.6	218.8
HAS-3 Valve Position	(%)	TBD	TBD	32.2	32.3
HAS-3 Pressure	(psig)	10 - 20	30	17	17

Parts Needed:	
Parts Installed:	

Notes (include alarms since previous visit):

AC#1, down on 1/2/18 @ 0805 P2 sensor fail. See field book for details.

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 2 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/4/2018 1015 1315	Scott Snipa	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-01 Flow Rate	(scfm)	TBD	TBD	10.2	
VAS-01 Pressure	(psig)	10 - 20	30	25	
VAS-02 Flow Rate	(scfm)	TBD	TBD	10.3	
VAS-02 Pressure	(psig)	10 - 20	30	10	
VAS-03 Flow Rate	(scfm)	TBD	TBD	10.2	
VAS-03 Pressure	(psig)	10 - 20	30	5	
VAS-04 Flow Rate	(scfm)	TBD	TBD	10.1	
VAS-04 Pressure	(psig)	10 - 20	30	2	
VAS-05 Flow Rate	(scfm)	TBD	TBD	10.1	
VAS-05 Pressure	(psig)	10 - 20	30	2	
VAS-06 Flow Rate	(scfm)	TBD	TBD	10.2	
VAS-06 Pressure	(psig)	10 - 20	30	3	
VAS-07 Flow Rate	(scfm)	TBD	TBD	10.3	
VAS-07 Pressure	(psig)	10 - 20	30	12	
VAS-08 Flow Rate	(scfm)	TBD	TBD	10.7	
VAS-08 Pressure	(psig)	10 - 20	30	14	
VAS-09 Flow Rate	(scfm)	TBD	TBD	10.3	
VAS-09 Pressure	(psig)	10 - 20	30	5	
VAS-10 Flow Rate	(scfm)	TBD	TBD	10.5	
VAS-10 Pressure	(psig)	10 - 20	30	11	
VAS-11 Flow Rate	(scfm)	TBD	TBD		10.5
VAS-11 Pressure	(psig)	10 - 20	30		14
VAS-12 Flow Rate	(scfm)	TBD	TBD		10.4
VAS-12 Pressure	(psig)	10 - 20	30		12
VAS-13 Flow Rate	(scfm)	TBD	TBD		9.8
VAS-13 Pressure	(psig)	10 - 20	30		15
VAS-14 Flow Rate	(scfm)	TBD	TBD		10.3
VAS-14 Pressure	(psig)	10 - 20	30		7
VAS-15 Flow Rate	(scfm)	TBD	TBD		9.7
VAS-15 Pressure	(psig)	10 - 20	30		6
VAS-16 Flow Rate	(scfm)	TBD	TBD		9.7
VAS-16 Pressure	(psig)	10 - 20	30		15
VAS-17 Flow Rate	(scfm)	TBD	TBD		9.7
VAS-17 Pressure	(psig)	10 - 20	30		13

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 3 of 4
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	*Lewis Drive, Belton, South Carolina*

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/4/2019 1015 1315	SCOTT Sm WOA	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-18 Flow Rate	(scfm)	TBD	TBD	11.1	—
VAS-18 Pressure	(psig)	10 - 20	30	2	—
VAS-19 Flow Rate	(scfm)	TBD	TBD		9.4
VAS-19 Pressure	(psig)	10 - 20	30		18
VAS-20 Flow Rate	(scfm)	TBD	TBD		9.8
VAS-20 Pressure	(psig)	10 - 20	30		33
VAS-21 Flow Rate	(scfm)	TBD	TBD		10.5
VAS-21 Pressure	(psig)	10 - 20	30		30
VAS-22 Flow Rate	(scfm)	TBD	TBD		11.0
VAS-22 Pressure	(psig)	10 - 20	30		38
VAS-23 Flow Rate	(scfm)	TBD	TBD		10.5
VAS-23 Pressure	(psig)	10 - 20	30		25
VAS-24 Flow Rate	(scfm)	TBD	TBD		8.5
VAS-24 Pressure	(psig)	10 - 20	30		35
VAS-25 Flow Rate	(scfm)	TBD	TBD		9.7
VAS-25 Pressure	(psig)	10 - 20	30		24
VAS-26 Flow Rate	(scfm)	TBD	TBD		7.4
VAS-26 Pressure	(psig)	10 - 20	30		34
VAS-27 Flow Rate	(scfm)	TBD	TBD		8.0
VAS-27 Pressure	(psig)	10 - 20	30		40
VAS-28 Flow Rate	(scfm)	TBD	TBD		10.6
VAS-28 Pressure	(psig)	10 - 20	30		13
VAS-29 Flow Rate	(scfm)	TBD	TBD		10.7
VAS-29 Pressure	(psig)	10 - 20	30		14
VAS-30 Flow Rate	(scfm)	TBD	TBD		10.6
VAS-30 Pressure	(psig)	10 - 20	30		8
VAS-31 Flow Rate	(scfm)	TBD	TBD		10.5
VAS-31 Pressure	(psig)	10 - 20	30		30
VAS-32 Flow Rate	(scfm)	TBD	TBD		—
VAS-32 Pressure	(psig)	10 - 20	30		
VAS-33 Flow Rate	(scfm)	TBD	TBD		
VAS-33 Pressure	(psig)	10 - 20	30		
VAS-34 Flow Rate	(scfm)	TBD	TBD		
VAS-34 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 4 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/4/2018 1015 1315	Scott Shiva	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-35 Flow Rate	(scfm)	TBD	TBD		
VAS-35 Pressure	(psig)	10 - 20	30		
VAS-36 Flow Rate	(scfm)	TBD	TBD		
VAS-36 Pressure	(psig)	10 - 20	30		
VAS-37 Flow Rate	(scfm)	TBD	TBD		
VAS-37 Pressure	(psig)	10 - 20	30		
VAS-38 Flow Rate	(scfm)	TBD	TBD		
VAS-38 Pressure	(psig)	10 - 20	30		
VAS-39 Flow Rate	(scfm)	TBD	TBD		
VAS-39 Pressure	(psig)	10 - 20	30		
VAS-40 Flow Rate	(scfm)	TBD	TBD		
VAS-40 Pressure	(psig)	10 - 20	30		
VAS-41 Flow Rate	(scfm)	TBD	TBD	10.5	
VAS-41 Pressure	(psig)	20-Oct	30	8	
VAS-42 Flow Rate	(scfm)	TBD	TBD	—	
VAS-42 Pressure	(psig)	10 - 20	30	—	
VAS-43 Flow Rate	(scfm)	TBD	TBD	10.7	
VAS-43 Pressure	(psig)	10 - 20	30	32	
VAS-44 Flow Rate	(scfm)	TBD	TBD	4.0	
VAS-44 Pressure	(psig)	10 - 20	30	40	
VAS-45 Flow Rate	(scfm)	TBD	TBD	10.5	
VAS-45 Pressure	(psig)	10 - 20	30	11	
Brown's Creek Aerators	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BCA-01 Flow Rate	(scfm)	TBD	TBD	15.8	15.4
BCA-01 Pressure	(psig)	0 - 5	5	20	20
BCA-02 Flow Rate	(scfm)	TBD	TBD	15.5	15.4
BCA-02 Pressure	(psig)	0 - 5	5	20	18
Bedrock Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BRS-01 Flow Rate	(scfm)	TBD	TBD	-	
BRS-01 Pressure	(psig)	10 - 20	30		
BRS-02 Flow Rate	(scfm)	TBD	TBD		
BRS-02 Pressure	(psig)	10 - 20	30		
BRS-03 Flow Rate	(scfm)	TBD	TBD		
BRS-03 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance Maintenance Log *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Chris Shores/RAL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Discharge Permit and Expiration Date
11/9/2018 1120	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Site Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect condition of Brown's Creek.	Each visit	(Yes) / No	Yes / No		
Perform air monitoring near Cupboard Creek.	Each visit	(Yes) / No	Yes / No	—	
Activate and inspect condition of receiver auto drain.	Each visit	(Yes) / No	Yes / No		
...	...				
...	...				

Equipment Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect receiver tank and discharge lines.	Monthly	(Yes) / No	Yes / No		
Inspect condensate system components. Drain and clean as needed.	Monthly	(Yes) / No	Yes / No		
Inspect the two fire extinguishers for signs of deterioration. Shake contents.	Monthly	(Yes) / No	Yes / No		
Coordinate with Airite to performed quarterly and annual PM on both machines.	Quarterly	(Yes) / No	Yes / No		
Inspect various building components detailed in Section X.X.X.	Semi-Annually	Yes / (No)	Yes / No		
Test relief valve on receiver tank for proper operation.	Annually	Yes / (No)	Yes / No		
Inspect flow meters per Section X.X.X. Verify calibration.	Annually	Yes / (No)	Yes / No		
Calibrate EAD	Annually	Yes / (No)	Yes / No		

NOTE: Please check the manufacturer's instructions for the specific maintenance schedule and instructions.

Additional Comments: 0

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 1 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Chris Shores/RAL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/9/2018 1120 1500	Scott Shiba	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Exterior Components	(Units)	Optimal Level	Max Level	Arrival	Departure
System Operating	(Yes/No)	NA	NA	NO	Yes
Air Compressor 1 Run Time	(hours)	NA	NA	5090:01	5093:82
Air Compressor 1 Load Time	(hours)	NA	NA	2584:55	2586:25
Air Compressor 1 Discharge Temp	(F)	60 - 100	110		178
Air Compressor 1 Pressure	(psig)	90 - 110	100		111
Air Compressor 2 Run Time	(hours)	NA	NA	3031:27	3032:12
Air Compressor 2 Load Time	(hours)	NA	NA	2094:04	2094:20
Air Compressor 2 Temp	(F)	60 - 100	110		—
Air Compressor 2 Pressure	(psig)	90 - 110	100		—
Receiver Tank Pressure	(psig)	90 - 110	100		112
Receiver Tank Temperature	(F)	60 - 100	110		N/A
Interior Manifold	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
Manifold Pressure	(psig)	90 - 110	100		110
Manifold Temperature	(F)	60 - 100	110		71
Manifold Flow Rate	(scfm)	TBD	TBD		662.2
Horizontal Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
HAS-1 Target Flow Rate	(scfm)	TBD	TBD		113.0
HAS-1 Actual Flow Rate	(scfm)	TBD	TBD		112.6
HAS-1 Valve Position	(%)	TBD	TBD		2.9
HAS-1 Pressure	(psig)	10 - 20	30		12
HAS-2 Target Flow Rate	(scfm)	TBD	TBD		108.0
HAS-2 Actual Flow Rate	(scfm)	TBD	TBD		107.5
HAS-2 Valve Position	(%)	TBD	TBD		7.7
HAS-2 Pressure	(psig)	10 - 20	30		14
HAS-3 Target Flow Rate	(scfm)	TBD	TBD		56.6
HAS-3 Actual Flow Rate	(scfm)	TBD	TBD		49.3
HAS-3 Valve Position	(%)	TBD	TBD		24.5
HAS-3 Pressure	(psig)	10 - 20	30		14

Parts Needed:	
Parts Installed:	

Notes (include alarms since previous visit):

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 2 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Chris Shores/RAL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/9/2018 1500	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-01 Flow Rate	(scfm)	TBD	TBD		
VAS-01 Pressure	(psig)	10 - 20	30		
VAS-02 Flow Rate	(scfm)	TBD	TBD		
VAS-02 Pressure	(psig)	10 - 20	30		
VAS-03 Flow Rate	(scfm)	TBD	TBD		
VAS-03 Pressure	(psig)	10 - 20	30		
VAS-04 Flow Rate	(scfm)	TBD	TBD		
VAS-04 Pressure	(psig)	10 - 20	30		
VAS-05 Flow Rate	(scfm)	TBD	TBD		
VAS-05 Pressure	(psig)	10 - 20	30		
VAS-06 Flow Rate	(scfm)	TBD	TBD		
VAS-06 Pressure	(psig)	10 - 20	30		
VAS-07 Flow Rate	(scfm)	TBD	TBD		
VAS-07 Pressure	(psig)	10 - 20	30		
VAS-08 Flow Rate	(scfm)	TBD	TBD		
VAS-08 Pressure	(psig)	10 - 20	30		
VAS-09 Flow Rate	(scfm)	TBD	TBD		
VAS-09 Pressure	(psig)	10 - 20	30		
VAS-10 Flow Rate	(scfm)	TBD	TBD		
VAS-10 Pressure	(psig)	10 - 20	30		
VAS-11 Flow Rate	(scfm)	TBD	TBD		10.1
VAS-11 Pressure	(psig)	10 - 20	30		10
VAS-12 Flow Rate	(scfm)	TBD	TBD		10.5
VAS-12 Pressure	(psig)	10 - 20	30		10
VAS-13 Flow Rate	(scfm)	TBD	TBD		10.0
VAS-13 Pressure	(psig)	10 - 20	30		13
VAS-14 Flow Rate	(scfm)	TBD	TBD		10.2
VAS-14 Pressure	(psig)	10 - 20	30		5
VAS-15 Flow Rate	(scfm)	TBD	TBD		9.5
VAS-15 Pressure	(psig)	10 - 20	30		6
VAS-16 Flow Rate	(scfm)	TBD	TBD		10.4
VAS-16 Pressure	(psig)	10 - 20	30		13
VAS-17 Flow Rate	(scfm)	TBD	TBD		9.8
VAS-17 Pressure	(psig)	10 - 20	30		12

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 3 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Chris Shores/RAL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/9/2018 1500	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-18 Flow Rate	(scfm)	TBD	TBD		—
VAS-18 Pressure	(psig)	10 - 20	30		—
VAS-19 Flow Rate	(scfm)	TBD	TBD		10.1
VAS-19 Pressure	(psig)	10 - 20	30		15
VAS-20 Flow Rate	(scfm)	TBD	TBD		
VAS-20 Pressure	(psig)	10 - 20	30		
VAS-21 Flow Rate	(scfm)	TBD	TBD		
VAS-21 Pressure	(psig)	10 - 20	30		
VAS-22 Flow Rate	(scfm)	TBD	TBD		
VAS-22 Pressure	(psig)	10 - 20	30		
VAS-23 Flow Rate	(scfm)	TBD	TBD		
VAS-23 Pressure	(psig)	10 - 20	30		
VAS-24 Flow Rate	(scfm)	TBD	TBD		
VAS-24 Pressure	(psig)	10 - 20	30		
VAS-25 Flow Rate	(scfm)	TBD	TBD		
VAS-25 Pressure	(psig)	10 - 20	30		
VAS-26 Flow Rate	(scfm)	TBD	TBD		
VAS-26 Pressure	(psig)	10 - 20	30		
VAS-27 Flow Rate	(scfm)	TBD	TBD		
VAS-27 Pressure	(psig)	10 - 20	30		
VAS-28 Flow Rate	(scfm)	TBD	TBD		
VAS-28 Pressure	(psig)	10 - 20	30		
VAS-29 Flow Rate	(scfm)	TBD	TBD		
VAS-29 Pressure	(psig)	10 - 20	30		
VAS-30 Flow Rate	(scfm)	TBD	TBD		
VAS-30 Pressure	(psig)	10 - 20	30		
VAS-31 Flow Rate	(scfm)	TBD	TBD		
VAS-31 Pressure	(psig)	10 - 20	30		
VAS-32 Flow Rate	(scfm)	TBD	TBD		9.5
VAS-32 Pressure	(psig)	10 - 20	30		19
VAS-33 Flow Rate	(scfm)	TBD	TBD		8.2
VAS-33 Pressure	(psig)	10 - 20	30		30
VAS-34 Flow Rate	(scfm)	TBD	TBD		10.5
VAS-34 Pressure	(psig)	10 - 20	30		24

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 4 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Chris Shores/RAL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
11/9/2018 1500	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-35 Flow Rate	(scfm)	TBD	TBD		10.4
VAS-35 Pressure	(psig)	10 - 20	30		21
VAS-36 Flow Rate	(scfm)	TBD	TBD		10.8
VAS-36 Pressure	(psig)	10 - 20	30		12
VAS-37 Flow Rate	(scfm)	TBD	TBD		9.3
VAS-37 Pressure	(psig)	10 - 20	30		6
VAS-38 Flow Rate	(scfm)	TBD	TBD		9.9
VAS-38 Pressure	(psig)	10 - 20	30		8
VAS-39 Flow Rate	(scfm)	TBD	TBD		16.0
VAS-39 Pressure	(psig)	10 - 20	30		11
VAS-40 Flow Rate	(scfm)	TBD	TBD		10.7
VAS-40 Pressure	(psig)	10 - 20	30		28
VAS-41 Flow Rate	(scfm)	TBD	TBD		—
VAS-41 Pressure	(psig)	20-Oct	30		—
VAS-42 Flow Rate	(scfm)	TBD	TBD		9.8
VAS-42 Pressure	(psig)	10 - 20	30		11
VAS-43 Flow Rate	(scfm)	TBD	TBD		
VAS-43 Pressure	(psig)	10 - 20	30		
VAS-44 Flow Rate	(scfm)	TBD	TBD		
VAS-44 Pressure	(psig)	10 - 20	30		
VAS-45 Flow Rate	(scfm)	TBD	TBD		
VAS-45 Pressure	(psig)	10 - 20	30		
Brown's Creek Aerators	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BCA-01 Flow Rate	(scfm)	TBD	TBD		14.8
BCA-01 Pressure	(psig)	0 - 5	5		15
BCA-02 Flow Rate	(scfm)	TBD	TBD		14.9
BCA-02 Pressure	(psig)	0 - 5	5		16
Bedrock Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BRS-01 Flow Rate	(scfm)	TBD	TBD		
BRS-01 Pressure	(psig)	10 - 20	30		
BRS-02 Flow Rate	(scfm)	TBD	TBD		
BRS-02 Pressure	(psig)	10 - 20	30		
BRS-03 Flow Rate	(scfm)	TBD	TBD		
BRS-03 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance Maintenance Log *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Discharge Permit and Expiration Date
1/15/2018 0945	Scott Smida	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Site Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect condition of Brown's Creek.	Each visit	(Yes) / No	Yes / No	- see notes for details	
Perform air monitoring near Cupboard Creek.	Each visit	(Yes) / No	Yes / No		
Activate and inspect condition of receiver auto drain.	Each visit	(Yes) / No	Yes / No		
...	...				
...	...				
Equipment Maintenance	**Frequency**	**Conditions Good?**	**Repaired/Replaced?**	**Scheduled**	**Comment**
Inspect receiver tank and discharge lines.	Monthly	(Yes) / No	Yes / No		
Inspect condensate system components. Drain and clean as needed.	Monthly	(Yes) / No	Yes / No		
Inspect the two fire extinguishers for signs of deterioration. Shake contents.	Monthly	(Yes) / No	Yes / No		
Coordinate with Airite to performed quarterly and annual PM on both machines.	Quarterly	Yes / No	Yes / No	—	
Inspect various building components detailed in Section X.X.X.	Semi-Annually	Yes / No	Yes / No	—	
Test relief valve on receiver tank for proper operation.	Annually	Yes / No	Yes / No	—	
Inspect flow meters per Section X.X.X. Verify calibration.	Annually	Yes / No	Yes / No	—	
Calibrate EAD	Annually	Yes / No	Yes / No	—	

NOTE: Please check the manufacturer's instructions for the specific maintenance schedule and instructions.

Additional Comments: → activated receiver tank auto drain, ok.
→ checked water in gwa mat units. Both clear/ok.
→ replaced 5 VAS well pressure gauges that had leaked glycerin
→ Adjusted VAS wells from 0.83 SCFM/FT to 0.40 SCFM/FT
→ drained water from storage tank containment after inspecting and finding it free of odor or sheen.

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 1 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/11/2018 0945 1545	SCOTT Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Exterior Components	(Units)	Optimal Level	Max Level	Arrival	Departure
System Operating	(Yes/No)	NA	NA	yes	yes
Air Compressor 1 Run Time	(hours)	NA	NA	5231:55	5237:49
Air Compressor 1 Load Time	(hours)	NA	NA	2664:27	2668:15
Air Compressor 1 Discharge Temp	(F)	60 - 100	110	186	185
Air Compressor 1 Pressure	(psig)	90 - 110	100	110	110
Air Compressor 2 Run Time	(hours)	NA	NA	3032:12	3034:58
Air Compressor 2 Load Time	(hours)	NA	NA	2094:20	2096:13
Air Compressor 2 Temp	(F)	60 - 100	110	—	183
Air Compressor 2 Pressure	(psig)	90 - 110	100	—	110
Receiver Tank Pressure	(psig)	90 - 110	100	112	115
Receiver Tank Temperature	(F)	60 - 100	110	N/A	N/A
Interior Manifold	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
Manifold Pressure	(psig)	90 - 110	100	110	110
Manifold Temperature	(F)	60 - 100	110	40	52
Manifold Flow Rate	(scfm)	TBD	TBD	569.3	1177
Horizontal Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
HAS-1 Target Flow Rate	(scfm)	TBD	TBD	135.6	300
HAS-1 Actual Flow Rate	(scfm)	TBD	TBD	155.6	295.7
HAS-1 Valve Position	(%)	TBD	TBD	2.1	18.4
HAS-1 Pressure	(psig)	10 - 20	30	19	24
HAS-2 Target Flow Rate	(scfm)	TBD	TBD	129.0	287.0
HAS-2 Actual Flow Rate	(scfm)	TBD	TBD	127.5	279.6
HAS-2 Valve Position	(%)	TBD	TBD	8.0	27.8
HAS-2 Pressure	(psig)	10 - 20	30	20.5	26
HAS-3 Target Flow Rate	(scfm)	TBD	TBD	67.5	150.0
HAS-3 Actual Flow Rate	(scfm)	TBD	TBD	89.5	163.4
HAS-3 Valve Position	(%)	TBD	TBD	25.7	28.5
HAS-3 Pressure	(psig)	10 - 20	30	15	19

Parts Needed:	
Parts Installed:	5 pressure gauges, VAS 10, 15, 17, 19 & 25

Notes (include alarms since previous visit):

→ Remotely increased HAS wells from 0.15 SCFM/FT to 0.18 SCFM/FT on 1/11/2018

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 2 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
11/15/2018 0945 1545	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-01 Flow Rate	(scfm)	TBD	TBD	9.1	
VAS-01 Pressure	(psig)	10 - 20	30	12	
VAS-02 Flow Rate	(scfm)	TBD	TBD	9.3	
VAS-02 Pressure	(psig)	10 - 20	30	11	
VAS-03 Flow Rate	(scfm)	TBD	TBD	9.2	
VAS-03 Pressure	(psig)	10 - 20	30	5	
VAS-04 Flow Rate	(scfm)	TBD	TBD	10.2	
VAS-04 Pressure	(psig)	10 - 20	30	3	
VAS-05 Flow Rate	(scfm)	TBD	TBD	8.1	
VAS-05 Pressure	(psig)	10 - 20	30	2	
VAS-06 Flow Rate	(scfm)	TBD	TBD	10.4	
VAS-06 Pressure	(psig)	10 - 20	30	4	
VAS-07 Flow Rate	(scfm)	TBD	TBD	9.0	
VAS-07 Pressure	(psig)	10 - 20	30	12	
VAS-08 Flow Rate	(scfm)	TBD	TBD	8.9	
VAS-08 Pressure	(psig)	10 - 20	30	12	
VAS-09 Flow Rate	(scfm)	TBD	TBD	9.8	
VAS-09 Pressure	(psig)	10 - 20	30	5	
VAS-10 Flow Rate	(scfm)	TBD	TBD	10.8	
VAS-10 Pressure	(psig)	10 - 20	30	10	
VAS-11 Flow Rate	(scfm)	TBD	TBD		11.0
VAS-11 Pressure	(psig)	10 - 20	30		10
VAS-12 Flow Rate	(scfm)	TBD	TBD		10.7
VAS-12 Pressure	(psig)	10 - 20	30		10
VAS-13 Flow Rate	(scfm)	TBD	TBD		8.9
VAS-13 Pressure	(psig)	10 - 20	30		13
VAS-14 Flow Rate	(scfm)	TBD	TBD		10.3
VAS-14 Pressure	(psig)	10 - 20	30		5
VAS-15 Flow Rate	(scfm)	TBD	TBD		10.5
VAS-15 Pressure	(psig)	10 - 20	30		1
VAS-16 Flow Rate	(scfm)	TBD	TBD		10.3
VAS-16 Pressure	(psig)	10 - 20	30		13
VAS-17 Flow Rate	(scfm)	TBD	TBD		10.5
VAS-17 Pressure	(psig)	10 - 20	30		5

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 3 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/15/2018 0945 1545	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-18 Flow Rate	(scfm)	TBD	TBD	10.0	—
VAS-18 Pressure	(psig)	10 - 20	30	1	—
VAS-19 Flow Rate	(scfm)	TBD	TBD		9.3
VAS-19 Pressure	(psig)	10 - 20	30		17
VAS-20 Flow Rate	(scfm)	TBD	TBD		10.8
VAS-20 Pressure	(psig)	10 - 20	30		32
VAS-21 Flow Rate	(scfm)	TBD	TBD		11.2
VAS-21 Pressure	(psig)	10 - 20	30		23
VAS-22 Flow Rate	(scfm)	TBD	TBD		11.3
VAS-22 Pressure	(psig)	10 - 20	30		24
VAS-23 Flow Rate	(scfm)	TBD	TBD		11.6
VAS-23 Pressure	(psig)	10 - 20	30		21
VAS-24 Flow Rate	(scfm)	TBD	TBD		10.9
VAS-24 Pressure	(psig)	10 - 20	30		32
VAS-25 Flow Rate	(scfm)	TBD	TBD		10.9
VAS-25 Pressure	(psig)	10 - 20	30		19
VAS-26 Flow Rate	(scfm)	TBD	TBD		10.9
VAS-26 Pressure	(psig)	10 - 20	30		31
VAS-27 Flow Rate	(scfm)	TBD	TBD		11.5
VAS-27 Pressure	(psig)	10 - 20	30		36
VAS-28 Flow Rate	(scfm)	TBD	TBD		10.5
VAS-28 Pressure	(psig)	10 - 20	30		12
VAS-29 Flow Rate	(scfm)	TBD	TBD		10.3
VAS-29 Pressure	(psig)	10 - 20	30		12
VAS-30 Flow Rate	(scfm)	TBD	TBD		10.2
VAS-30 Pressure	(psig)	10 - 20	30		6
VAS-31 Flow Rate	(scfm)	TBD	TBD		10.4
VAS-31 Pressure	(psig)	10 - 20	30		30
VAS-32 Flow Rate	(scfm)	TBD	TBD		—
VAS-32 Pressure	(psig)	10 - 20	30		
VAS-33 Flow Rate	(scfm)	TBD	TBD		
VAS-33 Pressure	(psig)	10 - 20	30		
VAS-34 Flow Rate	(scfm)	TBD	TBD		
VAS-34 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 4 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/15/2018 0945 1545	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-35 Flow Rate	(scfm)	TBD	TBD		
VAS-35 Pressure	(psig)	10 - 20	30		
VAS-36 Flow Rate	(scfm)	TBD	TBD		
VAS-36 Pressure	(psig)	10 - 20	30		
VAS-37 Flow Rate	(scfm)	TBD	TBD		
VAS-37 Pressure	(psig)	10 - 20	30		
VAS-38 Flow Rate	(scfm)	TBD	TBD		
VAS-38 Pressure	(psig)	10 - 20	30		
VAS-39 Flow Rate	(scfm)	TBD	TBD		
VAS-39 Pressure	(psig)	10 - 20	30		
VAS-40 Flow Rate	(scfm)	TBD	TBD		
VAS-40 Pressure	(psig)	10 - 20	30		
VAS-41 Flow Rate	(scfm)	TBD	TBD	10.4	
VAS-41 Pressure	(psig)	20-Oct	30	8	
VAS-42 Flow Rate	(scfm)	TBD	TBD	—	
VAS-42 Pressure	(psig)	10 - 20	30	—	
VAS-43 Flow Rate	(scfm)	TBD	TBD	7.4	
VAS-43 Pressure	(psig)	10 - 20	30	31	
VAS-44 Flow Rate	(scfm)	TBD	TBD	4.6	
VAS-44 Pressure	(psig)	10 - 20	30	38	
VAS-45 Flow Rate	(scfm)	TBD	TBD	10.0	
VAS-45 Pressure	(psig)	10 - 20	30	11	
Brown's Creek Aerators	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BCA-01 Flow Rate	(scfm)	TBD	TBD	15.3	14.4
BCA-01 Pressure	(psig)	0 - 5	5	19	18
BCA-02 Flow Rate	(scfm)	TBD	TBD	15.7	14.7
BCA-02 Pressure	(psig)	0 - 5	5	19	18
Bedrock Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BRS-01 Flow Rate	(scfm)	TBD	TBD		
BRS-01 Pressure	(psig)	10 - 20	30		
BRS-02 Flow Rate	(scfm)	TBD	TBD		
BRS-02 Pressure	(psig)	10 - 20	30		
BRS-03 Flow Rate	(scfm)	TBD	TBD		
BRS-03 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance Maintenance Log *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Discharge Permit and Expiration Date
1/22/2018 0945	Scott Smith	Jake Crosby	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Site Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect condition of Brown's Creek.	Each visit	(Yes) / No	Yes / No	- see field book for details	
Perform air monitoring near Cupboard Creek.	Each visit	(Yes) / No	Yes / No		
Activate and inspect condition of receiver auto drain.	Each visit	(Yes) / No	Yes / No		
...	...				
...	...				
Equipment Maintenance	**Frequency**	**Conditions Good?**	**Repaired/Replaced?**	**Scheduled**	**Comment**
Inspect receiver tank and discharge lines.	Monthly	(Yes) / No	Yes / No		
Inspect condensate system components. Drain and clean as needed.	Monthly	(Yes) / No	Yes / No		
Inspect the two fire extinguishers for signs of deterioration. Shake contents.	Monthly	(Yes) / No	Yes / No		
Coordinate with Airite to performed quarterly and annual PM on both machines.	Quarterly	(Yes) / No	Yes / No		
Inspect various building components detailed in Section X.X.X.	Semi-Annually	Yes / No	Yes / No	—	
Test relief valve on receiver tank for proper operation.	Annually	Yes / No	Yes / No	—	
Inspect flow meters per Section X.X.X. Verify calibration.	Annually	Yes / No	Yes / No	—	
Calibrate EAD	Annually	Yes / No	Yes / No	—	

NOTE: Please check the manufacturer's instructions for the specific maintenance schedule and instructions.

Additional Comments: Drain Stormwater from storage tank containment after confirming no signs of petro. contamination.

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 1 of 4
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	*Lewis Drive, Belton, South Carolina*

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/22/2018 0645 MD	Scott Smith	Jake Crosby	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Exterior Components	(Units)	Optimal Level	Max Level	Arrival	Departure
System Operating	(Yes/No)	NA	NA	Yes	Yes
Air Compressor 1 Run Time	(hours)	NA	NA	5399:51	5406:50
Air Compressor 1 Load Time	(hours)	NA	NA	2783:49	2789:50
Air Compressor 1 Discharge Temp	(F)	~~60 - 100~~	~~110~~	180	183
Air Compressor 1 Pressure	(psig)	90 - 110	100	110	110
Air Compressor 2 Run Time	(hours)	NA	NA	3197:60	3204:08
Air Compressor 2 Load Time	(hours)	NA	NA	2225:20	2231:57
Air Compressor 2 Temp	(F)	60 - 100	110	180	198
Air Compressor 2 Pressure	(psig)	90 - 110	100	168	110
Receiver Tank Pressure	(psig)	90 - 110	100	112	111
Receiver Tank Temperature	(F)	60 - 100	110	N/A	N/A
Interior Manifold	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
Manifold Pressure	(psig)	90 - 110	100	110	110
Manifold Temperature	(F)	60 - 100	110	68	86
Manifold Flow Rate	(scfm)	TBD	TBD	1671	1671
Horizontal Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
HAS-1 Target Flow Rate	(scfm)	TBD	TBD	300.0	450.0
HAS-1 Actual Flow Rate	(scfm)	TBD	TBD	301.2	451.2
HAS-1 Valve Position	(%)	TBD	TBD	13.7	25.7
HAS-1 Pressure	(psig)	10 - 20	30	22	26
HAS-2 Target Flow Rate	(scfm)	TBD	TBD	287.0	430.0
HAS-2 Actual Flow Rate	(scfm)	TBD	TBD	284.1	422.9
HAS-2 Valve Position	(%)	TBD	TBD	23.0	32.0
HAS-2 Pressure	(psig)	10 - 20	30	24	29
HAS-3 Target Flow Rate	(scfm)	TBD	TBD	150.0	225.0
HAS-3 Actual Flow Rate	(scfm)	TBD	TBD	135.2	231.6
HAS-3 Valve Position	(%)	TBD	TBD	27.6	32.9
HAS-3 Pressure	(psig)	10 - 20	30	16	20

Parts Needed:	
Parts Installed:	

Notes (include alarms since previous visit):

- Not loading properly, will troubleshoot. Worked on this throughout day, now load/unload is operating normally
- All vertical wells adjusted close to 10 scfm after data collection.

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 2 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
11/22/2018 0945 1710	Scott Shiba	Jake Crosby	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-01 Flow Rate	(scfm)	TBD	TBD	8.6	
VAS-01 Pressure	(psig)	10 - 20	30	22	
VAS-02 Flow Rate	(scfm)	TBD	TBD	8.4	
VAS-02 Pressure	(psig)	10 - 20	30	10	
VAS-03 Flow Rate	(scfm)	TBD	TBD	9.2	
VAS-03 Pressure	(psig)	10 - 20	30	4	
VAS-04 Flow Rate	(scfm)	TBD	TBD	9.4	
VAS-04 Pressure	(psig)	10 - 20	30	2	
VAS-05 Flow Rate	(scfm)	TBD	TBD	7.3	
VAS-05 Pressure	(psig)	10 - 20	30	1	
VAS-06 Flow Rate	(scfm)	TBD	TBD	9.0	
VAS-06 Pressure	(psig)	10 - 20	30	2	
VAS-07 Flow Rate	(scfm)	TBD	TBD	8.1	
VAS-07 Pressure	(psig)	10 - 20	30	12	
VAS-08 Flow Rate	(scfm)	TBD	TBD	8.5	
VAS-08 Pressure	(psig)	10 - 20	30	11	
VAS-09 Flow Rate	(scfm)	TBD	TBD	8.9	
VAS-09 Pressure	(psig)	10 - 20	30	5	
VAS-10 Flow Rate	(scfm)	TBD	TBD	9.5	
VAS-10 Pressure	(psig)	10 - 20	30	5	
VAS-11 Flow Rate	(scfm)	TBD	TBD		10.6
VAS-11 Pressure	(psig)	10 - 20	30		9
VAS-12 Flow Rate	(scfm)	TBD	TBD		10.8
VAS-12 Pressure	(psig)	10 - 20	30		10
VAS-13 Flow Rate	(scfm)	TBD	TBD		9.9
VAS-13 Pressure	(psig)	10 - 20	30		11
VAS-14 Flow Rate	(scfm)	TBD	TBD		10.3
VAS-14 Pressure	(psig)	10 - 20	30		5
VAS-15 Flow Rate	(scfm)	TBD	TBD		10.2
VAS-15 Pressure	(psig)	10 - 20	30		1
VAS-16 Flow Rate	(scfm)	TBD	TBD		11.6
VAS-16 Pressure	(psig)	10 - 20	30		12
VAS-17 Flow Rate	(scfm)	TBD	TBD		11.2
VAS-17 Pressure	(psig)	10 - 20	30		2

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 3 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/22/2018 0945 1710	Scott Snider	Jake Crosby	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-18 Flow Rate	(scfm)	TBD	TBD	9.2	—
VAS-18 Pressure	(psig)	10 - 20	30	0	—
VAS-19 Flow Rate	(scfm)	TBD	TBD		12.3
VAS-19 Pressure	(psig)	10 - 20	30		12
VAS-20 Flow Rate	(scfm)	TBD	TBD		13.1
VAS-20 Pressure	(psig)	10 - 20	30		23
VAS-21 Flow Rate	(scfm)	TBD	TBD		12.3
VAS-21 Pressure	(psig)	10 - 20	30		22
VAS-22 Flow Rate	(scfm)	TBD	TBD		11.5
VAS-22 Pressure	(psig)	10 - 20	30		23
VAS-23 Flow Rate	(scfm)	TBD	TBD		11.4
VAS-23 Pressure	(psig)	10 - 20	30		20
VAS-24 Flow Rate	(scfm)	TBD	TBD		11.7
VAS-24 Pressure	(psig)	10 - 20	30		32
VAS-25 Flow Rate	(scfm)	TBD	TBD		12.1
VAS-25 Pressure	(psig)	10 - 20	30		18
VAS-26 Flow Rate	(scfm)	TBD	TBD		15.2
VAS-26 Pressure	(psig)	10 - 20	30		31
VAS-27 Flow Rate	(scfm)	TBD	TBD		15.0
VAS-27 Pressure	(psig)	10 - 20	30		35
VAS-28 Flow Rate	(scfm)	TBD	TBD		9.5
VAS-28 Pressure	(psig)	10 - 20	30		11
VAS-29 Flow Rate	(scfm)	TBD	TBD		10.2
VAS-29 Pressure	(psig)	10 - 20	30		10
VAS-30 Flow Rate	(scfm)	TBD	TBD		9.0
VAS-30 Pressure	(psig)	10 - 20	30		5
VAS-31 Flow Rate	(scfm)	TBD	TBD		11.3
VAS-31 Pressure	(psig)	10 - 20	30		30
VAS-32 Flow Rate	(scfm)	TBD	TBD		—
VAS-32 Pressure	(psig)	10 - 20	30		
VAS-33 Flow Rate	(scfm)	TBD	TBD		
VAS-33 Pressure	(psig)	10 - 20	30		
VAS-34 Flow Rate	(scfm)	TBD	TBD		
VAS-34 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 4 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
11/22/2018 0945 1710	Scott Smith	Jake Crosby	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-35 Flow Rate	(scfm)	TBD	TBD		
VAS-35 Pressure	(psig)	10 - 20	30		
VAS-36 Flow Rate	(scfm)	TBD	TBD		
VAS-36 Pressure	(psig)	10 - 20	30		
VAS-37 Flow Rate	(scfm)	TBD	TBD		
VAS-37 Pressure	(psig)	10 - 20	30		
VAS-38 Flow Rate	(scfm)	TBD	TBD		
VAS-38 Pressure	(psig)	10 - 20	30		
VAS-39 Flow Rate	(scfm)	TBD	TBD		
VAS-39 Pressure	(psig)	10 - 20	30		
VAS-40 Flow Rate	(scfm)	TBD	TBD		
VAS-40 Pressure	(psig)	10 - 20	30		
VAS-41 Flow Rate	(scfm)	TBD	TBD	9.3	
VAS-41 Pressure	(psig)	20-Oct	30	5	
VAS-42 Flow Rate	(scfm)	TBD	TBD	—	
VAS-42 Pressure	(psig)	10 - 20	30	—	
VAS-43 Flow Rate	(scfm)	TBD	TBD	7.4	
VAS-43 Pressure	(psig)	10 - 20	30	26	
VAS-44 Flow Rate	(scfm)	TBD	TBD	3.8	
VAS-44 Pressure	(psig)	10 - 20	30	38	
VAS-45 Flow Rate	(scfm)	TBD	TBD	9.3	
VAS-45 Pressure	(psig)	10 - 20	30	9	
Brown's Creek Aerators	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BCA-01 Flow Rate	(scfm)	TBD	TBD	14.0	14.9
BCA-01 Pressure	(psig)	0 - 5	5	17	17
BCA-02 Flow Rate	(scfm)	TBD	TBD	14.4	15.1
BCA-02 Pressure	(psig)	0 - 5	5	16	17
Bedrock Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BRS-01 Flow Rate	(scfm)	TBD	TBD		
BRS-01 Pressure	(psig)	10 - 20	30		
BRS-02 Flow Rate	(scfm)	TBD	TBD		
BRS-02 Pressure	(psig)	10 - 20	30		
BRS-03 Flow Rate	(scfm)	TBD	TBD		
BRS-03 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance Maintenance Log *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Discharge Permit and Expiration Date
1/29/2018 1030	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Site Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect condition of Brown's Creek.	Each visit	Yes / No	Yes / No	-see field book for details	
Perform air monitoring near Cupboard Creek.	Each visit	Yes / No	Yes / No		
Activate and inspect condition of receiver auto drain.	Each visit	Yes / No	Yes / No		
...	...				
...	...				

Equipment Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect receiver tank and discharge lines.	Monthly	Yes / No	Yes / No		
Inspect condensate system components. Drain and clean as needed.	Monthly	Yes / No	Yes / No		
Inspect the two fire extinguishers for signs of deterioration. Shake contents.	Monthly	Yes / No	Yes / No		
Coordinate with Airite to performed quarterly and annual PM on both machines.	Quarterly	Yes / No	Yes / No	March 2018	
Inspect various building components detailed in Section X.X.X.	Semi-Annually	Yes / No	Yes / No		
Test relief valve on receiver tank for proper operation.	Annually	Yes / No	Yes / No		
Inspect flow meters per Section X.X.X. Verify calibration.	Annually	Yes / No	Yes / No		
Calibrate EAD	Annually	Yes / No	Yes / No		

NOTE: Please check the manufacturer's instructions for the specific maintenance schedule and instructions.

Additional Comments:

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 1 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/29/2018 1030 1530	Scott Shipp		Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Exterior Components	(Units)	Optimal Level	Max Level	Arrival	Departure
System Operating	(Yes/No)	NA	NA	yes	Yes
Air Compressor 1 Run Time	(hours)	NA	NA	5568:26	5573:11
Air Compressor 1 Load Time	(hours)	NA	NA	2911:24	2915:22
Air Compressor 1 Discharge Temp	(F)	60 - 100	110	183	181
Air Compressor 1 Pressure	(psig)	90 - 110	100	111	111
Air Compressor 2 Run Time	(hours)	NA	NA	3365:44	3370:29
Air Compressor 2 Load Time	(hours)	NA	NA	2357:02	2361:14
Air Compressor 2 Temp	(F)	60 - 100	110	188	194
Air Compressor 2 Pressure	(psig)	90 - 110	100	110	110
Receiver Tank Pressure	(psig)	90 - 110	100	112	112
Receiver Tank Temperature	(F)	60 - 100	110	N/A	N/A
Interior Manifold	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
Manifold Pressure	(psig)	90 - 110	100	110	110
Manifold Temperature	(F)	60 - 100	110	77	77
Manifold Flow Rate	(scfm)	TBD	TBD	1643	1855
Horizontal Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
HAS-1 Target Flow Rate	(scfm)	TBD	TBD	450.0	487.5
HAS-1 Actual Flow Rate	(scfm)	TBD	TBD	447.3	491.4
HAS-1 Valve Position	(%)	TBD	TBD	19.7	28.8
HAS-1 Pressure	(psig)	10 - 20	30	25	26
HAS-2 Target Flow Rate	(scfm)	TBD	TBD	430.0	466.0
HAS-2 Actual Flow Rate	(scfm)	TBD	TBD	429.7	469.1
HAS-2 Valve Position	(%)	TBD	TBD	25.8	34.5
HAS-2 Pressure	(psig)	10 - 20	30	28	29
HAS-3 Target Flow Rate	(scfm)	TBD	TBD	225.0	244.0
HAS-3 Actual Flow Rate	(scfm)	TBD	TBD	220.7	233.7
HAS-3 Valve Position	(%)	TBD	TBD	28.2	30.3
HAS-3 Pressure	(psig)	10 - 20	30	18	20

Parts Needed:	
Parts Installed:	

Notes (include alarms since previous visit):

Compressor service is due ~ 700 Hrs

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 2 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/29/2018 1030 1530	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-01 Flow Rate	(scfm)	TBD	TBD	8.6	
VAS-01 Pressure	(psig)	10 - 20	30	22	
VAS-02 Flow Rate	(scfm)	TBD	TBD	10.0	
VAS-02 Pressure	(psig)	10 - 20	30	11	
VAS-03 Flow Rate	(scfm)	TBD	TBD	8.8	
VAS-03 Pressure	(psig)	10 - 20	30	5	
VAS-04 Flow Rate	(scfm)	TBD	TBD	9.4	
VAS-04 Pressure	(psig)	10 - 20	30	2	
VAS-05 Flow Rate	(scfm)	TBD	TBD	11.4	
VAS-05 Pressure	(psig)	10 - 20	30	3	
VAS-06 Flow Rate	(scfm)	TBD	TBD	9.1	
VAS-06 Pressure	(psig)	10 - 20	30	4	
VAS-07 Flow Rate	(scfm)	TBD	TBD	8.6	
VAS-07 Pressure	(psig)	10 - 20	30	14	
VAS-08 Flow Rate	(scfm)	TBD	TBD	8.7	
VAS-08 Pressure	(psig)	10 - 20	30	12	
VAS-09 Flow Rate	(scfm)	TBD	TBD	9.5	
VAS-09 Pressure	(psig)	10 - 20	30	4	
VAS-10 Flow Rate	(scfm)	TBD	TBD	9.3	
VAS-10 Pressure	(psig)	10 - 20	30	4	
VAS-11 Flow Rate	(scfm)	TBD	TBD		9.1
VAS-11 Pressure	(psig)	10 - 20	30		11
VAS-12 Flow Rate	(scfm)	TBD	TBD		9.7
VAS-12 Pressure	(psig)	10 - 20	30		10
VAS-13 Flow Rate	(scfm)	TBD	TBD		8.1
VAS-13 Pressure	(psig)	10 - 20	30		13
VAS-14 Flow Rate	(scfm)	TBD	TBD		9.7
VAS-14 Pressure	(psig)	10 - 20	30		5
VAS-15 Flow Rate	(scfm)	TBD	TBD		10.1
VAS-15 Pressure	(psig)	10 - 20	30		1
VAS-16 Flow Rate	(scfm)	TBD	TBD		8.2
VAS-16 Pressure	(psig)	10 - 20	30		12
VAS-17 Flow Rate	(scfm)	TBD	TBD		8.7
VAS-17 Pressure	(psig)	10 - 20	30		8

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 3 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/29/2018 1630 1530	Scott Smida	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-18 Flow Rate	(scfm)	TBD	TBD	9.2	—
VAS-18 Pressure	(psig)	10 - 20	30	0	—
VAS-19 Flow Rate	(scfm)	TBD	TBD		8.0
VAS-19 Pressure	(psig)	10 - 20	30		11
VAS-20 Flow Rate	(scfm)	TBD	TBD		7.6
VAS-20 Pressure	(psig)	10 - 20	30		22
VAS-21 Flow Rate	(scfm)	TBD	TBD		7.3
VAS-21 Pressure	(psig)	10 - 20	30		21
VAS-22 Flow Rate	(scfm)	TBD	TBD		6.9
VAS-22 Pressure	(psig)	10 - 20	30		23
VAS-23 Flow Rate	(scfm)	TBD	TBD		8.9
VAS-23 Pressure	(psig)	10 - 20	30		20
VAS-24 Flow Rate	(scfm)	TBD	TBD		8.2
VAS-24 Pressure	(psig)	10 - 20	30		31
VAS-25 Flow Rate	(scfm)	TBD	TBD		8.1
VAS-25 Pressure	(psig)	10 - 20	30		18
VAS-26 Flow Rate	(scfm)	TBD	TBD		6.0
VAS-26 Pressure	(psig)	10 - 20	30		28
VAS-27 Flow Rate	(scfm)	TBD	TBD		9.6
VAS-27 Pressure	(psig)	10 - 20	30		12
VAS-28 Flow Rate	(scfm)	TBD	TBD		9.4
VAS-28 Pressure	(psig)	10 - 20	30		12
VAS-29 Flow Rate	(scfm)	TBD	TBD		9.4
VAS-29 Pressure	(psig)	10 - 20	30		12
VAS-30 Flow Rate	(scfm)	TBD	TBD		9.4
VAS-30 Pressure	(psig)	10 - 20	30		5
VAS-31 Flow Rate	(scfm)	TBD	TBD		10.7
VAS-31 Pressure	(psig)	10 - 20	30		28
VAS-32 Flow Rate	(scfm)	TBD	TBD		—
VAS-32 Pressure	(psig)	10 - 20	30		
VAS-33 Flow Rate	(scfm)	TBD	TBD		
VAS-33 Pressure	(psig)	10 - 20	30		
VAS-34 Flow Rate	(scfm)	TBD	TBD		
VAS-34 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 4 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
1/29/2018 1030 1530	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-35 Flow Rate	(scfm)	TBD	TBD		
VAS-35 Pressure	(psig)	10 - 20	30		
VAS-36 Flow Rate	(scfm)	TBD	TBD		
VAS-36 Pressure	(psig)	10 - 20	30		
VAS-37 Flow Rate	(scfm)	TBD	TBD		
VAS-37 Pressure	(psig)	10 - 20	30		
VAS-38 Flow Rate	(scfm)	TBD	TBD		
VAS-38 Pressure	(psig)	10 - 20	30		
VAS-39 Flow Rate	(scfm)	TBD	TBD		
VAS-39 Pressure	(psig)	10 - 20	30		
VAS-40 Flow Rate	(scfm)	TBD	TBD		
VAS-40 Pressure	(psig)	10 - 20	30		
VAS-41 Flow Rate	(scfm)	TBD	TBD	9.4	
VAS-41 Pressure	(psig)	20-Oct	30	5	
VAS-42 Flow Rate	(scfm)	TBD	TBD	—	
VAS-42 Pressure	(psig)	10 - 20	30	—	
VAS-43 Flow Rate	(scfm)	TBD	TBD	7.7	
VAS-43 Pressure	(psig)	10 - 20	30	29	
VAS-44 Flow Rate	(scfm)	TBD	TBD	3.6	
VAS-44 Pressure	(psig)	10 - 20	30	36	
VAS-45 Flow Rate	(scfm)	TBD	TBD	8.6	
VAS-45 Pressure	(psig)	10 - 20	30	8	
Brown's Creek Aerators	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BCA-01 Flow Rate	(scfm)	TBD	TBD	14.8	14.7
BCA-01 Pressure	(psig)	0 - 5	5	18	18
BCA-02 Flow Rate	(scfm)	TBD	TBD	14.6	14.7
BCA-02 Pressure	(psig)	0 - 5	5	18	18
Bedrock Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BRS-01 Flow Rate	(scfm)	TBD	TBD		
BRS-01 Pressure	(psig)	10 - 20	30		
BRS-02 Flow Rate	(scfm)	TBD	TBD		
BRS-02 Pressure	(psig)	10 - 20	30		
BRS-03 Flow Rate	(scfm)	TBD	TBD		
BRS-03 Pressure	(psig)	10 - 20	30		

Adjustments not made to increase flows because pressures are high.

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance Maintenance Log *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Discharge Permit and Expiration Date
2/5/2018 11:15	Scott Smith		Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Site Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect condition of Brown's Creek.	Each visit	(Yes) / No	Yes / No	→ see field notes for details	
Perform air monitoring near Cupboard Creek.	Each visit	(Yes) / No	Yes / No		
Activate and inspect condition of receiver auto drain.	Each visit	(Yes) / No	Yes / No		
...	...				
...	...				

Equipment Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect receiver tank and discharge lines.	Monthly	(Yes) / No	Yes / No		
Inspect condensate system components. Drain and clean as needed.	Monthly	(Yes) / No	Yes / No		
Inspect the two fire extinguishers for signs of deterioration. Shake contents.	Monthly	(Yes) / No	Yes / No		
Coordinate with Airite to performed quarterly and annual PM on both machines.	Quarterly	(Yes) / No	Yes / No	March	
Inspect various building components detailed in Section X.X.X.	Semi-Annually	~~Yes~~ / No	Yes / No		
Test relief valve on receiver tank for proper operation.	Annually	~~Yes~~ / No	Yes / No		
Inspect flow meters per Section X.X.X. Verify calibration.	Annually	Yes / No	~~Yes~~ / No		
Calibrate EAD	Annually	Yes / No	~~Yes~~ / No		

NOTE: Please check the manufacturer's instructions for the specific maintenance schedule and instructions.

Additional Comments:

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 1 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
2/5/2018 1115 1415	Scott Smida	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Exterior Components	(Units)	Optimal Level	Max Level	Arrival	Departure
System Operating	(Yes/No)	NA	NA	yes	yes
Air Compressor 1 Run Time	(hours)	NA	NA	5737:12	5739:55
Air Compressor 1 Load Time	(hours)	NA	NA	3060:13	3062:40
Air Compressor 1 Discharge Temp	(F)	60 - 100	110	185	186
Air Compressor 1 Pressure	(psig)	90 - 110	100	110	110
Air Compressor 2 Run Time	(hours)	NA	NA	3534:08	3536:48
Air Compressor 2 Load Time	(hours)	NA	NA	2511:35	2514:12
Air Compressor 2 Temp	(F)	60 - 100	110	187	191
Air Compressor 2 Pressure	(psig)	90 - 110	100	110	
Receiver Tank Pressure	(psig)	90 - 110	100	112	112
Receiver Tank Temperature	(F)	60 - 100	110	NA	N/A
Interior Manifold	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
Manifold Pressure	(psig)	90 - 110	100	110	110
Manifold Temperature	(F)	60 - 100	110	72	72
Manifold Flow Rate	(scfm)	TBD	TBD	1881	1870
Horizontal Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
HAS-1 Target Flow Rate	(scfm)	TBD	TBD	487.5	525.0
HAS-1 Actual Flow Rate	(scfm)	TBD	TBD	500.5	514.4
HAS-1 Valve Position	(%)	TBD	TBD	29.8	41.9
HAS-1 Pressure	(psig)	10 - 20	30	26	27
HAS-2 Target Flow Rate	(scfm)	TBD	TBD	466.0	562.0
HAS-2 Actual Flow Rate	(scfm)	TBD	TBD	458.1	516.0
HAS-2 Valve Position	(%)	TBD	TBD	32.2	39.0
HAS-2 Pressure	(psig)	10 - 20	30	29	30
HAS-3 Target Flow Rate	(scfm)	TBD	TBD	244.0	262.5
HAS-3 Actual Flow Rate	(scfm)	TBD	TBD	250.9	285.4
HAS-3 Valve Position	(%)	TBD	TBD	28.6	26.7
HAS-3 Pressure	(psig)	10 - 20	30	20	20

Parts Needed:	
Parts Installed:	

Notes (include alarms since previous visit):

→ Sparge wells adjusted close to target flows after data collected

HAS01 SCF = 78161744.5

HAS02 SCF = 44242450.5

HAS03 SCF = 39075050.0

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 2 of 4
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	*Lewis Drive, Belton, South Carolina*

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
2/5/2018 1415	Scott Smith		Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-01 Flow Rate	(scfm)	TBD	TBD	8.9	
VAS-01 Pressure	(psig)	10 - 20	30	23	
VAS-02 Flow Rate	(scfm)	TBD	TBD	9.9	
VAS-02 Pressure	(psig)	10 - 20	30	12	
VAS-03 Flow Rate	(scfm)	TBD	TBD	9.7	
VAS-03 Pressure	(psig)	10 - 20	30	5	
VAS-04 Flow Rate	(scfm)	TBD	TBD	9.3	
VAS-04 Pressure	(psig)	10 - 20	30	2	
VAS-05 Flow Rate	(scfm)	TBD	TBD	9.4	
VAS-05 Pressure	(psig)	10 - 20	30	4	
VAS-06 Flow Rate	(scfm)	TBD	TBD	10.3	
VAS-06 Pressure	(psig)	10 - 20	30	4	
VAS-07 Flow Rate	(scfm)	TBD	TBD	8.9	
VAS-07 Pressure	(psig)	10 - 20	30	15	
VAS-08 Flow Rate	(scfm)	TBD	TBD	8.8	
VAS-08 Pressure	(psig)	10 - 20	30	14	
VAS-09 Flow Rate	(scfm)	TBD	TBD	9.1	
VAS-09 Pressure	(psig)	10 - 20	30	5	
VAS-10 Flow Rate	(scfm)	TBD	TBD	9.3	
VAS-10 Pressure	(psig)	10 - 20	30	6	
VAS-11 Flow Rate	(scfm)	TBD	TBD		10.5
VAS-11 Pressure	(psig)	10 - 20	30		12
VAS-12 Flow Rate	(scfm)	TBD	TBD		9.9
VAS-12 Pressure	(psig)	10 - 20	30		11
VAS-13 Flow Rate	(scfm)	TBD	TBD		9.9
VAS-13 Pressure	(psig)	10 - 20	30		14
VAS-14 Flow Rate	(scfm)	TBD	TBD		10.1
VAS-14 Pressure	(psig)	10 - 20	30		5
VAS-15 Flow Rate	(scfm)	TBD	TBD		9.7
VAS-15 Pressure	(psig)	10 - 20	30		2
VAS-16 Flow Rate	(scfm)	TBD	TBD		10.0
VAS-16 Pressure	(psig)	10 - 20	30		16
VAS-17 Flow Rate	(scfm)	TBD	TBD		9.8
VAS-17 Pressure	(psig)	10 - 20	30		10

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 3 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
2/5/18 1115 1415	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-18 Flow Rate	(scfm)	TBD	TBD	10.2	—
VAS-18 Pressure	(psig)	10 - 20	30	1	—
VAS-19 Flow Rate	(scfm)	TBD	TBD	—	10.1
VAS-19 Pressure	(psig)	10 - 20	30		13
VAS-20 Flow Rate	(scfm)	TBD	TBD		9.6
VAS-20 Pressure	(psig)	10 - 20	30		28
VAS-21 Flow Rate	(scfm)	TBD	TBD		9.7
VAS-21 Pressure	(psig)	10 - 20	30		23
VAS-22 Flow Rate	(scfm)	TBD	TBD		9.5
VAS-22 Pressure	(psig)	10 - 20	30		29
VAS-23 Flow Rate	(scfm)	TBD	TBD		9.4
VAS-23 Pressure	(psig)	10 - 20	30		21
VAS-24 Flow Rate	(scfm)	TBD	TBD		8.6
VAS-24 Pressure	(psig)	10 - 20	30		32
VAS-25 Flow Rate	(scfm)	TBD	TBD		9.3
VAS-25 Pressure	(psig)	10 - 20	30		20
VAS-26 Flow Rate	(scfm)	TBD	TBD		8.8
VAS-26 Pressure	(psig)	10 - 20	30		31
VAS-27 Flow Rate	(scfm)	TBD	TBD		5.6
VAS-27 Pressure	(psig)	10 - 20	30		32
VAS-28 Flow Rate	(scfm)	TBD	TBD		9.4
VAS-28 Pressure	(psig)	10 - 20	30		11
VAS-29 Flow Rate	(scfm)	TBD	TBD		9.7
VAS-29 Pressure	(psig)	10 - 20	30		11
VAS-30 Flow Rate	(scfm)	TBD	TBD		9.5
VAS-30 Pressure	(psig)	10 - 20	30		7
VAS-31 Flow Rate	(scfm)	TBD	TBD		10.3
VAS-31 Pressure	(psig)	10 - 20	30		24
VAS-32 Flow Rate	(scfm)	TBD	TBD		—
VAS-32 Pressure	(psig)	10 - 20	30		
VAS-33 Flow Rate	(scfm)	TBD	TBD		
VAS-33 Pressure	(psig)	10 - 20	30		
VAS-34 Flow Rate	(scfm)	TBD	TBD		
VAS-34 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 4 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
2/5/18 1115 1415	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-35 Flow Rate	(scfm)	TBD	TBD		
VAS-35 Pressure	(psig)	10 - 20	30		
VAS-36 Flow Rate	(scfm)	TBD	TBD		
VAS-36 Pressure	(psig)	10 - 20	30		
VAS-37 Flow Rate	(scfm)	TBD	TBD		
VAS-37 Pressure	(psig)	10 - 20	30		
VAS-38 Flow Rate	(scfm)	TBD	TBD		
VAS-38 Pressure	(psig)	10 - 20	30		
VAS-39 Flow Rate	(scfm)	TBD	TBD		
VAS-39 Pressure	(psig)	10 - 20	30		
VAS-40 Flow Rate	(scfm)	TBD	TBD		
VAS-40 Pressure	(psig)	10 - 20	30		
VAS-41 Flow Rate	(scfm)	TBD	TBD	9.7	
VAS-41 Pressure	(psig)	20-Oct	30	6	
VAS-42 Flow Rate	(scfm)	TBD	TBD	—	
VAS-42 Pressure	(psig)	10 - 20	30	—	
VAS-43 Flow Rate	(scfm)	TBD	TBD	8.4	
VAS-43 Pressure	(psig)	10 - 20	30	28	
VAS-44 Flow Rate	(scfm)	TBD	TBD	4.1	
VAS-44 Pressure	(psig)	10 - 20	30	36	
VAS-45 Flow Rate	(scfm)	TBD	TBD	8.8	
VAS-45 Pressure	(psig)	10 - 20	30	9	
Brown's Creek Aerators	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BCA-01 Flow Rate	(scfm)	TBD	TBD	15.2	14.5
BCA-01 Pressure	(psig)	0 - 5	5	19	18
BCA-02 Flow Rate	(scfm)	TBD	TBD	14.5	14.8
BCA-02 Pressure	(psig)	0 - 5	5	18	17
Bedrock Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BRS-01 Flow Rate	(scfm)	TBD	TBD		
BRS-01 Pressure	(psig)	10 - 20	30		
BRS-02 Flow Rate	(scfm)	TBD	TBD		
BRS-02 Pressure	(psig)	10 - 20	30		
BRS-03 Flow Rate	(scfm)	TBD	TBD		
BRS-03 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance Maintenance Log *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Discharge Permit and Expiration Date
2/12/2018 1330	Scott Smith	Tyler Hall	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Site Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect condition of Brown's Creek.	Each visit	(Yes) / No	Yes / No	→ See field book for air monitoring	
Perform air monitoring near Cupboard Creek.	Each visit	(Yes) / No	Yes / No	tabulis	
Activate and inspect condition of receiver auto drain.	Each visit	(Yes) / No	Yes / No		
...	...				
...	...				

Equipment Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect receiver tank and discharge lines.	Monthly	(Yes) / No	Yes / No		
Inspect condensate system components. Drain and clean as needed.	Monthly	(Yes) / No	Yes / No		
Inspect the two fire extinguishers for signs of deterioration. Shake contents.	Monthly	(Yes) / No	Yes / No		
Coordinate with Airite to performed quarterly and annual PM on both machines.	Quarterly	(Yes) / No	Yes / No	→ See below comments	
Inspect various building components detailed in Section X.X.X.	Semi-Annually	~~Yes / No~~	~~Yes~~ / No		
Test relief valve on receiver tank for proper operation.	Annually	~~Yes~~ / No	~~Yes~~ / No		
Inspect flow meters per Section X.X.X. Verify calibration.	Annually	Yes / ~~No~~	~~Yes~~ / No		
Calibrate EAD	Annually	Yes / ~~No~~	~~Yes~~ / No		

NOTE: Please check the manufacturer's instructions for the specific maintenance schedule and instructions.

Additional Comments: Airite onsite to troubleshoot loading issues. Find problem w/ ACTH / inlet valve. Suspect bad seals, will need to rebuild.

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 1 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
2/12/2018 1330	Scott Snider	Tyler Hall	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Exterior Components	(Units)	Optimal Level	Max Level	Arrival	Departure
System Operating	(Yes/No)	NA	NA	Yes	
Air Compressor 1 Run Time	(hours)	NA	NA	5906:48	
Air Compressor 1 Load Time	(hours)	NA	NA	3221:46	
Air Compressor 1 Discharge Temp	(F)	60 - 100	110	182	
Air Compressor 1 Pressure	(psig)	90 - 110	100	44	
Air Compressor 2 Run Time	(hours)	NA	NA	3704:12	
Air Compressor 2 Load Time	(hours)	NA	NA	2680:18	
Air Compressor 2 Temp	(F)	60 - 100	110	198	
Air Compressor 2 Pressure	(psig)	90 - 110	100	45	
Receiver Tank Pressure	(psig)	90 - 110	100	48	
Receiver Tank Temperature	(F)	60 - 100	110	N/A	
Interior Manifold	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
Manifold Pressure	(psig)	90 - 110	100	40	
Manifold Temperature	(F)	60 - 100	110	90	
Manifold Flow Rate	(scfm)	TBD	TBD	1884	
Horizontal Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
HAS-1 Target Flow Rate	(scfm)	TBD	TBD	525.0	
HAS-1 Actual Flow Rate	(scfm)	TBD	TBD	525.5	
HAS-1 Valve Position	(%)	TBD	TBD	52.9	
HAS-1 Pressure	(psig)	10 - 20	30	26	
HAS-2 Target Flow Rate	(scfm)	TBD	TBD	502.0	
HAS-2 Actual Flow Rate	(scfm)	TBD	TBD	501.0	
HAS-2 Valve Position	(%)	TBD	TBD	50.5	
HAS-2 Pressure	(psig)	10 - 20	30	28	
HAS-3 Target Flow Rate	(scfm)	TBD	TBD	262.5	
HAS-3 Actual Flow Rate	(scfm)	TBD	TBD	263.5	
HAS-3 Valve Position	(%)	TBD	TBD	30.1	
HAS-3 Pressure	(psig)	10 - 20	30	19	

Parts Needed:	
Parts Installed:	

Notes (include alarms since previous visit):

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 2 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
2/12/2018 1330	Scott Shiloh	Tyler Hall	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-01 Flow Rate	(scfm)	TBD	TBD		
VAS-01 Pressure	(psig)	10 - 20	30		
VAS-02 Flow Rate	(scfm)	TBD	TBD		
VAS-02 Pressure	(psig)	10 - 20	30		
VAS-03 Flow Rate	(scfm)	TBD	TBD		
VAS-03 Pressure	(psig)	10 - 20	30		
VAS-04 Flow Rate	(scfm)	TBD	TBD		
VAS-04 Pressure	(psig)	10 - 20	30		
VAS-05 Flow Rate	(scfm)	TBD	TBD		
VAS-05 Pressure	(psig)	10 - 20	30		
VAS-06 Flow Rate	(scfm)	TBD	TBD		
VAS-06 Pressure	(psig)	10 - 20	30		
VAS-07 Flow Rate	(scfm)	TBD	TBD		
VAS-07 Pressure	(psig)	10 - 20	30		
VAS-08 Flow Rate	(scfm)	TBD	TBD		
VAS-08 Pressure	(psig)	10 - 20	30		
VAS-09 Flow Rate	(scfm)	TBD	TBD		
VAS-09 Pressure	(psig)	10 - 20	30		
VAS-10 Flow Rate	(scfm)	TBD	TBD		
VAS-10 Pressure	(psig)	10 - 20	30		
VAS-11 Flow Rate	(scfm)	TBD	TBD	9.4	
VAS-11 Pressure	(psig)	10 - 20	30	12	
VAS-12 Flow Rate	(scfm)	TBD	TBD	9.1	
VAS-12 Pressure	(psig)	10 - 20	30	10	
VAS-13 Flow Rate	(scfm)	TBD	TBD	8.3	
VAS-13 Pressure	(psig)	10 - 20	30	12	
VAS-14 Flow Rate	(scfm)	TBD	TBD	9.4	
VAS-14 Pressure	(psig)	10 - 20	30	8	
VAS-15 Flow Rate	(scfm)	TBD	TBD	8.4	
VAS-15 Pressure	(psig)	10 - 20	30	2	
VAS-16 Flow Rate	(scfm)	TBD	TBD	11.2	
VAS-16 Pressure	(psig)	10 - 20	30	12	
VAS-17 Flow Rate	(scfm)	TBD	TBD	9.3	
VAS-17 Pressure	(psig)	10 - 20	30	4	

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 3 of 4
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	*Lewis Drive, Belton, South Carolina*

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
2/12/2018 1330	Scott Smith	Tyler Hall	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-18 Flow Rate	(scfm)	TBD	TBD	—	
VAS-18 Pressure	(psig)	10 - 20	30	—	
VAS-19 Flow Rate	(scfm)	TBD	TBD	9.5	
VAS-19 Pressure	(psig)	10 - 20	30	12	
VAS-20 Flow Rate	(scfm)	TBD	TBD	9.1	
VAS-20 Pressure	(psig)	10 - 20	30	24	
VAS-21 Flow Rate	(scfm)	TBD	TBD	8.7	
VAS-21 Pressure	(psig)	10 - 20	30	22	
VAS-22 Flow Rate	(scfm)	TBD	TBD	8.5	
VAS-22 Pressure	(psig)	10 - 20	30	24	
VAS-23 Flow Rate	(scfm)	TBD	TBD	8.2	
VAS-23 Pressure	(psig)	10 - 20	30	20	
VAS-24 Flow Rate	(scfm)	TBD	TBD	4.6	
VAS-24 Pressure	(psig)	10 - 20	30	31	
VAS-25 Flow Rate	(scfm)	TBD	TBD	8.7	
VAS-25 Pressure	(psig)	10 - 20	30	18	
VAS-26 Flow Rate	(scfm)	TBD	TBD	8.6	
VAS-26 Pressure	(psig)	10 - 20	30	30	
VAS-27 Flow Rate	(scfm)	TBD	TBD	7.0	
VAS-27 Pressure	(psig)	10 - 20	30	30	
VAS-28 Flow Rate	(scfm)	TBD	TBD	8.9	
VAS-28 Pressure	(psig)	10 - 20	30	11	
VAS-29 Flow Rate	(scfm)	TBD	TBD	8.8	
VAS-29 Pressure	(psig)	10 - 20	30	11	
VAS-30 Flow Rate	(scfm)	TBD	TBD	8.5	
VAS-30 Pressure	(psig)	10 - 20	30	4	
VAS-31 Flow Rate	(scfm)	TBD	TBD	8.3	
VAS-31 Pressure	(psig)	10 - 20	30	24	
VAS-32 Flow Rate	(scfm)	TBD	TBD	—	
VAS-32 Pressure	(psig)	10 - 20	30		
VAS-33 Flow Rate	(scfm)	TBD	TBD		
VAS-33 Pressure	(psig)	10 - 20	30		
VAS-34 Flow Rate	(scfm)	TBD	TBD		
VAS-34 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 4 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
2/12/2018 1330	Scott Smith	Tyler Hall	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-35 Flow Rate	(scfm)	TBD	TBD		
VAS-35 Pressure	(psig)	10 - 20	30		
VAS-36 Flow Rate	(scfm)	TBD	TBD		
VAS-36 Pressure	(psig)	10 - 20	30		
VAS-37 Flow Rate	(scfm)	TBD	TBD		
VAS-37 Pressure	(psig)	10 - 20	30		
VAS-38 Flow Rate	(scfm)	TBD	TBD		
VAS-38 Pressure	(psig)	10 - 20	30		
VAS-39 Flow Rate	(scfm)	TBD	TBD		
VAS-39 Pressure	(psig)	10 - 20	30		
VAS-40 Flow Rate	(scfm)	TBD	TBD		
VAS-40 Pressure	(psig)	10 - 20	30		
VAS-41 Flow Rate	(scfm)	TBD	TBD		
VAS-41 Pressure	(psig)	20-Oct	30		
VAS-42 Flow Rate	(scfm)	TBD	TBD		
VAS-42 Pressure	(psig)	10 - 20	30		
VAS-43 Flow Rate	(scfm)	TBD	TBD		
VAS-43 Pressure	(psig)	10 - 20	30		
VAS-44 Flow Rate	(scfm)	TBD	TBD		
VAS-44 Pressure	(psig)	10 - 20	30		
VAS-45 Flow Rate	(scfm)	TBD	TBD		
VAS-45 Pressure	(psig)	10 - 20	30		
Brown's Creek Aerators	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BCA-01 Flow Rate	(scfm)	TBD	TBD	12.8	
BCA-01 Pressure	(psig)	0 - 5	5	15	
BCA-02 Flow Rate	(scfm)	TBD	TBD	13.2	
BCA-02 Pressure	(psig)	0 - 5	5	15	
Bedrock Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BRS-01 Flow Rate	(scfm)	TBD	TBD		
BRS-01 Pressure	(psig)	10 - 20	30		
BRS-02 Flow Rate	(scfm)	TBD	TBD		
BRS-02 Pressure	(psig)	10 - 20	30		
BRS-03 Flow Rate	(scfm)	TBD	TBD		
BRS-03 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance Maintenance Log *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Discharge Permit and Expiration Date
2/19/2018 1815	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Site Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect condition of Brown's Creek.	Each visit	(Yes) / No	Yes / No	See field book for details	
Perform air monitoring near Cupboard Creek.	Each visit	(Yes) / No	Yes / No	"	
Activate and inspect condition of receiver auto drain.	Each visit	(Yes) / No	Yes / No		
...	...				
...	...				
Equipment Maintenance	**Frequency**	**Conditions Good?**	**Repaired/Replaced?**	**Scheduled**	**Comment**
Inspect receiver tank and discharge lines.	Monthly	(Yes) / No	Yes / No		
Inspect condensate system components. Drain and clean as needed.	Monthly	(Yes) / No	Yes / No		
Inspect the two fire extinguishers for signs of deterioration. Shake contents.	Monthly	(Yes) / No	Yes / No		
Coordinate with Airite to performed quarterly and annual PM on both machines.	Quarterly	(Yes) / No	Yes / No	6/2018	
Inspect various building components detailed in Section X.X.X.	Semi-Annually	Yes / No	Yes / No	—	
Test relief valve on receiver tank for proper operation.	Annually	Yes / No	Yes / No	—	
Inspect flow meters per Section X.X.X. Verify calibration.	Annually	Yes / No	Yes / No	—	
Calibrate EAD	Annually	Yes / No	Yes / No	—	

NOTE: Please check the manufacturer's instructions for the specific maintenance schedule and instructions.

Additional Comments:
- cleaned several VRS solenoid valves that have been sticking, will monitor to see if cleaning worked
- Turned AC#1 exhaust hood 180°, and re-installed pointing away from AC#2

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 1 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
2/19/2018 1010 1615	Scott Sanford	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Exterior Components	(Units)	Optimal Level	Max Level	Arrival	Departure
System Operating	(Yes/No)	NA	NA	Yes	Yes
Air Compressor 1 Run Time	(hours)	NA	NA	6671:11	6672:43
Air Compressor 1 Load Time	(hours)	NA	NA	3301:36	3382:43
Air Compressor 1 Discharge Temp	(F)	60 - 100	110	—	181
Air Compressor 1 Pressure	(psig)	90 - 110	100	—	104
Air Compressor 2 Run Time	(hours)	NA	NA	3848:34	3849:50
Air Compressor 2 Load Time	(hours)	NA	NA	1844:22	2845:4
Air Compressor 2 Temp	(F)	60 - 100	110		180
Air Compressor 2 Pressure	(psig)	90 - 110	100		106
Receiver Tank Pressure	(psig)	90 - 110	100		111
Receiver Tank Temperature	(F)	60 - 100	110		—
Interior Manifold	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
Manifold Pressure	(psig)	90 - 110	100		105
Manifold Temperature	(F)	60 - 100	110		68
Manifold Flow Rate	(scfm)	TBD	TBD		1738
Horizontal Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
HAS-1 Target Flow Rate	(scfm)	TBD	TBD		525.0
HAS-1 Actual Flow Rate SCF = 888113685.1	(scfm)	TBD	TBD		526.6
HAS-1 Valve Position	(%)	TBD	TBD		15.4
HAS-1 Pressure	(psig)	10 - 20	30		20
HAS-2 Target Flow Rate	(scfm)	TBD	TBD		502.6
HAS-2 Actual Flow Rate SCF = 742166553	(scfm)	TBD	TBD		503.1
HAS-2 Valve Position	(%)	TBD	TBD		23.4
HAS-2 Pressure	(psig)	10 - 20	30		22
HAS-3 Target Flow Rate	(scfm)	TBD	TBD		262.5
HAS-3 Actual Flow Rate SCF = 443155538.6	(scfm)	TBD	TBD		261.8
HAS-3 Valve Position	(%)	TBD	TBD		28.0
HAS-3 Pressure	(psig)	10 - 20	30		17

Parts Needed:	
Parts Installed:	ACH1 Inlet VALVE REBUILD KIT (AIKITE)

Notes (include alarms since previous visit):

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance Maintenance Log *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Discharge Permit and Expiration Date
2/26/2018 0800			Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Site Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect condition of Brown's Creek.	Each visit	(Yes) / No	Yes / No	*See field book for air monitoring details	
Perform air monitoring near Cupboard Creek.	Each visit	(Yes) / No	Yes / No		
Activate and inspect condition of receiver auto drain.	Each visit	(Yes) / No	Yes / No		
...	...				
...	...				

Equipment Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect receiver tank and discharge lines.	Monthly	(Yes) / No	Yes / No		
Inspect condensate system components. Drain and clean as needed.	Monthly	(Yes) / No	Yes / No		
Inspect the two fire extinguishers for signs of deterioration. Shake contents.	Monthly	(Yes) / No	Yes / No		
Coordinate with Airite to performed quarterly and annual PM on both machines.	Quarterly	~~Yes / No~~	~~Yes / No~~		
Inspect various building components detailed in Section X.X.X.	Semi-Annually	~~Yes / No~~	~~Yes / No~~		
Test relief valve on receiver tank for proper operation.	Annually	~~Yes / No~~	~~Yes / No~~		
Inspect flow meters per Section X.X.X. Verify calibration.	Annually	Yes / No	Yes / No		
Calibrate EAD	Annually	Yes / No	Yes / No		

NOTE: Please check the manufacturer's instructions for the specific maintenance schedule and instructions.

Additional Comments: ~~Plant~~ screen went inactive, not allowing remote connection. Required re boot. Remote connection now working.

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 1 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
2/26/2018 0900	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Exterior Components	(Units)	Optimal Level	Max Level	Arrival	Departure
System Operating	(Yes/No)	NA	NA	Yes	
Air Compressor 1 Run Time	(hours)	NA	NA	6231:86	
Air Compressor 1 Load Time	(hours)	NA	NA	3541:36	
Air Compressor 1 Discharge Temp	(F)	60 - 100	110	182	
Air Compressor 1 Pressure	(psig)	90 - 110	100	88	
Air Compressor 2 Run Time	(hours)	NA	NA	4028:44	
Air Compressor 2 Load Time	(hours)	NA	NA	3004:09	
Air Compressor 2 Temp	(F)	60 - 100	110	182	
Air Compressor 2 Pressure	(psig)	90 - 110	100	89	
Receiver Tank Pressure	(psig)	90 - 110	100	95	
Receiver Tank Temperature	(F)	60 - 100	110	N/A	
Interior Manifold	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
Manifold Pressure	(psig)	90 - 110	100	87	
Manifold Temperature	(F)	60 - 100	110	74	
Manifold Flow Rate	(scfm)	TBD	TBD	1918	
Horizontal Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
HAS-1 Target Flow Rate	(scfm)	TBD	TBD	525.0	
HAS-1 Actual Flow Rate	(scfm)	TBD	TBD	521.0	
HAS-1 Valve Position	(%)	TBD	TBD	24.5	
HAS-1 Pressure	(psig)	10 - 20	30	24	
HAS-2 Target Flow Rate	(scfm)	TBD	TBD	502.0	
HAS-2 Actual Flow Rate	(scfm)	TBD	TBD	506.1	
HAS-2 Valve Position	(%)	TBD	TBD	31.9	
HAS-2 Pressure	(psig)	10 - 20	30	30	
HAS-3 Target Flow Rate	(scfm)	TBD	TBD	262.5	
HAS-3 Actual Flow Rate	(scfm)	TBD	TBD	258.7	
HAS-3 Valve Position	(%)	TBD	TBD	30.5	
HAS-3 Pressure	(psig)	10 - 20	30	20	

Parts Needed:	
Parts Installed:	

Notes (include alarms since previous visit):

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 2 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
2/14/2018 0930	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-01 Flow Rate	(scfm)	TBD	TBD	7.2	
VAS-01 Pressure	(psig)	10 - 20	30	22	
VAS-02 Flow Rate	(scfm)	TBD	TBD	8.8	
VAS-02 Pressure	(psig)	10 - 20	30	13	
VAS-03 Flow Rate	(scfm)	TBD	TBD	8.9	
VAS-03 Pressure	(psig)	10 - 20	30	8	
VAS-04 Flow Rate	(scfm)	TBD	TBD	9.8	
VAS-04 Pressure	(psig)	10 - 20	30	2	
VAS-05 Flow Rate	(scfm)	TBD	TBD	9.7	
VAS-05 Pressure	(psig)	10 - 20	30	3	
VAS-06 Flow Rate	(scfm)	TBD	TBD	8.7	
VAS-06 Pressure	(psig)	10 - 20	30	5	
VAS-07 Flow Rate	(scfm)	TBD	TBD	9.5	
VAS-07 Pressure	(psig)	10 - 20	30	16	
VAS-08 Flow Rate	(scfm)	TBD	TBD	8.8	
VAS-08 Pressure	(psig)	10 - 20	30	14	
VAS-09 Flow Rate	(scfm)	TBD	TBD	10.1	
VAS-09 Pressure	(psig)	10 - 20	30	4	
VAS-10 Flow Rate	(scfm)	TBD	TBD	9.0	
VAS-10 Pressure	(psig)	10 - 20	30	5	
VAS-11 Flow Rate	(scfm)	TBD	TBD		
VAS-11 Pressure	(psig)	10 - 20	30		
VAS-12 Flow Rate	(scfm)	TBD	TBD		
VAS-12 Pressure	(psig)	10 - 20	30		
VAS-13 Flow Rate	(scfm)	TBD	TBD		
VAS-13 Pressure	(psig)	10 - 20	30		
VAS-14 Flow Rate	(scfm)	TBD	TBD		
VAS-14 Pressure	(psig)	10 - 20	30		
VAS-15 Flow Rate	(scfm)	TBD	TBD		
VAS-15 Pressure	(psig)	10 - 20	30		
VAS-16 Flow Rate	(scfm)	TBD	TBD		
VAS-16 Pressure	(psig)	10 - 20	30		
VAS-17 Flow Rate	(scfm)	TBD	TBD		
VAS-17 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 3 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
2/14/2018 0900	Scott Shapp	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-18 Flow Rate	(scfm)	TBD	TBD	10.2	
VAS-18 Pressure	(psig)	10 - 20	30	0	
VAS-19 Flow Rate	(scfm)	TBD	TBD		
VAS-19 Pressure	(psig)	10 - 20	30		
VAS-20 Flow Rate	(scfm)	TBD	TBD		
VAS-20 Pressure	(psig)	10 - 20	30		
VAS-21 Flow Rate	(scfm)	TBD	TBD		
VAS-21 Pressure	(psig)	10 - 20	30		
VAS-22 Flow Rate	(scfm)	TBD	TBD	14.5	
VAS-22 Pressure	(psig)	10 - 20	30	24	
VAS-23 Flow Rate	(scfm)	TBD	TBD	11.2	
VAS-23 Pressure	(psig)	10 - 20	30	20	
VAS-24 Flow Rate	(scfm)	TBD	TBD	18.1	
VAS-24 Pressure	(psig)	10 - 20	30	28	
VAS-25 Flow Rate	(scfm)	TBD	TBD		
VAS-25 Pressure	(psig)	10 - 20	30		
VAS-26 Flow Rate	(scfm)	TBD	TBD		
VAS-26 Pressure	(psig)	10 - 20	30		
VAS-27 Flow Rate	(scfm)	TBD	TBD		
VAS-27 Pressure	(psig)	10 - 20	30		
VAS-28 Flow Rate	(scfm)	TBD	TBD		
VAS-28 Pressure	(psig)	10 - 20	30		
VAS-29 Flow Rate	(scfm)	TBD	TBD		
VAS-29 Pressure	(psig)	10 - 20	30		
VAS-30 Flow Rate	(scfm)	TBD	TBD		
VAS-30 Pressure	(psig)	10 - 20	30		
VAS-31 Flow Rate	(scfm)	TBD	TBD		
VAS-31 Pressure	(psig)	10 - 20	30		
VAS-32 Flow Rate	(scfm)	TBD	TBD	10.4	
VAS-32 Pressure	(psig)	10 - 20	30	16	
VAS-33 Flow Rate	(scfm)	TBD	TBD	17.8	
VAS-33 Pressure	(psig)	10 - 20	30	20	
VAS-34 Flow Rate	(scfm)	TBD	TBD	13.0	
VAS-34 Pressure	(psig)	10 - 20	30	26	

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 4 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
2/26/2018 0900	Scott Smith		Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-35 Flow Rate	(scfm)	TBD	TBD		
VAS-35 Pressure	(psig)	10 - 20	30		
VAS-36 Flow Rate	(scfm)	TBD	TBD		
VAS-36 Pressure	(psig)	10 - 20	30		
VAS-37 Flow Rate	(scfm)	TBD	TBD		
VAS-37 Pressure	(psig)	10 - 20	30		
VAS-38 Flow Rate	(scfm)	TBD	TBD		
VAS-38 Pressure	(psig)	10 - 20	30		
VAS-39 Flow Rate	(scfm)	TBD	TBD		
VAS-39 Pressure	(psig)	10 - 20	30		
VAS-40 Flow Rate	(scfm)	TBD	TBD		
VAS-40 Pressure	(psig)	10 - 20	30		
VAS-41 Flow Rate	(scfm)	TBD	TBD	9.6	
VAS-41 Pressure	(psig)	20-Oct	30	8	
VAS-42 Flow Rate	(scfm)	TBD	TBD	9.5	
VAS-42 Pressure	(psig)	10 - 20	30	12	
VAS-43 Flow Rate	(scfm)	TBD	TBD	11.4	
VAS-43 Pressure	(psig)	10 - 20	30	27	
VAS-44 Flow Rate	(scfm)	TBD	TBD	1.9	
VAS-44 Pressure	(psig)	10 - 20	30	38	
VAS-45 Flow Rate	(scfm)	TBD	TBD	8.8	
VAS-45 Pressure	(psig)	10 - 20	30	16	
Brown's Creek Aerators	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BCA-01 Flow Rate	(scfm)	TBD	TBD	14.3	
BCA-01 Pressure	(psig)	0 - 5	5	18	
BCA-02 Flow Rate	(scfm)	TBD	TBD	14.4	
BCA-02 Pressure	(psig)	0 - 5	5	18	
Bedrock Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BRS-01 Flow Rate	(scfm)	TBD	TBD		
BRS-01 Pressure	(psig)	10 - 20	30		
BRS-02 Flow Rate	(scfm)	TBD	TBD		
BRS-02 Pressure	(psig)	10 - 20	30		
BRS-03 Flow Rate	(scfm)	TBD	TBD		
BRS-03 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance Maintenance Log *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Discharge Permit and Expiration Date
3/5/2018 1040	Scott Smith	Chris Carruthers	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Site Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect condition of Brown's Creek.	Each visit	Yes / No	Yes / No		
Perform air monitoring near Cupboard Creek.	Each visit	Yes / No	Yes / No		
Activate and inspect condition of receiver auto drain.	Each visit	Yes / No	Yes / No		
...	...				
...	...				
Equipment Maintenance	**Frequency**	**Conditions Good?**	**Repaired/Replaced?**	**Scheduled**	**Comment**
Inspect receiver tank and discharge lines.	Monthly	Yes / No	Yes / No		
Inspect condensate system components. Drain and clean as needed.	Monthly	Yes / No	Yes / No		
Inspect the two fire extinguishers for signs of deterioration. Shake contents.	Monthly	Yes / No	Yes / No		
Coordinate with Airite to performed quarterly and annual PM on both machines.	Quarterly	~~Yes / No~~	Yes / No		
Inspect various building components detailed in Section X.X.X.	Semi-Annually	~~Yes / No~~	Yes / No		
Test relief valve on receiver tank for proper operation.	Annually	~~Yes / No~~	Yes / No		
Inspect flow meters per Section X.X.X. Verify calibration.	Annually	~~Yes~~ / No	Yes / No		
Calibrate EAD	Annually	Yes / No	Yes / No		

NOTE: Please check the manufacturer's instructions for the specific maintenance schedule and instructions.

Additional Comments:

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 1 of 4
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	*Lewis Drive, Belton, South Carolina*

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/5/2018 1040	Scott Smith	Chris Carrabba	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Exterior Components	(Units)	Optimal Level	Max Level	Arrival	Departure
System Operating	(Yes/No)	NA	NA	yes	
Air Compressor 1 Run Time	(hours)	NA	NA	6401:14	
Air Compressor 1 Load Time	(hours)	NA	NA	3711:12	
Air Compressor 1 Discharge Temp	(F)	60 - 100	110	183	
Air Compressor 1 Pressure	(psig)	90 - 110	100	104	
Air Compressor 2 Run Time	(hours)	NA	NA	4198:22	
Air Compressor 2 Load Time	(hours)	NA	NA	3173:47	
Air Compressor 2 Temp	(F)	60 - 100	110	181	
Air Compressor 2 Pressure	(psig)	90 - 110	100	165	
Receiver Tank Pressure	(psig)	90 - 110	100	110	
Receiver Tank Temperature	(F)	60 - 100	110	N/A	
Interior Manifold	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
Manifold Pressure	(psig)	90 - 110	100	105	
Manifold Temperature	(F)	60 - 100	110	71	
Manifold Flow Rate	(scfm)	TBD	TBD	1920	
Horizontal Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
HAS-1 Target Flow Rate	(scfm)	TBD	TBD	525.0	
HAS-1 Actual Flow Rate	(scfm)	TBD	TBD	526.9	
HAS-1 Valve Position	(%)	TBD	TBD	13.4	
HAS-1 Pressure	(psig)	10 - 20	30	20	
HAS-2 Target Flow Rate	(scfm)	TBD	TBD	502.0	
HAS-2 Actual Flow Rate	(scfm)	TBD	TBD	501.4	
HAS-2 Valve Position	(%)	TBD	TBD	24.4	
HAS-2 Pressure	(psig)	10 - 20	30	28	
HAS-3 Target Flow Rate	(scfm)	TBD	TBD	262.5	
HAS-3 Actual Flow Rate	(scfm)	TBD	TBD	264.4	
HAS-3 Valve Position	(%)	TBD	TBD	28.6	
HAS-3 Pressure	(psig)	10 - 20	30	20	

Parts Needed:	
Parts Installed:	

Notes (include alarms since previous visit):

→ After data collection VAS wells adjusted to 10 SCFM because they have dried out.

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 2 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/5/2018 1640	Scott Smith	Chris Carradine	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-01 Flow Rate	(scfm)	TBD	TBD	10.2	
VAS-01 Pressure	(psig)	10 - 20	30	13	
VAS-02 Flow Rate	(scfm)	TBD	TBD	8.2	
VAS-02 Pressure	(psig)	10 - 20	30	15	
VAS-03 Flow Rate	(scfm)	TBD	TBD	8.5	
VAS-03 Pressure	(psig)	10 - 20	30	10	
VAS-04 Flow Rate	(scfm)	TBD	TBD	9.7	
VAS-04 Pressure	(psig)	10 - 20	30	2	
VAS-05 Flow Rate	(scfm)	TBD	TBD	7.2	
VAS-05 Pressure	(psig)	10 - 20	30	3	
VAS-06 Flow Rate	(scfm)	TBD	TBD	8.6	
VAS-06 Pressure	(psig)	10 - 20	30	5	
VAS-07 Flow Rate	(scfm)	TBD	TBD	8.4	
VAS-07 Pressure	(psig)	10 - 20	30	18	
VAS-08 Flow Rate	(scfm)	TBD	TBD	7.9	
VAS-08 Pressure	(psig)	10 - 20	30	18	
VAS-09 Flow Rate	(scfm)	TBD	TBD	9.8	
VAS-09 Pressure	(psig)	10 - 20	30	8	
VAS-10 Flow Rate	(scfm)	TBD	TBD	7.1	
VAS-10 Pressure	(psig)	10 - 20	30	11	
VAS-11 Flow Rate	(scfm)	TBD	TBD	10.6	
VAS-11 Pressure	(psig)	10 - 20	30	16	
VAS-12 Flow Rate	(scfm)	TBD	TBD	10.1	
VAS-12 Pressure	(psig)	10 - 20	30	11	
VAS-13 Flow Rate	(scfm)	TBD	TBD		
VAS-13 Pressure	(psig)	10 - 20	30		
VAS-14 Flow Rate	(scfm)	TBD	TBD		
VAS-14 Pressure	(psig)	10 - 20	30		
VAS-15 Flow Rate	(scfm)	TBD	TBD		
VAS-15 Pressure	(psig)	10 - 20	30		
VAS-16 Flow Rate	(scfm)	TBD	TBD		
VAS-16 Pressure	(psig)	10 - 20	30		
VAS-17 Flow Rate	(scfm)	TBD	TBD		
VAS-17 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 3 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/5/2018 1040	Scott Smith	Chris Cavanaugh	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-18 Flow Rate	(scfm)	TBD	TBD		
VAS-18 Pressure	(psig)	10 - 20	30		
VAS-19 Flow Rate	(scfm)	TBD	TBD		
VAS-19 Pressure	(psig)	10 - 20	30		
VAS-20 Flow Rate	(scfm)	TBD	TBD	11.5	
VAS-20 Pressure	(psig)	10 - 20	30	28	
VAS-21 Flow Rate	(scfm)	TBD	TBD	9.1	
VAS-21 Pressure	(psig)	10 - 20	30	24	
VAS-22 Flow Rate	(scfm)	TBD	TBD	15.3	
VAS-22 Pressure	(psig)	10 - 20	30	25	
VAS-23 Flow Rate	(scfm)	TBD	TBD	11.7	
VAS-23 Pressure	(psig)	10 - 20	30	22	
VAS-24 Flow Rate	(scfm)	TBD	TBD	16.9	
VAS-24 Pressure	(psig)	10 - 20	30	25	
VAS-25 Flow Rate	(scfm)	TBD	TBD	8.2	
VAS-25 Pressure	(psig)	10 - 20	30	23	
VAS-26 Flow Rate	(scfm)	TBD	TBD	6.7	
VAS-26 Pressure	(psig)	10 - 20	30	33	
VAS-27 Flow Rate	(scfm)	TBD	TBD	8.3	
VAS-27 Pressure	(psig)	10 - 20	30	32	
VAS-28 Flow Rate	(scfm)	TBD	TBD	8.6	
VAS-28 Pressure	(psig)	10 - 20	30	24	
VAS-29 Flow Rate	(scfm)	TBD	TBD	9.9	
VAS-29 Pressure	(psig)	10 - 20	30	13	
VAS-30 Flow Rate	(scfm)	TBD	TBD	9.5	
VAS-30 Pressure	(psig)	10 - 20	30	7	
VAS-31 Flow Rate	(scfm)	TBD	TBD	11.9	
VAS-31 Pressure	(psig)	10 - 20	30	27	
VAS-32 Flow Rate	(scfm)	TBD	TBD	10.5	
VAS-32 Pressure	(psig)	10 - 20	30	17	
VAS-33 Flow Rate	(scfm)	TBD	TBD	18.8	
VAS-33 Pressure	(psig)	10 - 20	30	22	
VAS-34 Flow Rate	(scfm)	TBD	TBD	13.3	
VAS-34 Pressure	(psig)	10 - 20	30	2	

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 4 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/5/2018 1040	Scott Snyder	Chris Carrabba	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-35 Flow Rate	(scfm)	TBD	TBD		
VAS-35 Pressure	(psig)	10 - 20	30		
VAS-36 Flow Rate	(scfm)	TBD	TBD		
VAS-36 Pressure	(psig)	10 - 20	30		
VAS-37 Flow Rate	(scfm)	TBD	TBD		
VAS-37 Pressure	(psig)	10 - 20	30		
VAS-38 Flow Rate	(scfm)	TBD	TBD		
VAS-38 Pressure	(psig)	10 - 20	30		
VAS-39 Flow Rate	(scfm)	TBD	TBD		
VAS-39 Pressure	(psig)	10 - 20	30		
VAS-40 Flow Rate	(scfm)	TBD	TBD		
VAS-40 Pressure	(psig)	10 - 20	30		
VAS-41 Flow Rate	(scfm)	TBD	TBD		
VAS-41 Pressure	(psig)	20-Oct	30		
VAS-42 Flow Rate	(scfm)	TBD	TBD	10.3	
VAS-42 Pressure	(psig)	10 - 20	30	13	
VAS-43 Flow Rate	(scfm)	TBD	TBD		
VAS-43 Pressure	(psig)	10 - 20	30		
VAS-44 Flow Rate	(scfm)	TBD	TBD		
VAS-44 Pressure	(psig)	10 - 20	30		
VAS-45 Flow Rate	(scfm)	TBD	TBD		
VAS-45 Pressure	(psig)	10 - 20	30		
Brown's Creek Aerators	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BCA-01 Flow Rate	(scfm)	TBD	TBD	14.6	
BCA-01 Pressure	(psig)	0 - 5	5	19	
BCA-02 Flow Rate	(scfm)	TBD	TBD	14.7	
BCA-02 Pressure	(psig)	0 - 5	5	18	
Bedrock Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BRS-01 Flow Rate	(scfm)	TBD	TBD		
BRS-01 Pressure	(psig)	10 - 20	30		
BRS-02 Flow Rate	(scfm)	TBD	TBD		
BRS-02 Pressure	(psig)	10 - 20	30		
BRS-03 Flow Rate	(scfm)	TBD	TBD		
BRS-03 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance Maintenance Log *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Discharge Permit and Expiration Date
3/12/2018 1015	SCOTT SMITH	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Site Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect condition of Brown's Creek.	Each visit	Yes / No	Yes / No	→ see field book	for subs.
Perform air monitoring near Cupboard Creek.	Each visit	Yes / No	Yes / No		
Activate and inspect condition of receiver auto drain.	Each visit	Yes / No	Yes / No		
…	…				
…	…				

Equipment Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect receiver tank and discharge lines.	Monthly	Yes / No	Yes / No		
Inspect condensate system components. Drain and clean as needed.	Monthly	Yes / No	Yes / No		
Inspect the two fire extinguishers for signs of deterioration. Shake contents.	Monthly	Yes / No	Yes / No		
Coordinate with Airite to performed quarterly and annual PM on both machines.	Quarterly	Yes / No	Yes / No		
Inspect various building components detailed in Section X.X.X.	Semi-Annually	Yes / No	Yes / No		
Test relief valve on receiver tank for proper operation.	Annually	Yes / No	Yes / No		
Inspect flow meters per Section X.X.X. Verify calibration.	Annually	Yes / No	Yes / No		
Calibrate EAD	Annually	Yes / No	Yes / No		

NOTE: Please check the manufacturer's instructions for the specific maintenance schedule and instructions.

Additional Comments:

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 1 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/12/2018 1015	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Exterior Components	(Units)	Optimal Level	Max Level	Arrival	Departure
System Operating	(Yes/No)	NA	NA	YES	
Air Compressor 1 Run Time	(hours)	NA	NA	6567:53	
Air Compressor 1 Load Time	(hours)	NA	NA	3876:27	
Air Compressor 1 Discharge Temp	(F)	60 - 100	110	181	
Air Compressor 1 Pressure	(psig)	90 - 110	100	106	
Air Compressor 2 Run Time	(hours)	NA	NA	4365:00	
Air Compressor 2 Load Time	(hours)	NA	NA	3340:14	
Air Compressor 2 Temp	(F)	60 - 100	110	179	
Air Compressor 2 Pressure	(psig)	90 - 110	100	167	
Receiver Tank Pressure	(psig)	90 - 110	100	116	
Receiver Tank Temperature	(F)	60 - 100	110	N/A	
Interior Manifold	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
Manifold Pressure	(psig)	90 - 110	100	106	
Manifold Temperature	(F)	60 - 100	110	60	
Manifold Flow Rate	(scfm)	TBD	TBD	10	
Horizontal Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
HAS-1 Target Flow Rate	(scfm)	TBD	TBD	525.6	
HAS-1 Actual Flow Rate	(scfm)	TBD	TBD	521.7	
HAS-1 Valve Position	(%)	TBD	TBD	10.3	
HAS-1 Pressure	(psig)	10 - 20	30	25	
HAS-2 Target Flow Rate	(scfm)	TBD	TBD	502.6	
HAS-2 Actual Flow Rate	(scfm)	TBD	TBD	505.7	
HAS-2 Valve Position	(%)	TBD	TBD	24.1	
HAS-2 Pressure	(psig)	10 - 20	30	28	
HAS-3 Target Flow Rate	(scfm)	TBD	TBD	262.5	
HAS-3 Actual Flow Rate	(scfm)	TBD	TBD	261.9	
HAS-3 Valve Position	(%)	TBD	TBD	28.4	
HAS-3 Pressure	(psig)	10 - 20	30	19	

Parts Needed:	
Parts Installed:	

Notes (include alarms since previous visit):

→ Following data collection all operating vertical wells adjusted to 10 SCFM unless pressures are very high, then they were left to operate as is.

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 2 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/12/2018 1015	Scott Simon	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-01 Flow Rate	(scfm)	TBD	TBD		
VAS-01 Pressure	(psig)	10 - 20	30		
VAS-02 Flow Rate	(scfm)	TBD	TBD		
VAS-02 Pressure	(psig)	10 - 20	30		
VAS-03 Flow Rate	(scfm)	TBD	TBD		
VAS-03 Pressure	(psig)	10 - 20	30		
VAS-04 Flow Rate	(scfm)	TBD	TBD		
VAS-04 Pressure	(psig)	10 - 20	30		
VAS-05 Flow Rate	(scfm)	TBD	TBD		
VAS-05 Pressure	(psig)	10 - 20	30		
VAS-06 Flow Rate	(scfm)	TBD	TBD		
VAS-06 Pressure	(psig)	10 - 20	30		
VAS-07 Flow Rate	(scfm)	TBD	TBD		
VAS-07 Pressure	(psig)	10 - 20	30		
VAS-08 Flow Rate	(scfm)	TBD	TBD		
VAS-08 Pressure	(psig)	10 - 20	30		
VAS-09 Flow Rate	(scfm)	TBD	TBD		
VAS-09 Pressure	(psig)	10 - 20	30		
VAS-10 Flow Rate	(scfm)	TBD	TBD		
VAS-10 Pressure	(psig)	10 - 20	30		
VAS-11 Flow Rate	(scfm)	TBD	TBD		
VAS-11 Pressure	(psig)	10 - 20	30		
VAS-12 Flow Rate	(scfm)	TBD	TBD		
VAS-12 Pressure	(psig)	10 - 20	30		
VAS-13 Flow Rate	(scfm)	TBD	TBD		
VAS-13 Pressure	(psig)	10 - 20	30		
VAS-14 Flow Rate	(scfm)	TBD	TBD		
VAS-14 Pressure	(psig)	10 - 20	30		
VAS-15 Flow Rate	(scfm)	TBD	TBD		
VAS-15 Pressure	(psig)	10 - 20	30		
VAS-16 Flow Rate	(scfm)	TBD	TBD		
VAS-16 Pressure	(psig)	10 - 20	30		
VAS-17 Flow Rate	(scfm)	TBD	TBD		
VAS-17 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 3 of 4
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	*Lewis Drive, Belton, South Carolina*

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/12/2018 10:15	Scott Shiloh	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-18 Flow Rate	(scfm)	TBD	TBD		
VAS-18 Pressure	(psig)	10 - 20	30		
VAS-19 Flow Rate	(scfm)	TBD	TBD		
VAS-19 Pressure	(psig)	10 - 20	30		
VAS-20 Flow Rate	(scfm)	TBD	TBD		
VAS-20 Pressure	(psig)	10 - 20	30		
VAS-21 Flow Rate	(scfm)	TBD	TBD		
VAS-21 Pressure	(psig)	10 - 20	30		
VAS-22 Flow Rate	(scfm)	TBD	TBD	8.6	
VAS-22 Pressure	(psig)	10 - 20	30	22	
VAS-23 Flow Rate	(scfm)	TBD	TBD	11.9	
VAS-23 Pressure	(psig)	10 - 20	30	22	
VAS-24 Flow Rate	(scfm)	TBD	TBD	4.3	
VAS-24 Pressure	(psig)	10 - 20	30	22	
VAS-25 Flow Rate	(scfm)	TBD	TBD		
VAS-25 Pressure	(psig)	10 - 20	30		
VAS-26 Flow Rate	(scfm)	TBD	TBD		
VAS-26 Pressure	(psig)	10 - 20	30		
VAS-27 Flow Rate	(scfm)	TBD	TBD		
VAS-27 Pressure	(psig)	10 - 20	30		
VAS-28 Flow Rate	(scfm)	TBD	TBD		
VAS-28 Pressure	(psig)	10 - 20	30		
VAS-29 Flow Rate	(scfm)	TBD	TBD		
VAS-29 Pressure	(psig)	10 - 20	30		
VAS-30 Flow Rate	(scfm)	TBD	TBD		
VAS-30 Pressure	(psig)	10 - 20	30		
VAS-31 Flow Rate	(scfm)	TBD	TBD		
VAS-31 Pressure	(psig)	10 - 20	30		
VAS-32 Flow Rate	(scfm)	TBD	TBD	10.7	
VAS-32 Pressure	(psig)	10 - 20	30	17	
VAS-33 Flow Rate	(scfm)	TBD	TBD	7.5	
VAS-33 Pressure	(psig)	10 - 20	30	16	
VAS-34 Flow Rate	(scfm)	TBD	TBD	11.5	
VAS-34 Pressure	(psig)	10 - 20	30	20	

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 4 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/12/2018 1015	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-35 Flow Rate	(scfm)	TBD	TBD		
VAS-35 Pressure	(psig)	10 - 20	30		
VAS-36 Flow Rate	(scfm)	TBD	TBD		
VAS-36 Pressure	(psig)	10 - 20	30		
VAS-37 Flow Rate	(scfm)	TBD	TBD		
VAS-37 Pressure	(psig)	10 - 20	30		
VAS-38 Flow Rate	(scfm)	TBD	TBD		
VAS-38 Pressure	(psig)	10 - 20	30		
VAS-39 Flow Rate	(scfm)	TBD	TBD		
VAS-39 Pressure	(psig)	10 - 20	30		
VAS-40 Flow Rate	(scfm)	TBD	TBD		
VAS-40 Pressure	(psig)	10 - 20	30		
VAS-41 Flow Rate	(scfm)	TBD	TBD	10.1	
VAS-41 Pressure	(psig)	20-Oct	30	11	
VAS-42 Flow Rate	(scfm)	TBD	TBD	10.6	
VAS-42 Pressure	(psig)	10 - 20	30	13	
VAS-43 Flow Rate	(scfm)	TBD	TBD	5.1	
VAS-43 Pressure	(psig)	10 - 20	30	33	
VAS-44 Flow Rate	(scfm)	TBD	TBD	2.9	
VAS-44 Pressure	(psig)	10 - 20	30	39	
VAS-45 Flow Rate	(scfm)	TBD	TBD	8.4	
VAS-45 Pressure	(psig)	10 - 20	30	13	
Brown's Creek Aerators	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BCA-01 Flow Rate	(scfm)	TBD	TBD	14.9	
BCA-01 Pressure	(psig)	0 - 5	5	19	
BCA-02 Flow Rate	(scfm)	TBD	TBD	14.7	
BCA-02 Pressure	(psig)	0 - 5	5	18	
Bedrock Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BRS-01 Flow Rate	(scfm)	TBD	TBD		
BRS-01 Pressure	(psig)	10 - 20	30		
BRS-02 Flow Rate	(scfm)	TBD	TBD		
BRS-02 Pressure	(psig)	10 - 20	30		
BRS-03 Flow Rate	(scfm)	TBD	TBD		
BRS-03 Pressure	(psig)	10 - 20	30		

NOT working

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance Maintenance Log *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Discharge Permit and Expiration Date
3/19/2018 1000	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Site Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect condition of Brown's Creek.	Each visit	(Yes) / No	Yes / No		
Perform air monitoring near Cupboard Creek.	Each visit	Yes / (No)	Yes / No		
Activate and inspect condition of receiver auto drain.	Each visit	(Yes) / No	Yes / No		
...	...				
...	...				

Equipment Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect receiver tank and discharge lines.	Monthly	(Yes) / No	Yes / No		
Inspect condensate system components. Drain and clean as needed.	Monthly	(Yes) / No	Yes / No		
Inspect the two fire extinguishers for signs of deterioration. Shake contents.	Monthly	(Yes) / No	Yes / No		
Coordinate with Airite to performed quarterly and annual PM on both machines.	Quarterly	~~Yes / No~~	~~Yes / No~~		
Inspect various building components detailed in Section X.X.X.	Semi-Annually	~~Yes~~ / No	~~Yes~~ / No		
Test relief valve on receiver tank for proper operation.	Annually	~~Yes~~ / No	~~Yes~~ / No		
Inspect flow meters per Section X.X.X. Verify calibration.	Annually	Yes / No	Yes / No		
Calibrate EAD	Annually	Yes / ~~No~~	Yes / No		

NOTE: Please check the manufacturer's instructions for the specific maintenance schedule and instructions.

Additional Comments:

- Clean air intake filters on compressors
- Change coalescing filters, gaskets on hand hole covers were unable to be reinstalled. Very bad condition. System will be down until new gaskets come in.

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 1 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/19/2018 1000 1700	Scott Smalley		Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Exterior Components	(Units)	Optimal Level	Max Level	Arrival	Departure
System Operating	(Yes/No)	NA	NA	Yes	* NO *
Air Compressor 1 Run Time	(hours)	NA	NA	6735:35	
Air Compressor 1 Load Time	(hours)	NA	NA	4642:55	
Air Compressor 1 Discharge Temp	(F)	60 - 100	110	183	
Air Compressor 1 Pressure	(psig)	90 - 110	100	104	
Air Compressor 2 Run Time	(hours)	NA	NA	4532:42	
Air Compressor 2 Load Time	(hours)	NA	NA	3507:08	
Air Compressor 2 Temp	(F)	60 - 100	110	182	
Air Compressor 2 Pressure	(psig)	90 - 110	100	106	
Receiver Tank Pressure	(psig)	90 - 110	100	112	
Receiver Tank Temperature	(F)	60 - 100	110	N/A	
Interior Manifold	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
Manifold Pressure	(psig)	90 - 110	100	108	
Manifold Temperature	(F)	60 - 100	110	77	
Manifold Flow Rate	(scfm)	TBD	TBD	1744	
Horizontal Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
HAS-1 Target Flow Rate	(scfm)	TBD	TBD	475.0	
HAS-1 Actual Flow Rate	(scfm)	TBD	TBD	421.0	
HAS-1 Valve Position	(%)	TBD	TBD	9.3	
HAS-1 Pressure	(psig)	10 - 20	30	22	
HAS-2 Target Flow Rate	(scfm)	TBD	TBD	562.0	
HAS-2 Actual Flow Rate	(scfm)	TBD	TBD	501.0	
HAS-2 Valve Position	(%)	TBD	TBD	24.1	
HAS-2 Pressure	(psig)	10 - 20	30	27	
HAS-3 Target Flow Rate	(scfm)	TBD	TBD	262.5	
HAS-3 Actual Flow Rate	(scfm)	TBD	TBD	261.5	
HAS-3 Valve Position	(%)	TBD	TBD	30.4	
HAS-3 Pressure	(psig)	10 - 20	30	19	

Parts Needed:	
Parts Installed:	

Notes (include alarms since previous visit):

** Down because bad gaskets in inline coalescing filter housings. Will restart once new gaskets received.

Site Name	Site Location	Project Manager	Project Engineer	**Biosparging Operation and Maintenance System Data Log 2 of 4** *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/19/2018 1006	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-01 Flow Rate	(scfm)	TBD	TBD		
VAS-01 Pressure	(psig)	10 - 20	30		
VAS-02 Flow Rate	(scfm)	TBD	TBD		
VAS-02 Pressure	(psig)	10 - 20	30		
VAS-03 Flow Rate	(scfm)	TBD	TBD		
VAS-03 Pressure	(psig)	10 - 20	30		
VAS-04 Flow Rate	(scfm)	TBD	TBD		
VAS-04 Pressure	(psig)	10 - 20	30		
VAS-05 Flow Rate	(scfm)	TBD	TBD		
VAS-05 Pressure	(psig)	10 - 20	30		
VAS-06 Flow Rate	(scfm)	TBD	TBD		
VAS-06 Pressure	(psig)	10 - 20	30		
VAS-07 Flow Rate	(scfm)	TBD	TBD		
VAS-07 Pressure	(psig)	10 - 20	30		
VAS-08 Flow Rate	(scfm)	TBD	TBD		
VAS-08 Pressure	(psig)	10 - 20	30		
VAS-09 Flow Rate	(scfm)	TBD	TBD		
VAS-09 Pressure	(psig)	10 - 20	30		
VAS-10 Flow Rate	(scfm)	TBD	TBD		
VAS-10 Pressure	(psig)	10 - 20	30		
VAS-11 Flow Rate	(scfm)	TBD	TBD		
VAS-11 Pressure	(psig)	10 - 20	30		
VAS-12 Flow Rate	(scfm)	TBD	TBD		
VAS-12 Pressure	(psig)	10 - 20	30		
VAS-13 Flow Rate	(scfm)	TBD	TBD		
VAS-13 Pressure	(psig)	10 - 20	30		
VAS-14 Flow Rate	(scfm)	TBD	TBD		
VAS-14 Pressure	(psig)	10 - 20	30		
VAS-15 Flow Rate	(scfm)	TBD	TBD		
VAS-15 Pressure	(psig)	10 - 20	30		
VAS-16 Flow Rate	(scfm)	TBD	TBD		
VAS-16 Pressure	(psig)	10 - 20	30		
VAS-17 Flow Rate	(scfm)	TBD	TBD		
VAS-17 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 3 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/19/2018 1000	SCOTT SULLIVAN	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-18 Flow Rate	(scfm)	TBD	TBD		
VAS-18 Pressure	(psig)	10 - 20	30		
VAS-19 Flow Rate	(scfm)	TBD	TBD		
VAS-19 Pressure	(psig)	10 - 20	30		
VAS-20 Flow Rate	(scfm)	TBD	TBD		
VAS-20 Pressure	(psig)	10 - 20	30		
VAS-21 Flow Rate	(scfm)	TBD	TBD		
VAS-21 Pressure	(psig)	10 - 20	30		
VAS-22 Flow Rate	(scfm)	TBD	TBD	10.0	
VAS-22 Pressure	(psig)	10 - 20	30	22	
VAS-23 Flow Rate	(scfm)	TBD	TBD	9.8	
VAS-23 Pressure	(psig)	10 - 20	30	19	
VAS-24 Flow Rate	(scfm)	TBD	TBD	8.7	
VAS-24 Pressure	(psig)	10 - 20	30	27	
VAS-25 Flow Rate	(scfm)	TBD	TBD		
VAS-25 Pressure	(psig)	10 - 20	30		
VAS-26 Flow Rate	(scfm)	TBD	TBD		
VAS-26 Pressure	(psig)	10 - 20	30		
VAS-27 Flow Rate	(scfm)	TBD	TBD		
VAS-27 Pressure	(psig)	10 - 20	30		
VAS-28 Flow Rate	(scfm)	TBD	TBD		
VAS-28 Pressure	(psig)	10 - 20	30		
VAS-29 Flow Rate	(scfm)	TBD	TBD		
VAS-29 Pressure	(psig)	10 - 20	30		
VAS-30 Flow Rate	(scfm)	TBD	TBD		
VAS-30 Pressure	(psig)	10 - 20	30		
VAS-31 Flow Rate	(scfm)	TBD	TBD		
VAS-31 Pressure	(psig)	10 - 20	30		
VAS-32 Flow Rate	(scfm)	TBD	TBD	9.4	
VAS-32 Pressure	(psig)	10 - 20	30	16	
VAS-33 Flow Rate	(scfm)	TBD	TBD	16.9	
VAS-33 Pressure	(psig)	10 - 20	30	17	
VAS-34 Flow Rate	(scfm)	TBD	TBD	9.4	
VAS-34 Pressure	(psig)	10 - 20	30	19	

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 4 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/19/2018 1600	Scott Smith		Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-35 Flow Rate	(scfm)	TBD	TBD		
VAS-35 Pressure	(psig)	10 - 20	30		
VAS-36 Flow Rate	(scfm)	TBD	TBD		
VAS-36 Pressure	(psig)	10 - 20	30		
VAS-37 Flow Rate	(scfm)	TBD	TBD		
VAS-37 Pressure	(psig)	10 - 20	30		
VAS-38 Flow Rate	(scfm)	TBD	TBD		
VAS-38 Pressure	(psig)	10 - 20	30		
VAS-39 Flow Rate	(scfm)	TBD	TBD		
VAS-39 Pressure	(psig)	10 - 20	30		
VAS-40 Flow Rate	(scfm)	TBD	TBD		
VAS-40 Pressure	(psig)	10 - 20	30		
VAS-41 Flow Rate	(scfm)	TBD	TBD	9.4	
VAS-41 Pressure	(psig)	20-Oct	30	11	
VAS-42 Flow Rate	(scfm)	TBD	TBD	9.9	
VAS-42 Pressure	(psig)	10 - 20	30	12	
VAS-43 Flow Rate	(scfm)	TBD	TBD	1.8	
VAS-43 Pressure	(psig)	10 - 20	30	33	
VAS-44 Flow Rate	(scfm)	TBD	TBD	2.3	
VAS-44 Pressure	(psig)	10 - 20	30	39	
VAS-45 Flow Rate	(scfm)	TBD	TBD	9.0	
VAS-45 Pressure	(psig)	10 - 20	30	14	
Brown's Creek Aerators	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BCA-01 Flow Rate	(scfm)	TBD	TBD	14.6	
BCA-01 Pressure	(psig)	0 - 5	5	18	
BCA-02 Flow Rate	(scfm)	TBD	TBD	14.6	
BCA-02 Pressure	(psig)	0 - 5	5	18	
Bedrock Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BRS-01 Flow Rate	(scfm)	TBD	TBD		
BRS-01 Pressure	(psig)	10 - 20	30		
BRS-02 Flow Rate	(scfm)	TBD	TBD		
BRS-02 Pressure	(psig)	10 - 20	30		
BRS-03 Flow Rate	(scfm)	TBD	TBD		
BRS-03 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance Maintenance Log *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Discharge Permit and Expiration Date
3/24/2018 1500	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Site Maintenance	Frequency	Conditions Good?	Repaired/Replaced?	Scheduled	Comment
Inspect condition of Brown's Creek.	Each visit	(Yes) / No	Yes / No		
Perform air monitoring near Cupboard Creek.	Each visit	Yes / (No)	Yes / No		
Activate and inspect condition of receiver auto drain.	Each visit	(Yes) / No	Yes / No		
...	...				
...	...				
Equipment Maintenance	**Frequency**	**Conditions Good?**	**Repaired/Replaced?**	**Scheduled**	**Comment**
Inspect receiver tank and discharge lines.	Monthly	(Yes) / No	Yes / No		
Inspect condensate system components. Drain and clean as needed.	Monthly	(Yes) / No	Yes / No		
Inspect the two fire extinguishers for signs of deterioration. Shake contents.	Monthly	(Yes) / No	Yes / No		
Coordinate with Airite to performed quarterly and annual PM on both machines.	Quarterly	Yes / (No)	Yes / No		
Inspect various building components detailed in Section X.X.X.	Semi-Annually	Yes / (No)	Yes / No		
Test relief valve on receiver tank for proper operation.	Annually	Yes / (No)	Yes / No		
Inspect flow meters per Section X.X.X. Verify calibration.	Annually	Yes / (No)	Yes / No		
Calibrate EAD	Annually	Yes / (No)	Yes / No		

NOTE: Please check the manufacturer's instructions for the specific maintenance schedule and instructions.

Additional Comments: → Replace Coalescing filter housing gaskets w/ new and restart Sparge System

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 1 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/26/2018 1500	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Exterior Components	(Units)	Optimal Level	Max Level	Arrival	Departure
System Operating	(Yes/No)	NA	NA	NO - restart, see notes	Yes
Air Compressor 1 Run Time	(hours)	NA	NA		6736:08
Air Compressor 1 Load Time	(hours)	NA	NA		4643:20
Air Compressor 1 Discharge Temp	(F)	60 - 100	110		—
Air Compressor 1 Pressure	(psig)	90 - 110	100		—
Air Compressor 2 Run Time	(hours)	NA	NA		4538:17
Air Compressor 2 Load Time	(hours)	NA	NA		3511:30
Air Compressor 2 Temp	(F)	60 - 100	110		171
Air Compressor 2 Pressure	(psig)	90 - 110	100		110
Receiver Tank Pressure	(psig)	90 - 110	100		112
Receiver Tank Temperature	(F)	60 - 100	110		N/A
Interior Manifold	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
Manifold Pressure	(psig)	90 - 110	100		108
Manifold Temperature	(F)	60 - 100	110		60
Manifold Flow Rate	(scfm)	TBD	TBD		958.4
Horizontal Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
HAS-1 Target Flow Rate	(scfm)	TBD	TBD		275.0
HAS-1 Actual Flow Rate	(scfm)	TBD	TBD		271.5
HAS-1 Valve Position	(%)	TBD	TBD		36.3
HAS-1 Pressure	(psig)	10 - 20	30		27
HAS-2 Target Flow Rate	(scfm)	TBD	TBD		200.0
HAS-2 Actual Flow Rate	(scfm)	TBD	TBD		204.1
HAS-2 Valve Position	(%)	TBD	TBD		11.7
HAS-2 Pressure	(psig)	10 - 20	30		18
HAS-3 Target Flow Rate	(scfm)	TBD	TBD		150.0
HAS-3 Actual Flow Rate	(scfm)	TBD	TBD		152.2
HAS-3 Valve Position	(%)	TBD	TBD		22.9
HAS-3 Pressure	(psig)	10 - 20	30		20

Parts Needed:	
Parts Installed:	

Notes (include alarms since previous visit):

→ restart blg, gradually increasing flows until target flows reached.

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 2 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/28/18 1500	Scott Smith	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-01 Flow Rate	(scfm)	TBD	TBD		6.9
VAS-01 Pressure	(psig)	10 - 20	30		22
VAS-02 Flow Rate	(scfm)	TBD	TBD		7.3
VAS-02 Pressure	(psig)	10 - 20	30		12
VAS-03 Flow Rate	(scfm)	TBD	TBD		7.3
VAS-03 Pressure	(psig)	10 - 20	30		12
VAS-04 Flow Rate	(scfm)	TBD	TBD		7.8
VAS-04 Pressure	(psig)	10 - 20	30		7
VAS-05 Flow Rate	(scfm)	TBD	TBD		7.3
VAS-05 Pressure	(psig)	10 - 20	30		6
VAS-06 Flow Rate	(scfm)	TBD	TBD		7.3
VAS-06 Pressure	(psig)	10 - 20	30		8
VAS-07 Flow Rate	(scfm)	TBD	TBD		6.5
VAS-07 Pressure	(psig)	10 - 20	30		18
VAS-08 Flow Rate	(scfm)	TBD	TBD		6.8
VAS-08 Pressure	(psig)	10 - 20	30		17
VAS-09 Flow Rate	(scfm)	TBD	TBD		6.9
VAS-09 Pressure	(psig)	10 - 20	30		8
VAS-10 Flow Rate	(scfm)	TBD	TBD		7.7
VAS-10 Pressure	(psig)	10 - 20	30		10
VAS-11 Flow Rate	(scfm)	TBD	TBD		6.8
VAS-11 Pressure	(psig)	10 - 20	30		10
VAS-12 Flow Rate	(scfm)	TBD	TBD		7.3
VAS-12 Pressure	(psig)	10 - 20	30		12
VAS-13 Flow Rate	(scfm)	TBD	TBD		
VAS-13 Pressure	(psig)	10 - 20	30		
VAS-14 Flow Rate	(scfm)	TBD	TBD		
VAS-14 Pressure	(psig)	10 - 20	30		
VAS-15 Flow Rate	(scfm)	TBD	TBD		
VAS-15 Pressure	(psig)	10 - 20	30		
VAS-16 Flow Rate	(scfm)	TBD	TBD		
VAS-16 Pressure	(psig)	10 - 20	30		
VAS-17 Flow Rate	(scfm)	TBD	TBD		
VAS-17 Pressure	(psig)	10 - 20	30		

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 3 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/26/2018 1500	Scott Powell	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-18 Flow Rate	(scfm)	TBD	TBD		
VAS-18 Pressure	(psig)	10 - 20	30		
VAS-19 Flow Rate	(scfm)	TBD	TBD		
VAS-19 Pressure	(psig)	10 - 20	30		
VAS-20 Flow Rate	(scfm)	TBD	TBD		7.1
VAS-20 Pressure	(psig)	10 - 20	30		20
VAS-21 Flow Rate	(scfm)	TBD	TBD		7.7
VAS-21 Pressure	(psig)	10 - 20	30		20
VAS-22 Flow Rate	(scfm)	TBD	TBD		7.8
VAS-22 Pressure	(psig)	10 - 20	30		23
VAS-23 Flow Rate	(scfm)	TBD	TBD		6.9
VAS-23 Pressure	(psig)	10 - 20	30		20
VAS-24 Flow Rate	(scfm)	TBD	TBD		7.4
VAS-24 Pressure	(psig)	10 - 20	30		27
VAS-25 Flow Rate	(scfm)	TBD	TBD		7.5
VAS-25 Pressure	(psig)	10 - 20	30		21
VAS-26 Flow Rate	(scfm)	TBD	TBD		7.7
VAS-26 Pressure	(psig)	10 - 20	30		26
VAS-27 Flow Rate	(scfm)	TBD	TBD		7.7
VAS-27 Pressure	(psig)	10 - 20	30		31
VAS-28 Flow Rate	(scfm)	TBD	TBD		7.5
VAS-28 Pressure	(psig)	10 - 20	30		12
VAS-29 Flow Rate	(scfm)	TBD	TBD		6.7
VAS-29 Pressure	(psig)	10 - 20	30		11
VAS-30 Flow Rate	(scfm)	TBD	TBD		6.9
VAS-30 Pressure	(psig)	10 - 20	30		3
VAS-31 Flow Rate	(scfm)	TBD	TBD		6.7
VAS-31 Pressure	(psig)	10 - 20	30		28
VAS-32 Flow Rate	(scfm)	TBD	TBD		7.7
VAS-32 Pressure	(psig)	10 - 20	30		20
VAS-33 Flow Rate	(scfm)	TBD	TBD		7.7
VAS-33 Pressure	(psig)	10 - 20	30		19
VAS-34 Flow Rate	(scfm)	TBD	TBD		7.4
VAS-34 Pressure	(psig)	10 - 20	30		21

Site Name	Site Location	Project Manager	Project Engineer	Biosparging Operation and Maintenance System Data Log 4 of 4 *Lewis Drive, Belton, South Carolina*
Lewis Drive	Belton, SC	Bill Waldron/RAL	Scott Powell/ATL	

Date & Time	O&M Technician #1	O&M Technician #2	Equipment Type	Equipment Model	Permits
3/21/2018 1500	SCOTT SMITH	—	Air Compressors Condensate Treatment	Sullair TS-20-200 Beko Qwik Pure 350	UIC Permit To Operate: SCHE03020469 Air Permit Exempt

Vertical Wells	(Units)	Optimal Level	Max Level	Arrival	Departure
VAS-35 Flow Rate	(scfm)	TBD	TBD		6.6
VAS-35 Pressure	(psig)	10 - 20	30		22
VAS-36 Flow Rate	(scfm)	TBD	TBD		7.3
VAS-36 Pressure	(psig)	10 - 20	30		15
VAS-37 Flow Rate	(scfm)	TBD	TBD		7.2
VAS-37 Pressure	(psig)	10 - 20	30		8
VAS-38 Flow Rate	(scfm)	TBD	TBD		7.2
VAS-38 Pressure	(psig)	10 - 20	30		8
VAS-39 Flow Rate	(scfm)	TBD	TBD		7.2
VAS-39 Pressure	(psig)	10 - 20	30		14
VAS-40 Flow Rate	(scfm)	TBD	TBD		6.6
VAS-40 Pressure	(psig)	10 - 20	30		24
VAS-41 Flow Rate	(scfm)	TBD	TBD		—
VAS-41 Pressure	(psig)	20-Oct	30		—
VAS-42 Flow Rate	(scfm)	TBD	TBD		7.5
VAS-42 Pressure	(psig)	10 - 20	30		12
VAS-43 Flow Rate	(scfm)	TBD	TBD		—
VAS-43 Pressure	(psig)	10 - 20	30		
VAS-44 Flow Rate	(scfm)	TBD	TBD		
VAS-44 Pressure	(psig)	10 - 20	30		
VAS-45 Flow Rate	(scfm)	TBD	TBD		
VAS-45 Pressure	(psig)	10 - 20	30		
Brown's Creek Aerators	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BCA-01 Flow Rate	(scfm)	TBD	TBD		10.4
BCA-01 Pressure	(psig)	0 - 5	5		12
BCA-02 Flow Rate	(scfm)	TBD	TBD		10.4
BCA-02 Pressure	(psig)	0 - 5	5		12
Bedrock Wells	**(Units)**	**Optimal Level**	**Max Level**	**Arrival**	**Departure**
BRS-01 Flow Rate	(scfm)	TBD	TBD		
BRS-01 Pressure	(psig)	10 - 20	30		
BRS-02 Flow Rate	(scfm)	TBD	TBD		
BRS-02 Pressure	(psig)	10 - 20	30		
BRS-03 Flow Rate	(scfm)	TBD	TBD		
BRS-03 Pressure	(psig)	10 - 20	30		

Appendix E
Bills of Lading

6118460

A&D Environmental Services — Bill of Lading / Material Manifest

A&D Job No:	Generator ID Number	Page 1 of	Emergency Response Phone	Tracking Number
219094		1	800-434-7750	04317

Generator's Name and Mailing Address: Kinder Morgan, 112 Lewis Drive, Belton SC

Generator's site address (if different from mailing address):

Transporter 1 ☐ 2 ☐ Company Name: **A&D Environmental Services, Inc.** — US EPA ID No: **NCD98623222**

Transporter 1 ☐ 2 ☐ Company Name: **A&D Environmental Services (SC), LLC** — US EPA ID No: **SCD987598331**

☑ Designated Facility	☐ Designated Facility	☐ Designated Facility	☐ Designated Facility	☐ Designated Facility
A&D Environmental Services, Inc. 2718 Uwharrie Road Archdale, NC 27263 336-434-7750 NCD986232221	**A&D Environmental Services, Inc.** 3149 Lear Drive Burlington, NC 27215 336-229-0058 NCR000138628	**A&D Environmental Services (SC), LLC** 1915 Brentwood Street High Point, NC 27260 336-882-8000 NCR000002501	**A&D Environmental Services (SC), LLC** 1741 Calks Ferry Road Lexington, SC 29073 803-957-9175 SCD987598331	**A&D Environmental Services (SC), LLC** 305 B South Main Street Mauldin, SC 29662 803-967-3500 SCR000765677

HM	Hazardous Materials Shipping Name and Description (if applicable)	No.	Type	QTY	Wt/Vol	Profile Number

	Petroleum Products for Recycle	No.	Type	QTY	Wt/Vol	Profile Number
X	NA1993, Diesel fuel, 3, III ERG# 128					
X	NA1993, Fuel oil (No.1,2,4,5 or 6), 3, III ERG# 128					
X	UN1203, Gasoline, 3, II & water Mixture ERG# 128	1	TT	2262	G	20150163
X	NA1270, Petroleum Oil, 3, III ERG# 128					

Universal Waste Lamps, Batteries, Ballasts, and Electronics for Recycle

HM	No.	Type	Est. Wt.	Count	Shipping Name and Description (if applicable)	Common Name	Discrepancy
X					RQ, UN2809, Mercury contained in manufactured articles, 8, III ERG# 172	Mercury Containing Articles	
X					RQ, UN2809, Mercury, 8, III ERG# 172	Mercury	
X					RQ, UN3432, Polychlorinated biphenyls, solid, 9, II ERG# 171	TSCA Exempt PCB Lamp Ballasts	
X					UN2800, Batteries, wet, nonspillable, 8, III ERG# 154	Sealed Lead Acid Batteries	
X					UN2794, Batteries, wet, filled with acid, 8, III ERG# 154	Lead Acid Batteries	
X					UN2795, Batteries, wet, filled with alkali, 8, III ERG# 154	Wet NiCad Batteries	
X					UN3090, Lithium batteries, 9, II ERG# 138	Lithium Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III ERG# 154	Alkaline Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III ERG# 154	NiCad Batteries	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)	Fluorescent lamps 4' or <	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)	Fluorescent lamps 4' or >	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)	Circular/U-tube lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)	Compact Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)	Shattershield	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)	HID/MV/UV Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)	Incandescent Lamps	
					Non-PCB Light Ballasts for Recycle (Not DOT-Regulated)	Non-PCB Light Ballasts	
					Electronic Equipment for Recycle (Not DOT-Regulated)	Electronics	

Generator's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40CFR Part 261 or any applicable state law, and unless specifically identified above the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Mark Fuller	Mark Fuller	1	8	18
Transporter 1 Printed/Typed Name	**Signature**	**Month**	**Day**	**Year**
Mark Fuller	Mark Fuller	1	8	18
Transporter 2 Printed/Typed Name	**Signature**	**Month**	**Day**	**Year**

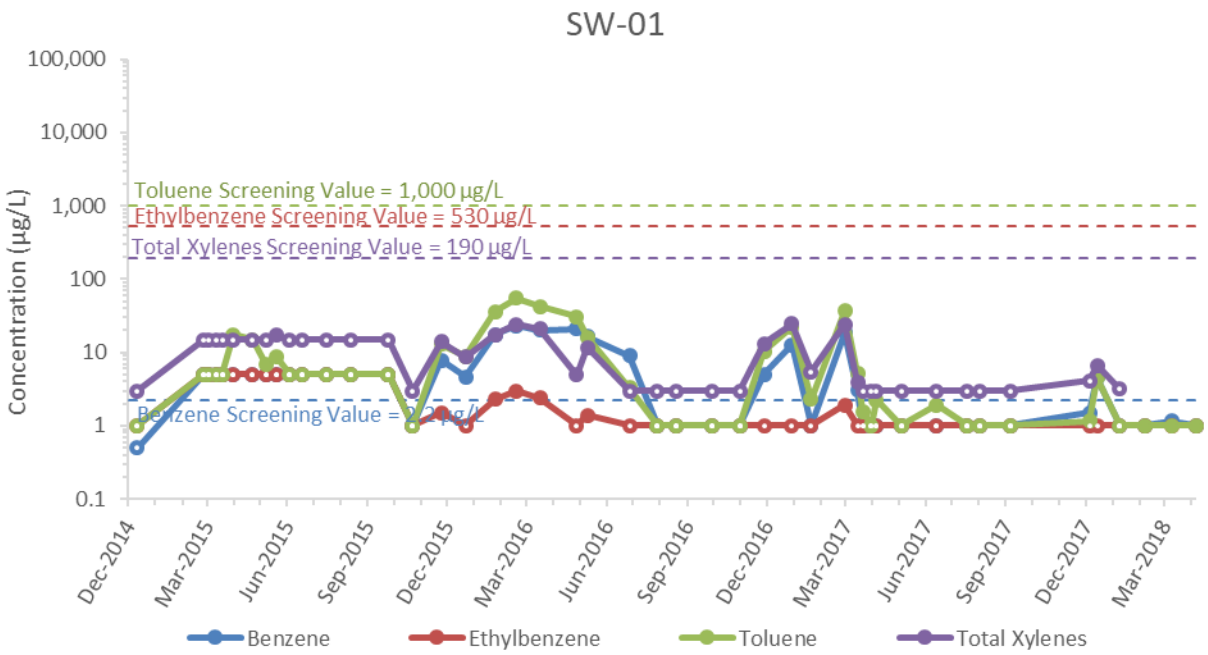
Discrepancy Indication / Additional Information:

Designated Facility Certification: I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy indicated above.

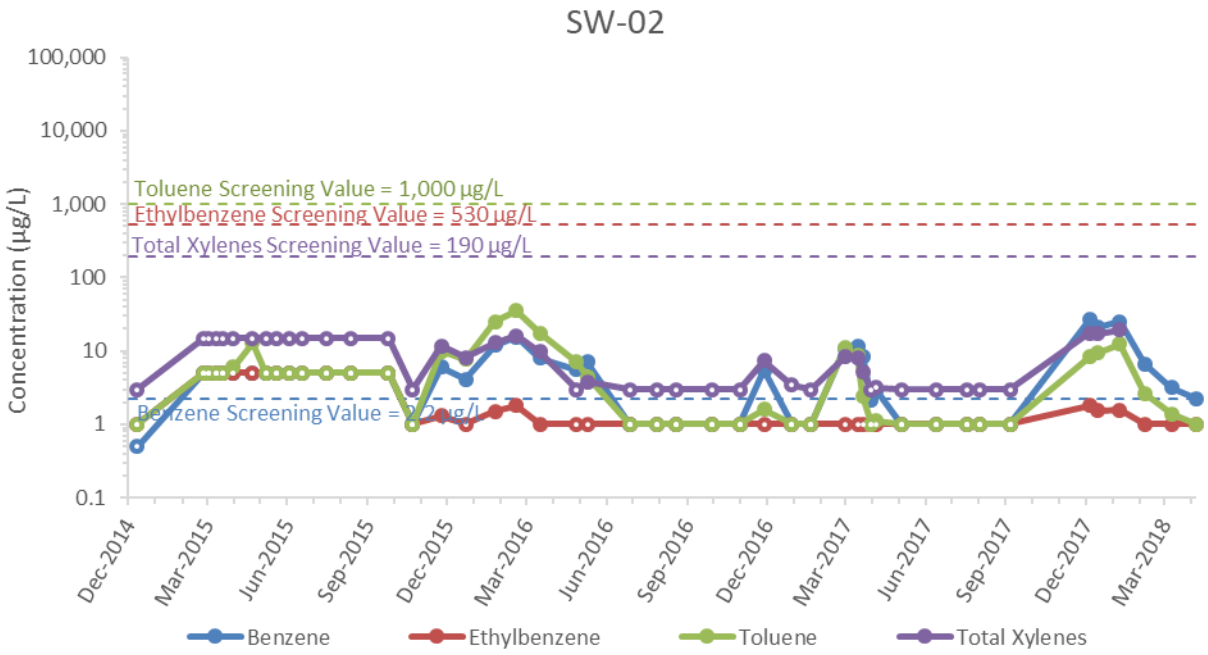
Printed/Typed Name	Signature	Month	Day	Year
Travis Clapp	Travis Clapp	01	08	18

DESIGNATED FACILITY TO GENERATOR

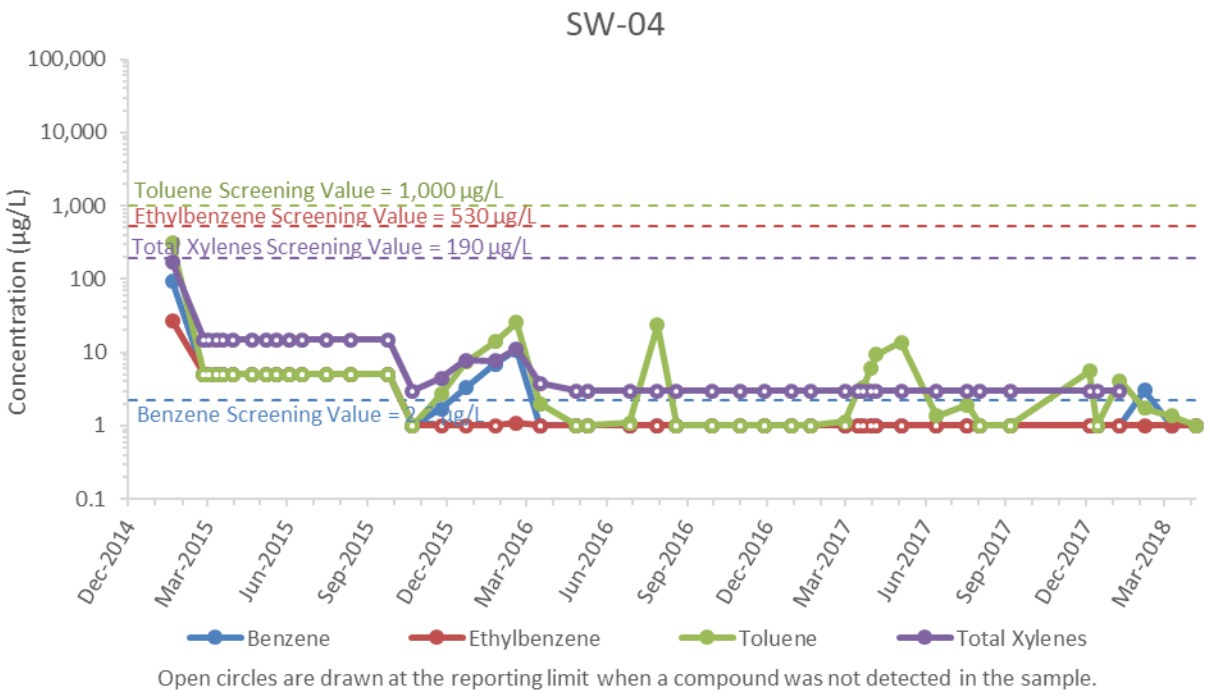
Appendix F
Surface Water Analytical Trends



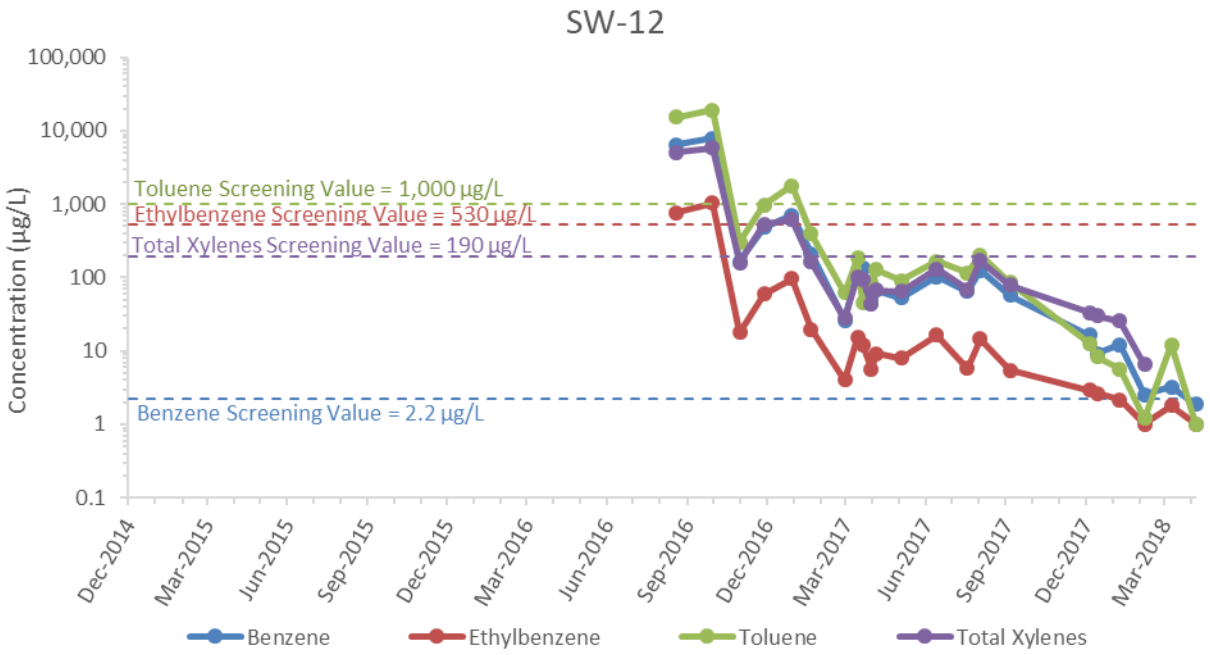
Open circles are drawn at the reporting limit when a compound was not detected in the sample.



Open circles are drawn at the reporting limit when a compound was not detected in the sample.

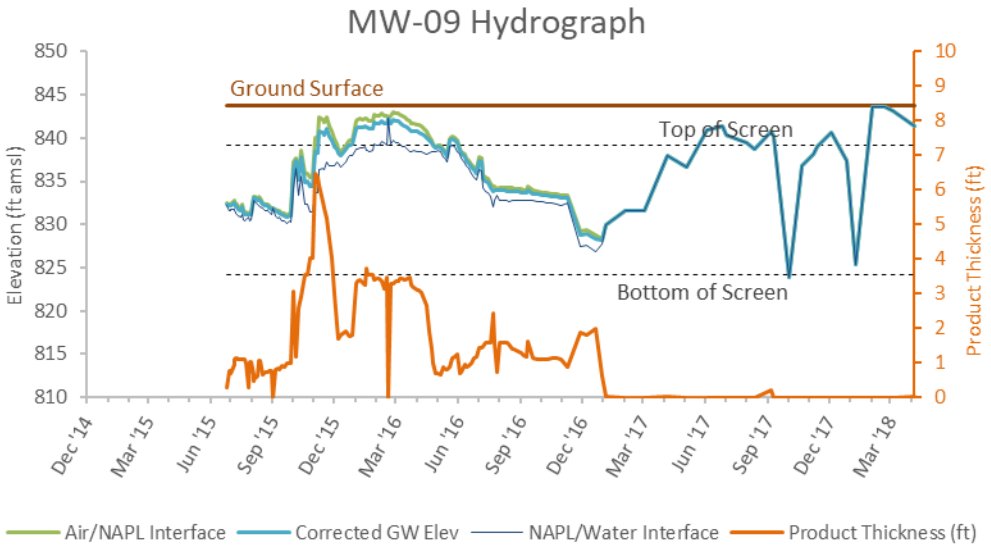


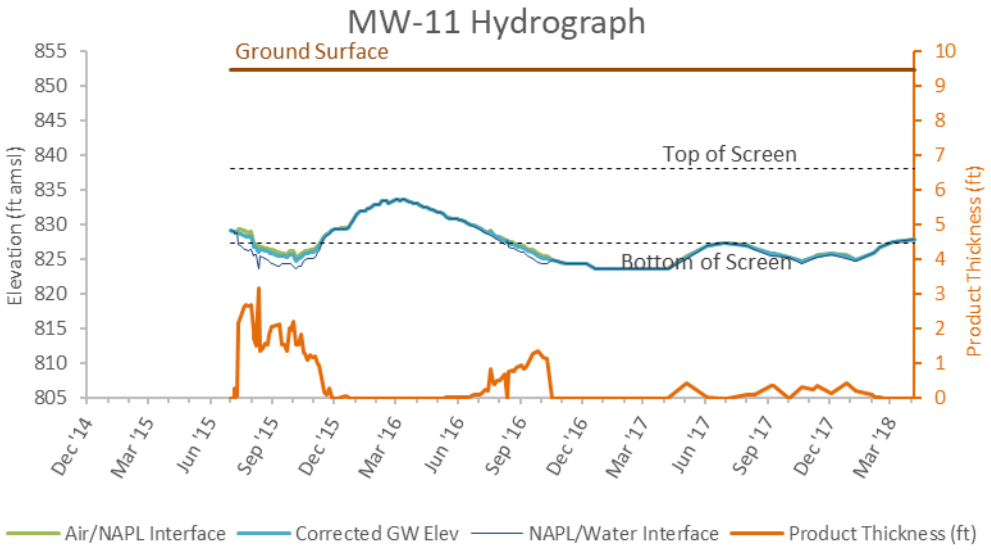
Open circles are drawn at the reporting limit when a compound was not detected in the sample.

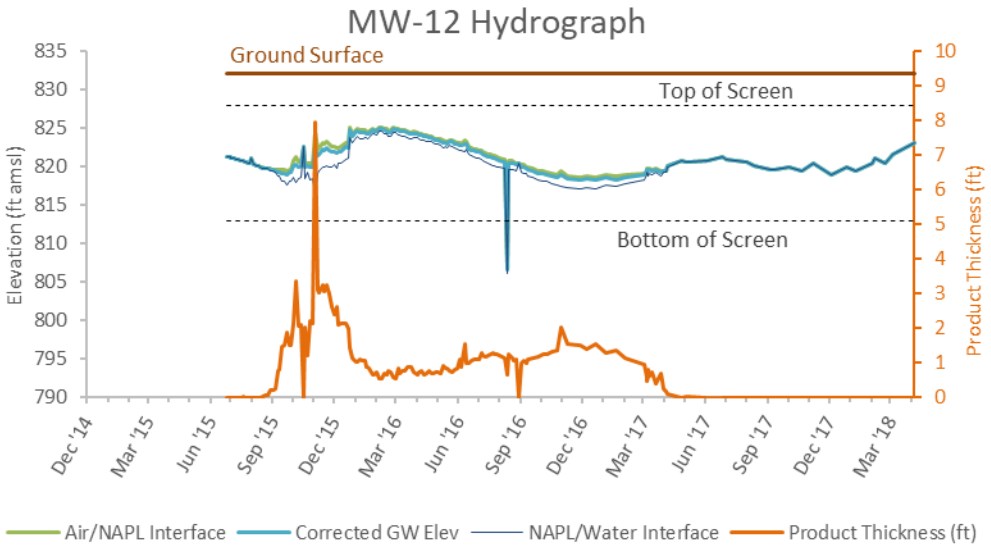


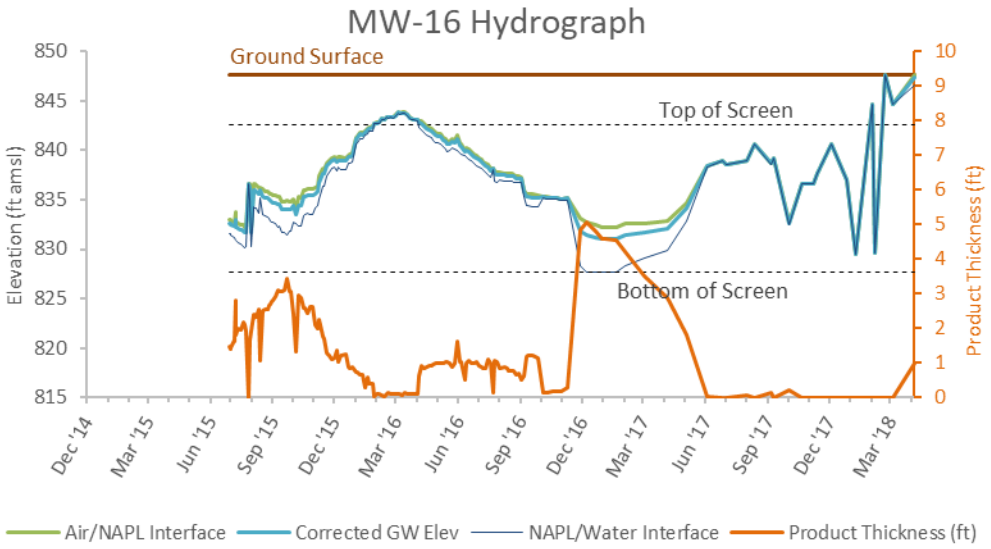
Open circles are drawn at the reporting limit when a compound was not detected in the sample.

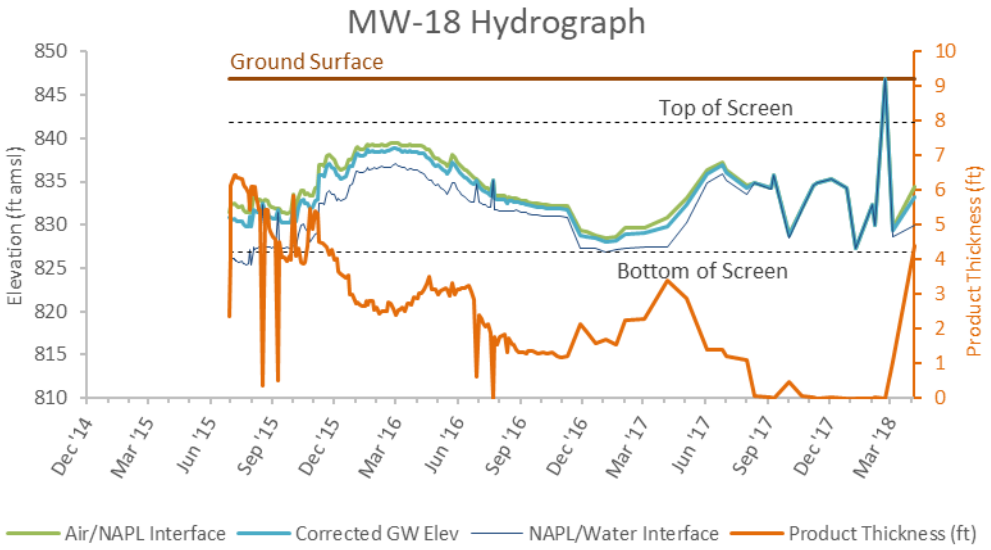
Appendix G
Product Thickness Trends

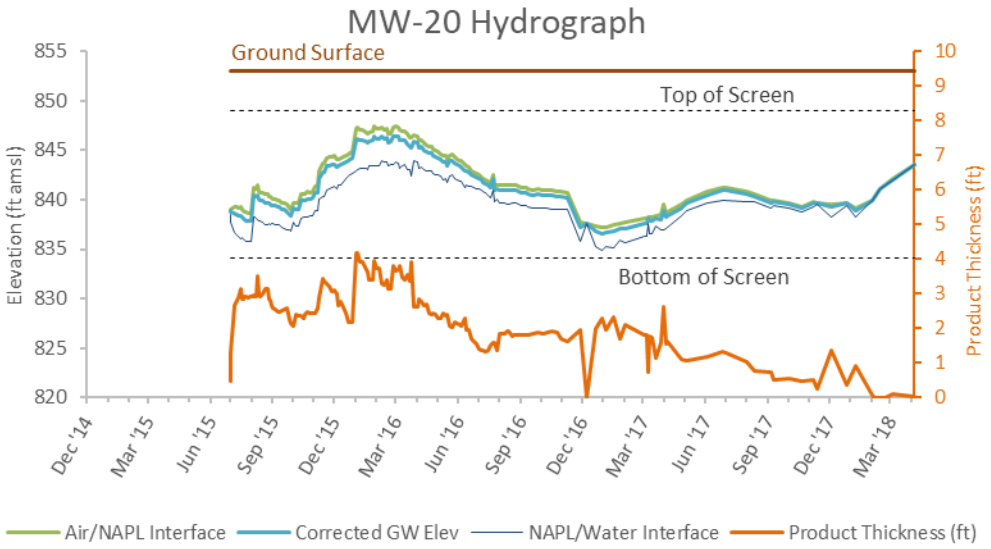

MW-09 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
850
845
840
835
830
825
820
815
810
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

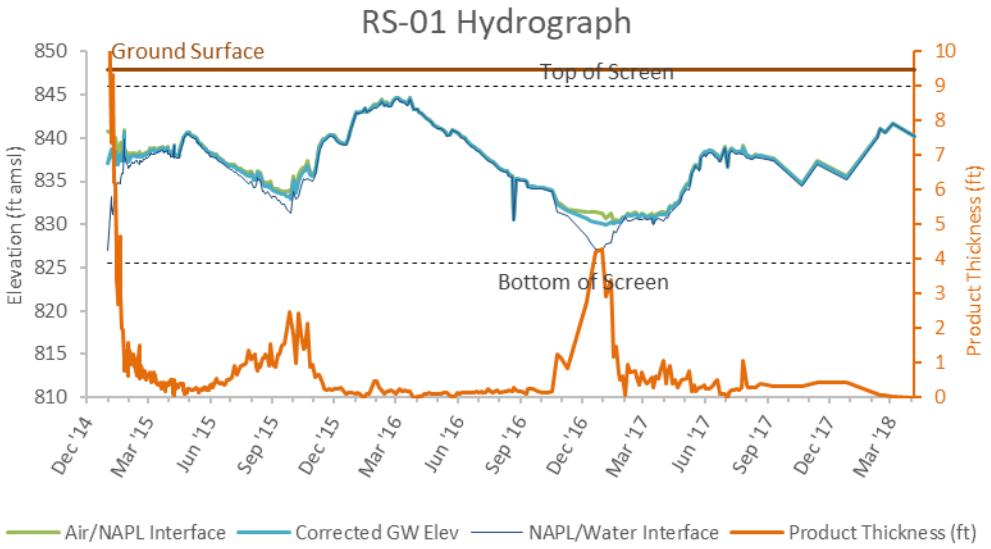

MW-11 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
855
850
845
840
835
830
825
820
815
810
805
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

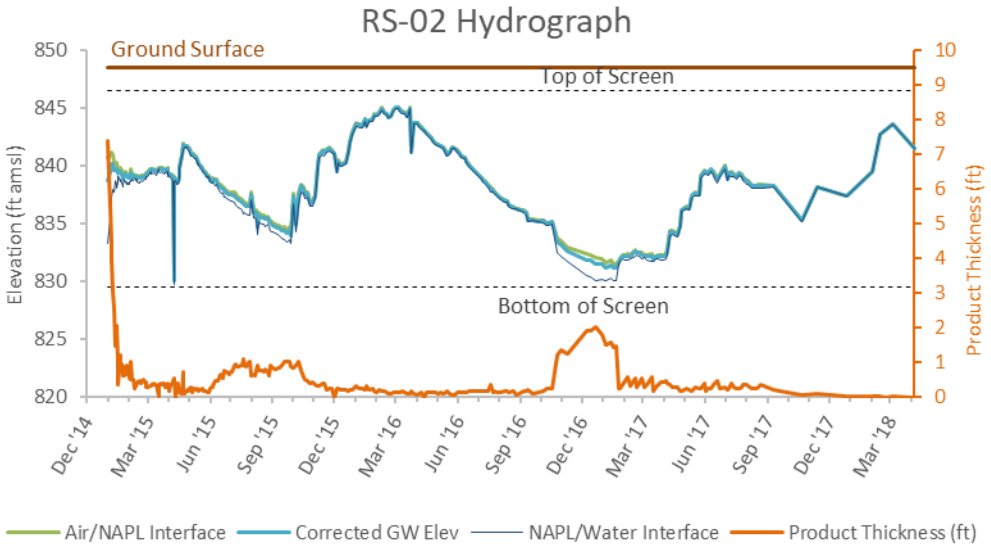

MW-12 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
835
830
825
820
815
810
805
800
795
790
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

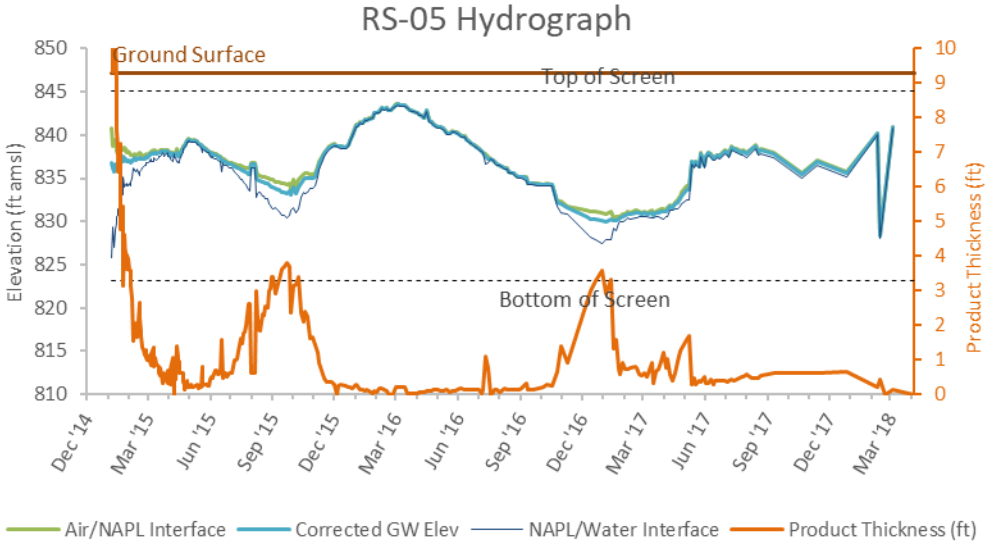

MW-16 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
850
845
840
835
830
825
820
815
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

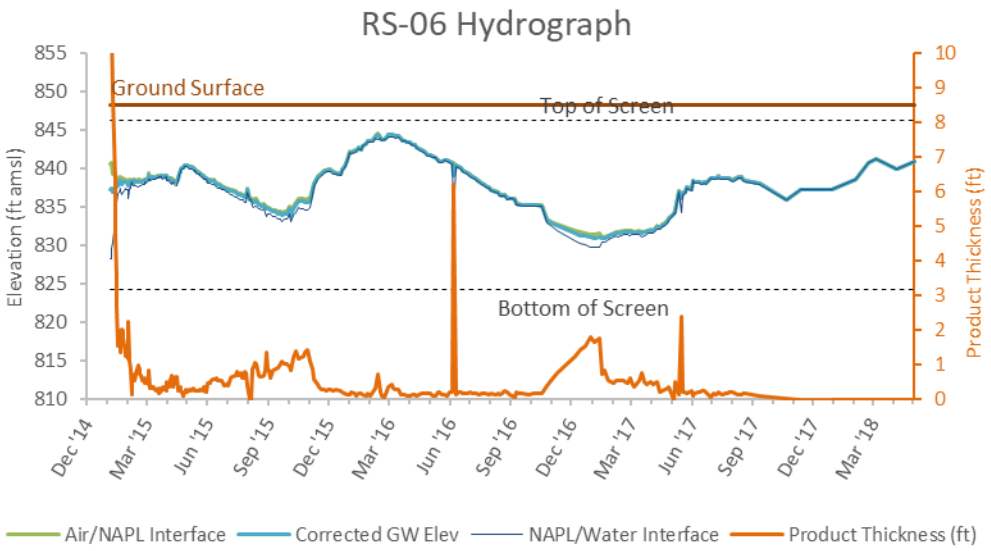

MW-18 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
850
845
840
835
830
825
820
815
810
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

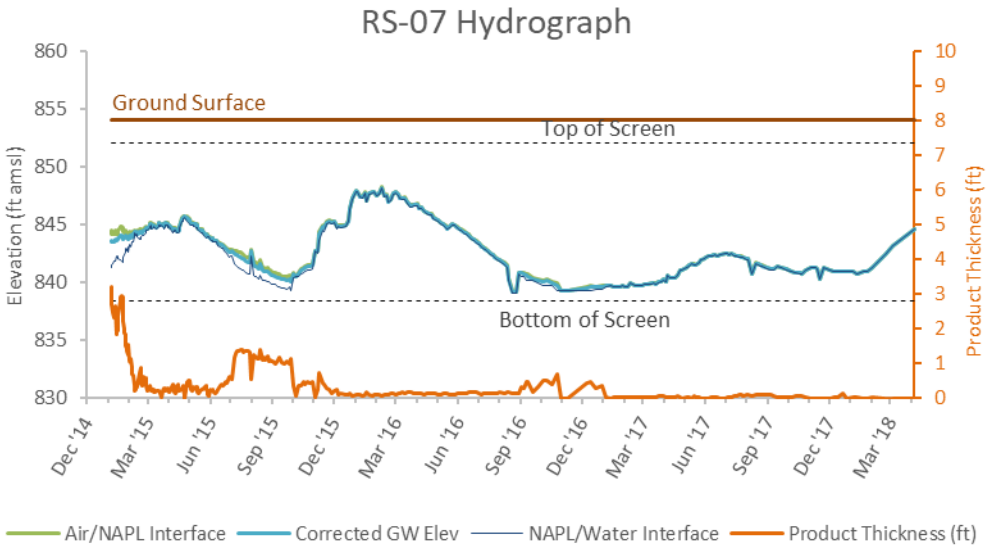

MW-20 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
855
850
845
840
835
830
825
820
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

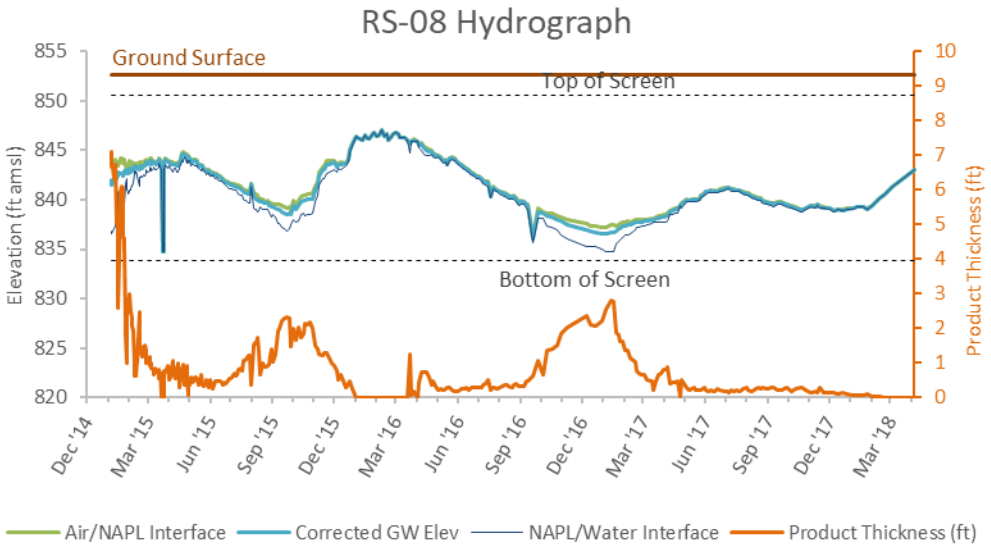

RS-01 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
850
845
840
835
830
825
820
815
810
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

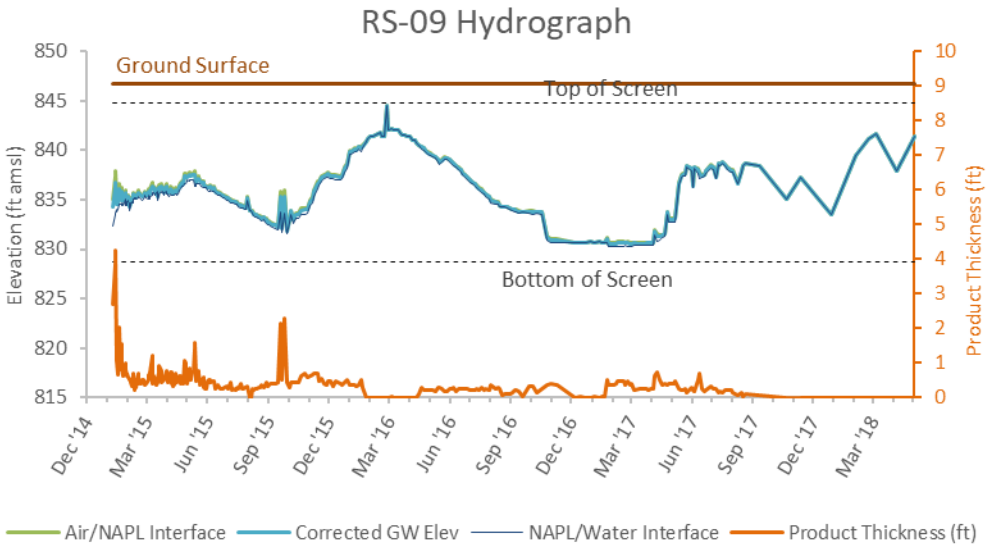

RS-02 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
850
845
840
835
830
825
820
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

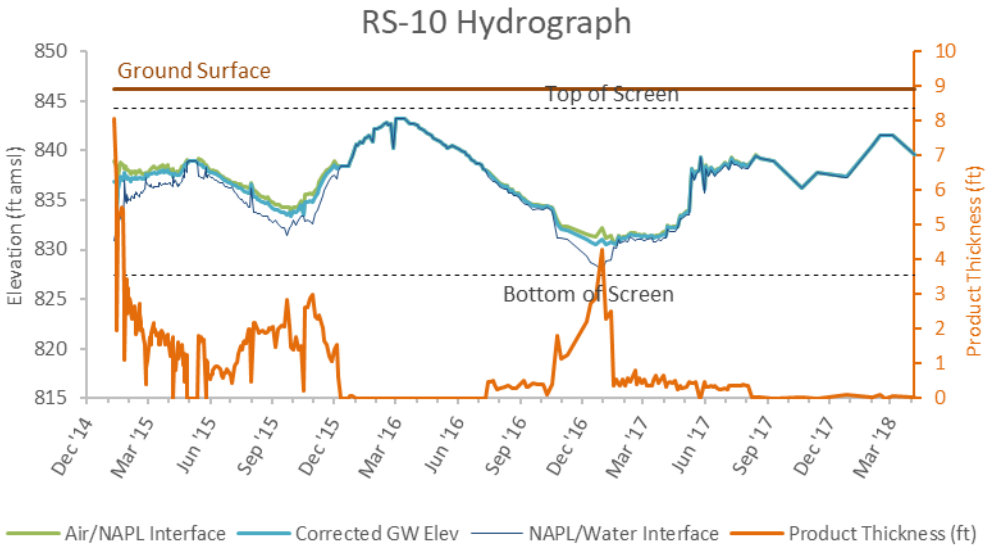

RS-05 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
850
845
840
835
830
825
820
815
810
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

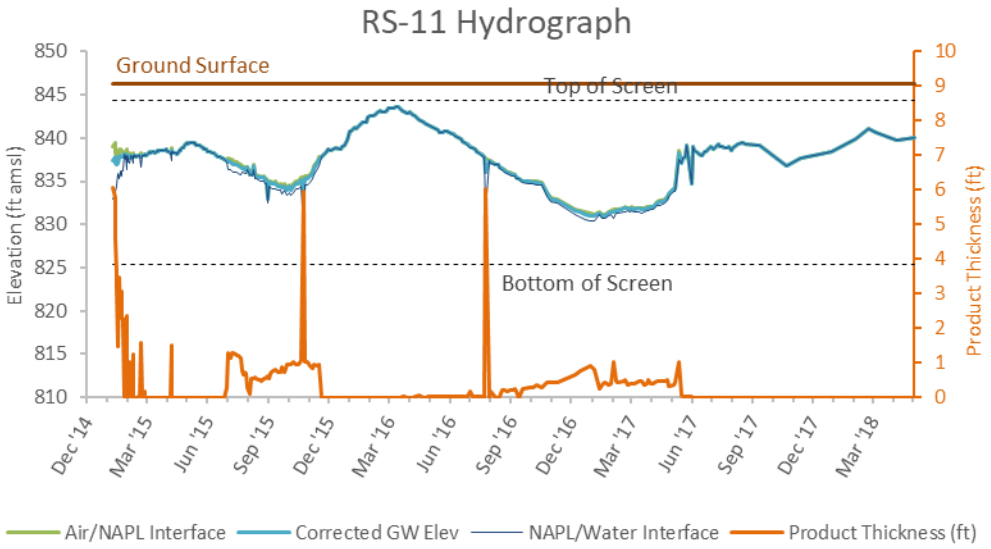

RS-06 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
855
850
845
840
835
830
825
820
815
810
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

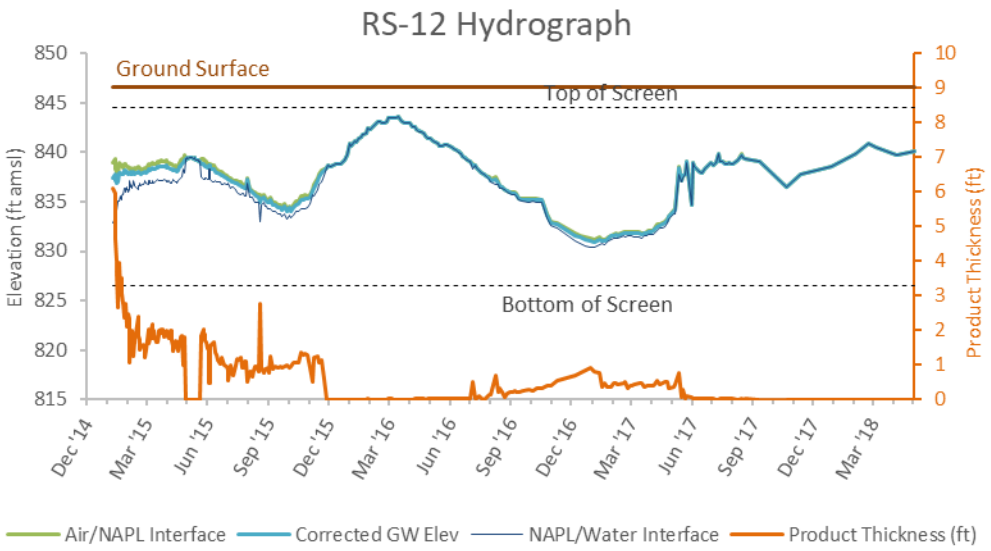

RS-07 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
860
855
850
845
840
835
830
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

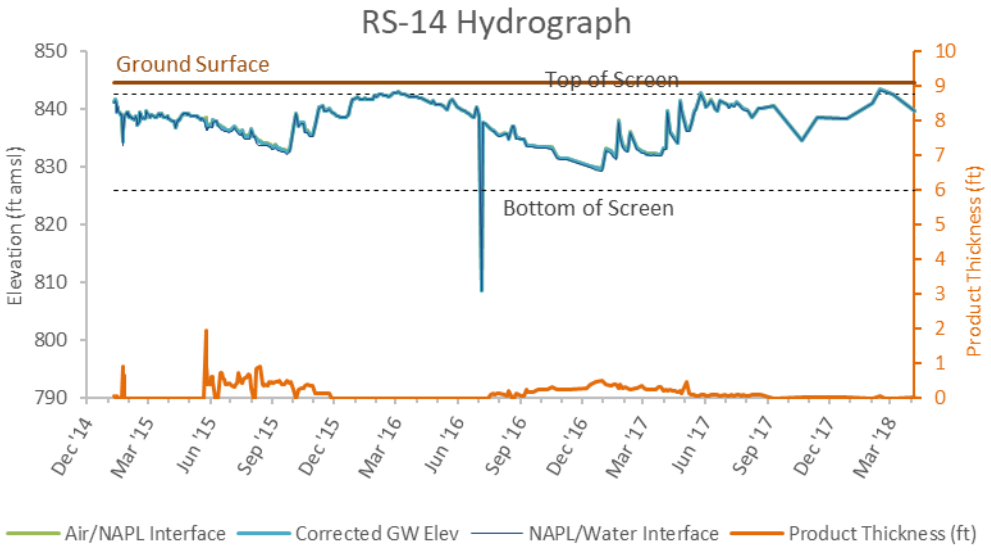

RS-08 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
855
850
845
840
835
830
825
820
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

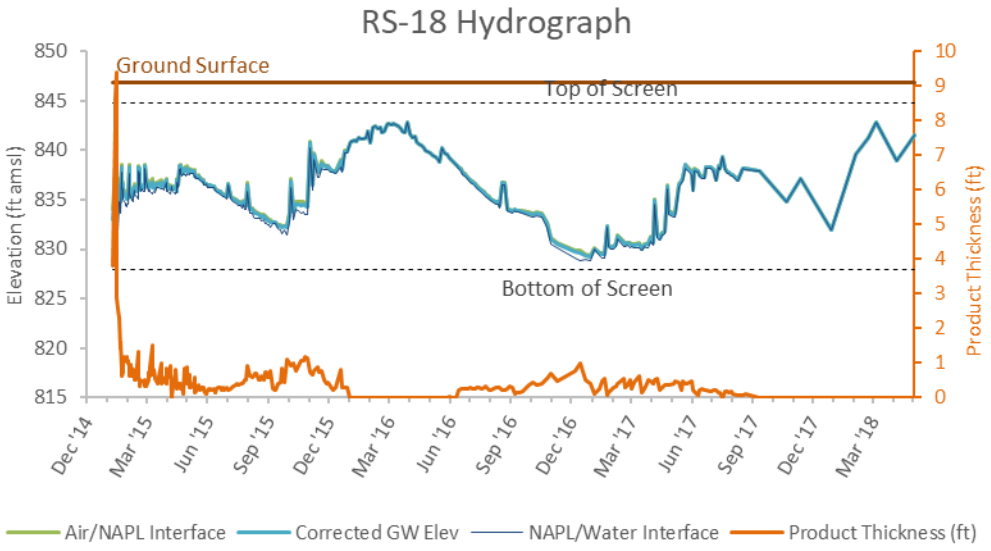

RS-09 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
850
845
840
835
830
825
820
815
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

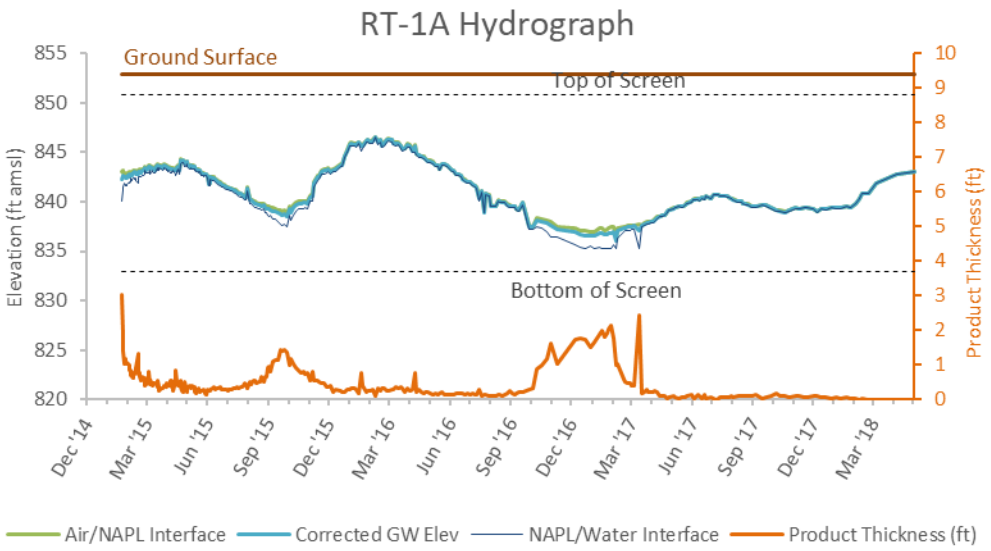

RS-10 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
850
845
840
835
830
825
820
815
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

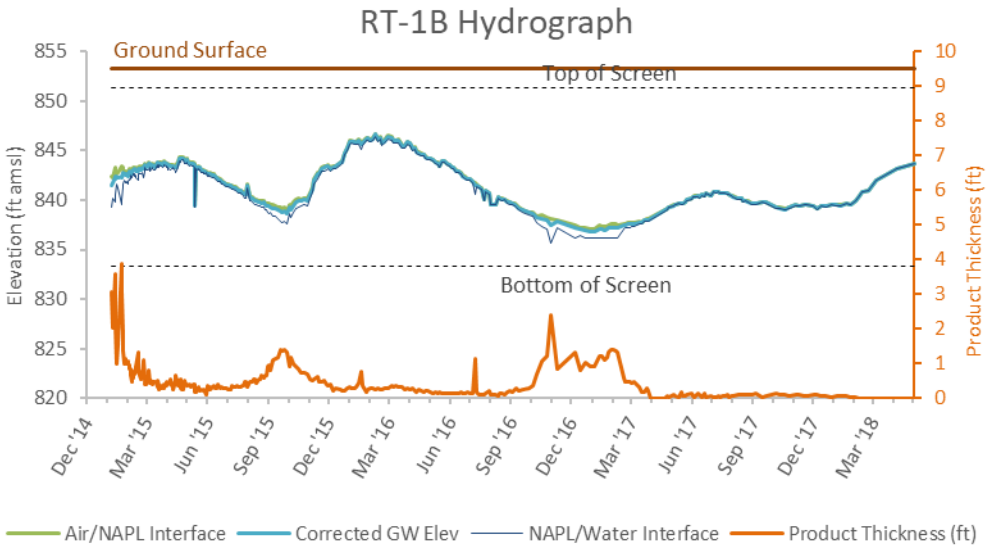

RS-11 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
850
845
840
835
830
825
820
815
810
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

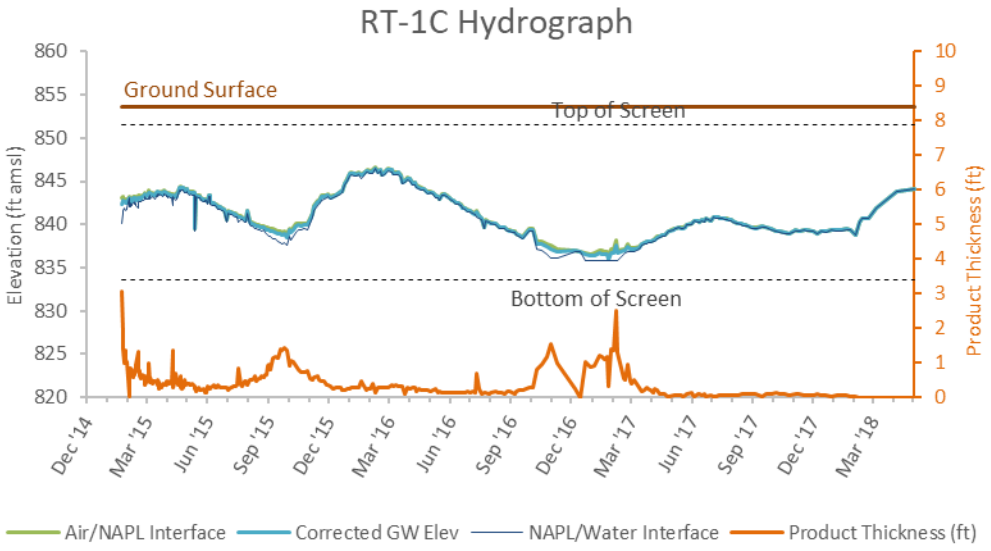

RS-12 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
850
845
840
835
830
825
820
815
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

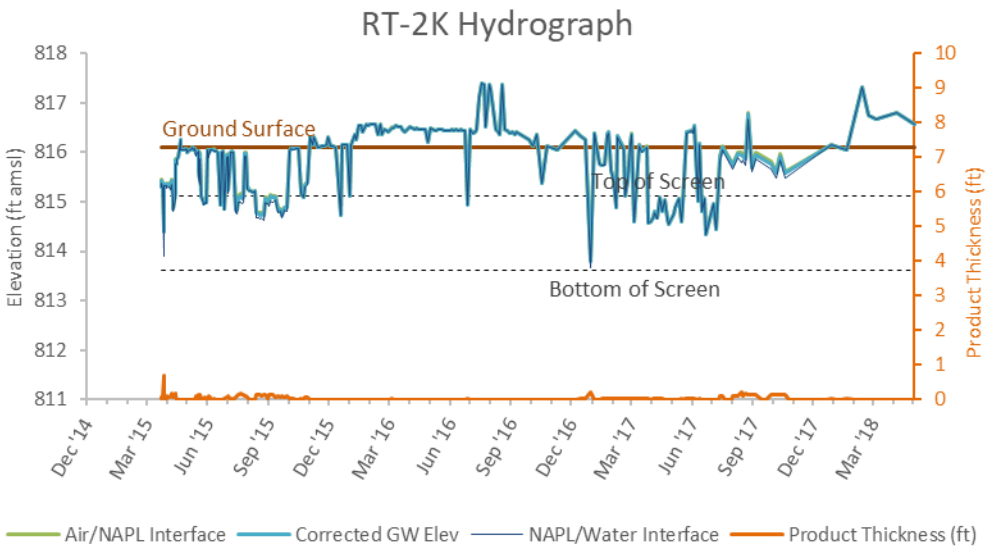

RS-14 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
850
840
830
820
810
800
790
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

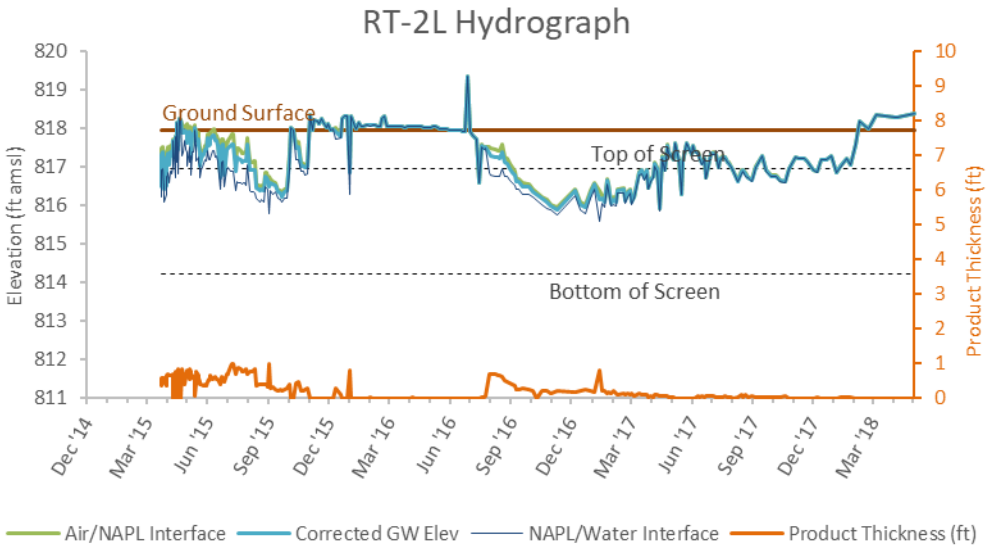

RS-18 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
850
845
840
835
830
825
820
815
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

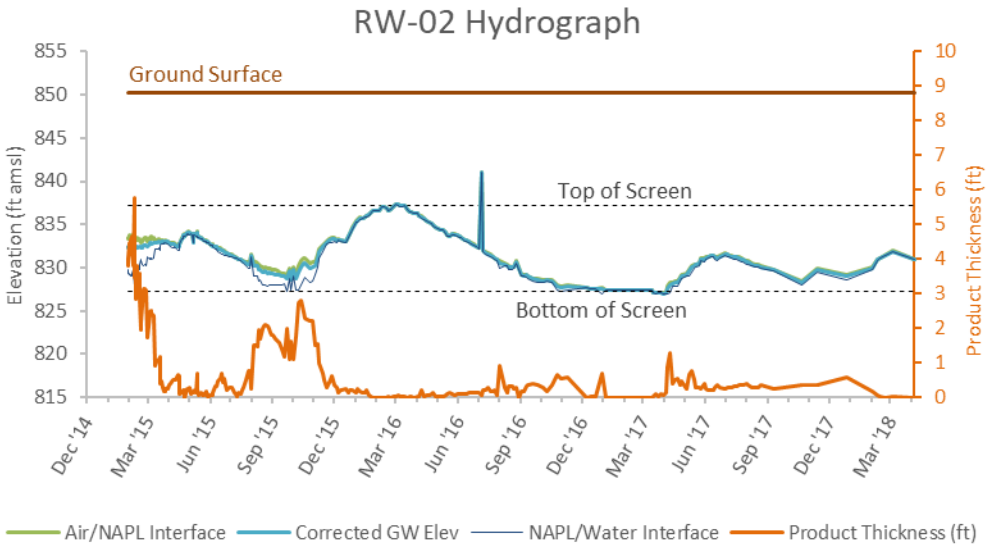

RT-1A Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
855
850
845
840
835
830
825
820
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

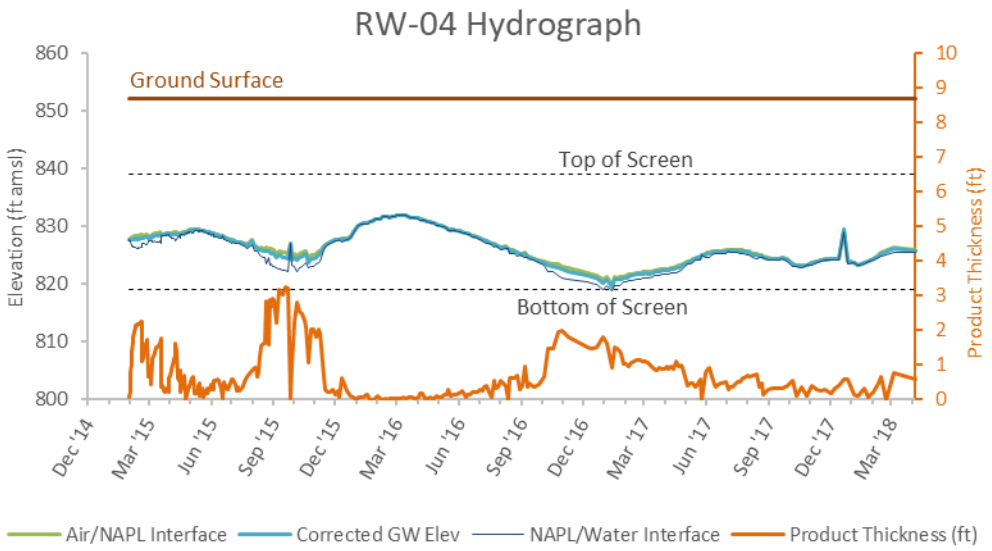

RT-1B Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
855
850
845
840
835
830
825
820
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

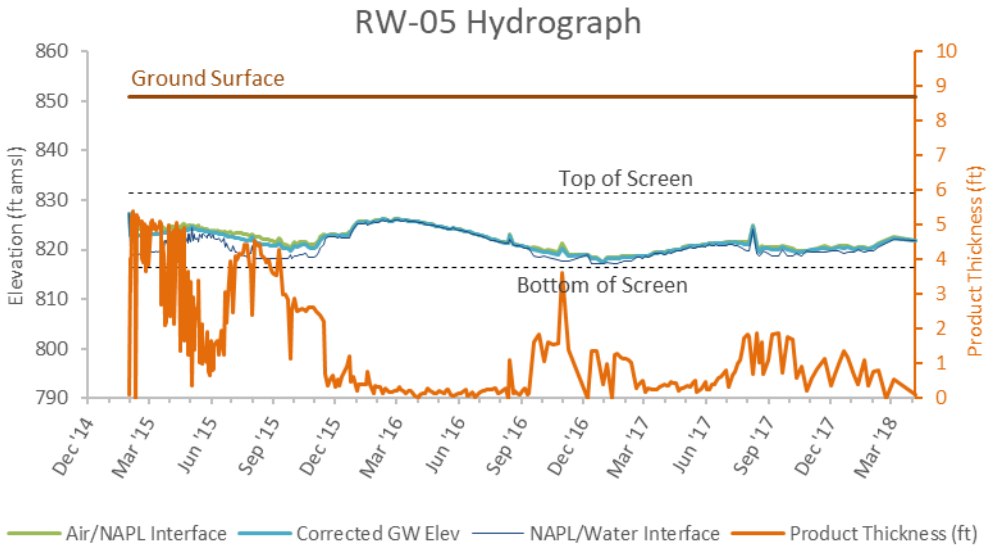

RT-1C Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
860
855
850
845
840
835
830
825
820
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

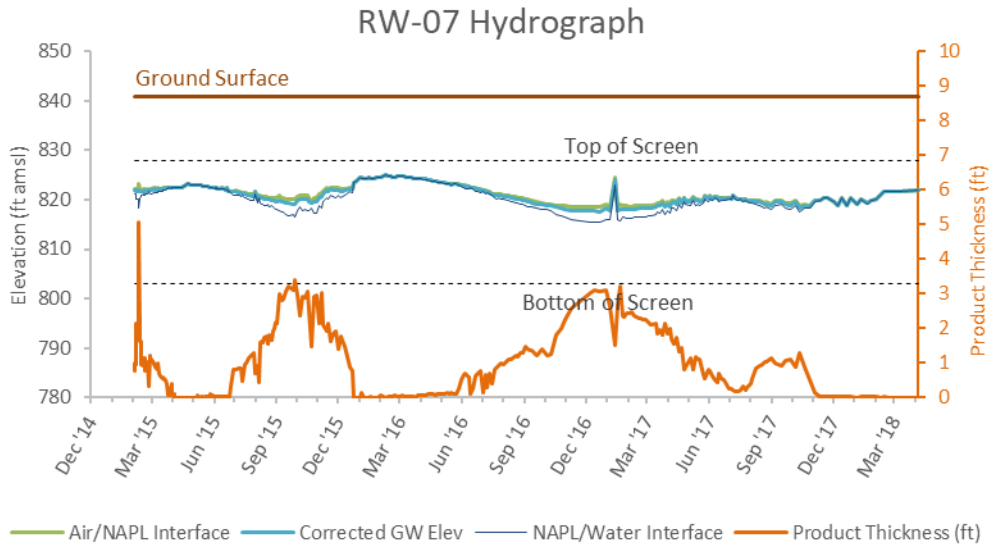

RT-2K Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

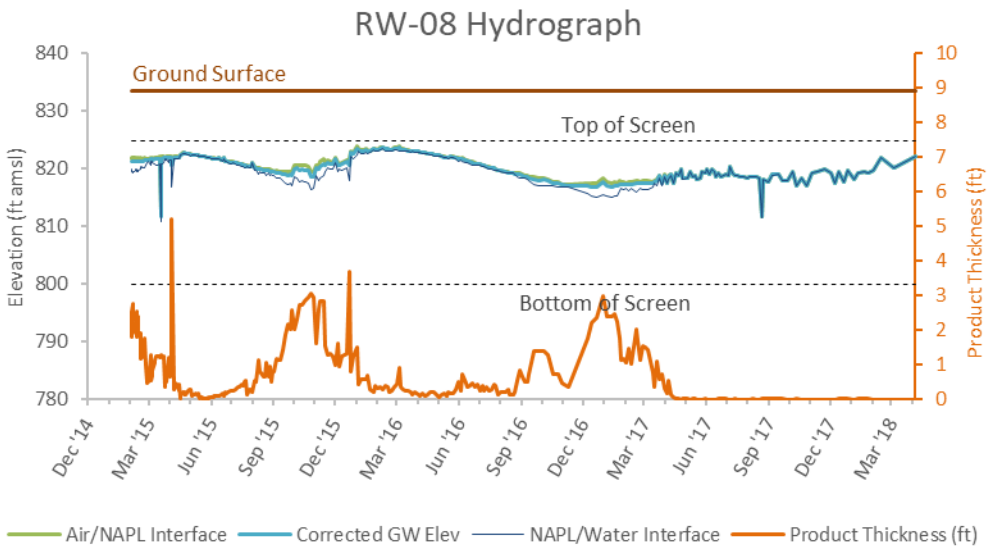

RT-2L Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

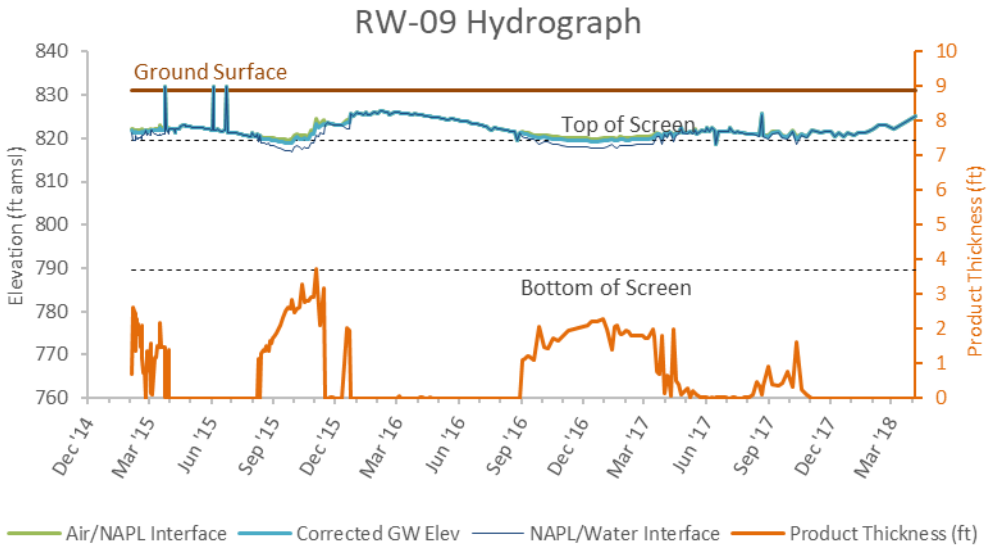

RW-02 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

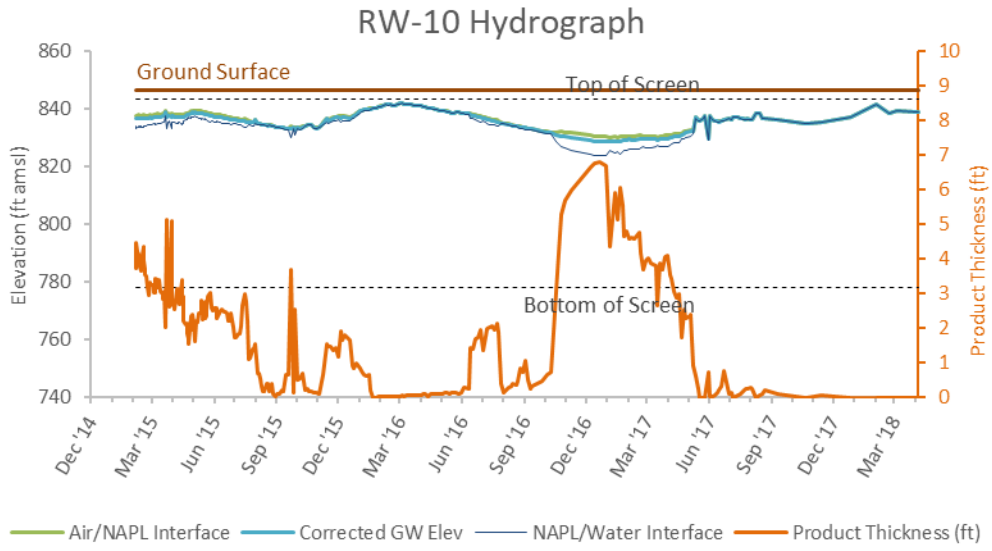

RW-04 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
860
850
840
830
820
810
800
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

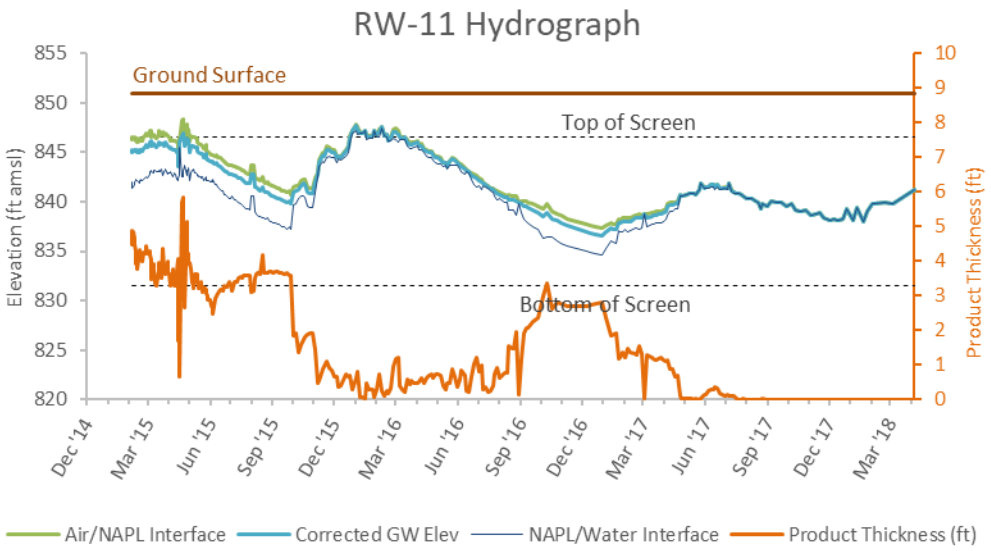

RW-05 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
860
850
840
830
820
810
800
790
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

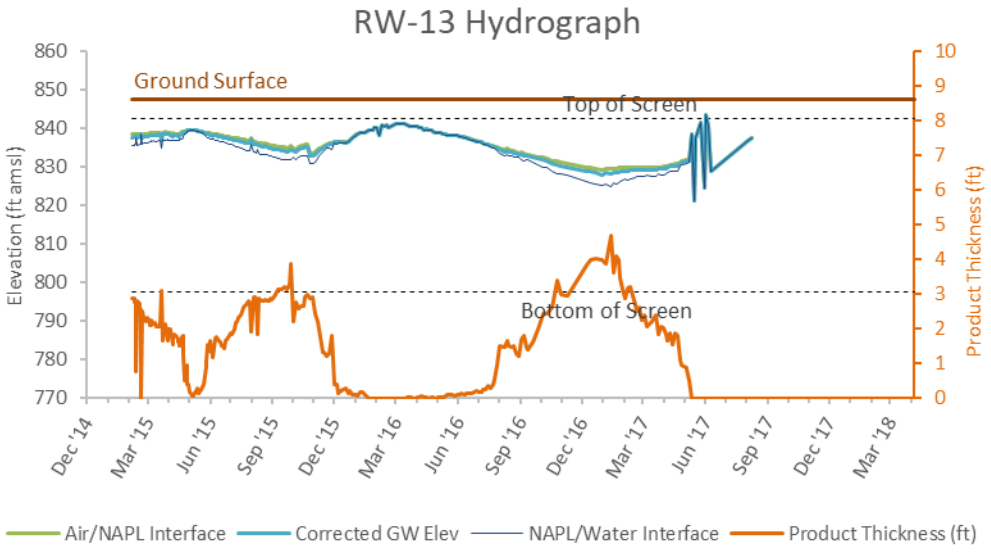

RW-07 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
850
840
830
820
810
800
790
780
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

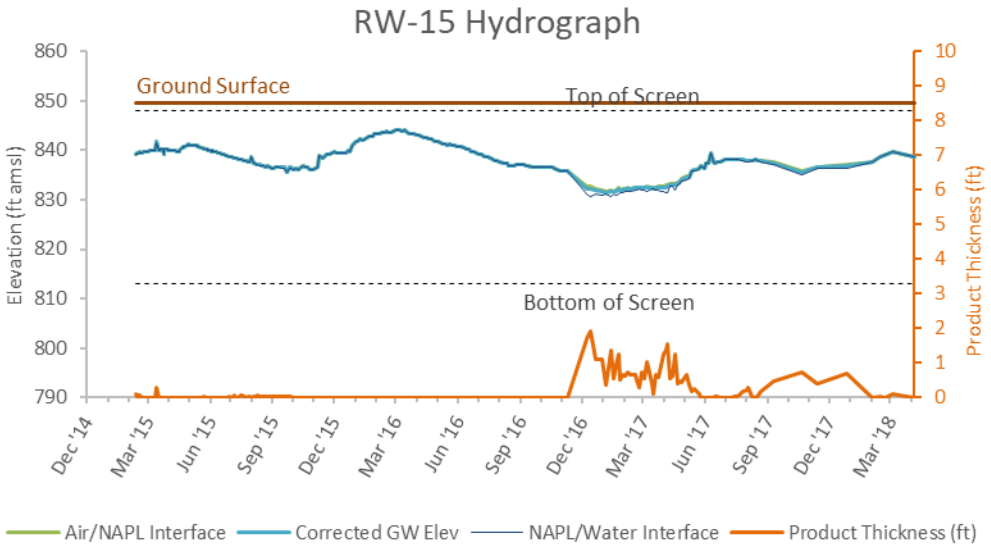

RW-08 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
840
830
820
810
800
790
780
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

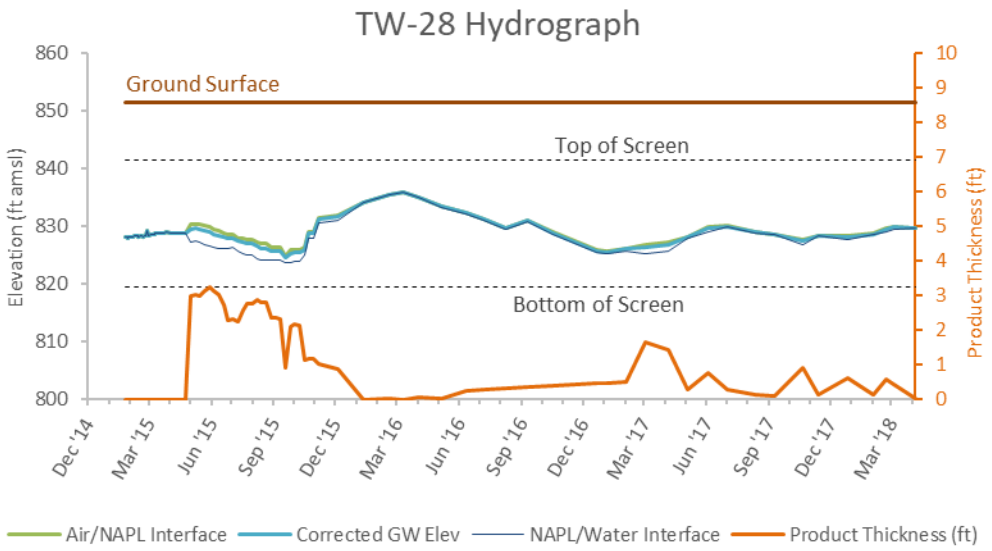

RW-09 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
840
830
820
810
800
790
780
770
760
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

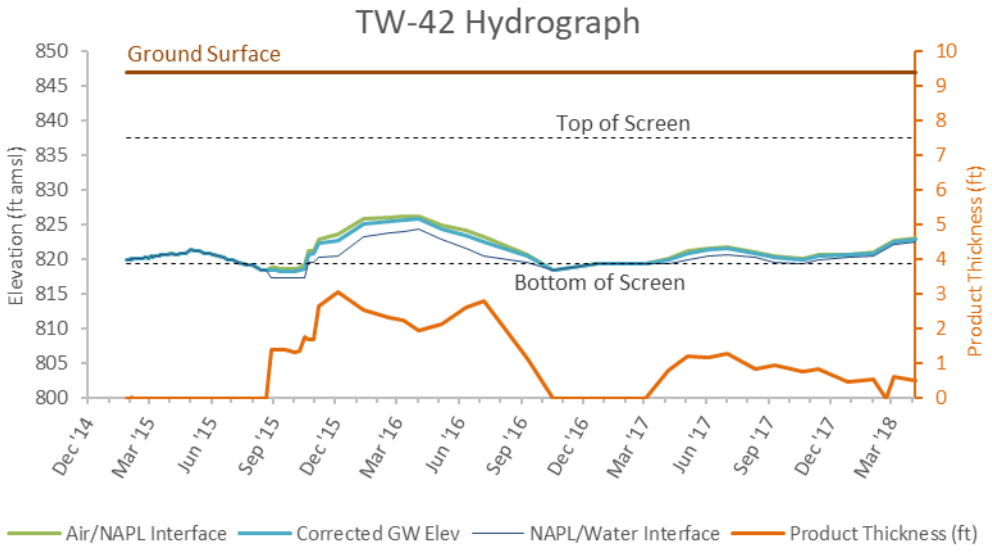

RW-10 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
860
840
820
800
780
760
740
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

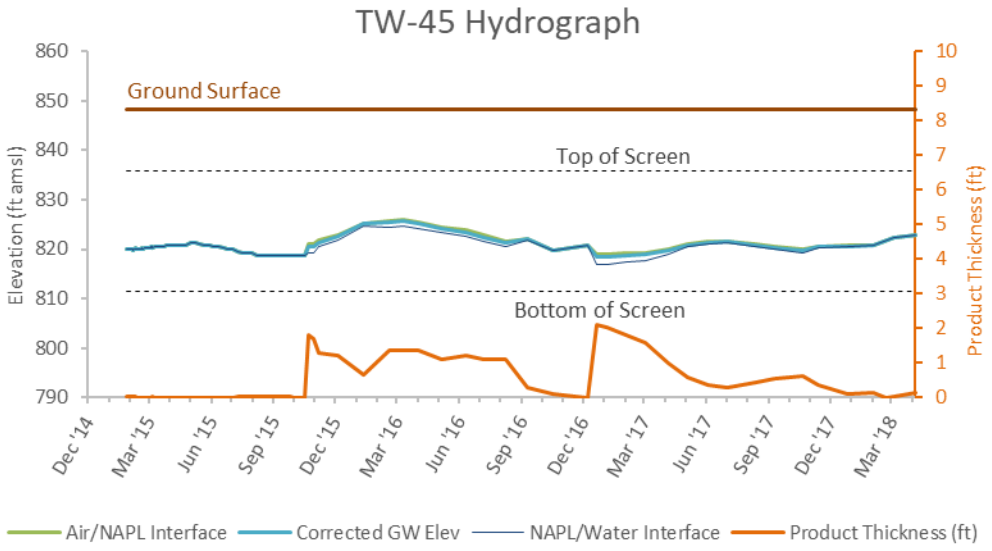

RW-11 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
855
850
845
840
835
830
825
820
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)


RW-13 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
860
850
840
830
820
810
800
790
780
770
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)


RW-15 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
860
850
840
830
820
810
800
790
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

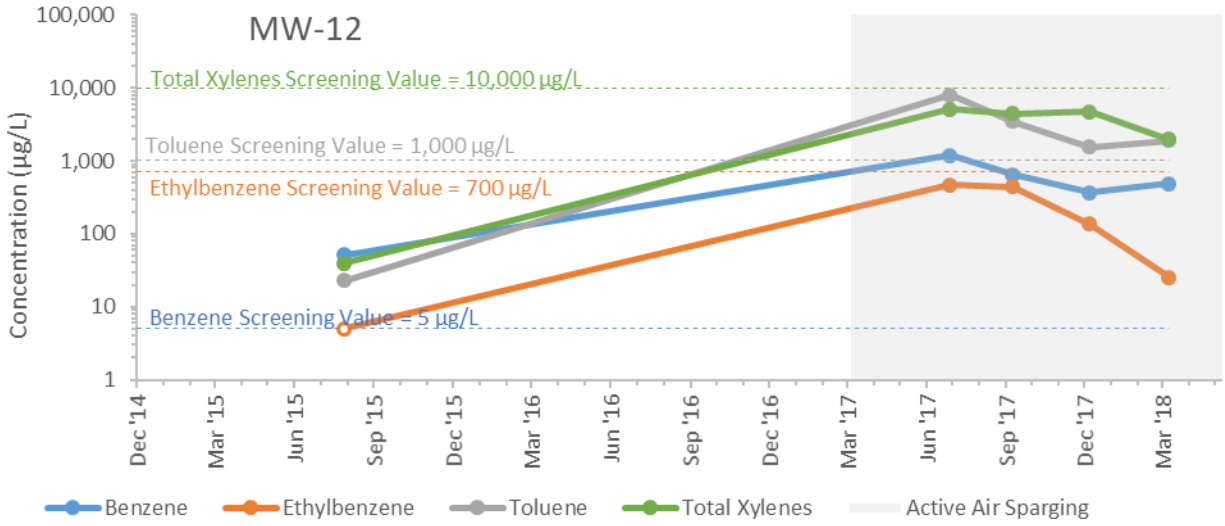

TW-28 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
860
850
840
830
820
810
800
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)


TW-42 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
850
845
840
835
830
825
820
815
810
805
800
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

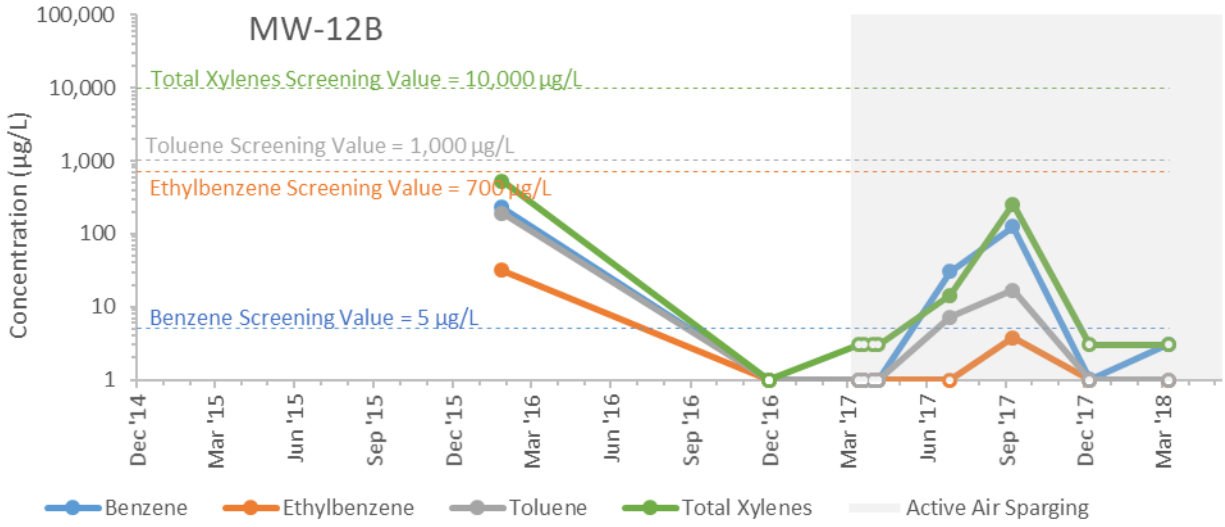

TW-45 Hydrograph
Ground Surface
Top of Screen
Bottom of Screen
Elevation (ft amsl)
Product Thickness (ft)
860
850
840
830
820
810
800
790
10
9
8
7
6
5
4
3
2
1
0
Dec '14
Mar '15
Jun '15
Sep '15
Dec '15
Mar '16
Jun '16
Sep '16
Dec '16
Mar '17
Jun '17
Sep '17
Dec '17
Mar '18
Air/NAPL Interface
Corrected GW Elev
NAPL/Water Interface
Product Thickness (ft)

Appendix H
Groundwater Analytical Trends

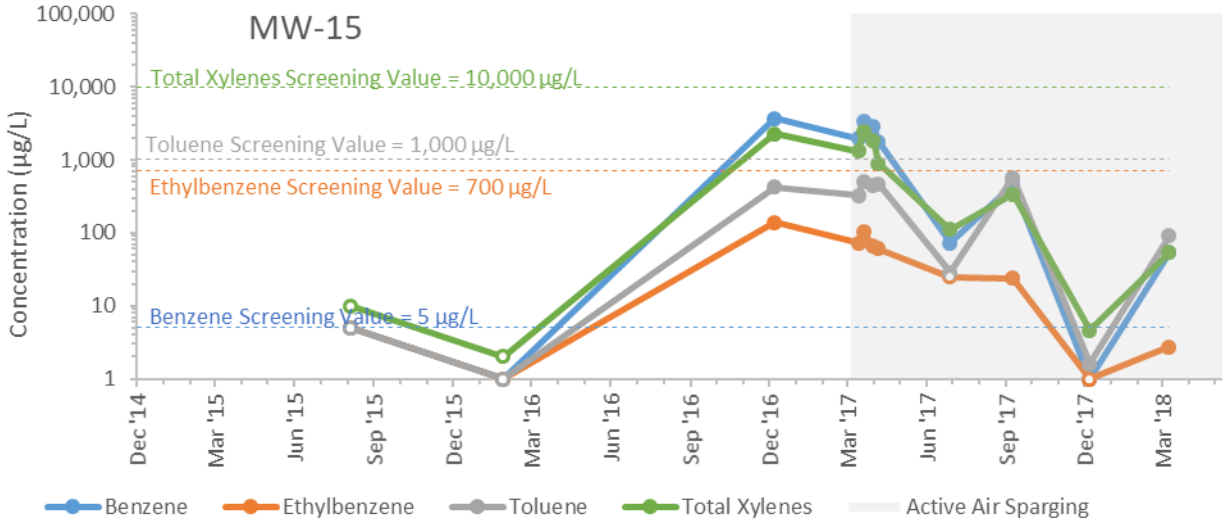
Brown's Creek Monitoring Well Trends:



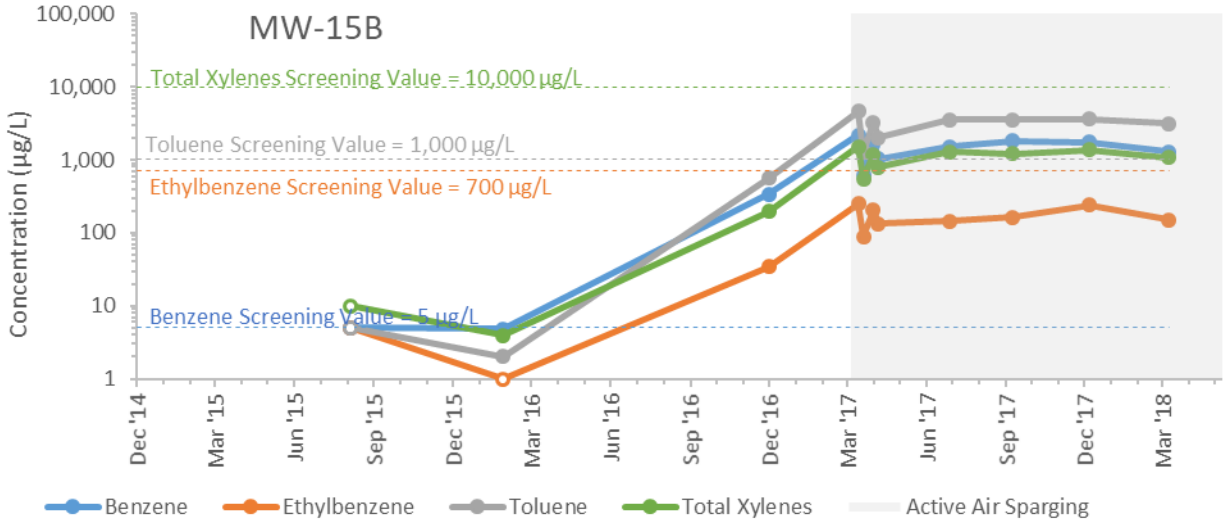
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



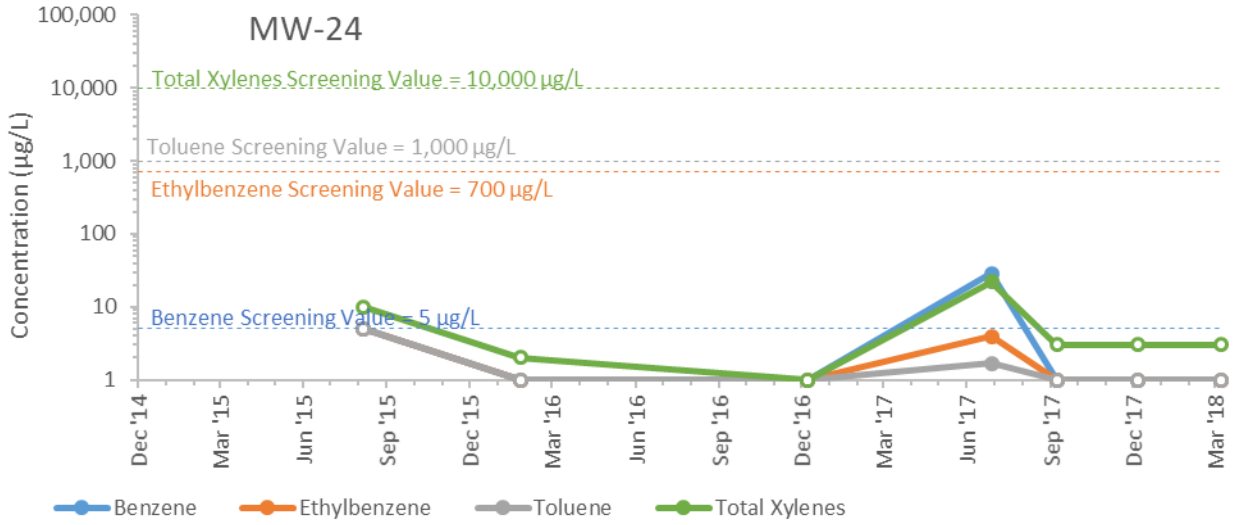
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



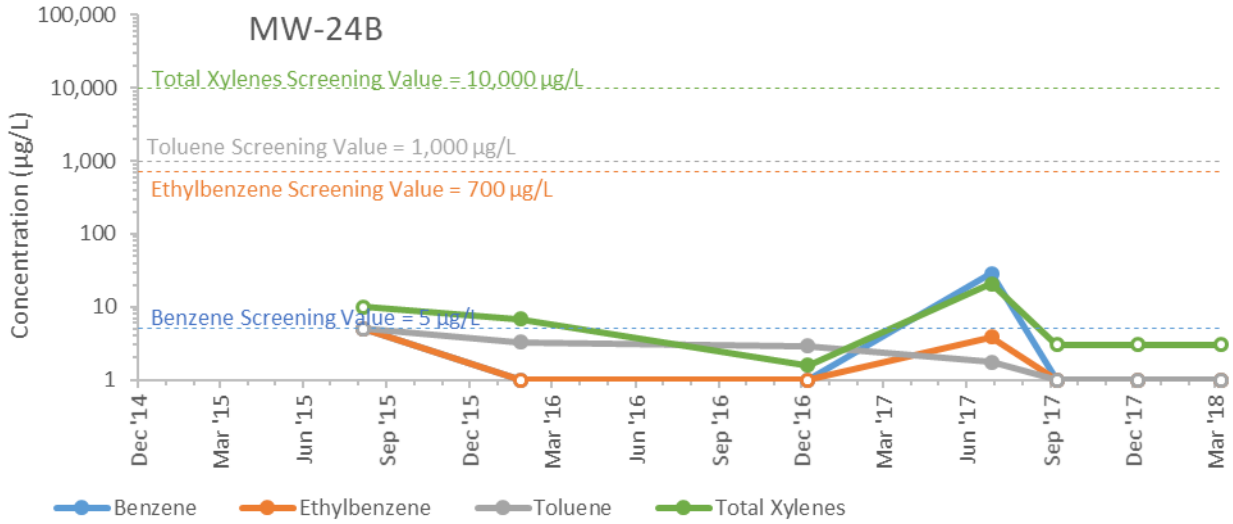
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



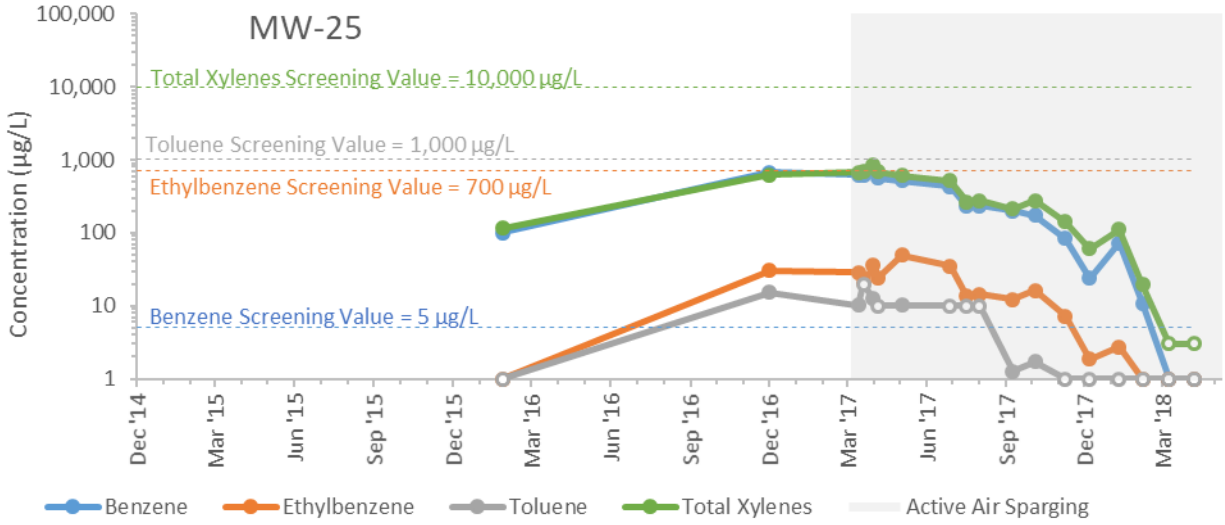
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



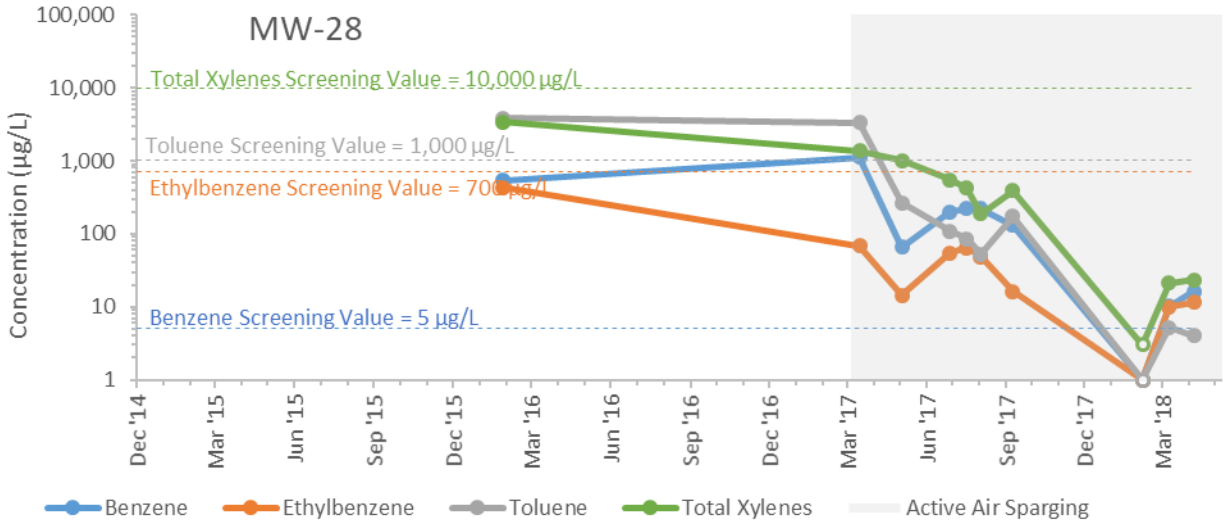
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



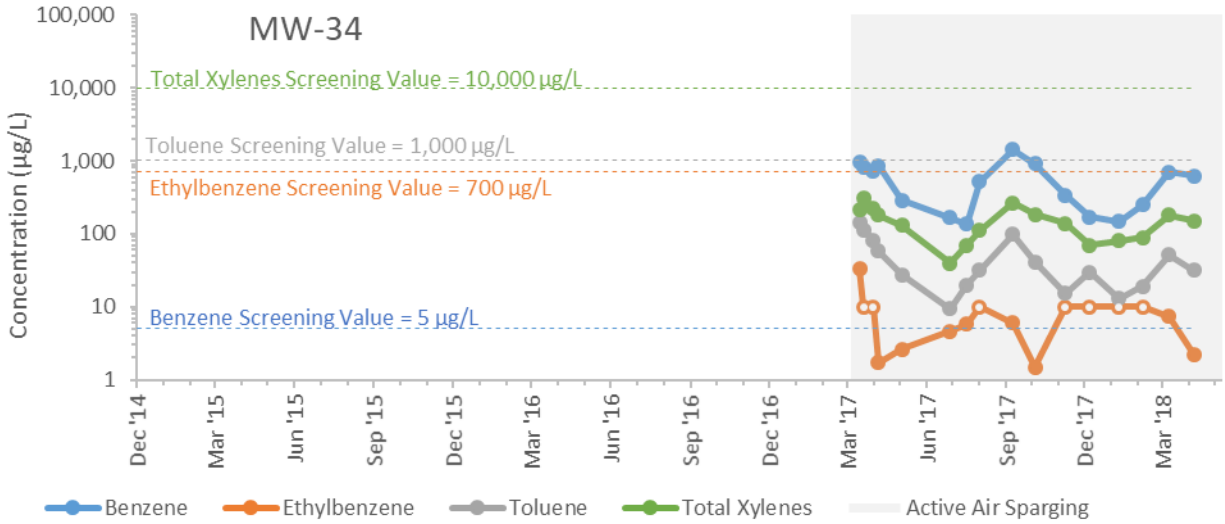
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



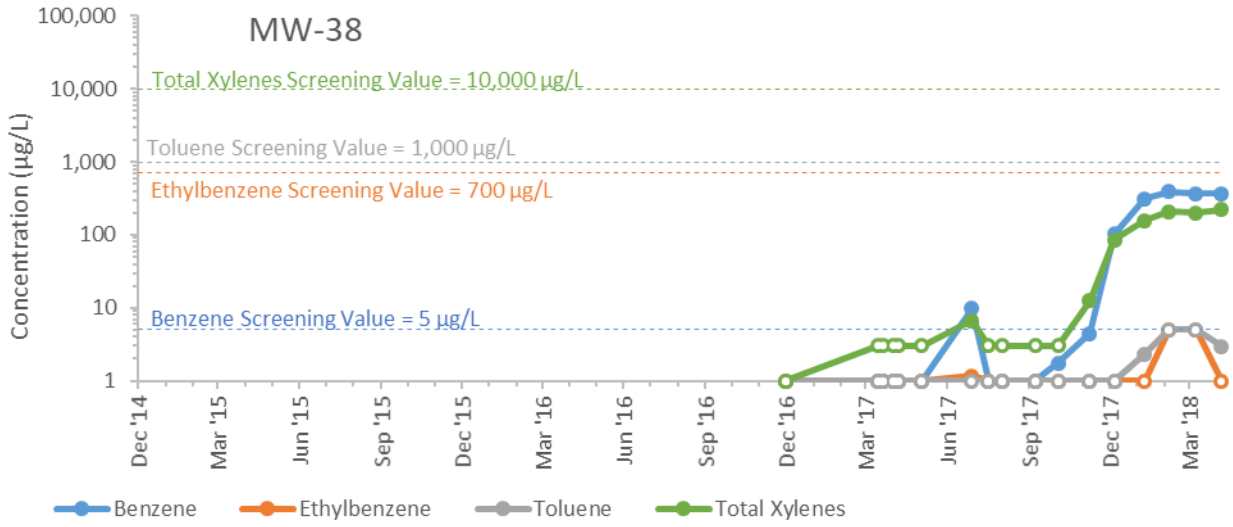
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



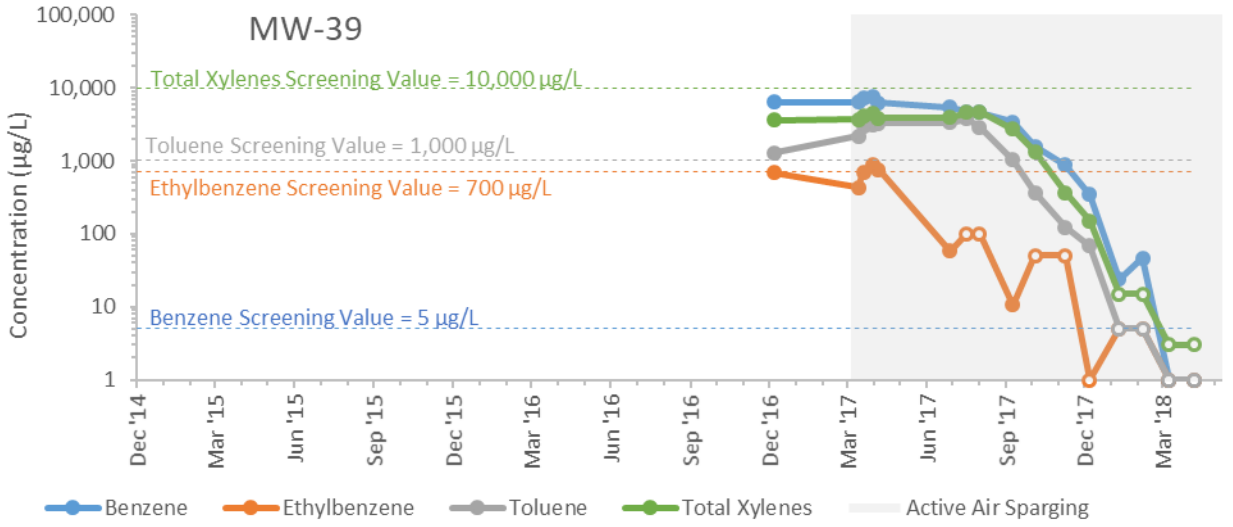
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



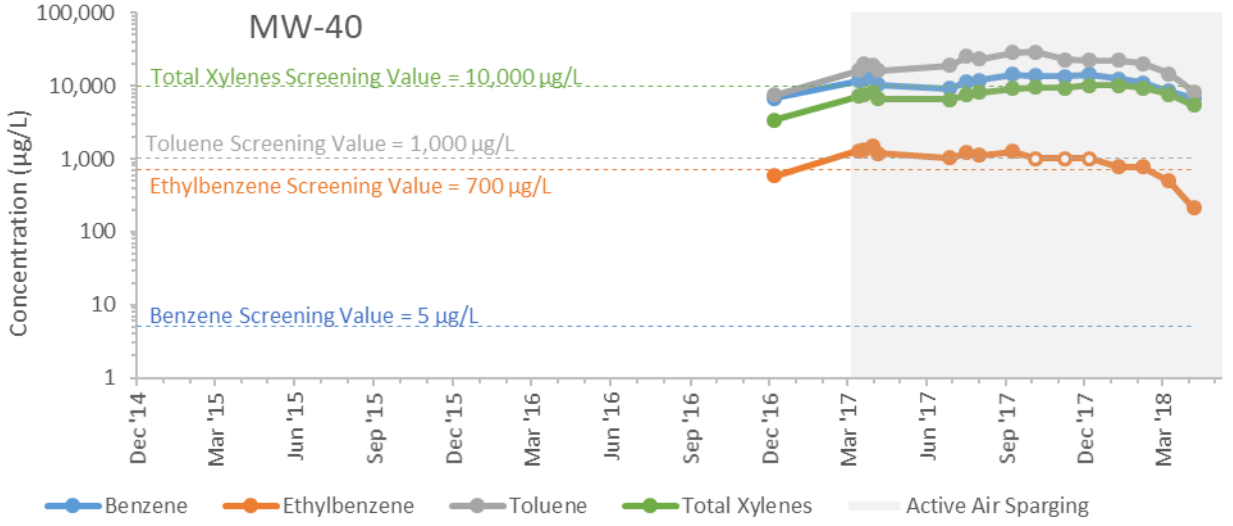
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



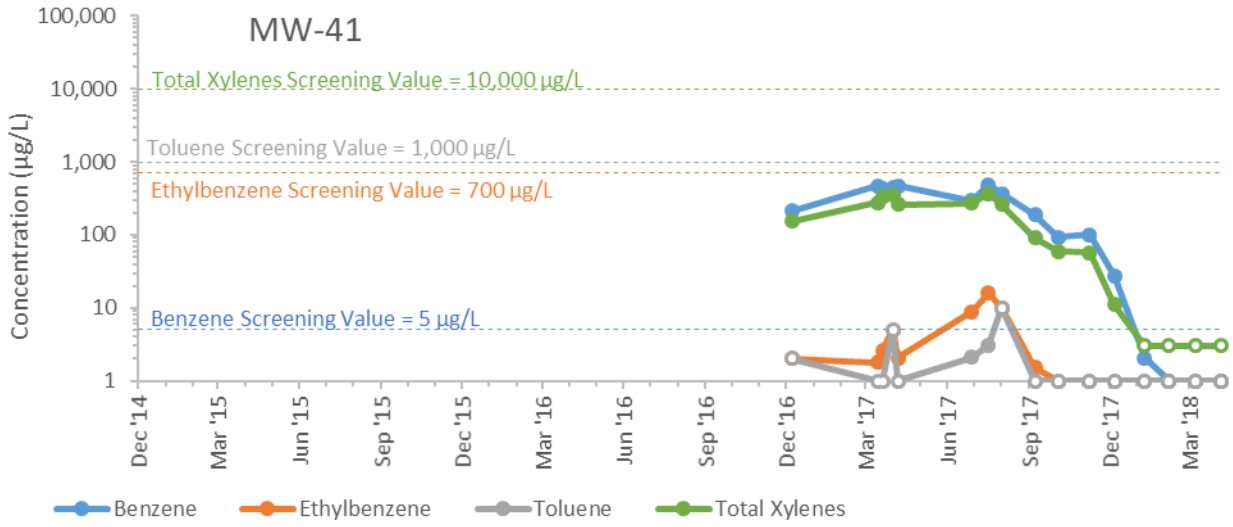
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



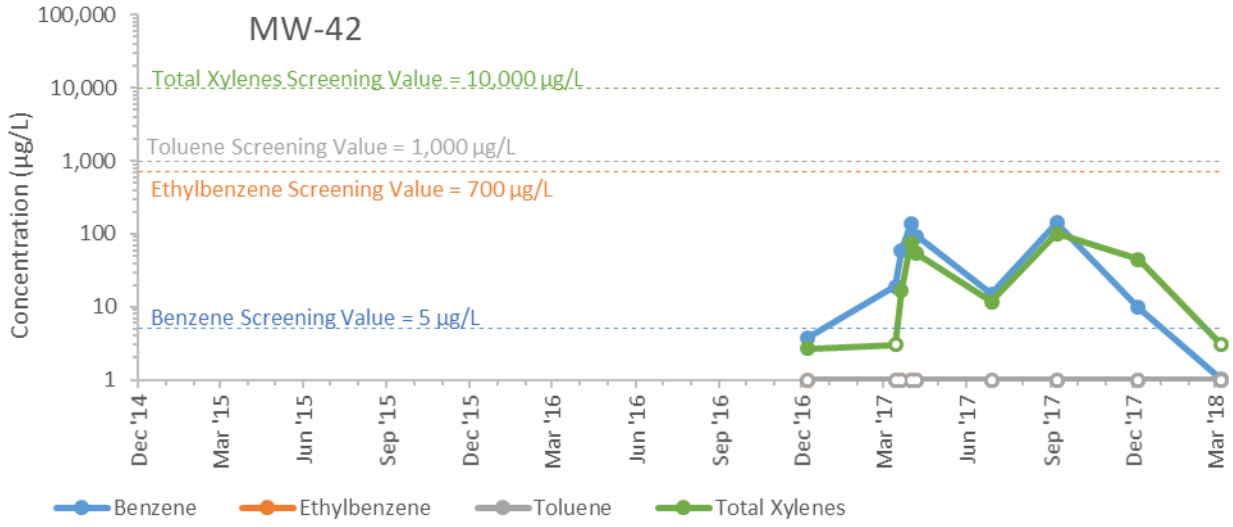
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.

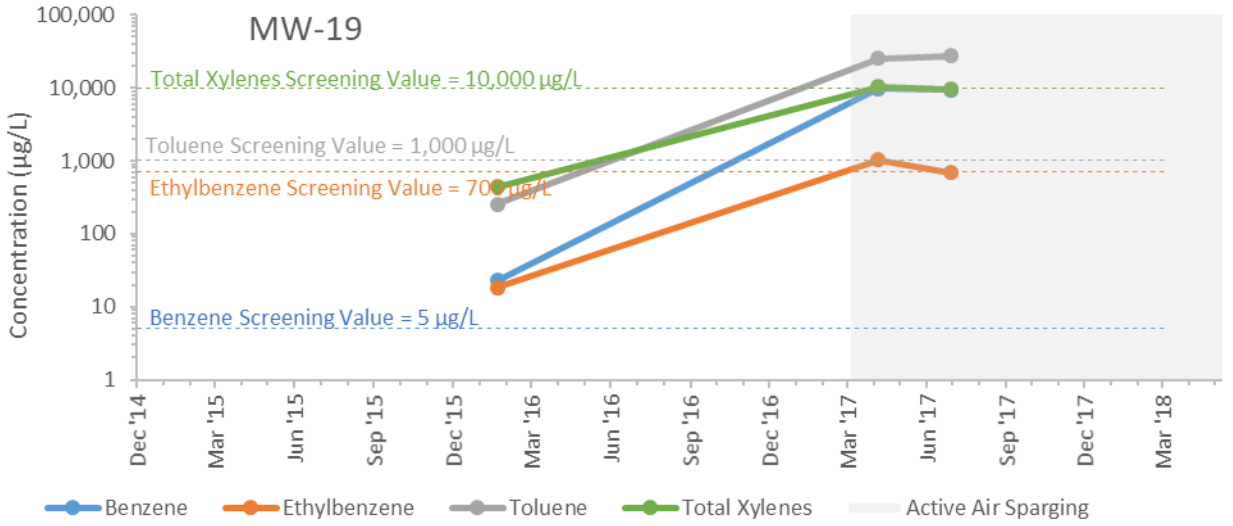


Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.

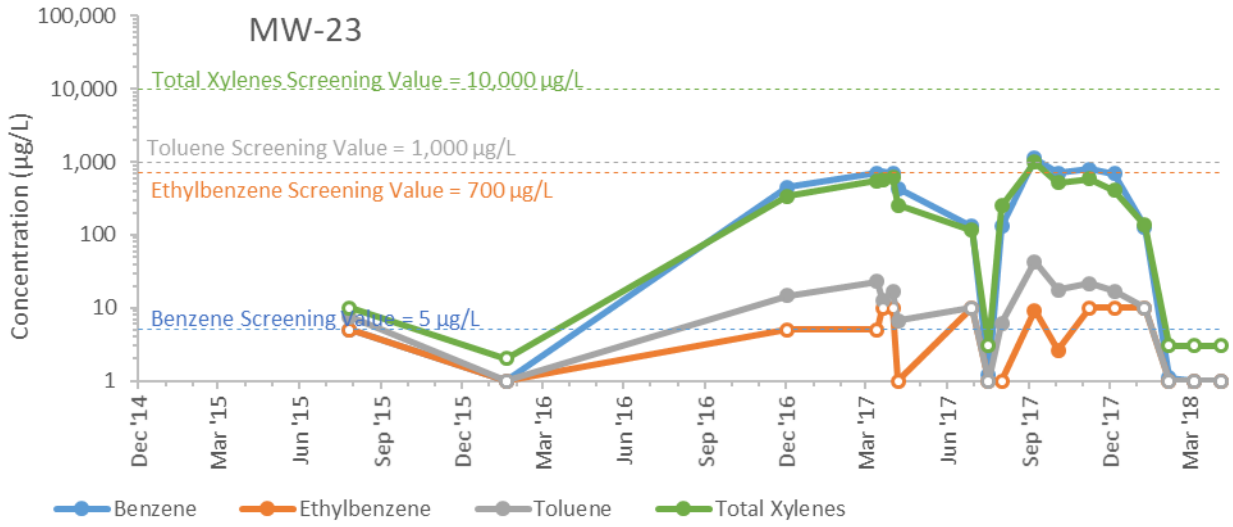


Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.

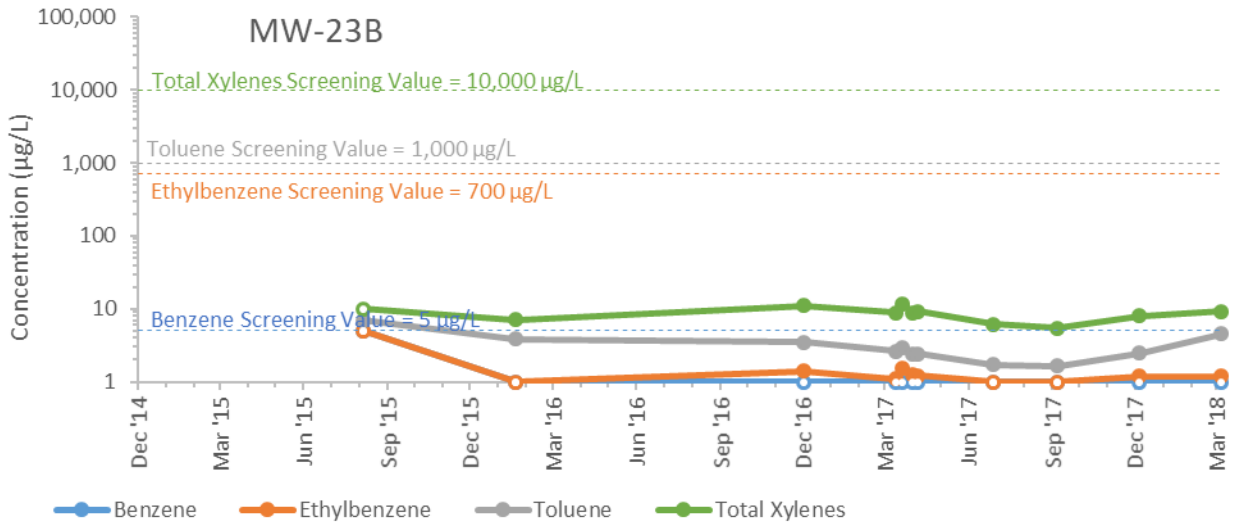
Cupboard Creek Monitoring Well Trends:



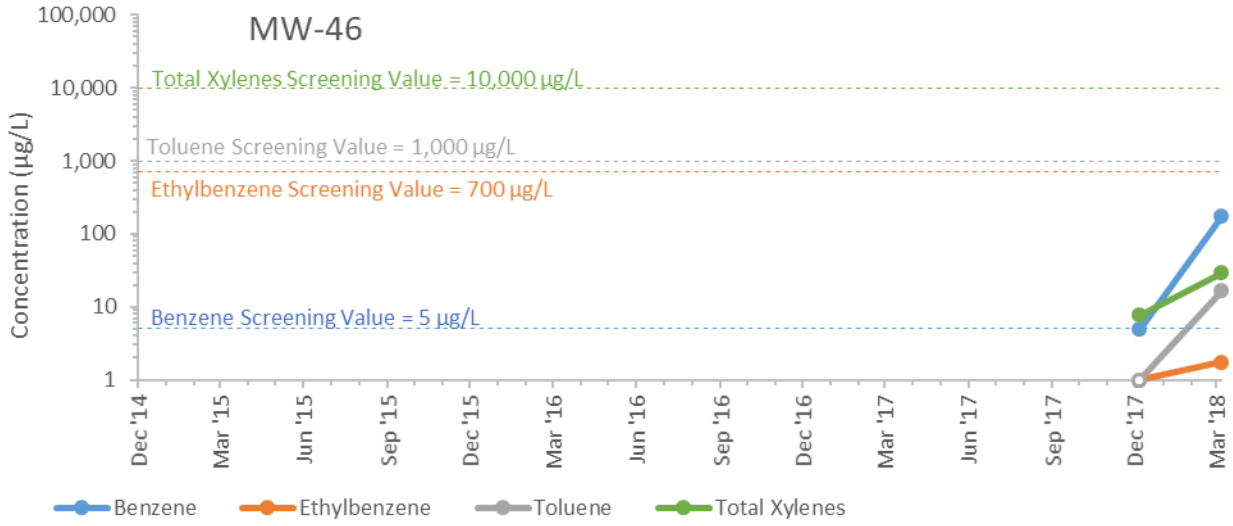
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.

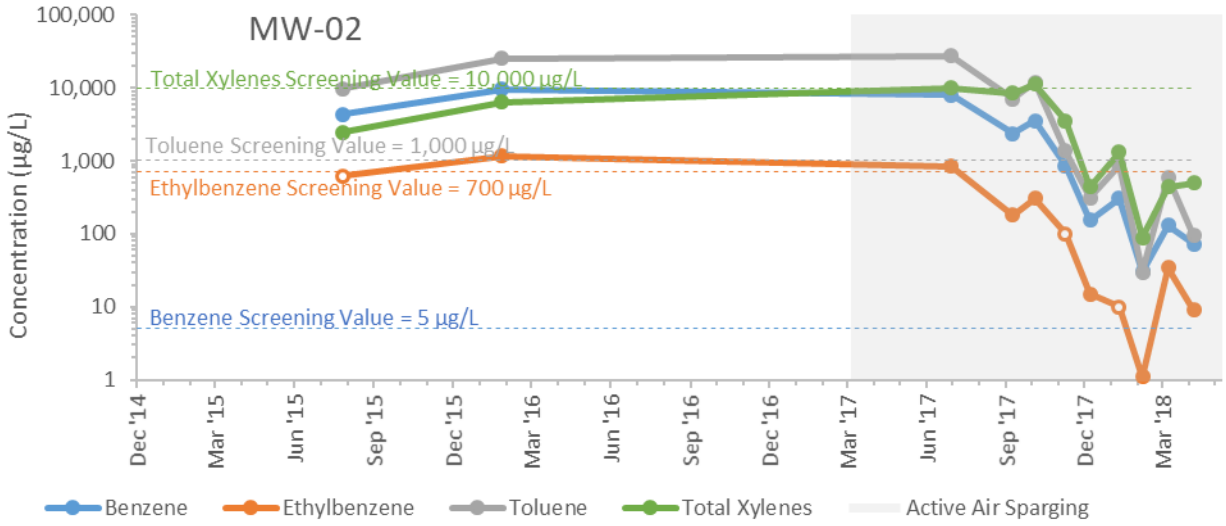


Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.

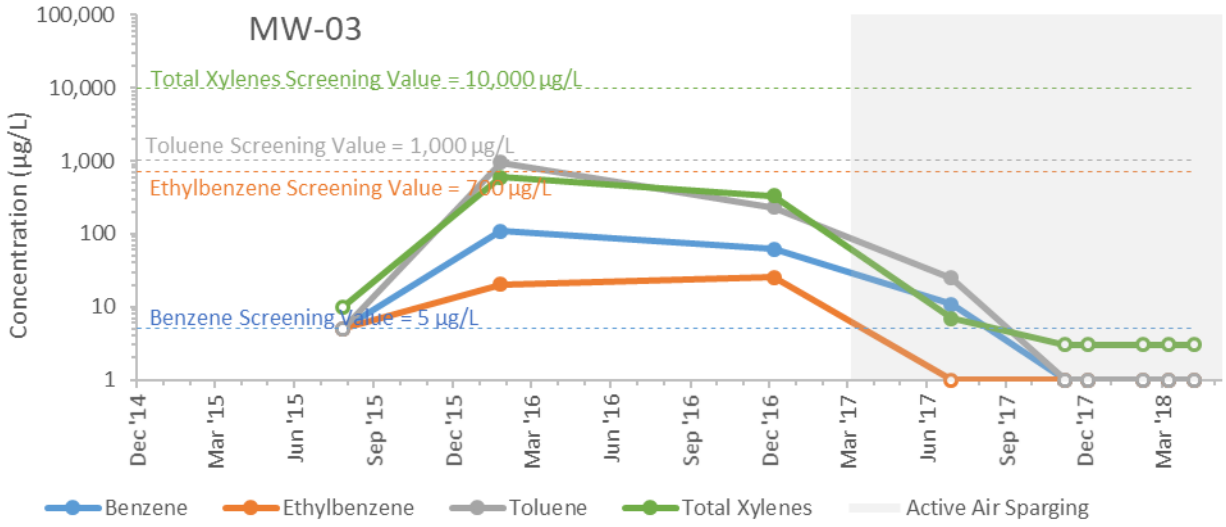


Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.

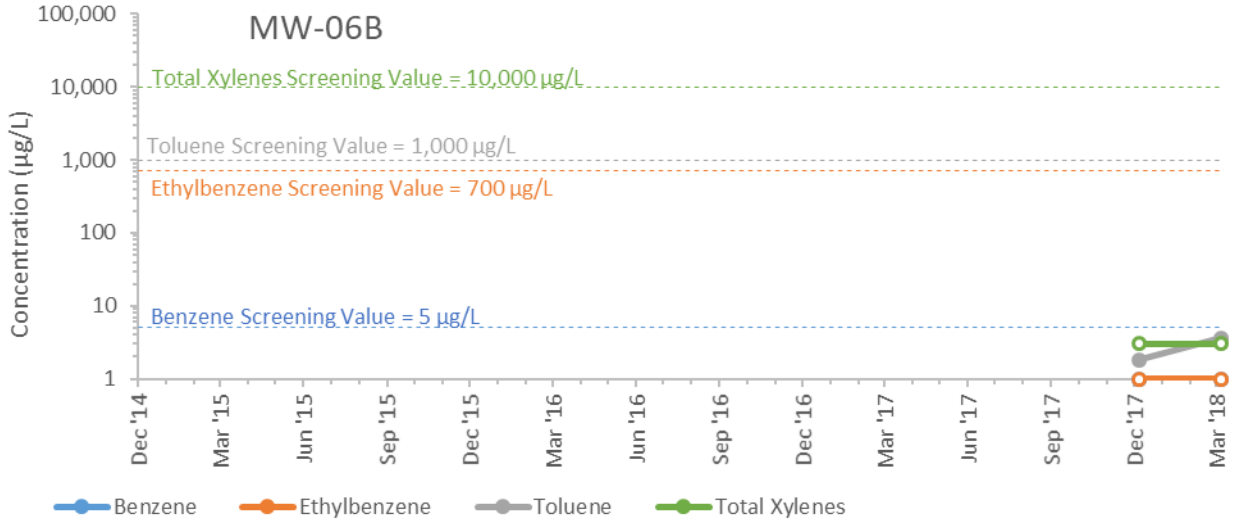
Hayfield Monitoring Well Trends:



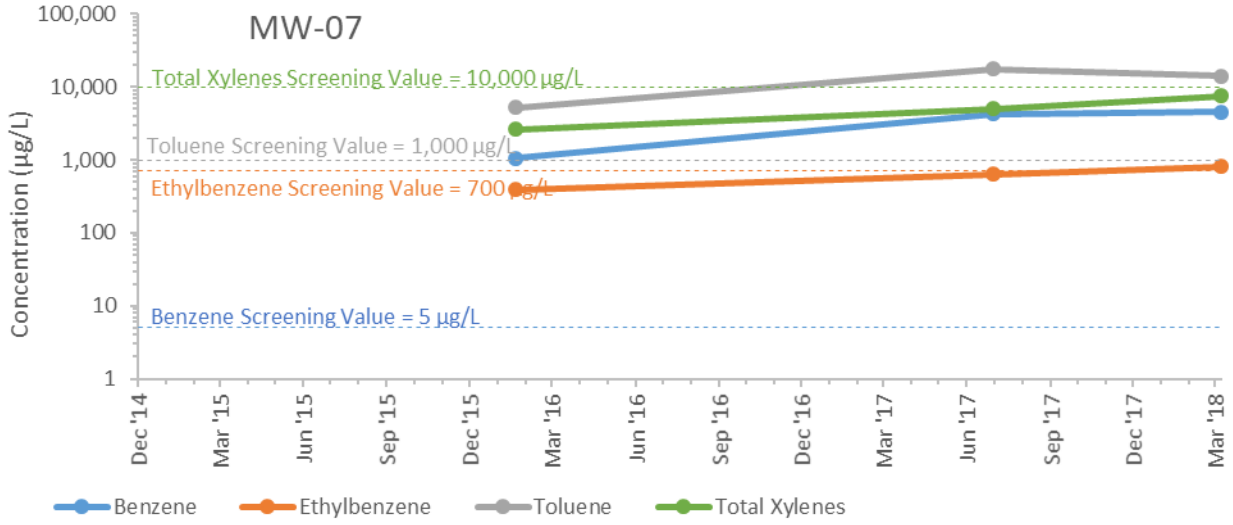
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



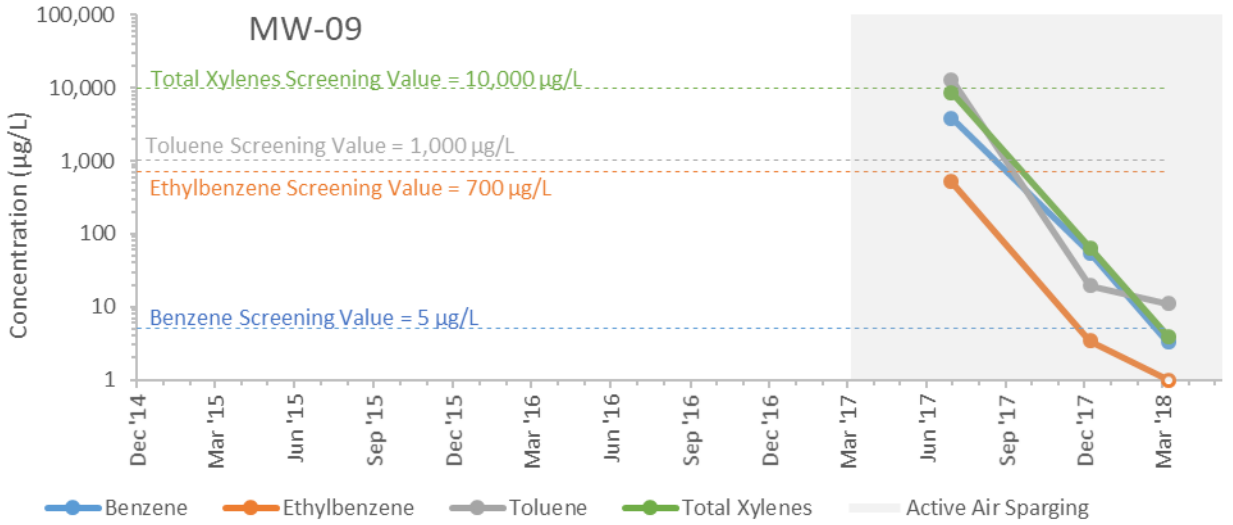
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



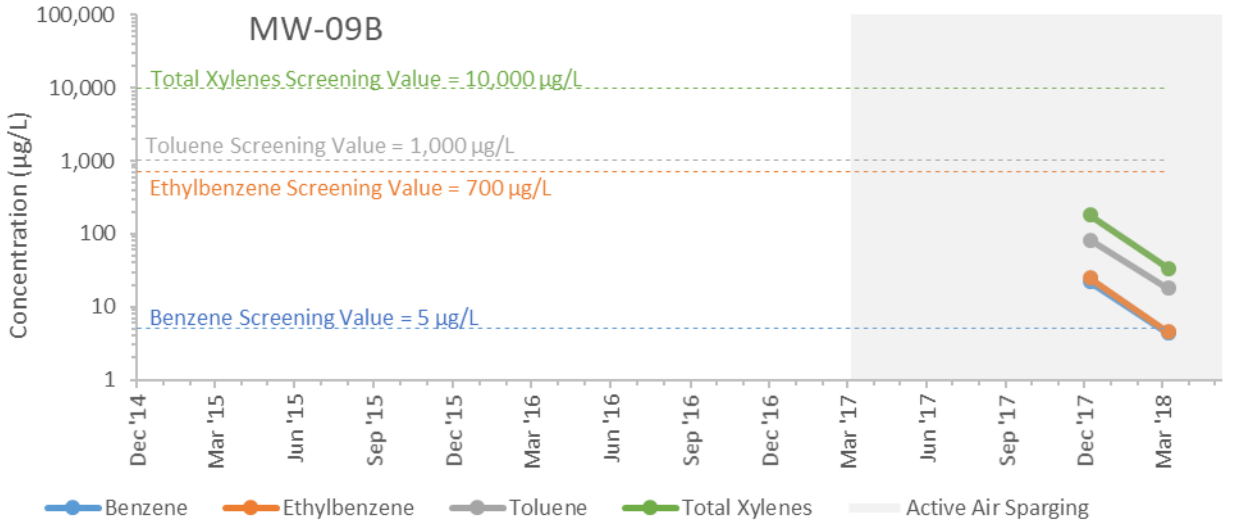
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



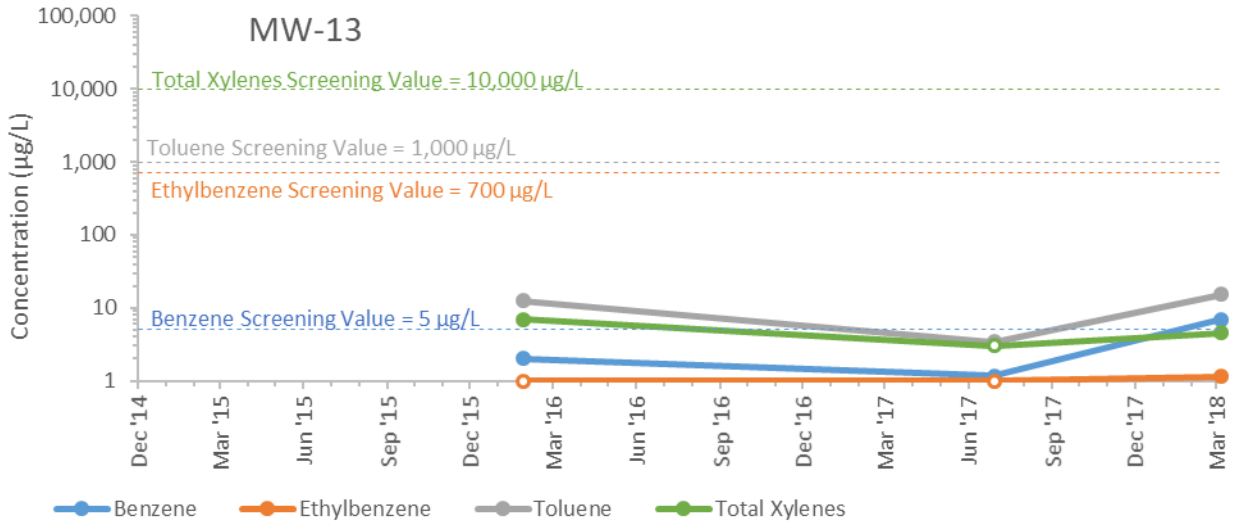
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



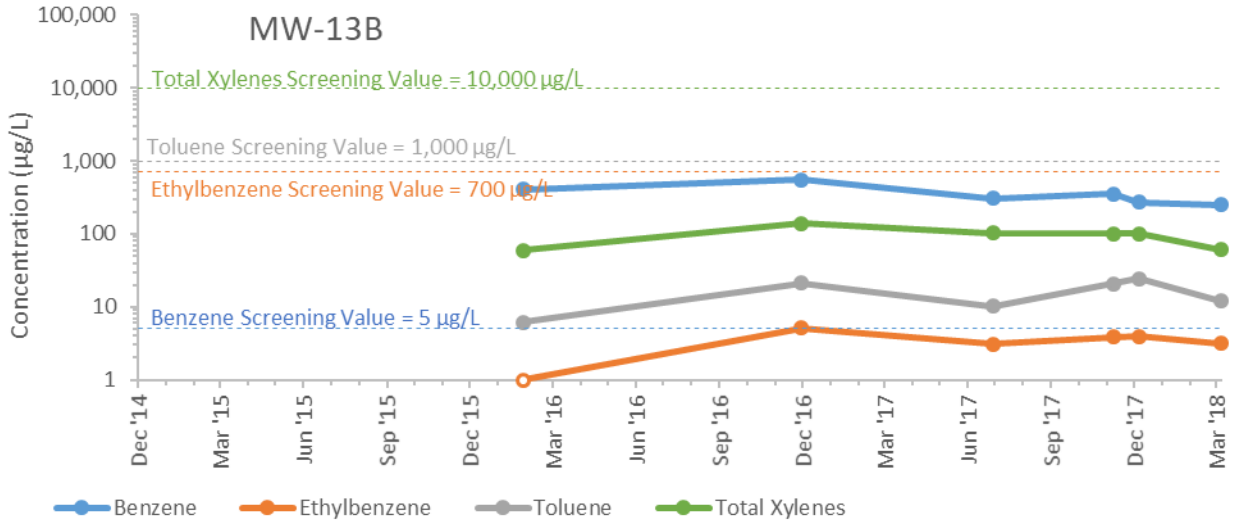
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



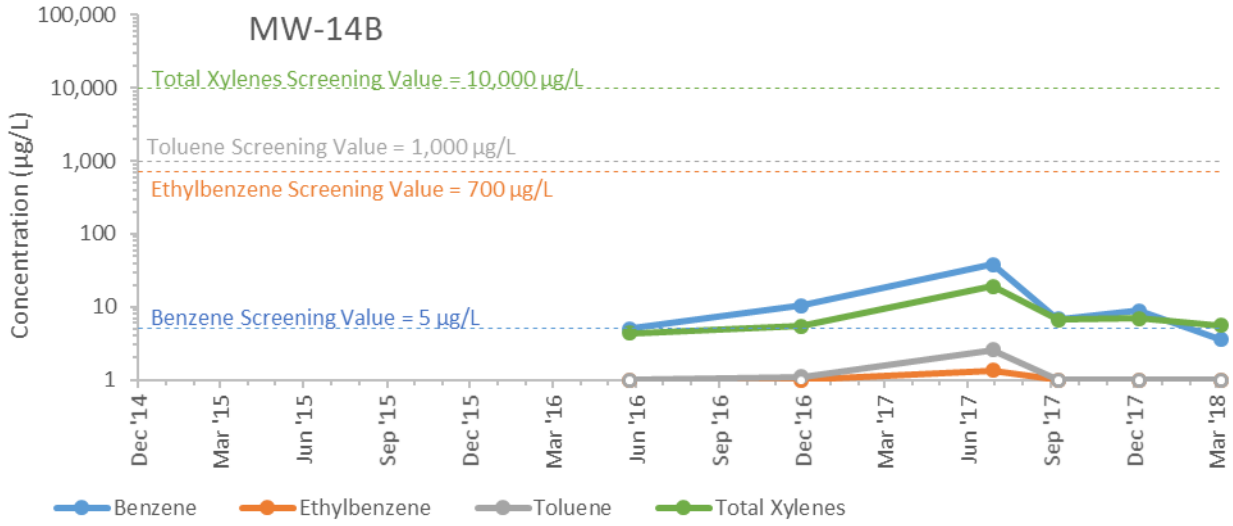
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



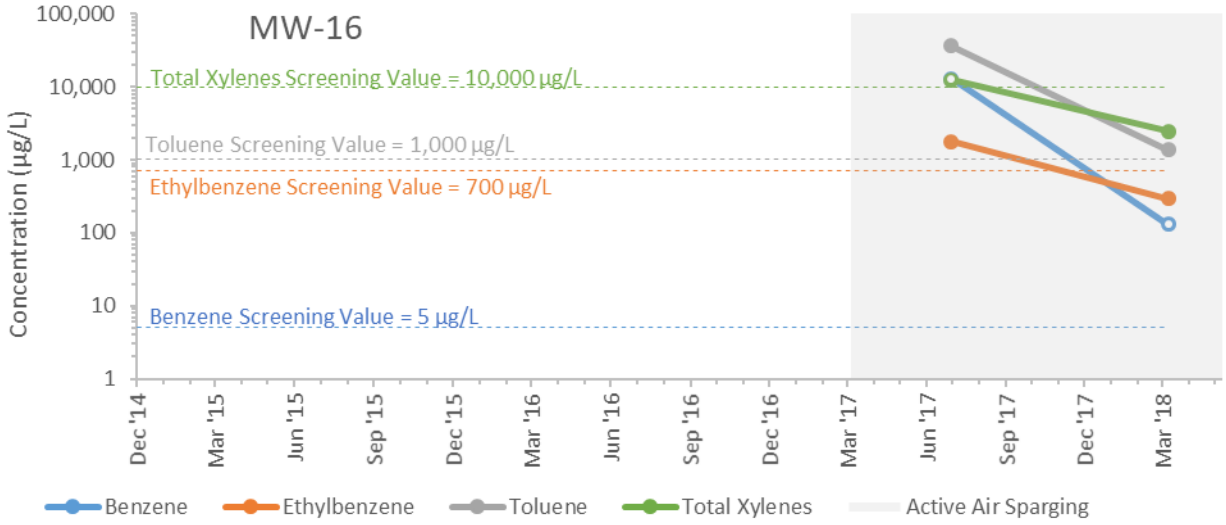
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



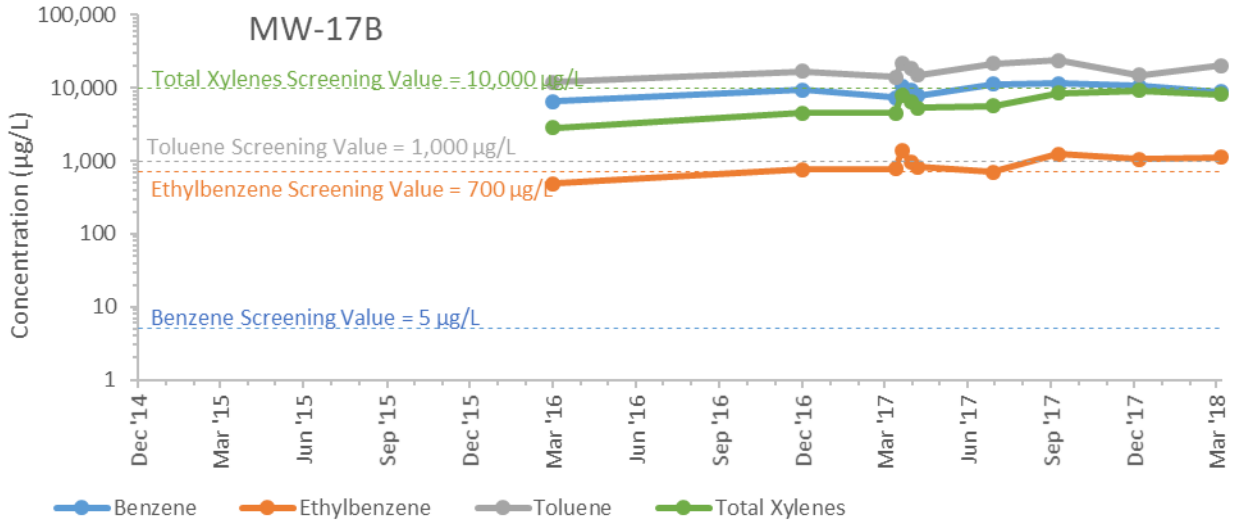
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



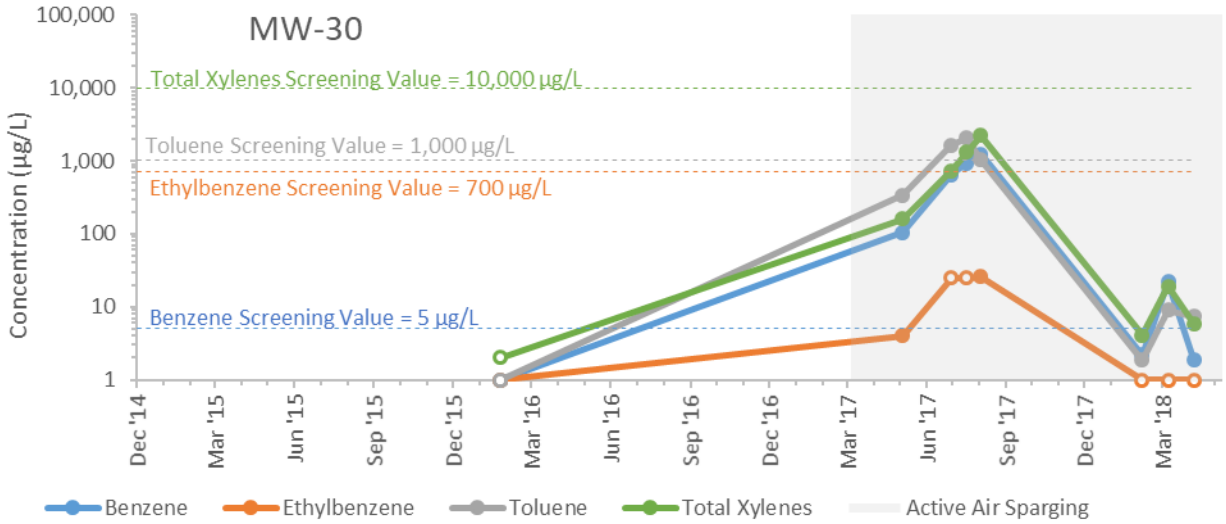
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



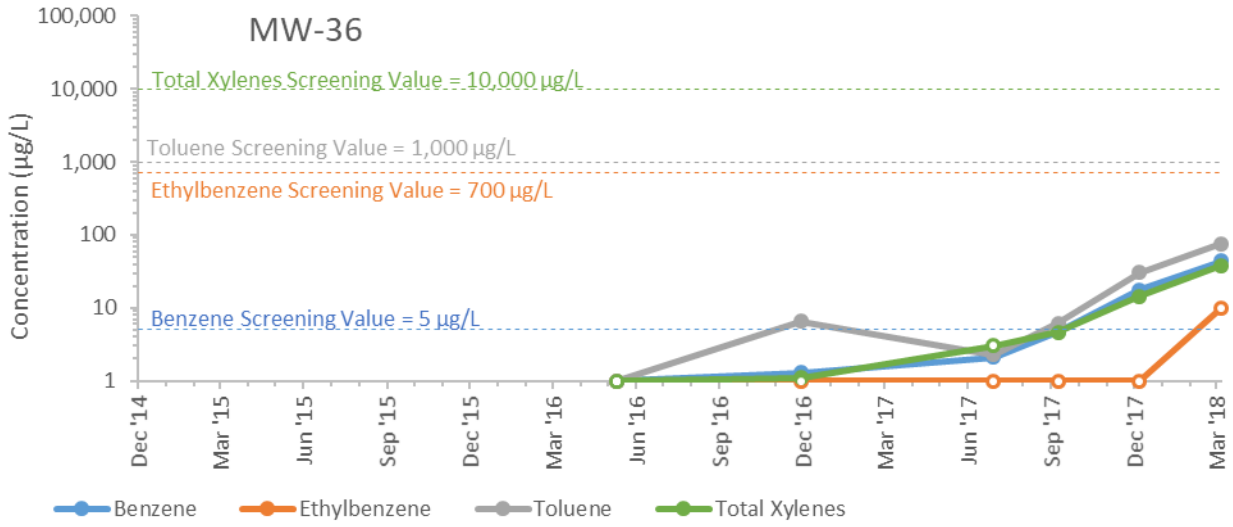
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



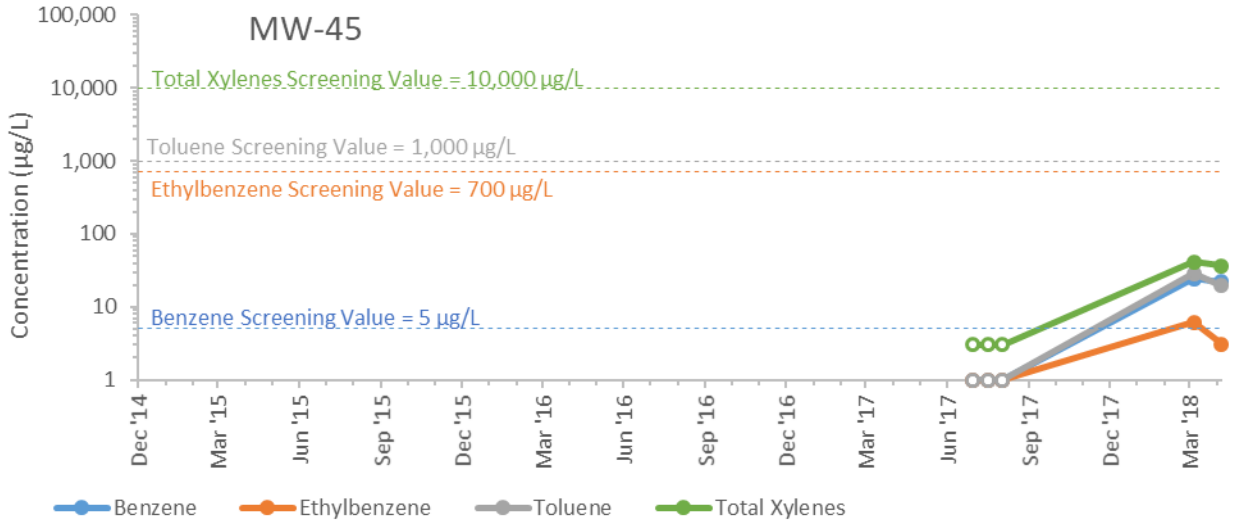
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.

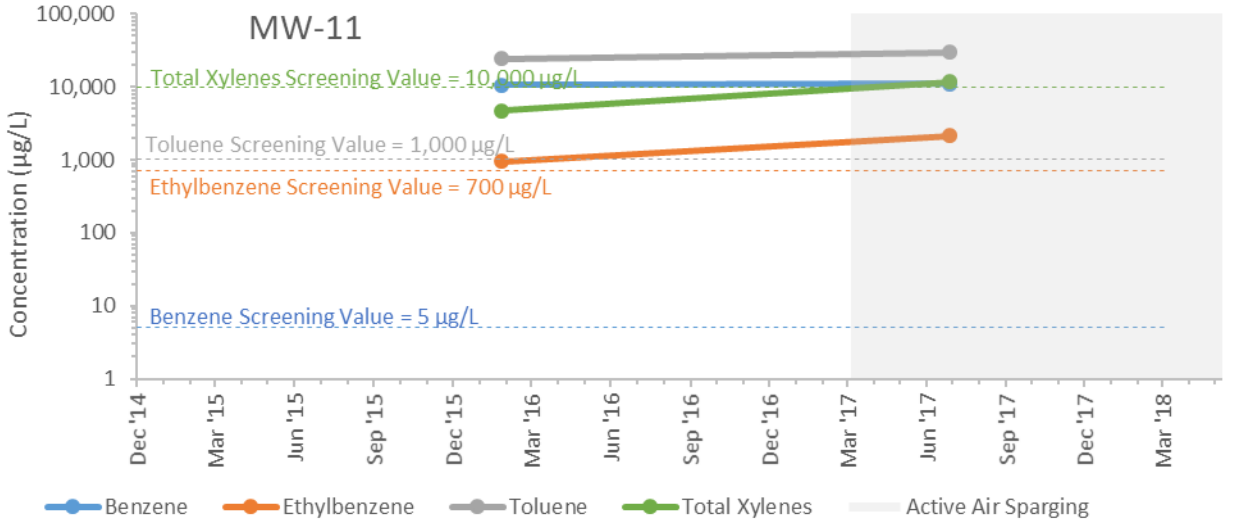


Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.

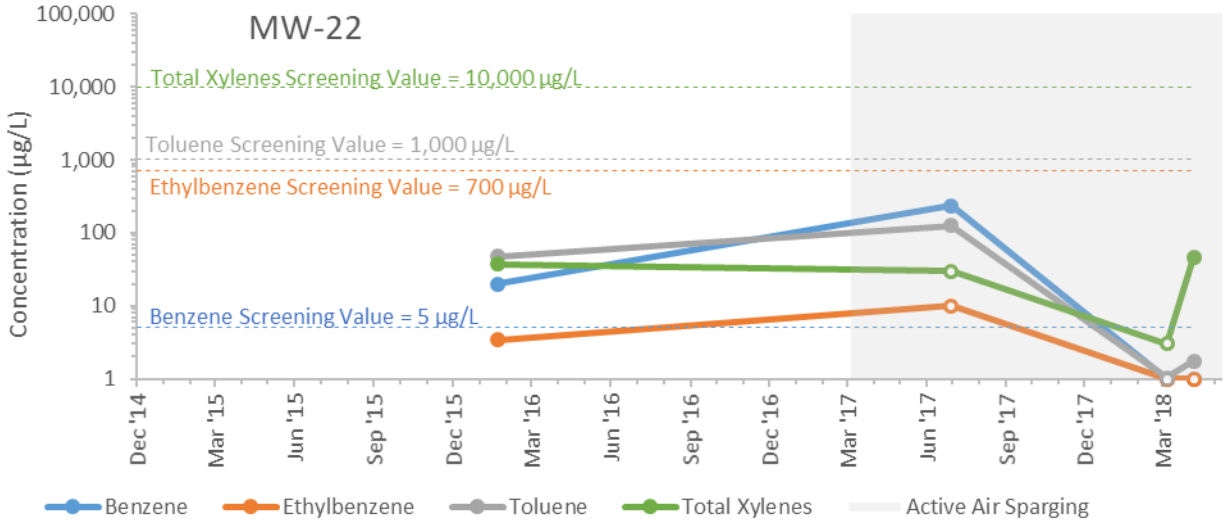


Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.

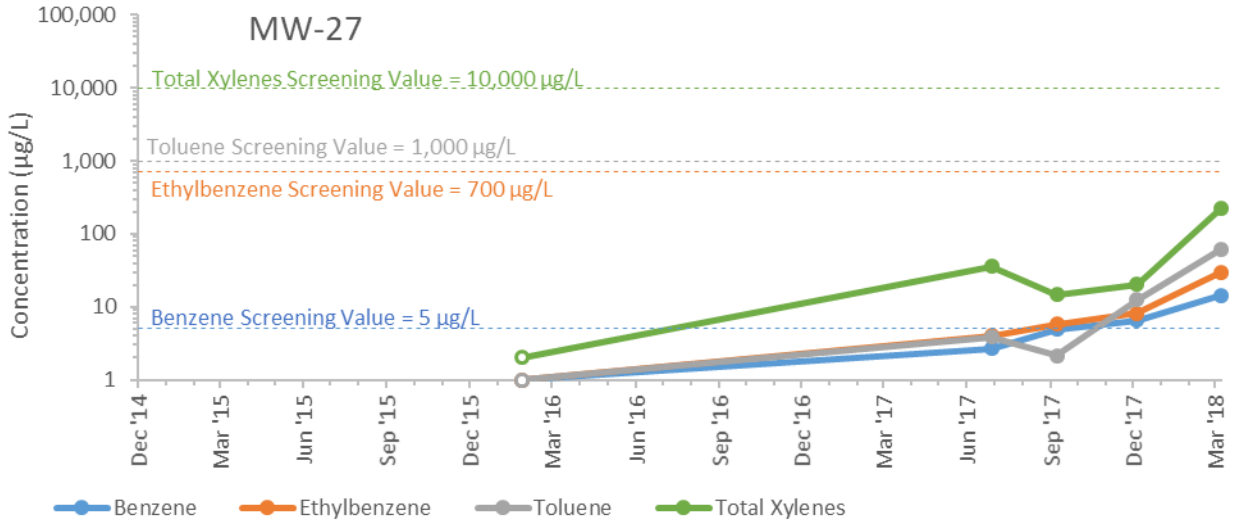
Shallow Bedrock Monitoring Well Trends:



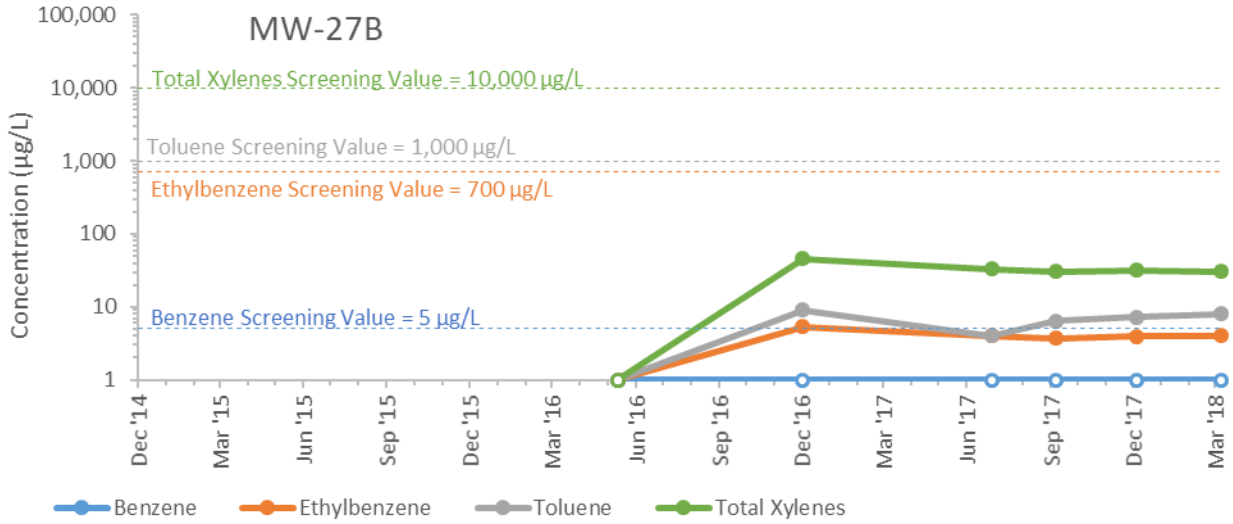
Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.



Open circles denote that the compound was not detected; non-detects are plotted at the reporting limit.