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Delivered via FedEx

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: **Lewis Drive – Monthly Status Update**
Plantation Pipe Line Company
Belton, South Carolina
Site ID #18693, "Kinder Morgan Belton Pipeline Release"



Dear Ms. Coleman,

On behalf of Plantation Pipe Line Company, CH2M is submitting the attached Monthly Status Update covering activities conducted in December 2016 at the Lewis Drive site. If you have any questions or concerns, please call me at 919-760-1777, Mr. Scott Powell/CH2M at 678-530-4457, or Mr. Jerry Aycock/Plantation at 770-751-4165.

Regards,
CH2M HILL Engineers, Inc.



William M. Waldron, P.E.
Senior Project Manager

Enclosures

- Monthly Status Update including:
 - Figure 1 – Groundwater and Surface Water Elevation Map
 - Figure 2 – Product Thickness Map
 - Figure 3 – Groundwater Analytical Results in Residuum Aquifer
 - Figure 4 – Groundwater Analytical Results in Bedrock Aquifer
 - Table 1 – Well Construction Information
 - Table 2 – Stream Gauge Construction Information
 - Table 3 – Analytical Results for Surface Water
 - Table 4 – Groundwater Elevation and Product Thickness Data
 - Table 5 – Analytical Results for Groundwater
 - Surface Water Analytical Laboratory Report

- o Groundwater Analytical Laboratory Reports

Cc (via e-mail):

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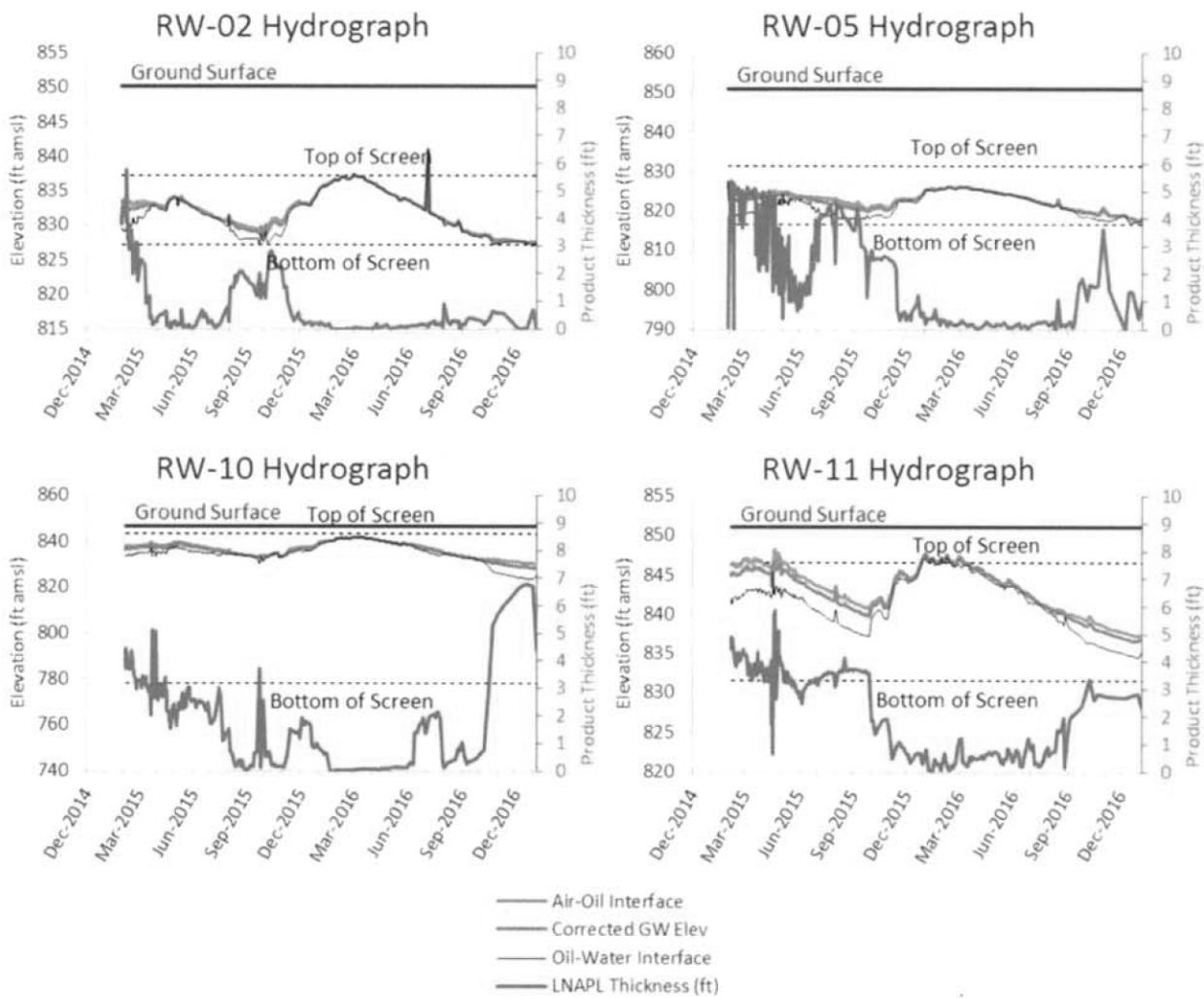
Monthly Status Update
Plantation Pipe Line Company
Lewis Drive Remediation
Site ID #18693 "Kinder Morgan Belton Pipeline Release"
December 2016

Surface Water

- Routinely inspected Brown's Creek and the wetland area south of West Calhoun Rd. and adjacent to Cupboard Creek for hydrocarbon sheen, odor, or distressed vegetation. No new signs of distressed vegetation, hydrocarbon sheen, or odor have been noted. Wide spread biological sheens were noted on both water bodies. The locations of two previously identified seeps are presented on Figures 1 and 2. The route of inspection is indicated on Figure 1.
- No other biota or surface water abnormalities were observed.
- To date, 29 rounds of surface water samples have been analyzed for benzene, toluene, ethylbenzene, xylenes, and naphthalene (see Table 3).
- Collected 13 surface water samples in December at locations SW-01, SW-02, SW-03, SW-04, SW-08, SW-09, SW-10, SW-11, SW-12, SW-13, FP-01, FP-02, and FP-03 (locations SW-05 and SW-06 in Cupboard Creek and SW-07 off Brown's Creek were dry).
 - The following concentrations were detected at the surface water sampling location SW-12. This point is located just downgradient of a seep on the hillside above Brown's Creek. The seep location is plotted on Figures 1 and 2.
 - 707 micrograms per liter ($\mu\text{g}/\text{L}$) benzene
 - 97.3 $\mu\text{g}/\text{L}$ ethylbenzene
 - 1,790 $\mu\text{g}/\text{L}$ toluene
 - 621 $\mu\text{g}/\text{L}$ total xylenes
 - 16.8 $\mu\text{g}/\text{L}$ naphthalene
 - Benzene was also detected at the nearest downgradient surface water location, SW-01, at 12.6 $\mu\text{g}/\text{L}$ in December.
 - Apart from SW-01 and SW-12, no dissolved hydrocarbons were detected above their respective surface water standards in the remaining surface water samples upstream of SW-12 or downstream of SW-01, where the impacted groundwater extends to Brown's Creek. Analytical lab report is attached.
- Stream elevations from staff gauges are tabulated along with groundwater elevations in Table 2 and are depicted on Figure 1.

Product Recovery

- Gauged depth to product and depth to water in recovery sumps, trenches, piezometers, recovery wells, and stream gauges on a routine basis. During the site-wide gauging event on December 21, 2016, 30 wells and sumps had product thicknesses of 0.5 foot or greater. The greatest product thickness was 6.79 feet in RW-10. These locations are all away from surface water bodies at the site. Groundwater elevation and product thickness data are presented in Table 4 and on Figures 1 and 2.
- Collected 213,951 gallons (5,094 barrels) of product through the end of December 2016. A total of approximately 4,091 gallons of product were collected in December, for a total of 5,020 gallons of product collected in 2016. Evacuated product/water from Trench RT-2 installed adjacent to Brown's Creek from the recovery trench extraction points. See Table 5 for wells and sumps that were used for product recovery.
- Standing water was observed in Recovery Trench 2. Standing water is retained by a downgradient berm and an absorbent boom that is swapped out as needed (approximately monthly).
- Hydrographs of select wells generally representative of light non-aqueous phase liquid (LNAPL) thickness trends are presented below:



Groundwater

- Between November 29 and December 7, 2016 the initial pre-startup, baseline groundwater sampling event was conducted, as described in the Corrective Action Plan submitted September 1, 2016. Of the 53 wells identified for sampling, 6 were not sampled due to the presence of free product, 11 were not collected due to an insufficient volume of water in the well to sample, and 1 was not collected due to silting of the well (MW-02B).
- Analytical results are presented in Table 6.
- The analytical results for the residuum and bedrock aquifers are presented on Figures 3 and 4, respectively.

Remedial Design and Construction

- The equipment fabricator completed the third-party inspection process required by the South Carolina Department of Labor, Licensing and Regulation to demonstrate that the modular building meets state specifications.
- Connected conveyance piping to the horizontal air sparging wellheads.
- Began excavating a separate trench for conveyance lines for the bedrock sparge wells (to be drilled in 2017).
- Completed installing the equipment canopy.
- Framed and placed concrete for the building footers and piers.
- Framed and placed concrete for the compressor equipment pad.
- Performed earthwork in the building area to remove saturated (but unimpacted) soil, backfill with dry soil, and compact as needed in preparation for the building delivery.
- Installed carbon dioxide flux traps on December 20 to quantify natural source zone depletion (NSZD) parameters.

Regulatory Interaction

- Issued monthly status update to SCDHEC.
- Conducted internal storm water pollution prevention plan (SWPPP) inspections on December 1, 7, 14, 21, and 28.

Future Activities

- Install 3 additional monitoring well pairs as proposed in a letter to SCDHEC dated December 22, 2016, entitled "Request for Well Permit to Install Additional Monitoring Wells and Pilot Bedrock Sparging Wells." These locations may be adjusted based on field conditions.
- Install 3 pilot bedrock sparging wells in the Shallow Bedrock Zone south of Lewis Drive.
- Increase product collection frequency to twice a week.
- Complete constructing equipment compound.
- Perform equipment commissioning and initial start-up per the Corrective Action Plan.
- Gauge recovery wells, recovery sumps, and recovery trenches monthly for depth to groundwater and free product thickness.
- Evacuate product from product recovery sumps, trenches, and recovery wells.
- Continue to dispose collected liquids offsite.
- Continue routine visual inspections of Brown's Creek and Wetland #1 (Cupboard Creek).
- Conduct monthly surface water sampling at 16 pre-determined locations along Brown's Creek and Cupboard Creek.
- Continue monthly status updates to SCDHEC.
- Continue coordination with landowners and legal counsel on an as-needed basis.

Wildlife Issues

- None.

Cumulative Product Shipped from the Site

| Date | Destination | Total Product (gal) | Date | Destination | Total Product (gal) |
|------------|---------------------|---------------------|------------|------------------------|---------------------|
| 12/9/2014 | PPL Greensboro | 4,289 | 3/4/2015 | Allied Energies | 4,000 |
| 12/9/2014 | PPL Greensboro | 3,100 | 3/16/2015 | Allied Energies | 5,200 |
| 12/12/2014 | PPL Greensboro | 1,189 | 6/3/2015 | Allied Energies | 6,500 |
| 12/30/2014 | Crystal Clean (FCC) | 5,057 | 6/3/2015 | Allied Energies | 4,214 |
| 12/31/2014 | Crystal Clean (FCC) | 5,333 | 8/10/2015 | Allied Energies | 6,000 |
| 1/4/2015 | Crystal Clean (FCC) | 5,000 | 11/2/2015 | Allied Energies | 5,800 |
| 1/4/2015 | Crystal Clean (FCC) | 2,872 | 11/13/2015 | Crystal Clean (FCC) | 2,900 |
| 1/5/2015 | Crystal Clean (FCC) | 5,013 | 12/1/2015 | Allied Energies | 6,690 |
| 1/6/2015 | Crystal Clean (FCC) | 4,800 | 12/1/2015 | Allied Energies | 6,700 |
| 1/7/2015 | Allied Energies | 6,532 | 12/7/2015 | Crystal Clean (FCC) | 500 |
| 1/7/2015 | Allied Energies | 6,425 | 9/28/2016 | Shamrock | 495 |
| 1/7/2015 | Allied Energies | 8,200 | 10/17/2016 | Shamrock | 110 |
| 1/9/2015 | Allied Energies | 6,482 | 10/24/2016 | Shamrock | 85 |
| 1/9/2015 | Allied Energies | 7,825 | 10/31/2016 | Shamrock | 70 |
| 1/12/2015 | Allied Energies | 6,540 | 11/10/2016 | Shamrock | 168 |
| 1/12/2015 | Allied Energies | 6,467 | 12/9/2016 | A&D | 743 |
| 1/13/2015 | Allied Energies | 6,732 | 12/14/2016 | A&D | 1,198 |
| 1/13/2015 | Allied Energies | 6,595 | 12/22/2016 | A&D | 1,722 |
| 1/15/2015 | Allied Energies | 6,500 | 12/30/2016 | A&D | 429 |
| 1/22/2015 | Allied Energies | 5,791 | | Total (gallons) | 213,951 |
| 1/23/2015 | Allied Energies | 5,450 | | Total (barrels) | 5,094 |
| 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 | | | |

Access Agreements

- Mr. Scott Lewis gave verbal approval to conduct needed response activities on his property.
- A formal access agreement was executed with Mr. Patrick O'Dell to install wells on his property.

Local Authorities On-Site

- Ms. Bobbi Coleman from SCDHEC was on site December 6, 2016 to discuss the disposition of the surface water booms in Brown's Creek and to inspect the locations of 4 new monitoring wells installed adjacent to Brown's Creek.

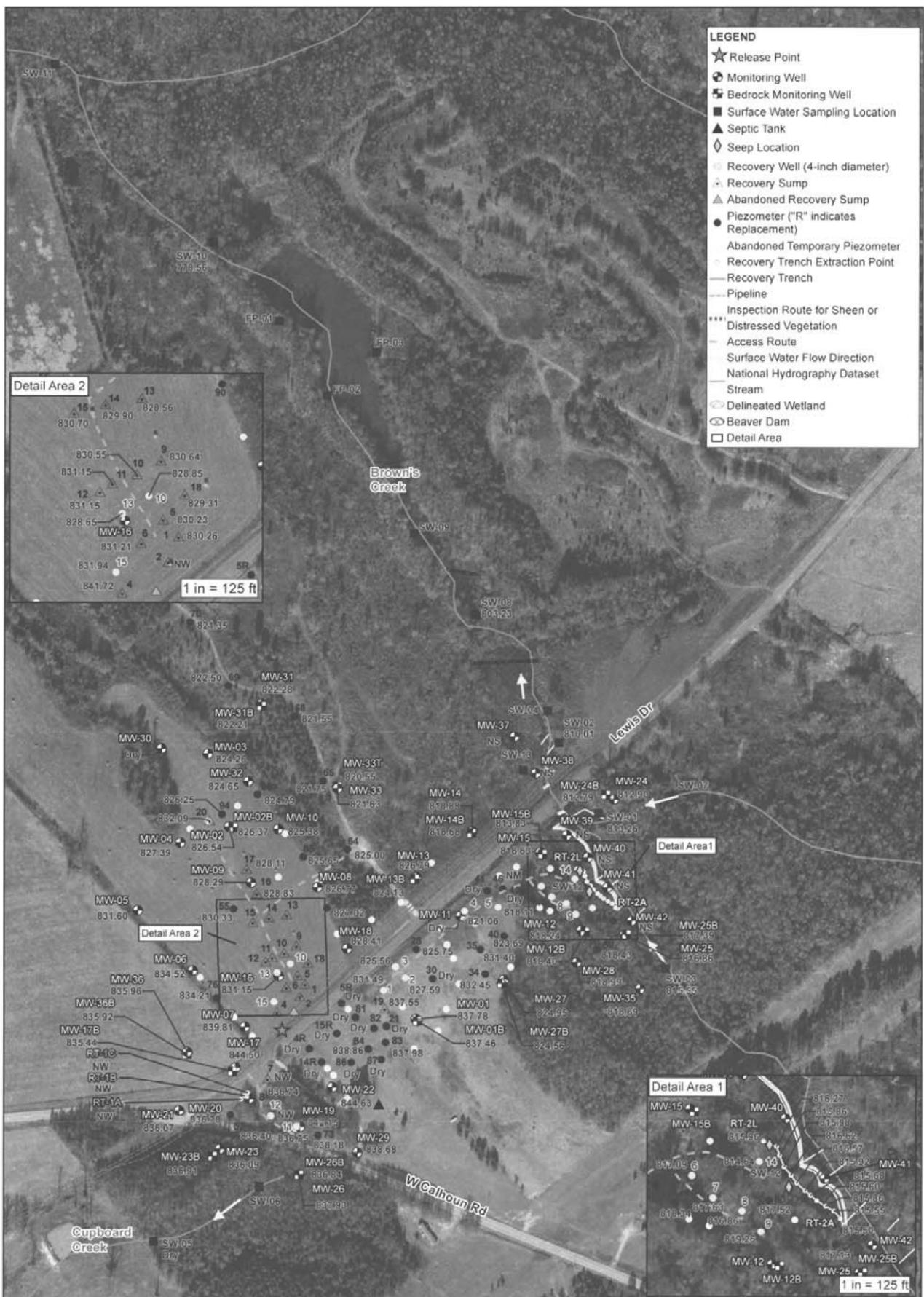
Notes:

1. Gasoline and water were field-segregated using a 21,000 gallon frac tank from December 2014 through September 2016. Beginning October 2016, the frac tank was removed from the site and LNAPL was recovered directly into a vacuum truck.

Photographs



12/22/2016: Canopy frame is constructed and compressor pad is being framed for concrete pour.



818.34 Corrected Groundwater Elevation as of
12/21/2016 in feet above mean sea level

NM Not measured

NS Not surveyed at the time of this update

NW No water was measured in the well, only product

Base Map Source:
Environmental Systems Research Institute (ESRI)
ArcMap World Imagery, 2015

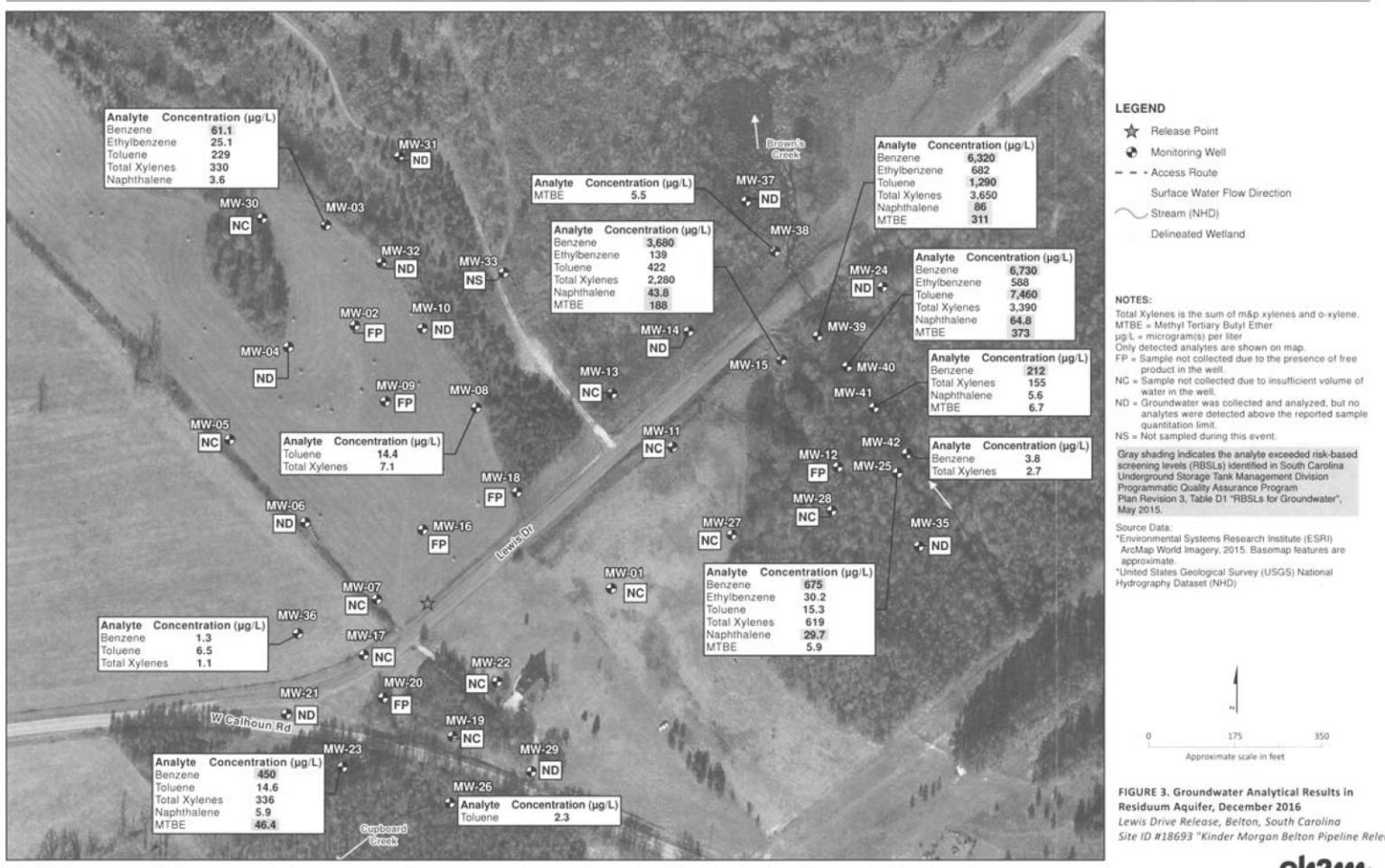
*United States Geological Survey (USGS)
National Hydrography Dataset (NHD)

0 250 500
Scale in Feet

Figure 1. Groundwater and Surface Water Elevation Map
Lewis Drive Release, Belton, South Carolina
Site ID #18693
"Kinder Morgan Belton Pipeline Release"

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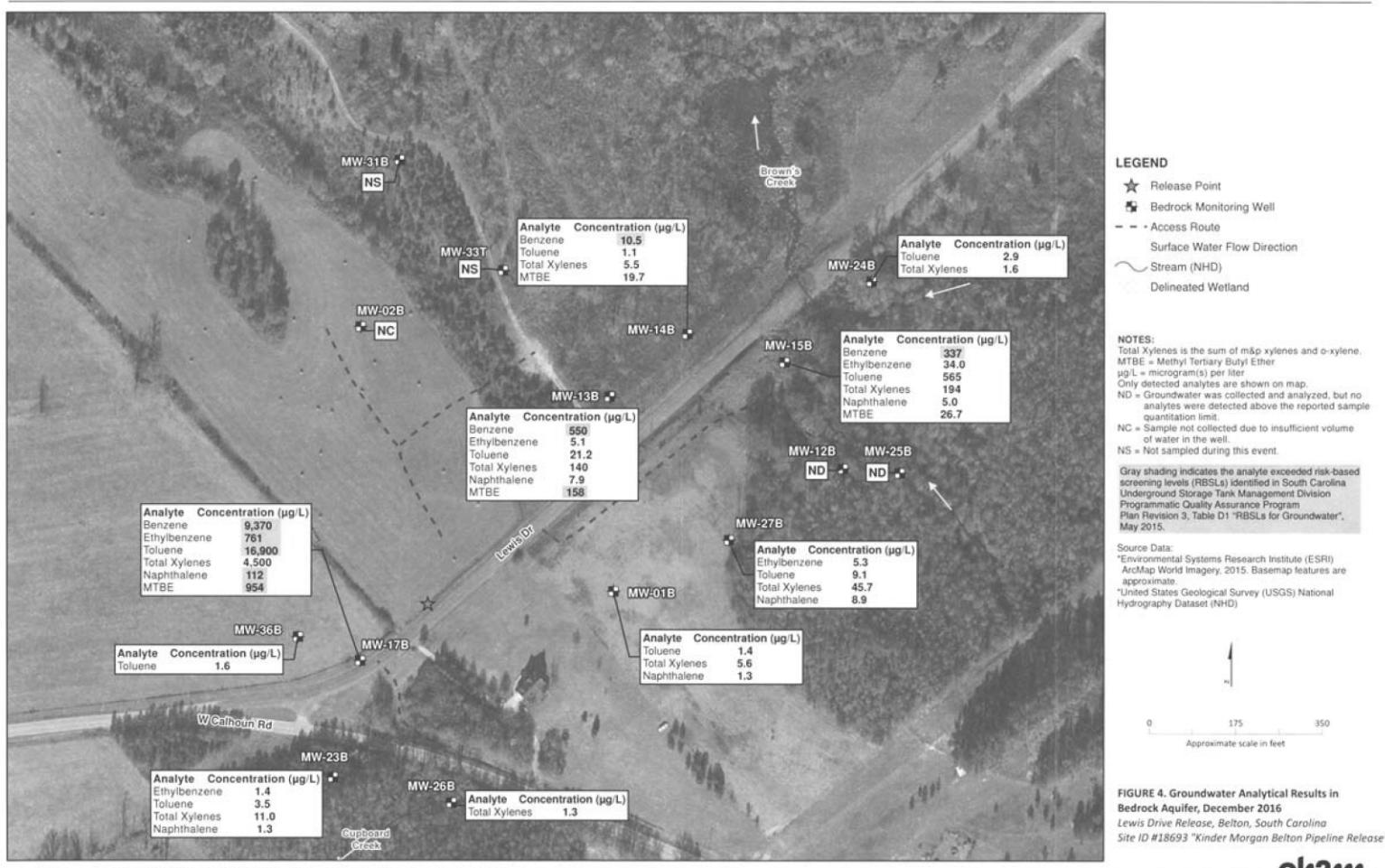


FIGURE 4. Groundwater Analytical Results in Bedrock Aquifer, December 2016
Lewis Drive Release, Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

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Table 1. Well Construction Information

Plantation Pipe Line Company

Lewis Drive Release, 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 Depth (ft bgs) | Bottom of Well (ft amsl) | Top of Screen or Open Interval (ft BTOC) | | Bottom of Screen or Open Interval (ft BTOC) | | Top of Screen or Open Interval (ft bgs) | | Bottom of Screen or Open Interval (ft bgs) | | Top of Screen or Open Interval (ft amsl) | | Bottom of Screen or Open Interval (ft) | |
|-------------------------|-----------------------|----------|-------------------|-------------------|-------------------------|---|-------------------------------|---|-------------------------------|---------------------------|--------------------------------|--|----------|---|----------|---|----------|--|----------|--|----------|--|--|
| | | | | | | | | | | | | Borehole | Borehole | Borehole | Borehole | Borehole | Borehole | Borehole | Borehole | Borehole | Borehole | Borehole | |
| Monitoring Wells | | | | | | | | | | | | | | | | | | | | | | | |
| MW-01 | CME 550 HSA | MW-10136 | 6/26/2015 | Still in use | Monitoring Well/Gauging | 850.25 | 853.07 | 15.65 | 8 | 2 | 13.00 | 837.2 | 5.82 | 15.82 | 3.0 | 13.0 | 847.2 | 837.2 | 10.00 | | | | |
| MW-018 | Schramm Air Rig | MW-10136 | 6/25/2015 | Still in use | Monitoring Well/Gauging | 850.45 | 852.99 | 44.50 | 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 | 23.14 | 8 | 2 | 20.00 | 821.2 | 4.80 | 19.80 | 5.0 | 20.0 | 836.2 | 821.2 | 15.00 | | | | |
| MW-028 | Schramm Air Rig | MW-10136 | 6/24/2015 | Still in use | Monitoring Well/Gauging | 841.40 | 841.18 | 87.15 | 10 | 6 | 81.00 | 760.4 | 69.78 | 80.78 | 70.0 | 81.0 | 771.4 | 760.4 | 11.00 | | | | |
| 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 | 22.13 | 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 | 21.78 | 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 | 21.84 | 8 | 2 | 19.60 | 833.4 | 4.54 | 19.54 | 5.0 | 19.6 | 848.0 | 833.4 | 15.00 | | | | |
| MW-07 | CME 550 HSA | MW-10136 | 6/25/2015 | Still in use | Monitoring Well/Gauging | 853.02 | 853.02 | 15.35 | 8 | 2 | 13.50 | 839.5 | -1.50 | 13.50 | 3.5 | 13.5 | 849.5 | 839.5 | 15.00 | | | | |
| MW-08 | CME 550 HSA | MW-10136 | 6/25/2015 | Still in use | Monitoring Well/Gauging | 844.75 | 844.72 | 21.81 | 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 | 22.63 | 8 | 2 | 19.50 | 824.2 | 4.41 | 19.41 | 4.5 | 19.5 | 839.2 | 824.2 | 15.00 | | | | |
| MW-10 | CME 550 HSA | MW-10136 | 6/25/2015 | Still in use | Monitoring Well/Gauging | 842.33 | 845.41 | 22.41 | 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 | 32.00 | 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 | 22.05 | 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 | 45.31 | 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 | 55.41 | 10 | 6 | 58.00 | 789.2 | 50.64 | 48.0 | 58.0 | 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 | 22.18 | 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 | 80.20 | 10 | 6 | 76.90 | 760.2 | 69.30 | 79.30 | 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 | 18.85 | 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 | 77.85 | 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 | 25.30 | 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 | 27.40 | 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 | 21.85 | 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 | 22.25 | 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 | 23.23 | 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 | 13.41 | 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 | 23.24 | 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 | 55.75 | 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 | 12.50 | 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 | 41.35 | 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 | 18.04 | 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 | 56.43 | 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 | 17.27 | 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 | 42.81 | 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 | 30.11 | 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 | 50.25 | 10 | 6 | 46.00 | 808.3 | 40.25 | 50.25 | 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 | 25.91 | 8 | 2 | 23.50 | 818.0 | 8.50 | 23.50 | 10.0 | 25.0 | 831.5 | 816.5 | 15.00 | | | | |
| MW-29 | Geoprobe 3230 DT HSA | MW-10469 | 1/4/2016 | Still in use | Monitoring Well/Gauging | 852.07 | 852.20 | 15.02 | 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 | 14.51 | 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 | 28.05 | 8 | 2 | 25.00 | 817.3 | 13.05 | 28.05 | 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 | 80.76 | 10 | 6 | 76.00 | 766.0 | 69.76 | 80.76 | 65.0 | 76.0 | 777.0 | 766.0 | 11.00 | | | | |
| MW-32 | CME 550 HSA | MW-10578 | 4/19/2016 | Still in use | Monitoring Well/Gauging | 839.81 | 842.93 | 28.96 | 8 | 2 | 26.00 | 813.8 | 12.96 | 27.96 | 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 | 28.25 | 8 | 2 | 27.00 | | | | | | | | | | | | |

Table 1. Well Construction Information

Plantation Pipe Line Company

Lewis Drive Release, 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 BTOT) | Bore Hole Diameter (in) | Well Dia (in) | Well Depth (ft bgs) | Bottom of Well Interval (ft BTOT) | Screen or Open Borehole (ft amsl) | Bottom of Borehole Interval (ft BTOT) | Screen or Open Borehole (ft bgs) | Top of Screen or Open Borehole Interval (ft amsl) | 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 bgs) | Top of Screen or Open Borehole Interval (ft amsl) | Bottom of Screen or Open Borehole Interval (ft bgs) | Length of | | |
|-----------------------|-----------------------|---------------------|------------|----------------|----------------|-------------------------|------------------------------------|-------------------------|------------------------------------|-------------------------|---------------|---------------------|-----------------------------------|-----------------------------------|---------------------------------------|----------------------------------|---|---|---|---|---|---|-----------|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-35 | CME 550 HSA | MW-10578 | 4/20/2016 | Still in use | | Monitoring Well/Gauging | 826.22 | 829.40 | 28.50 | 8 | 2 | 26.00 | 800.2 | 12.50 | 27.50 | 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 | 23.62 | 8 | 2 | 24.50 | 834.2 | 8.62 | 23.62 | 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 | 47.89 | 10 | 6 | 54.90 | 803.6 | 36.99 | 46.99 | 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 | NS | NS | 18.11 | 6.25 | 2 | 16.00 | NS | 7.11 | 17.11 | 5.0 | 15.0 | NS | NS | 10.00 | | | | | |
| MW-38 | Geoprobe 8040 HSA | MW-10759 | 8/9/2016 | Still in use | | Monitoring Well/Gauging | NS | NS | 11.44 | 6.25 | 2 | 9.10 | NS | 6.24 | 11.24 | 3.9 | 8.9 | NS | NS | 5.00 | | | | | |
| MW-39 | Geoprobe 8040 HSA | MW-10759 | 11/29/2016 | Still in use | | Monitoring Well/Gauging | NS | NS | 13.03 | 6.25 | 2 | 11.00 | NS | 7.03 | 12.03 | 5.0 | 10.0 | NS | NS | 5.00 | | | | | |
| MW-40 | Geoprobe 8040 HSA | MW-10759 | 11/30/2016 | Still in use | | Monitoring Well/Gauging | NS | NS | 13.15 | 6.25 | 2 | 11.00 | NS | 7.15 | 12.15 | 5.0 | 10.0 | NS | NS | 5.00 | | | | | |
| MW-41 | Geoprobe 8040 HSA | MW-10759 | 11/28/2016 | Still in use | | Monitoring Well/Gauging | NS | NS | 13.19 | 6.25 | 2 | 11.00 | NS | 7.19 | 12.19 | 5.0 | 10.0 | NS | NS | 5.00 | | | | | |
| MW-42 | Geoprobe 8040 HSA | MW-10759 | 11/28/2016 | Still in use | | Monitoring Well/Gauging | NS | NS | 13.37 | 6.25 | 2 | 11.00 | NS | 7.37 | 12.37 | 5.0 | 10.0 | NS | NS | 5.00 | | | | | |
| 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 | | | | | |
| RW-02 | HSA | MW-09978 | 1/29/2015 | Still in use | | Gauging/LNAPL Recovery | 850.22 | 852.69 | 25.25 | 6.25 | 4 | 23 | 827.2 | 15.47 | 25.47 | 13.0 | 23.0 | 837.2 | 827.2 | 10 | | | | | |
| 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 | | | | | |
| 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 | | | | | |
| 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 | | | | | |
| 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 | | | | | |
| 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 | | | | | |
| 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 | | | | | |
| 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 | | | | | |
| 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 | | | | | |
| 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 | | | | | |
| RW-12 | HSA | MW-10006 | 2/5/2015 | Still in use | | Gauging/LNAPL Recovery | 851.48 | 852.75 | 16.90 | 6.25 | 4 | 14 | 837.5 | 6.90 | 16.90 | 4.0 | 14.0 | 847.5 | 837.5 | 10 | | | | | |
| 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 | | | | | |
| 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 | | | | | |
| 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 | | | | | |
| Recovery Sumps | | | | | | | | | | | | | | | | | | | | | | | | | |
| RS-01 | Trackhoe | MW-09978 | 12/29/2014 | Still in use | | Gauging/LNAPL Recovery | 847.95 | 850.33 | 23.60 | NA | 4 | 21.21 | 826.7 | 4.39 | 23.60 | 2.0 | 21.2 | 845.9 | 826.7 | 19.21 | | | | | |
| RS-02 | Trackhoe | MW-09978 | 12/29/2014 | Still in use | | Gauging/LNAPL Recovery | 848.54 | 850.10 | 20.00 | NA | 4 | 18.44 | 830.1 | 3.56 | 20.00 | 2.0 | 18.4 | 846.5 | 830.1 | 16.44 | | | | | |
| RS-04 | Trackhoe | MW-09978 | 12/30/2014 | Still in use | | Gauging/LNAPL Recovery | 850.36 | 851.44 | 10.25 | NA | 4 | 9.17 | 841.2 | 3.08 | 10.25 | 2.0 | 9.2 | 848.4 | 841.2 | 7.17 | | | | | |
| RS-05 | Trackhoe | MW-09978 | 12/31/2014 | Still in use | | Gauging/LNAPL Recovery | 847.14 | 848.55 | 25.20 | NA | 4 | 23.79 | 823.3 | 3.41 | 25.20 | 2.0 | 23.8 | 845.1 | 823.3 | 21.79 | | | | | |
| RS-06 | Trackhoe | MW-09978 | 12/31/2014 | Still in use | | Gauging/LNAPL Recovery | 848.25 | 850.73 | 25.18 | NA | 4 | 22.70 | 825.5 | 4.48 | 25.18 | 2.0 | 22.7 | 846.2 | 825.5 | 20.70 | | | | | |
| RS-07 | Trackhoe | MW-09978 | 12/31/2014 | Still in use | | Gauging/LNAPL Recovery | 854.06 | 856.04 | 16.65 | NA | 4 | 14.67 | 839.4 | 3.98 | 16.65 | 2.0 | 14.7 | 852.1 | 839.4 | 12.67 | | | | | |
| RS-08 | Trackhoe | MW-09978 | 12/31/2014 | Still in use | | Gauging/LNAPL Recovery | 852.59 | 854.91 | 20.22 | NA | 4 | 17.91 | 834.7 | 4.31 | 20.22 | 2.0 | 17.9 | 850.6 | 834.7 | 15.91 | | | | | |
| RS-09 | Trackhoe | MW-09978 | 1/7/2015 | Still in use | | Gauging/LNAPL Recovery | 846.75 | 849.12 | 18.69 | NA | 4 | 16.33 | 830.4 | 4.37 | 18.69 | 2.0 | 16.3 | 844.8 | 830.4 | 14.33 | | | | | |
| RS-10 | Trackhoe | MW-09978 | 1/7/2015 | Still in use | | Gauging/LNAPL Recovery | 846.28 | 847.52 | 20.06 | NA | 4 | 18.82 | 827.5 | 3.24 | 20.06 | 2.0 | 18.8 | 844.3 | 827.5 | 16.82 | | | | | |
| RS-11 | Trackhoe | MW-09978 | 1/7/2015 | Still in use | | Gauging/LNAPL Recovery | 846.35 | 848.41 | 22.06 | NA | 4 | 19.99 | 826.4 | 4.07 | 22.06 | 2.0 | 20.0 | 844.3 | 826.4 | 17.99 | | | | | |
| RS-12 | Trackhoe | MW-09978 | 1/7/2015 | Still in use | | Gauging/LNAPL Recovery | 846.58 | 848.87 | 21.29 | NA | 4 | 19.00 | 827.6 | 4.29 | 21.29 | 2.0 | 19.0 | 844.6 | 827.6 | 17.00 | | | | | |
| RS-13 | Trackhoe | MW-09978 | 1/8/2015 | Still in use | | Gauging/LNAPL Recovery | 845.51 | 848.28 | 19.92 | NA | 4 | 17.14 | 828.4 | 4.15 | 19.92 | 1.4 | 17.1 | 844.1 | 828.4 | 15.77 | | | | | |
| RS-14 | Trackhoe | MW-09978 | 1/8/2015 | Still in use | | Gauging/LNAPL Recovery | 844.66 | 846.92 | 19.93 | NA | 4 | 17.68 | 827.0 | 4.26 | 19.93 | 2.0 | 17.7 | 842.7 | 827.0 | 15.68 | | | | | |
| RS-15 | Trackhoe | MW-09978 | 1/8/2015 | Still in use | | Gauging/LNAPL Recovery | 845.36 | 848.97 | 19.93 | NA | 4 | 16.31 | 829.0 | 5.62 | 19.93 | 2.0 | 16.3 | 843.4 | 829.0 | 14.31 | | | | | |
| RS-16 | Trackhoe | MW-09978 | 1/8/2015 | Still in use | | Gauging/LNAPL Recovery | 844.56 | 846.77 | 19.98 | NA | 4 | 17.77 | 826.8 | 4.21 | 19.98 | 2.0 | 17.8 | 842.6 | 826.8 | 15.77 | | | | | |
| RS-17 | Trackhoe | MW-09978 | 1/8/2015 | Still in use | | Gauging/LNAPL Recovery | 843.29 | 845.15 | 19.91 | NA | 4 | 18.05 | 825.2 | 3.86 | 19.91 | 2.0 | 18.0 | 841.3 | 825.2 | 16.05 | | | | | |
| RS-18 | Trackhoe | MW-09978 | 1/8/2015 | Still in use | | Gauging/LNAPL Recovery | 846.82 | 848.59 | 19.98 | NA | 4 | 18.21 | 828.6 | 3.77 | 19.98 | 2.0 | 18.2 | 844.8 | 828.6 | 16.21 | | | | | |
| RS-19 | Trackhoe | MW-09978 | 1/21/2015 | Still in use | | Gauging/LNAPL Recovery | 849.27 | 852.37 | 15.10 | NA | 4 | 12.00 | 837.3 | 5.10 | 15.10 | 2.0 | 12.0 | 847.3 | 837.3 | 10.00 | | | | | |
| RS-20 | Trackhoe | MW-09978 | 3/19/2015 | Still in use | | Gauging/LNAPL Recovery | 841.73 | 843.49 | 11.84 | NA | 4 | 9.91 | 831.8 | 3.93 | 11.84 | 2.0 | 9.9 | 839.7 | 831.8 | 7.91 | | | | | |

Table 1. Well Construction Information

Plantation Pipe Line Company

Lewis Drive Release, 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) | Screen or Open Borehole | | Top of Screen or Open Borehole | | Bottom of Screen or Open Borehole | | Top of Screen or Open Borehole | | Bottom of Screen or Open Borehole | | Length of Interval (ft) |
|------------------------------|---------------------|----------|-------------------|-------------------|------------------------|---|-------------------------------|---|-------------------------------|------------------|---------------------------|--------------------------------|--|--|--|---|--|---|--|---|--|---|-------------------------------|
| | | | | | | | | | | | | | Top of Screen or Open Borehole (ft BTOC) | Bottom of Screen or Open Borehole (ft bgs) | Top of Screen or Open Borehole (ft amsl) | Bottom of Screen or Open Borehole (ft amsl) | Top of Screen or Open Borehole (ft amsl) | Bottom of Screen or Open Borehole (ft amsl) | Top of Screen or Open Borehole (ft amsl) | Bottom of Screen or Open Borehole (ft amsl) | Top of Screen or Open Borehole (ft amsl) | Bottom of Screen or Open Borehole (ft amsl) | |
| Recovery Trench Sumps | | | | | | | | | | | | | | | | | | | | | | | |
| RT-1A | Trackhoe | MW-09978 | 1/6/2015 | Still in use | Gauging/LNAPL Recovery | 852.86 | 856.21 | 20.89 | NA | 4 | 20.00 | 832.9 | 5.35 | 23.35 | 2.0 | 20.0 | 850.9 | 832.9 | 18 | | | | |
| RT-1B | Trackhoe | MW-09978 | 1/6/2015 | Still in use | Gauging/LNAPL Recovery | 853.29 | 857.30 | 21.00 | NA | 4 | 20.00 | 833.3 | 6.00 | 24.00 | 2.0 | 20.0 | 851.3 | 833.3 | 18 | | | | |
| RT-1C | Trackhoe | MW-09978 | 1/6/2015 | Still in use | Gauging/LNAPL Recovery | 853.55 | 857.02 | 21.27 | NA | 4 | 20.00 | 833.5 | 5.47 | 23.47 | 2.0 | 20.0 | 851.5 | 833.5 | 18 | | | | |
| RT-2A | Trackhoe | MW-09978 | 1/22/2015 | Still in use | Gauging/LNAPL Recovery | 815.66 | 818.31 | 10.81 | NA | 4 | 10.00 | 805.7 | 4.66 | 12.66 | 2.0 | 10.0 | 813.7 | 805.7 | 8 | | | | |
| RT-2B | Trackhoe | MW-09978 | 1/22/2015 | Still in use | Gauging/LNAPL Recovery | 816.72 | 818.92 | 10.82 | NA | 4 | 10.00 | 806.7 | 4.20 | 12.20 | 2.0 | 10.0 | 814.7 | 806.7 | 8 | | | | |
| RT-2C | Trackhoe | MW-09978 | 1/22/2015 | Still in use | Gauging/LNAPL Recovery | 816.86 | 819.02 | 10.23 | NA | 4 | 10.00 | 806.9 | 4.15 | 12.15 | 2.0 | 10.0 | 814.9 | 806.9 | 8 | | | | |
| RT-2D | Trackhoe | MW-09978 | 1/22/2015 | Still in use | Gauging/LNAPL Recovery | 817.11 | 819.57 | 10.21 | NA | 4 | 10.00 | 807.1 | 4.46 | 12.46 | 2.0 | 10.0 | 815.1 | 807.1 | 8 | | | | |
| RT-2E | Trackhoe | MW-09978 | 1/22/2015 | Still in use | Gauging/LNAPL Recovery | 817.32 | 819.40 | 10.24 | NA | 4 | 10.00 | 807.3 | 4.08 | 12.08 | 2.0 | 10.0 | 815.3 | 807.3 | 8 | | | | |
| RT-2F | Trackhoe | MW-09978 | 1/22/2015 | Still in use | Gauging/LNAPL Recovery | 817.74 | 819.52 | 10.23 | NA | 4 | 10.00 | 807.7 | 3.78 | 11.78 | 2.0 | 10.0 | 815.7 | 807.7 | 8 | | | | |
| RT-2G | Trackhoe | MW-09978 | 1/22/2015 | Still in use | Gauging/LNAPL Recovery | 819.27 | 820.31 | 10.24 | NA | 4 | 10.00 | 809.3 | 3.04 | 11.04 | 2.0 | 10.0 | 817.3 | 809.3 | 8 | | | | |
| RT-2H | Trackhoe | MW-09978 | 1/22/2015 | Still in use | Gauging/LNAPL Recovery | 819.91 | 822.17 | 8.35 | NA | 4 | 10.00 | 809.9 | 3.90 | 12.25 | 1.7 | 10.0 | 818.3 | 809.9 | 8 | | | | |
| 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 | | | | |
| RT-2J | Trackhoe | MW-09978 | 1/22/2015 | Still in use | Gauging/LNAPL Recovery | 817.47 | 818.38 | 10.22 | NA | 4 | 10.00 | 807.5 | 2.91 | 10.91 | 2.0 | 10.0 | 815.5 | 807.5 | 8 | | | | |
| RT-2K | Trackhoe | MW-09978 | 3/20/2015 | Still in use | Gauging/LNAPL Recovery | 816.11 | 817.46 | 4.14 | NA | 4 | 2.50 | 813.6 | 2.64 | 4.14 | 1.0 | 2.5 | 815.1 | 813.6 | 2 | | | | |
| RT-2L | Trackhoe | MW-09978 | 3/20/2015 | Still in use | Gauging/LNAPL Recovery | 817.95 | 820.38 | 6.60 | NA | 4 | 3.71 | 814.2 | 3.89 | 6.60 | 1.0 | 3.7 | 816.9 | 814.2 | 3 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| TW-21 | DPT | MW-09978 | 1/22/2015 | Still in use | Gauging | 849.72 | 849.70 | 9.41 | 2.2 | 1 | 14 | 835.7 | -0.59 | 9.41 | 4.0 | 9.4 | 845.7 | 840.3 | 10 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| TW-46 | DPT | MW-09978 | 1/26/2015 | Still in use | Gauging | 846.89 | 846.88 | 33.44 | 2.2 | 1 | 32 | 814.9 | 13.44 | 33.44 | 12.0 | 33.4 | 834.9 | 813.4 | 20 | | | | |
| TW-55 | DPT | MW-10006 | 2/5/2015 | Still in use | Gauging | 846.00 | 845.93 | 43.00 | 2.7 | 1 | 43 | 803.0 | 13.00 | 43.00 | 13.0 | 43.1 | 833.0 | 802.9 | 30 | | | | |
| TW-59 | DPT | MW-09978 | 1/30/2015 | Still in use | Gauging | 834.84 | 834.78 | 22.00 | 2.7 | 1 | 22 | 812.8 | 7.00 | 22.00 | 7.0 | 22.1 | 827.8 | 812.8 | 15 | | | | |
| TW-60 | DPT | MW-09978 | 1/30/2015 | Still in use | Gauging | 828.00 | 828.03 | 40.40 | 2.7 | 1 | 41.5 | 786.5 | 5.40 | 40.40 | 6.5 | 40.4 | 821.5 | 787.6 | 35 | | | | |
| TW-64 | DPT | MW-09978 | 2/2/2015 | Still in use | Gauging | 845.89 | 845.88 | 56.43 | 2.2 | 1 | 55 | 790.9 | 6.43 | 56.43 | 5.0 | 56.4 | 840.9 | 789.5 | 50 | | | | |
| 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 | | | | |
| TW-66 | DPT | MW-09978 | 2/2/2015 | Still in use | Gauging | 820.18 | 820.31 | 29.70 | 2.7 | 1 | 24 | 796.2 | 9.70 | 29.70 | 4.0 | 29.6 | 816.2 | 790.6 | 20 | | | | |
| TW-67 | DPT | MW-09978 | 2/3/2015 | Still in use | Gauging | 852.88 | 852.71 | 26.31 | 2.7 | 1 | 27 | 825.9 | 6.31 | 26.31 | 7.0 | 26.5 | 845.9 | 826.4 | 20 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| TW-85 | DPT | MW-10006 | 2/5/2 | | | | | | | | | | | | | | | | | | | | |

Table 1. Well Construction Information

Plantation Pipe Line Company

Lewis Drive Release, 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 BTOTC) | Bore Hole Diameter (in) | Well Dia (ft bgs) | Well Depth (ft bgs) | Bottom of Well (ft amsl) | Top of Screen or Open Borehole Interval (ft BTOTC) | Bottom of Borehole Interval (ft BTOTC) | Top of Screen or Open Borehole Interval (ft bgs) | Bottom of Borehole Interval (ft amsl) | Length of Screen or Open Borehole Interval (ft) | | |
|----------------------------------|---------------------|--------------|-------------------|-------------------|---------------------------|---|-------------------------------|--|-------------------------------|----------------------|---------------------------|--------------------------------|---|---|---|--|--|-------|------|
| | | | | | | | | | | | | | | | | | | | |
| 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 |
| 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 |
| 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 |
| 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 |
| TW-96 | DPT | MW-10006 | 2/11/2015 | Still in use | Gauging | 840.52 | 840.40 | 30.00 | 2.7 | 1 | 30 | 810.5 | 5.00 | 30.00 | 5.0 | 30.1 | 835.5 | 810.4 | 25 |
| Vertical Air Sparge Wells | | | | | | | | | | | | | | | | | | | |
| VAS-01 | Mobile B57 HSA | SCHE03020469 | 7/28/2016 | Still in use | Cupboard Creek Protection | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | NS | NA | 8.50 | 2.00 | 52.90 | NA | NA | NA | 49.40 | 51.90 | NA | NA | 2.50 |
| VAS-31 | Mobile B57 HSA | SCHE03020469 | 6/21/2016 | Still in use | Brown's Creek Protection | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | 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 | NS | NS | NA | 8.50 | 2.00 | 39.30 | NA | NA | NA | 35.80 | 38.30 | NA | NA | 2.50 |

Table 1. Well Construction Information

Plantation Pipe Line Company

Lewis Drive Release, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

| Location | ID | Installation Method | Permit # | Date Installed | Date Abandoned | Purpose | Ground Surface | | | Measured | | | Well Depth | Bottom of Well | Top of Screen or Open Borehole | | | Bottom of Screen or Open Borehole | | | Top of Screen or Open Borehole | | | Length of Interval (ft) |
|----------|----|---------------------|-------------|----------------|----------------|--------------------------|---------------------|-------------------------|------------------|-------------------------|---------------|----------------|-----------------------------------|---------------------------------|--|--|--|--|--|--|--|--|--|-------------------------|
| | | | | | | | Elevation (ft amsl) | TOC Elevation (ft amsl) | Bottom (ft BTOC) | Bore Hole Diameter (in) | Well Dia (in) | Depth (ft bgs) | Bottom of Well Interval (ft BTOC) | Open Borehole Interval (ft bgs) | Screen or Open Borehole Interval (ft amsl) | Top of Screen or Open Borehole Interval (ft bgs) | Bottom of Screen or Open Borehole Interval (ft amsl) | Top of Screen or Open Borehole Interval (ft bgs) | Bottom of Screen or Open Borehole Interval (ft amsl) | Top of Screen or Open Borehole Interval (ft bgs) | Bottom of Screen or Open Borehole Interval (ft amsl) | Top of Screen or Open Borehole Interval (ft bgs) | Bottom of Screen or Open Borehole Interval (ft amsl) | |
| VAS-43A | | Mobile B57 HSA | SCH03020469 | 7/15/2016 | Still in use | Brown's Creek Protection | NS | NS | NA | 8.50 | 2.00 | 66.50 | NA | NA | NA | 63.00 | 65.50 | NA | NA | NA | NA | NA | NA | 2.50 |
| VAS-44A | | Mobile B57 HSA | SCH03020469 | 7/18/2016 | Still in use | Brown's Creek Protection | NS | NS | NA | 8.50 | 2.00 | 72.50 | NA | NA | NA | 69.00 | 71.50 | NA | NA | NA | NA | NA | NA | 2.50 |
| VAS-46 | | Mobile B57 HSA | SCH03020469 | 6/24/2016 | Still in use | Brown's Creek Protection | NS | NS | NA | 8.50 | 2.00 | 20.80 | NA | NA | NA | 18.00 | 20.50 | NA | NA | NA | NA | NA | NA | 2.50 |

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

in = inches

bgs = below ground surface

NA = not applicable

BTOC = below top of casing

NS = location not surveyed

DPT = direct push

RNE = Refusal not encountered

ft = feet

HSA = hollow-stem auger

TOC = top of casing

Table 2. Stream Gauge Construction Information

Plantation Pipe Line Company

Lewis Drive Release, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

| Location ID | Installation Method | Date Installed | Stream Bottom | Elevation of Zero |
|-------------|---------------------|----------------|------------------------|-------------------|
| | | | Elevation (ft amsl) | 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 |

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 3. Analytical Results for Surface Water
 Lewis Drive Release, Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"

| Location | Sample ID | Date Collected | Analyte Units | Benzene | Ethylbenzene | Toluene | m&p-Xylene | o-Xylene | Naphthalene | MTBE |
|----------|-------------|----------------|---------------|------------------|--------------|--------------|--------------|-------------|------------------|--------------|
| SW-SEEP | 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 | 1 U |
| | SW01-022515 | 2/25/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW01-030215 | 3/2/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW01-031115 | 3/11/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW01-031815 | 3/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW01-033115 | 3/31/2015 | µg/L | 5 U ¹ | 5 U | 17.6 | 10 U | 5 U | 5 U ¹ | NA |
| | SW01-042215 | 4/22/2015 | µg/L | 5 U ¹ | 5 U | 14.9 | 10 U | 5 U | 5 U ¹ | NA |
| | SW01-050715 | 5/7/2015 | µg/L | 5 U ¹ | 5 U | 7.0 | 10 U | 5 U | 5 U ¹ | NA |
| | SW01-051915 | 5/19/2015 | µg/L | 5 U ¹ | 5 U | 8.8 | 10.6 | 6.4 | 5 U ¹ | NA |
| | SW01-060315 | 6/3/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW01-061815 | 6/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW01-071515 | 7/15/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW01-081315 | 8/13/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW01-092415 | 9/24/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| SW-01 | SW01-102215 | 10/22/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW01-112415 | 11/24/2015 | µg/L | 7.8 | 1.5 | 13.0 | 9.3 | 4.6 | 1 U ¹ | NA |
| | SW01-122215 | 12/22/2015 | µg/L | 4.6 | 1 U | 8.8 | 5.5 | 3.1 | 1 U ¹ | NA |
| | SW01-012516 | 1/25/2016 | µg/L | 17.6 | 2.3 | 36.0 | 11.3 | 6.3 | 1 U ¹ | NA |
| | SW01-021816 | 2/18/2016 | µg/L | 23.4 | 3.0 | 55.6 | 15.0 | 9.1 | 1 U ¹ | NA |
| | SW01-031616 | 3/16/2016 | µg/L | 20.1 | 2.4 | 42.3 | 13.3 | 7.6 | 1 U ¹ | NA |
| | SW01-042716 | 4/27/2016 | µg/L | 20.8 | 1 U | 30.6 | 2.9 | 2.0 | 1 U ¹ | NA |
| | SW01-050916 | 5/9/2016 | µg/L | 16.5 | 1.4 | 16.3 | 7.0 | 4.8 | 1 U ¹ | NA |
| | SW01-062716 | 6/27/2016 | µg/L | 9 | 1 U | 3.3 | 2 U | 1 U | 1 U ¹ | NA |
| | SW01-072816 | 7/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW01-081916 | 8/19/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW01-092916 | 9/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW01-103116 | 10/31/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW01-112816 | 11/28/2016 | µg/L | 5.0 | 1 U | 10.4 | 4.9 | 8.3 | 1 U ¹ | NA |
| | SW01-122916 | 12/29/2016 | µg/L | 12.6 | 1 U | 22.1 | 11.2 | 13.5 | 1 U ¹ | NA |
| SW-02 | SW02-121114 | 12/11/2014 | µg/L | 0.5 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | 1 U |
| | SW02-022515 | 2/25/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW02-030215 | 3/2/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW02-031115 | 3/11/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW02-031815 | 3/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW02-033115 | 3/31/2015 | µg/L | 5 U ¹ | 5 U | 6.0 | 10 U | 5 U | 5 U ¹ | NA |
| | SW02-042215 | 4/22/2015 | µg/L | 5 U ¹ | 5 U | 13.0 | 10 U | 5 U | 5 U ¹ | NA |
| | SW02-050715 | 5/7/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW02-051915 | 5/19/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW02-060315 | 6/3/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW02-061815 | 6/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW02-071515 | 7/15/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW02-081315 | 8/13/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW02-092415 | 9/24/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW02-102215 | 10/22/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW02-112415 | 11/24/2015 | µg/L | 6 | 1.3 | 10.0 | 7.8 | 4.0 | 1 U ¹ | NA |
| | SW02-122215 | 12/22/2015 | µg/L | 4.1 | 1 U | 7.6 | 5.1 | 3.1 | 1 U ¹ | NA |
| | SW02-012516 | 1/25/2016 | µg/L | 12 | 1.5 | 25.0 | 8.4 | 4.6 | 1 U ¹ | NA |
| | SW02-021816 | 2/18/2016 | µg/L | 15.5 | 1.8 | 35.3 | 10.1 | 5.9 | 1 U ¹ | NA |
| | SW02-031616 | 3/16/2016 | µg/L | 8 | 1.0 | 17.5 | 5.8 | 3.9 | 1 U ¹ | NA |
| | SW02-042716 | 4/27/2016 | µg/L | 5.6 | 1 U | 7.1 | 2 U | 1 U | 1 U ¹ | NA |
| | SW02-050916 | 5/9/2016 | µg/L | 7.1 | 1 U | 4.5 | 2.2 | 1.6 | 1 U ¹ | NA |
| | SW02-062716 | 6/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW02-072816 | 7/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW02-081916 | 8/19/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW02-092916 | 9/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW02-103116 | 10/31/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW02-112816 | 11/28/2016 | µg/L | 5.4 | 1 U | 1.6 | 2.6 | 4.8 | 1 U ¹ | NA |
| | SW02-122916 | 12/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1.4 | 1 U ¹ | NA |

Table 3. Analytical Results for Surface Water
 Lewis Drive Release, Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"

| Location | Sample ID | Date Collected | Analyte: Units | Benzene | Ethylbenzene | Toluene | m&p-Xylene | o-Xylene | Naphthalene | MTBE |
|----------|-----------------|----------------|----------------|------------------|--------------|---------|------------|----------|------------------|------|
| SW-03 | SW-UPGRADIENT | 1/20/2015 | µg/L | 0.5 U | 1 U | 0.23 J | 2 U | 1 U | 1 U ¹ | 1 U |
| | SW03-022515 | 2/25/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW03-030215 | 3/2/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW03-031115 | 3/11/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW03-031815 | 3/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW03-033115 | 3/31/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW03-042215 | 4/22/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW03-050715 | 5/7/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW03-051915 | 5/19/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW03-060315 | 6/3/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW03-061815 | 6/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW03-071515 | 7/15/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW03-081315 | 8/13/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW03-102215 | 10/22/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW03-112415 | 11/24/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW03-122215 | 12/22/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW03-012516 | 1/25/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW03-021816 | 2/18/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW03-031616 | 3/16/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW03-042716 | 4/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW03-050916 | 5/9/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW03-062716 | 6/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW03-072816 | 7/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW03-092916 | 9/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW03-103116 | 10/31/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW03-112816 | 11/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW03-122916 | 12/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| 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 ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW04-030215 | 3/2/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW04-031115 | 3/11/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW04-031815 | 3/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW04-033115 | 3/31/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW04-042215 | 4/22/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW04-050715 | 5/7/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW04-051915 | 5/19/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW04-060315 | 6/3/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW04-061815 | 6/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW04-071515 | 7/15/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW04-081315 | 8/13/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW04-092415 | 9/24/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW04-102215 | 10/22/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW04-112415 | 11/24/2015 | µg/L | 1.7 | 1 U | 2.7 | 2.9 | 1.6 | 1 U ¹ | NA |
| | SW04-122215 | 12/22/2015 | µg/L | 3.3 | 1 U | 7.3 | 5.2 | 2.7 | 1 U ¹ | NA |
| | SW04-012516 | 1/25/2016 | µg/L | 6.9 | 1 U | 14.0 | 4.9 | 2.8 | 1 U ¹ | NA |
| | SW04-021816 | 2/18/2016 | µg/L | 10.9 | 1.1 | 25.4 | 7.0 | 4.3 | 1 U ¹ | NA |
| | SW04-031616 | 3/16/2016 | µg/L | 1 U | 1 U | 2.0 | 2 U | 1.8 | 1 U ¹ | NA |
| | SW04-042716 | 4/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW04-050916 | 5/9/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW04-062716 | 6/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW04-072816 | 7/28/2016 | µg/L | 1 U | 1 U | 23.5 | 2 U | 1 U | 1 U ¹ | NA |
| | SW04-081916 | 8/19/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW04-092916 | 9/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW04-103116 | 10/31/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW04-112816 | 11/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW04-122916 | 12/29/2016 | µg/L | 1 U | 1 U | 2 U | 1 U | 1 U | 1 U ¹ | NA |
| SW-05 | SW05-022515 | 2/25/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW05-030215 | 3/2/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW05-031115 | 3/11/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW05-031815 | 3/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW05-033115 | 3/31/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW05-042215 | 4/22/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW05-050715 | 5/7/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW05-112415 | 11/24/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW05-122215 | 12/22/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW05-012516 | 1/25/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| SW-06 | SW06-021816 | 2/18/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW06-031616 | 3/16/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW06-042215 | 4/22/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW06-122215 | 12/22/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW06-012516 | 1/25/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW06-021816 | 2/18/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |

Table 3. Analytical Results for Surface Water
 Lewis Drive Release, Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"

| Location | Sample ID | Date Collected | Analyte Units | Benzene | Ethylbenzene | Toluene | m&p-Xylene | o-Xylene | Naphthalene | MTBE |
|----------|-------------|----------------|---------------|------------------|--------------|---------|------------|----------|------------------|------|
| SW-07 | SW07-022515 | 2/25/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW07-030215 | 3/2/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW07-031115 | 3/11/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW07-031815 | 3/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW07-033115 | 3/31/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW07-042215 | 4/22/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW07-050715 | 5/7/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW07-051915 | 5/19/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW07-060315 | 6/3/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW07-061815 | 6/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW07-071515 | 7/15/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW07-102215 | 10/22/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW07-112415 | 11/24/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW07-122215 | 12/22/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW07-012516 | 1/25/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW07-021816 | 2/18/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW07-031616 | 3/16/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW07-042716 | 4/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW07-050916 | 5/9/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| SW-08 | SW08-022515 | 2/25/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW08-030215 | 3/2/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW08-031115 | 3/11/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW08-031815 | 3/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW08-033115 | 3/31/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW08-042215 | 4/22/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW08-050715 | 5/7/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW08-051915 | 5/19/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW08-060315 | 6/3/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW08-061815 | 6/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW08-071515 | 7/15/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW08-081315 | 8/13/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW08-092415 | 9/24/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW08-102215 | 10/22/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW08-112415 | 11/24/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW08-122215 | 12/22/2015 | µg/L | 1.6 | 1 U | 3.8 | 2.5 | 1.6 | 1 U ¹ | NA |
| | SW08-012516 | 1/25/2016 | µg/L | 2.4 | 1 U | 5.6 | 2 | 1.3 | 1 U ¹ | NA |
| | SW08-021816 | 2/18/2016 | µg/L | 2.9 | 1 U | 7.6 | 2.3 | 1.5 | 1 U ¹ | NA |
| | SW08-031616 | 3/16/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW08-042716 | 4/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW08-050916 | 5/9/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW08-062716 | 6/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW08-072816 | 7/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW08-081916 | 8/19/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW08-092916 | 9/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW08-103116 | 10/31/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW08-112816 | 11/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW08-122916 | 12/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| SW-09 | SW09-022515 | 2/25/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW09-030215 | 3/2/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW09-031115 | 3/11/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW09-031815 | 3/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW09-033115 | 3/31/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW09-042215 | 4/22/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW09-050715 | 5/7/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW09-051915 | 5/19/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW09-060315 | 6/3/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW09-061815 | 6/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW09-071515 | 7/15/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW09-081315 | 8/13/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW09-092415 | 9/24/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW09-102215 | 10/22/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW09-112415 | 11/24/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW09-122215 | 12/22/2015 | µg/L | 2.1 | 1 U | 4.8 | 3.3 | 2.1 | 1 U ¹ | NA |
| | SW09-012516 | 1/25/2016 | µg/L | 3.3 | 1 U | 7.1 | 2.4 | 1.5 | 1 U ¹ | NA |
| | SW09-021816 | 2/18/2016 | µg/L | 2.2 | 1 U | 5.9 | 2 U | 1.2 | 1 U ¹ | NA |
| | SW09-031616 | 3/16/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW09-042716 | 4/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW09-050916 | 5/9/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW09-062716 | 6/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW09-072816 | 7/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW09-081916 | 8/19/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW09-092916 | 9/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW09-103116 | 10/31/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW09-112816 | 11/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW09-122916 | 12/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |

Table 3. Analytical Results for Surface Water
 Lewis Drive Release, Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"

| Location | Sample ID | Date Collected | Analyte: Units | Benzene | Ethylbenzene | Toluene | m&p-Xylene | o-Xylene | Naphthalene | MTBE |
|----------|-------------|----------------|----------------|------------------|--------------|---------|------------|----------|------------------|------|
| SW-10 | SW10-022515 | 2/25/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW10-030215 | 3/2/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW10-031115 | 3/11/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW10-031815 | 3/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW10-033115 | 3/31/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW10-042215 | 4/22/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW10-050715 | 5/7/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW10-051915 | 5/19/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW10-060315 | 6/3/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW10-061815 | 6/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW10-071515 | 7/15/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW10-081315 | 8/13/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW10-092415 | 9/24/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW10-102215 | 10/22/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW10-112415 | 11/24/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW10-122215 | 12/22/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW10-012516 | 1/25/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW10-021816 | 2/18/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW10-031616 | 3/16/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW10-042716 | 4/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW10-050916 | 5/9/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW10-062716 | 6/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW10-072816 | 7/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW10-081916 | 8/19/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW10-092916 | 9/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW10-103116 | 10/31/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW10-112816 | 11/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW10-122916 | 12/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| SW-11 | SW11-022515 | 2/25/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW11-030215 | 3/2/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW11-031115 | 3/11/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW11-031815 | 3/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW11-033115 | 3/31/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW11-042215 | 4/22/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW11-050715 | 5/7/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW11-051915 | 5/19/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW11-060315 | 6/3/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW11-061815 | 6/18/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW11-071515 | 7/15/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW11-081315 | 8/13/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW11-092415 | 9/24/2015 | µg/L | 5 U ¹ | 5 U | 5 U | 10 U | 5 U | 5 U ¹ | NA |
| | SW11-102215 | 10/22/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW11-112415 | 11/24/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW11-122215 | 12/22/2015 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW11-012516 | 1/25/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW11-021816 | 2/18/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW11-031616 | 3/16/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW11-042716 | 4/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW11-050916 | 5/9/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW11-062716 | 6/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW11-072816 | 7/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW11-081916 | 8/19/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW11-092916 | 9/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW11-103116 | 10/31/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW11-112816 | 11/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW11-122916 | 12/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| 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 |
| | SW13-081916 | 8/19/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| SW-13 | SW13-092916 | 9/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW13-103116 | 10/31/2016 | µg/L | 1 U | 1 U | 2.0 | 2 U | 1 U | 1 U ¹ | NA |
| | SW13-112816 | 11/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | SW13-122916 | 12/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP01-031616 | 3/16/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| FP-01 | FP01-042716 | 4/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP01-050916 | 5/9/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP01-062716 | 6/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP01-072816 | 7/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP01-081916 | 8/19/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP01-092916 | 9/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP01-103116 | 10/31/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP01-112816 | 11/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP01-122916 | 12/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |

Table 3. Analytical Results for Surface Water
 Lewis Drive Release, Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"

| Location | Sample ID | Date Collected | Analyte Units | Benzene | Ethylbenzene | Toluene | m&p-Xylene | o-Xylene | Naphthalene | MTBE |
|----------|------------------|----------------|---------------|------------------|------------------|--------------------|--------------------|------------------|-------------------|-----------------|
| FP-02 | FP02-031616 | 3/16/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP02-042716 | 4/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP02-050916 | 5/9/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP02-062716 | 6/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP02-072816 | 7/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP02-081916 | 8/19/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP02-092916 | 9/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP02-103116 | 10/31/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP02-112816 | 11/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP02-122916 | 12/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| FP-03 | FP03-031616 | 3/16/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP03-042716 | 4/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP03-050916 | 5/9/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP03-062716 | 6/27/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP03-072816 | 7/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP03-092916 | 9/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP03-103116 | 10/31/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP03-112816 | 11/28/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | FP03-122916 | 12/29/2016 | µg/L | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U ¹ | NA |
| | Screening Value: | | µg/L | 2.2 ^a | 530 ^a | 1,000 ^a | 190 ^{b,c} | 190 ^b | 0.17 ^b | 14 ^b |

Notes:

^a South Carolina Department of Health and Environmental Control (SC DHEC) R.61-68, Water Classifications and Standards, Human Health for consumption of water and organism, June 22, 2012

^b U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSLs). Tapwater. June 2015. RSLs based on hazard quotient (HQ) = 1 and cancer risk = 1×10^{-6}

^c RSL value for total xylenes used for m&p-Xylene

¹ 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 can not be determined.

Samples analyzed for volatile organic compounds by EPA method SW 8260B

ID = identification

J = estimated value between method detection limit and the reporting limit

MTBE = methyl tertiary butyl ether

NA = not analyzed

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

µg/L = microgram(s) per liter

Bold indicates the analyte was detected above the laboratory reporting/quantitation limit.

Gray shading indicates the analyte exceeded screening criteria.

Table 4. Groundwater Elevation and Product Thickness Data*Plantation Pipe Line Company**Lewis Drive Release, Belton, South Carolina**Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

| Location ID | Date | Depth to | Depth to | Product | Top of | Groundwater | Corrected ² |
|-------------|------------|----------------------|--------------------|-------------------|---|-------------|---------------------------------------|
| | | Product (ft BTOC) | Water (ft BTOC) | Thickness (ft) | Casing Elevation ¹ (ft amsl) | | Groundwater Elevation (ft amsl) |
| MW-01 | | | | | 853.07 | | |
| | 12/21/2016 | - | 15.29 | - | | 837.78 | - |
| | 12/7/2016 | - | 15.23 | - | | 837.84 | - |
| MW-01B | | | | | 852.99 | | |
| | 12/21/2016 | - | 15.53 | - | | 837.46 | - |
| | 12/7/2016 | - | 15.62 | - | | 837.37 | - |
| MW-02 | | | | | 841.04 | | |
| | 12/21/2016 | 14.24 | 15.20 | 0.96 | | 825.84 | 826.54 |
| MW-02B | | | | | 841.18 | | |
| | 12/21/2016 | - | 14.81 | - | | 826.37 | - |
| MW-03 | | | | | 838.36 | | |
| | 12/21/2016 | - | 14.10 | - | | 824.26 | - |
| MW-04 | | | | | 844.42 | | |
| | 12/21/2016 | - | 17.03 | - | | 827.39 | - |
| MW-05 | | | | | 851.11 | | |
| | 12/21/2016 | - | 19.51 | - | | 831.60 | - |
| | 12/7/2016 | - | 19.46 | - | | 831.65 | - |
| MW-06 | | | | | 852.92 | | |
| | 12/21/2016 | - | 18.40 | - | | 834.52 | - |
| MW-07 | | | | | 853.02 | | |
| | 12/21/2016 | - | 13.21 | - | | 839.81 | - |
| | 12/7/2016 | - | 13.08 | - | | 839.94 | - |
| MW-08 | | | | | 844.72 | | |
| | 12/21/2016 | - | 17.95 | - | | 826.77 | - |
| MW-09 | | | | | 843.63 | | |
| | 12/21/2016 | 14.80 | 16.79 | 1.99 | | 826.84 | 828.29 |
| | 12/7/2016 | 14.25 | 16.07 | 1.82 | | 827.56 | 828.89 |
| MW-10 | | | | | 845.41 | | |
| | 12/21/2016 | - | 20.03 | - | | 825.38 | - |
| MW-11 | | | | | 855.63 | | |
| | 12/21/2016 | - | DRY | - | | - | - |
| | 12/7/2016 | - | 31.32 | - | | 824.31 | - |
| MW-12 | | | | | 834.53 | | |
| | 12/21/2016 | 15.88 | 17.41 | 1.53 | | 817.12 | 818.24 |
| | 12/7/2016 | 15.76 | 17.16 | 1.40 | | 817.37 | 818.39 |
| MW-12B | | | | | 834.98 | | |
| | 12/21/2016 | - | 16.58 | - | | 818.40 | - |
| | 12/7/2016 | - | 16.42 | - | | 818.56 | - |
| MW-13 | | | | | 848.84 | | |
| | 12/21/2016 | - | 22.05 | - | | 826.79 | - |
| | 12/7/2016 | - | 21.15 | - | | 827.69 | - |
| MW-13B | | | | | 849.82 | | |
| | 12/21/2016 | - | 25.69 | - | | 824.13 | - |
| MW-14 | | | | | 838.70 | | |
| | 12/21/2016 | - | 19.82 | - | | 818.88 | - |
| MW-14B | | | | | 840.20 | | |
| | 12/21/2016 | - | 21.52 | - | | 818.68 | - |
| MW-15 | | | | | 831.03 | | |
| | 12/21/2016 | - | 14.40 | - | | 816.63 | - |
| | 12/7/2016 | - | 14.21 | - | | 816.82 | - |

Table 4. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Release, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

| Location ID | Date | Depth to | Depth to | Product | Top of | Corrected ² Groundwater Elevation (ft amsl) |
|-------------|------------|----------------------|--------------------|-------------------|---|---|
| | | Product (ft BTOC) | Water (ft BTOC) | Thickness (ft) | Casing Elevation ¹ (ft amsl) | |
| MW-15B | | | | | 831.29 | |
| | 12/21/2016 | - | 17.46 | - | 813.83 | - |
| | 12/7/2016 | - | 17.34 | - | 813.95 | - |
| MW-16 | | | | | 847.67 | |
| | 12/21/2016 | 15.22 | 20.02 | 4.80 | 827.65 | 831.15 |
| | 12/7/2016 | 14.91 | 19.98 | 5.07 | 827.69 | 831.39 |
| MW-17 | | | | | 855.35 | |
| | 12/21/2016 | - | 10.85 | - | 844.50 | - |
| | 12/7/2016 | - | 10.80 | - | 844.55 | - |
| MW-17B | | | | | 855.37 | |
| | 12/21/2016 | - | 19.93 | - | 835.44 | - |
| | 12/7/2016 | - | 19.51 | - | 835.86 | - |
| MW-18 | | | | | 846.89 | |
| | 12/21/2016 | 18.05 | 19.62 | 1.57 | 827.27 | 828.41 |
| | 12/7/2016 | 17.69 | 19.59 | 1.90 | 827.30 | 828.68 |
| MW-19 | | | | | 853.94 | |
| | 12/21/2016 | - | 11.79 | - | 842.15 | - |
| | 12/7/2016 | - | 11.75 | - | 842.19 | - |
| MW-20 | | | | | 852.89 | |
| | 12/21/2016 | 15.57 | 17.56 | 1.99 | 835.33 | 836.78 |
| | 12/7/2016 | - | 15.28 | - | 837.61 | - |
| MW-21 | | | | | 855.77 | |
| | 12/21/2016 | - | 19.70 | - | 836.07 | - |
| | 12/7/2016 | - | 19.45 | - | 836.32 | - |
| MW-22 | | | | | 854.60 | |
| | 12/21/2016 | - | 9.97 | - | 844.63 | - |
| MW-23 | | | | | 849.57 | |
| | 12/21/2016 | - | 13.48 | - | 836.09 | - |
| | 12/7/2016 | - | 13.27 | - | 836.30 | - |
| MW-23B | | | | | 849.69 | |
| | 12/21/2016 | - | 12.78 | - | 836.91 | - |
| | 12/7/2016 | - | 12.64 | - | 837.05 | - |
| MW-24 | | | | | 817.92 | |
| | 12/21/2016 | - | 5.02 | - | 812.90 | - |
| | 12/7/2016 | - | 4.85 | - | 813.07 | - |
| MW-24B | | | | | 818.72 | |
| | 12/21/2016 | - | 5.93 | - | 812.79 | - |
| | 12/7/2016 | - | 5.76 | - | 812.96 | - |
| MW-25 | | | | | 826.18 | |
| | 12/21/2016 | - | 9.32 | - | 816.86 | - |
| | 12/7/2016 | - | 9.13 | - | 817.05 | - |
| MW-25B | | | | | 823.81 | |
| | 12/21/2016 | - | 6.42 | - | 817.39 | - |
| | 12/7/2016 | - | 8.06 | - | 815.75 | - |
| MW-26 | | | | | 847.56 | |
| | 12/21/2016 | - | 9.63 | - | 837.93 | - |
| | 12/7/2016 | - | 9.43 | - | 838.13 | - |
| MW-26B | | | | | 847.81 | |
| | 12/21/2016 | - | 10.97 | - | 836.84 | - |
| | 12/7/2016 | - | 10.69 | - | 837.12 | - |

Table 4. Groundwater Elevation and Product Thickness Data*Plantation Pipe Line Company**Lewis Drive Release, Belton, South Carolina**Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

| Location ID | Date | Depth to | Depth to | Product | Top of | Groundwater | Corrected ² |
|-------------|------------|----------------------|--------------------|-------------------|---|-------------|---------------------------------------|
| | | Product (ft BTOC) | Water (ft BTOC) | Thickness (ft) | Casing Elevation ¹ (ft amsl) | | Groundwater Elevation (ft amsl) |
| MW-27 | | | | | 854.11 | | |
| | 12/21/2016 | - | 29.16 | - | | 824.95 | - |
| | 12/7/2016 | - | 29.07 | - | | 825.04 | - |
| MW-27B | | | | | 857.14 | | |
| | 12/21/2016 | - | 32.58 | - | | 824.56 | - |
| | 12/7/2016 | - | 32.61 | - | | 824.53 | - |
| MW-28 | | | | | 844.31 | | |
| | 12/21/2016 | - | 25.32 | - | | 818.99 | - |
| | 12/7/2016 | - | 25.21 | - | | 819.10 | - |
| MW-29 | | | | | 852.20 | | |
| | 12/21/2016 | - | 13.52 | - | | 838.68 | - |
| | 12/7/2016 | - | 13.26 | - | | 838.94 | - |
| MW-30 | | | | | 841.28 | | |
| | 12/21/2016 | - | DRY | - | | - | - |
| | 12/7/2016 | - | 14.56 | - | | 826.72 | - |
| MW-31 | | | | | 845.04 | | |
| | 12/21/2016 | - | 22.76 | - | | 822.28 | - |
| MW-31B | | | | | 844.94 | | |
| | 12/21/2016 | - | 22.73 | - | | 822.21 | - |
| MW-32 | | | | | 842.93 | | |
| | 12/21/2016 | - | 18.28 | - | | 824.65 | - |
| MW-33 | | | | | 849.20 | | |
| | 12/21/2016 | - | 27.57 | - | | 821.63 | - |
| MW-33T | | | | | 849.11 | | |
| | 12/21/2016 | - | 28.56 | - | | 820.55 | - |
| MW-35 | | | | | 829.40 | | |
| | 12/21/2016 | - | 10.71 | - | | 818.69 | - |
| | 12/7/2016 | - | 10.69 | - | | 818.71 | - |
| MW-36 | | | | | 858.47 | | |
| | 12/21/2016 | - | 22.51 | - | | 835.96 | - |
| MW-36B | | | | | 858.15 | | |
| | 12/21/2016 | - | 22.23 | - | | 835.92 | - |
| MW-37 | | | | | NS | | |
| | 12/21/2016 | - | 3.72 | - | | NS | - |
| | 12/7/2016 | - | 3.67 | - | | NS | - |
| MW-38 | | | | | NS | | |
| | 12/21/2016 | - | 2.25 | - | | NS | - |
| | 12/7/2016 | - | 2.11 | - | | NS | - |
| MW-39 | | | | | NS | | |
| | 12/21/2016 | - | 5.35 | - | | NS | - |
| | 12/7/2016 | - | 6.31 | - | | NS | - |
| MW-40 | | | | | NS | | |
| | 12/21/2016 | - | 3.14 | - | | NS | - |
| | 12/7/2016 | - | 4.39 | - | | NS | - |
| MW-41 | | | | | NS | | |
| | 12/21/2016 | - | 4.73 | - | | NS | - |
| | 12/7/2016 | - | 4.71 | - | | NS | - |
| MW-42 | | | | | NS | | |
| | 12/21/2016 | - | 5.31 | - | | NS | - |
| | 12/7/2016 | - | 5.61 | - | | NS | - |

Table 4. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Release, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

| Location ID | Date | Depth to | Depth to | Product | Top of | Groundwater | Corrected ² |
|-------------|------------|----------------------|--------------------|-------------------|---------------------|-------------|---------------------------------------|
| | | Product (ft BTOC) | Water (ft BTOC) | Thickness (ft) | Casing (ft amsl) | | Groundwater Elevation (ft amsl) |
| RS-01 | | | | | 850.33 | | |
| | 12/21/2016 | 18.93 | 23.15 | 4.22 | | 827.18 | 830.26 |
| | 12/14/2016 | 18.96 | 22.40 | 3.44 | | 827.93 | 830.44 |
| | 12/7/2016 | 18.95 | 21.71 | 2.76 | | 828.62 | 830.64 |
| RS-02 | | | | | 850.10 | | |
| | 12/21/2016 | 17.98 | NO WATER | 2.02 | | - | - |
| | 12/14/2016 | 17.78 | 19.68 | 1.90 | | 830.42 | 831.81 |
| | 12/7/2016 | 17.71 | 19.62 | 1.91 | | 830.48 | 831.88 |
| RS-04 | | | | | 851.44 | | |
| | 12/21/2016 | 9.72 | 9.73 | 0.01 | | 841.71 | 841.72 |
| | 12/14/2016 | 9.71 | 9.73 | 0.02 | | 841.71 | 841.73 |
| | 12/7/2016 | 9.68 | NO WATER | 0.57 | | - | - |
| RS-05 | | | | | 848.55 | | |
| | 12/21/2016 | 17.43 | 20.70 | 3.27 | | 827.85 | 830.23 |
| | 12/14/2016 | 17.44 | 20.43 | 2.99 | | 828.12 | 830.30 |
| | 12/7/2016 | 17.24 | 19.88 | 2.64 | | 828.67 | 830.59 |
| RS-06 | | | | | 850.73 | | |
| | 12/21/2016 | 19.10 | 20.65 | 1.55 | | 830.08 | 831.21 |
| | 12/14/2016 | 18.97 | 20.39 | 1.42 | | 830.34 | 831.37 |
| | 12/7/2016 | 18.83 | 20.08 | 1.25 | | 830.65 | 831.56 |
| RS-07 | | | | | 856.04 | | |
| | 12/21/2016 | 16.38 | NO WATER | 0.27 | | - | - |
| | 12/14/2016 | 16.32 | 16.78 | 0.46 | | 839.26 | 839.60 |
| | 12/7/2016 | 16.36 | 16.78 | 0.42 | | 839.26 | 839.57 |
| RS-08 | | | | | 854.91 | | |
| | 12/21/2016 | 17.61 | 19.68 | 2.07 | | 835.23 | 836.74 |
| | 12/14/2016 | 17.55 | 19.65 | 2.10 | | 835.26 | 836.79 |
| | 12/7/2016 | 17.35 | 19.69 | 2.34 | | 835.22 | 836.92 |
| RS-09 | | | | | 849.12 | | |
| | 12/21/2016 | - | 18.48 | - | | 830.64 | - |
| | 12/14/2016 | 18.49 | 18.50 | 0.01 | | 830.62 | 830.63 |
| | 12/7/2016 | - | 18.43 | - | | 830.69 | - |
| RS-10 | | | | | 847.52 | | |
| | 12/21/2016 | 16.20 | 19.08 | 2.88 | | 828.44 | 830.55 |
| | 12/14/2016 | 16.07 | 18.79 | 2.72 | | 828.73 | 830.72 |
| | 12/7/2016 | 15.92 | 18.13 | 2.21 | | 829.39 | 831.01 |
| RS-11 | | | | | 848.41 | | |
| | 12/21/2016 | 17.04 | 17.87 | 0.83 | | 830.54 | 831.15 |
| | 12/14/2016 | 16.82 | 17.60 | 0.78 | | 830.81 | 831.38 |
| | 12/7/2016 | 16.64 | 17.31 | 0.67 | | 831.10 | 831.59 |
| RS-12 | | | | | 848.87 | | |
| | 12/21/2016 | 17.50 | 18.32 | 0.82 | | 830.55 | 831.15 |
| | 12/14/2016 | 17.26 | 18.04 | 0.78 | | 830.83 | 831.40 |
| | 12/7/2016 | 17.11 | 17.80 | 0.69 | | 831.07 | 831.57 |
| RS-13 | | | | | 848.28 | | |
| | 12/21/2016 | 19.72 | 19.73 | 0.01 | | 828.55 | 828.56 |
| | 12/14/2016 | 19.64 | 19.72 | 0.08 | | 828.56 | 828.62 |
| | 12/7/2016 | 19.45 | 19.65 | 0.20 | | 828.63 | 828.78 |
| RS-14 | | | | | 846.92 | | |
| | 12/21/2016 | 16.90 | 17.35 | 0.45 | | 829.57 | 829.90 |

Table 4. Groundwater Elevation and Product Thickness Data*Plantation Pipe Line Company**Lewis Drive Release, Belton, South Carolina**Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

| Location ID | Date | Depth to | Depth to | Product | Top of | Corrected ² | |
|----------------|------------|----------------------|--------------------|-------------------|---------------------|---------------------------------------|---------------------------------------|
| | | Product (ft BTOC) | Water (ft BTOC) | Thickness (ft) | Casing (ft amsl) | Groundwater Elevation (ft amsl) | Groundwater Elevation (ft amsl) |
| RS-14 (cont'd) | 12/14/2016 | 16.64 | 17.04 | 0.40 | | 829.88 | 830.17 |
| | 12/7/2016 | 16.47 | 16.75 | 0.28 | | 830.17 | 830.37 |
| RS-15 | | | | | 848.97 | | |
| | 12/21/2016 | 18.18 | 18.53 | 0.35 | | 830.44 | 830.70 |
| | 12/14/2016 | 17.87 | 18.18 | 0.31 | | 830.79 | 831.02 |
| | 12/7/2016 | 17.66 | 17.88 | 0.22 | | 831.09 | 831.25 |
| RS-16 | | | | | 846.77 | | |
| | 12/21/2016 | 17.80 | 18.32 | 0.52 | | 828.45 | 828.83 |
| | 12/14/2016 | 17.60 | 18.08 | 0.48 | | 828.69 | 829.04 |
| | 12/7/2016 | - | 17.32 | - | | 829.45 | - |
| RS-17 | | | | | 845.15 | | |
| | 12/21/2016 | 16.97 | 17.22 | 0.25 | | 827.93 | 828.11 |
| | 12/14/2016 | 16.75 | 17.00 | 0.25 | | 828.15 | 828.33 |
| | 12/7/2016 | 16.44 | 16.65 | 0.21 | | 828.50 | 828.66 |
| RS-18 | | | | | 848.59 | | |
| | 12/21/2016 | 19.15 | 19.65 | 0.50 | | 828.94 | 829.31 |
| | 12/14/2016 | 18.77 | 19.74 | 0.97 | | 828.85 | 829.56 |
| | 12/7/2016 | 18.71 | 19.47 | 0.76 | | 829.12 | 829.68 |
| RS-19 | | | | | 852.37 | | |
| | 12/21/2016 | 14.81 | 14.82 | 0.01 | | 837.55 | 837.55 |
| | 12/14/2016 | 15.83 | 15.85 | 0.02 | | 836.52 | 836.53 |
| | 12/7/2016 | 14.80 | 14.82 | 0.02 | | 837.55 | 837.56 |
| RS-20 | | | | | 843.49 | | |
| | 12/21/2016 | - | 11.40 | - | | 832.09 | - |
| | 12/14/2016 | - | 11.40 | - | | 832.09 | - |
| | 12/7/2016 | - | 11.36 | - | | 832.13 | - |
| RT-1A | | | | | 856.21 | | |
| | 12/21/2016 | 19.15 | NO WATER | 1.74 | | - | - |
| | 12/14/2016 | 19.10 | 20.85 | 1.75 | | 835.36 | 836.64 |
| | 12/7/2016 | 18.83 | 20.57 | 1.74 | | 835.64 | 836.91 |
| RT-1B | | | | | 857.30 | | |
| | 12/21/2016 | 20.09 | NO WATER | 0.91 | | - | - |
| | 12/14/2016 | 20.04 | 20.83 | 0.79 | | 836.47 | 837.04 |
| | 12/7/2016 | 19.79 | 20.69 | 0.90 | | 836.61 | 837.26 |
| RT-1C | | | | | 857.02 | | |
| | 12/21/2016 | 20.26 | NO WATER | 1.01 | | - | - |
| | 12/14/2016 | - | 20.20 | - | | 836.82 | - |
| | 12/7/2016 | 19.95 | 20.20 | 0.25 | | 836.82 | 837.00 |
| RT-2A | | | | | 818.31 | | |
| | 12/21/2016 | - | 2.81 | - | | 815.50 | - |
| | 12/14/2016 | - | 2.73 | - | | 815.58 | - |
| | 12/7/2016 | - | 2.11 | - | | 816.20 | - |
| RT-2B | | | | | 818.92 | | |
| | 12/21/2016 | 3.37 | 3.38 | 0.01 | | 815.54 | 815.55 |
| | 12/14/2016 | 3.30 | 3.33 | 0.03 | | 815.59 | 815.61 |
| | 12/7/2016 | 2.76 | 2.78 | 0.02 | | 816.14 | 816.15 |
| RT-2C | | | | | 819.02 | | |
| | 12/21/2016 | 3.15 | 3.17 | 0.02 | | 815.85 | 815.86 |
| | 12/14/2016 | 3.03 | 3.05 | 0.02 | | 815.97 | 815.98 |
| | 12/7/2016 | - | 2.50 | - | | 816.52 | - |

Table 4. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Release, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

| Location ID | Date | Depth to | Depth to | Product | Top of | Groundwater | Corrected ² |
|-------------|------------|----------------------|--------------------|-------------------|---|-------------|---------------------------------------|
| | | Product (ft BTOC) | Water (ft BTOC) | Thickness (ft) | Casing Elevation ¹ (ft amsl) | | Groundwater Elevation (ft amsl) |
| RT-2D | | | | | 819.57 | | |
| | 12/21/2016 | 3.96 | 3.99 | 0.03 | | 815.58 | 815.60 |
| | 12/14/2016 | 3.89 | 3.93 | 0.04 | | 815.64 | 815.67 |
| | 12/7/2016 | 3.31 | 3.34 | 0.03 | | 816.23 | 816.25 |
| RT-2E | | | | | 819.40 | | |
| | 12/21/2016 | 3.72 | 3.73 | 0.01 | | 815.67 | 815.68 |
| | 12/14/2016 | 3.65 | 3.66 | 0.01 | | 815.74 | 815.75 |
| | 12/7/2016 | - | 3.16 | - | | 816.24 | - |
| RT-2F | | | | | 819.52 | | |
| | 12/21/2016 | 3.59 | 3.60 | 0.01 | | 815.92 | 815.92 |
| | 12/14/2016 | 3.52 | 3.53 | 0.01 | | 815.99 | 815.99 |
| | 12/7/2016 | - | 2.98 | - | | 816.54 | - |
| RT-2G | | | | | 820.31 | | |
| | 12/21/2016 | 3.74 | 3.75 | 0.01 | | 816.56 | 816.57 |
| | 12/14/2016 | 3.63 | 3.64 | 0.01 | | 816.67 | 816.68 |
| | 12/7/2016 | - | 3.45 | - | | 816.86 | - |
| RT-2H | | | | | 822.17 | | |
| | 12/21/2016 | 5.54 | 5.55 | 0.01 | | 816.62 | 816.62 |
| | 12/14/2016 | 5.44 | 5.45 | 0.01 | | 816.72 | 816.72 |
| | 12/7/2016 | - | 4.47 | - | | 817.70 | - |
| RT-2I | | | | | 819.51 | | |
| | 12/21/2016 | 3.53 | 3.54 | 0.01 | | 815.97 | 815.98 |
| | 12/14/2016 | 3.46 | 3.47 | 0.01 | | 816.04 | 816.05 |
| | 12/7/2016 | - | NM | - | | - | - |
| RT-2J | | | | | 818.38 | | |
| | 12/21/2016 | 2.49 | 2.60 | 0.11 | | 815.78 | 815.86 |
| | 12/14/2016 | 2.35 | 2.49 | 0.14 | | 815.89 | 816.00 |
| | 12/7/2016 | - | 2.17 | - | | 816.21 | - |
| RT-2K | | | | | 817.46 | | |
| | 12/21/2016 | 1.19 | 1.20 | 0.01 | | 816.26 | 816.27 |
| | 12/14/2016 | 1.11 | 1.12 | 0.01 | | 816.34 | 816.35 |
| | 12/7/2016 | - | 1.01 | - | | 816.45 | - |
| RT-2L | | | | | 820.38 | | |
| | 12/21/2016 | 4.35 | 4.59 | 0.24 | | 815.79 | 815.96 |
| | 12/14/2016 | 4.30 | 4.50 | 0.20 | | 815.88 | 816.02 |
| | 12/7/2016 | 3.95 | 4.11 | 0.16 | | 816.27 | 816.38 |
| RW-01 | | | | | 851.92 | | |
| | 12/21/2016 | - | 20.43 | - | | 831.49 | - |
| | 12/14/2016 | 19.41 | 19.42 | 0.01 | | 832.50 | 832.51 |
| | 12/7/2016 | - | 19.75 | - | | 832.17 | - |
| RW-02 | | | | | 852.69 | | |
| | 12/21/2016 | 25.10 | 25.11 | 0.01 | | 827.58 | 827.59 |
| | 12/14/2016 | 25.09 | 25.10 | 0.01 | | 827.59 | 827.60 |
| | 12/7/2016 | - | 25.06 | - | | 827.63 | - |
| RW-03 | | | | | 852.34 | | |
| | 12/21/2016 | 26.68 | 27.05 | 0.37 | | 825.29 | 825.56 |
| | 12/14/2016 | 26.53 | 26.90 | 0.37 | | 825.44 | 825.71 |
| | 12/7/2016 | 26.32 | 26.68 | 0.36 | | 825.66 | 825.92 |
| RW-04 | | | | | 853.93 | | |
| | 12/21/2016 | 32.46 | 33.98 | 1.52 | | 819.95 | 821.06 |

Table 4. Groundwater Elevation and Product Thickness Data*Plantation Pipe Line Company**Lewis Drive Release, 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 ¹ (ft amsl) | Corrected ² Groundwater Elevation (ft amsl) | |
|----------------|------------|----------------------------|--------------------------|------------------------|--|--|--|
| | | | | | | Groundwater Elevation (ft amsl) | Corrected ² Groundwater Elevation (ft amsl) |
| RW-04 (cont'd) | 12/14/2016 | 32.32 | 33.80 | 1.48 | | 820.13 | 821.21 |
| | 12/7/2016 | 32.09 | 33.58 | 1.49 | | 820.35 | 821.44 |
| RW-05 | | | | | 853.53 | | |
| | 12/21/2016 | 35.06 | 36.40 | 1.34 | | 817.13 | 818.11 |
| | 12/14/2016 | 35.00 | 36.34 | 1.34 | | 817.19 | 818.17 |
| RW-06 | 12/7/2016 | - | 34.50 | - | | 819.03 | - |
| | | | | | 846.21 | | |
| | 12/21/2016 | 28.99 | 29.45 | 0.46 | | 816.76 | 817.09 |
| RW-07 | 12/14/2016 | 28.92 | 29.35 | 0.43 | | 816.86 | 817.17 |
| | 12/7/2016 | 28.84 | 29.92 | 1.08 | | 816.29 | 817.08 |
| | | | | | 843.19 | | |
| RW-08 | 12/21/2016 | 24.74 | 27.80 | 3.06 | | 815.39 | 817.63 |
| | 12/14/2016 | 24.68 | 27.79 | 3.11 | | 815.40 | 817.67 |
| | 12/7/2016 | 24.57 | 27.61 | 3.04 | | 815.58 | 817.80 |
| RW-09 | | | | | 835.48 | | |
| | 12/21/2016 | 17.99 | 20.33 | 2.34 | | 815.15 | 816.86 |
| | 12/14/2016 | 17.95 | 20.15 | 2.20 | | 815.33 | 816.93 |
| RW-10 | 12/7/2016 | 17.95 | 19.73 | 1.78 | | 815.75 | 817.05 |
| | | | | | 835.12 | | |
| | 12/21/2016 | 15.26 | 17.48 | 2.22 | | 817.64 | 819.26 |
| RW-11 | 12/14/2016 | 15.22 | 17.43 | 2.21 | | 817.69 | 819.31 |
| | 12/7/2016 | 15.10 | 17.20 | 2.10 | | 817.92 | 819.46 |
| | | | | | 848.53 | | |
| RW-12 | 12/21/2016 | 17.85 | 24.64 | 6.79 | | 823.89 | 828.85 |
| | 12/14/2016 | 17.73 | 24.50 | 6.77 | | 824.03 | 828.97 |
| | 12/7/2016 | 17.59 | 24.26 | 6.67 | | 824.27 | 829.14 |
| RW-13 | | | | | 852.97 | | |
| | 12/21/2016 | 15.48 | 18.23 | 2.75 | | 834.74 | 836.75 |
| | 12/14/2016 | 15.38 | 18.12 | 2.74 | | 834.85 | 836.85 |
| RW-14 | 12/7/2016 | 15.23 | 17.92 | 2.69 | | 835.05 | 837.01 |
| | | | | | 852.75 | | |
| | 12/21/2016 | 16.70 | NO WATER | 0.20 | | - | - |
| RW-15 | 12/14/2016 | 16.71 | NO WATER | 0.19 | | - | - |
| | 12/7/2016 | - | 14.00 | - | | 838.75 | - |
| | | | | | 847.97 | | |
| SW-01 | 12/21/2016 | 18.23 | 22.27 | 4.04 | | 825.70 | 828.65 |
| | 12/14/2016 | 18.10 | 22.09 | 3.99 | | 825.88 | 828.79 |
| | 12/7/2016 | 17.97 | 21.80 | 3.83 | | 826.17 | 828.96 |
| SW-02 | | | | | 827.54 | | |
| | 12/21/2016 | 12.83 | 13.10 | 0.27 | | 814.44 | 814.64 |
| | 12/14/2016 | 12.75 | 12.98 | 0.23 | | 814.56 | 814.73 |
| SW-02 | 12/7/2016 | 12.61 | 12.72 | 0.11 | | 814.82 | 814.90 |
| | | | | | 851.64 | | |
| | 12/21/2016 | 19.40 | 20.50 | 1.10 | | 831.14 | 831.94 |
| SW-02 | 12/14/2016 | 19.02 | 20.95 | 1.93 | | 830.69 | 832.10 |
| | 12/7/2016 | 18.88 | 20.58 | 1.70 | | 831.06 | 832.30 |
| | | | | | 812.82 | | |
| SW-02 | 12/21/2016 | - | (0.44) | - | | 813.26 | - |
| | | | | | 808.65 | | |
| SW-02 | 12/21/2016 | - | (1.36) | - | | 810.01 | - |

Table 4. Groundwater Elevation and Product Thickness Data*Plantation Pipe Line Company**Lewis Drive Release, 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 ¹ (ft amsl) | Groundwater Elevation (ft amsl) | Corrected ² Groundwater Elevation (ft amsl) |
|-------------|------------|-------------------------------|-----------------------------|---------------------------|--|------------------------------------|--|
| SW-03 | | | | | 815.09 | | |
| | 12/21/2016 | - | (0.46) | - | | 815.55 | - |
| SW-05 | | | | | 838.75 | | |
| | 12/21/2016 | - | DRY | - | | - | - |
| SW-08 | | | | | 802.04 | | |
| | 12/21/2016 | - | (1.19) | - | | 803.23 | - |
| SW-10 | | | | | 778.09 | | |
| | 12/21/2016 | - | (0.47) | - | | 778.56 | - |
| TW-04R | | | | | 852.64 | | |
| | 12/21/2016 | - | DRY | - | | - | - |
| TW-05R | | | | | 849.93 | | |
| | 12/21/2016 | - | DRY | - | | - | - |
| TW-14R | | | | | 853.37 | | |
| | 12/21/2016 | - | DRY | - | | - | - |
| TW-15R | | | | | 850.62 | | |
| | 12/21/2016 | - | DRY | - | | - | - |
| TW-21 | | | | | 849.70 | | |
| | 12/21/2016 | - | DRY | - | | - | - |
| TW-28 | | | | | 851.42 | | |
| | 12/21/2016 | 25.55 | 26.00 | 0.45 | | 825.42 | 825.75 |
| TW-30 | | | | | 851.81 | | |
| | 12/21/2016 | - | DRY | - | | - | - |
| TW-34 | | | | | 854.79 | | |
| | 12/21/2016 | - | 22.34 | - | | 832.45 | - |
| | 12/7/2016 | - | 22.21 | - | | 832.58 | - |
| TW-35 | | | | | 854.10 | | |
| | 12/21/2016 | - | 22.70 | - | | 831.40 | - |
| TW-40 | | | | | 853.35 | | |
| | 12/21/2016 | - | 29.66 | - | | 823.69 | - |
| | 12/7/2016 | - | 29.61 | - | | 823.74 | - |
| TW-41 | | | | | 849.38 | | |
| | 12/21/2016 | - | DRY | - | | - | - |
| | 12/7/2016 | - | 29.86 | - | | 819.52 | - |
| TW-42 | | | | | 846.84 | | |
| | 12/21/2016 | - | DRY | - | | - | - |
| TW-45 | | | | | 848.31 | | |
| | 12/21/2016 | 29.40 | 31.50 | 2.10 | | 816.81 | 818.34 |
| | 12/7/2016 | - | 27.45 | - | | 820.86 | - |
| TW-46 | | | | | 846.88 | | |
| | 12/21/2016 | - | NM | - | | - | - |
| | 12/7/2016 | 29.28 | 31.41 | 2.13 | | 815.47 | 817.03 |
| TW-55 | | | | | 845.93 | | |
| | 12/21/2016 | - | 15.60 | - | | 830.33 | - |
| TW-59 | | | | | 834.78 | | |
| | 12/21/2016 | - | 16.35 | - | | 818.43 | - |
| | 12/7/2016 | - | 15.56 | - | | 819.22 | - |
| TW-60 | | | | | 828.03 | | |
| | 12/21/2016 | - | 10.51 | - | | 817.52 | - |
| | 12/7/2016 | - | 10.33 | - | | 817.70 | - |
| TW-64 | | | | | 845.88 | | |

Table 4. Groundwater Elevation and Product Thickness Data*Plantation Pipe Line Company**Lewis Drive Release, 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 (ft amsl) ¹ | Groundwater Elevation (ft amsl) | Corrected ² Groundwater Elevation (ft amsl) |
|----------------|------------|-------------------------------|-----------------------------|---------------------------|---|------------------------------------|--|
| TW-64 (cont'd) | 12/21/2016 | - | 20.88 | - | | 825.00 | - |
| TW-65 | | | | | 845.62 | | |
| | 12/21/2016 | - | 23.87 | - | | 821.75 | - |
| TW-66 | | | | | 820.31 | | |
| | 12/21/2016 | - | 3.18 | - | | 817.13 | - |
| | 12/7/2016 | - | 3.01 | - | | 817.30 | - |
| TW-67 | | | | | 852.71 | | |
| | 12/21/2016 | - | 16.31 | - | | 836.40 | - |
| TW-68 | | | | | 846.45 | | |
| | 12/21/2016 | - | 24.90 | - | | 821.55 | - |
| TW-69 | | | | | 840.27 | | |
| | 12/21/2016 | - | 17.77 | - | | 822.50 | - |
| TW-70 | | | | | 841.95 | | |
| | 12/21/2016 | - | 20.60 | - | | 821.35 | - |
| TW-73 | | | | | 850.53 | | |
| | 12/21/2016 | - | 12.35 | - | | 838.18 | - |
| TW-76 | | | | | 852.44 | | |
| | 12/21/2016 | - | 18.23 | - | | 834.21 | - |
| TW-81 | | | | | 849.43 | | |
| | 12/21/2016 | - | DRY | - | | - | - |
| TW-82 | | | | | 849.64 | | |
| | 12/21/2016 | - | DRY | - | | - | - |
| TW-83 | | | | | 850.44 | | |
| | 12/21/2016 | - | 12.46 | - | | 837.98 | - |
| TW-84 | | | | | 851.22 | | |
| | 12/21/2016 | - | 12.36 | - | | 838.86 | - |
| TW-85 | | | | | 843.49 | | |
| | 12/21/2016 | - | 17.84 | - | | 825.65 | - |
| TW-86 | | | | | 853.10 | | |
| | 12/21/2016 | - | DRY | - | | - | - |
| TW-87 | | | | | 852.25 | | |
| | 12/21/2016 | - | DRY | - | | - | - |
| TW-90 | | | | | 845.43 | | |
| | 12/21/2016 | - | 18.41 | - | | 827.02 | - |
| TW-94 | | | | | 840.58 | | |
| | 12/21/2016 | 14.15 | 14.85 | 0.70 | | 825.73 | 826.25 |
| TW-96 | | | | | 840.40 | | |
| | 12/21/2016 | - | 15.61 | - | | 824.79 | - |

¹ Elevation of zero mark (ft amsl) for surface water staff gauges² Calculated based on an oil:water density ratio of 0.73

amsl = above mean sea level

BTOC = below top of casing

ft = feet

NM = not measured

NS = elevation not yet surveyed

Table 5. Product Evacuation Times and Product Thicknesses

Lewis Drive Release, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

| Well ID | Date | Time | | Product Thickness | |
|---------|------------|------------|-------------|-------------------|-----------------------|
| | | Start Time | Finish Time | Spent (mins) | before Vacuuming (ft) |
| RS-01 | 11/10/2016 | 10:56 | 11:09 | 13 | 0.84 |
| RS-02 | 11/10/2016 | 10:44 | 10:55 | 11 | 1.26 |
| RS-05 | 11/10/2016 | 11:12 | 11:14 | 2 | 0.93 |
| RS-08 | 11/10/2016 | 10:30 | 10:40 | 10 | 2.03 |
| RS-18 | 11/10/2016 | 11:20 | 11:37 | 17 | 0.46 |
| RS-20 | 11/10/2016 | 11:34 | 11:44 | 10 | 0.00 |
| RT-1A | 11/10/2016 | 10:18 | 10:30 | 12 | 1.03 |
| RT-1B | 11/10/2016 | 10:05 | 10:18 | 13 | 0.85 |
| RT-1C | 11/10/2016 | 9:50 | 10:05 | 15 | 1.00 |
| RT-2C | 11/10/2016 | 12:30 | 12:37 | 7 | 0.00 |
| RW-04 | 11/10/2016 | 11:19 | 11:29 | 10 | 1.80 |
| RW-05 | 11/10/2016 | 11:30 | 11:46 | 16 | 1.40 |
| RW-07 | 11/10/2016 | 11:49 | 12:03 | 14 | 2.58 |
| RW-08 | 11/10/2016 | 12:05 | 12:17 | 12 | 0.34 |
| RW-09 | 11/10/2016 | 12:17 | 12:29 | 12 | 1.94 |
| RW-10 | 11/10/2016 | 10:45 | 10:53 | 8 | 5.99 |
| RW-11 | 11/10/2016 | 9:37 | 9:45 | 8 | 2.71 |
| RW-13 | 11/10/2016 | 11:03 | 11:07 | 4 | 2.95 |
| RS-08 | 12/9/2016 | 14:45 | 15:20 | 35 | 2.34 |
| RS-12 | 12/9/2016 | 15:20 | 15:40 | 20 | 0.69 |
| RT-1A | 12/9/2016 | 14:00 | 14:45 | 45 | 1.74 |
| RT-1B | 12/9/2016 | 13:30 | 14:00 | 30 | 0.90 |
| RT-1C | 12/9/2016 | 11:44 | 12:30 | 46 | 0.25 |
| RS-02 | 12/14/2016 | 15:29 | 15:39 | 10 | 1.90 |
| RS-05 | 12/14/2016 | 14:39 | 14:49 | 10 | 2.99 |
| RS-06 | 12/14/2016 | 15:04 | 15:14 | 10 | 1.42 |
| RS-10 | 12/14/2016 | 14:03 | 14:13 | 10 | 2.72 |
| RS-11 | 12/14/2016 | 14:14 | 14:24 | 10 | 0.78 |
| RS-12 | 12/14/2016 | 14:24 | 14:34 | 10 | 0.78 |
| RS-18 | 12/14/2016 | 14:53 | 15:03 | 10 | 0.97 |
| RT-1A | 12/14/2016 | 10:16 | 10:31 | 15 | 1.75 |
| RT-1B | 12/14/2016 | 10:32 | 10:46 | 14 | 0.79 |
| RT-1C | 12/14/2016 | 10:46 | 11:00 | 14 | 0.00 |
| RW-10 | 12/14/2016 | 15:46 | 15:56 | 10 | 6.77 |
| RW-13 | 12/14/2016 | 15:59 | 16:09 | 10 | 3.99 |
| RW-15 | 12/14/2016 | 16:16 | 16:26 | 10 | 1.93 |
| MW-09 | 12/22/2016 | 14:30 | 14:40 | 10 | 1.99 |
| MW-12 | 12/22/2016 | 13:30 | 13:40 | 10 | 1.53 |
| MW-16 | 12/22/2016 | 15:36 | 15:46 | 10 | 4.80 |
| MW-20 | 12/22/2016 | 17:35 | 17:45 | 10 | 1.99 |
| RS-01 | 12/22/2016 | 16:28 | 16:38 | 10 | 4.22 |
| RS-02 | 12/22/2016 | 15:58 | 16:07 | 9 | 2.02 |
| RS-05 | 12/22/2016 | 16:08 | 16:16 | 8 | 3.27 |
| RS-06 | 12/22/2016 | 15:47 | 15:57 | 10 | 1.55 |
| RS-08 | 12/22/2016 | 17:46 | 17:55 | 9 | 2.07 |
| RS-10 | 12/22/2016 | 15:02 | 15:12 | 10 | 2.88 |
| RS-11 | 12/22/2016 | 14:51 | 15:00 | 9 | 0.83 |
| RS-12 | 12/22/2016 | 14:41 | 14:50 | 9 | 0.82 |
| RS-16 | 12/22/2016 | 14:20 | 14:29 | 9 | 0.52 |
| RS-18 | 12/22/2016 | 16:17 | 16:27 | 10 | 0.50 |
| RT-1A | 12/22/2016 | 17:21 | 17:30 | 9 | 1.74 |
| RT-1B | 12/22/2016 | 17:10 | 17:20 | 10 | 0.91 |

Table 5. Product Evacuation Times and Product Thicknesses

Lewis Drive Release, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

| Well ID | Date | Start | Finish | Time | Product Thickness |
|---------|------------|-------|--------|-----------------|--------------------------|
| | | Time | Time | Spent (mins) | before Vacuuming (ft) |
| RT-1C | 12/22/2016 | 16:55 | 17:05 | 10 | 1.01 |
| RW-04 | 12/22/2016 | 14:07 | 14:17 | 10 | 1.52 |
| RW-05 | 12/22/2016 | 13:56 | 14:06 | 10 | 1.34 |
| RW-06 | 12/22/2016 | 12:50 | 13:00 | 10 | 0.46 |
| RW-07 | 12/22/2016 | 13:00 | 13:10 | 10 | 3.06 |
| RW-09 | 12/22/2016 | 13:20 | 13:29 | 9 | 2.22 |
| RW-11 | 12/22/2016 | 15:14 | 15:23 | 9 | 2.75 |
| RW-13 | 12/22/2016 | 15:25 | 15:34 | 9 | 4.04 |
| RW-15 | 12/22/2016 | 16:40 | 16:50 | 10 | 1.10 |
| MW-09 | 12/30/2016 | 15:14 | 15:24 | 10 | 1.99 |
| MW-16 | 12/30/2016 | 11:27 | 11:33 | 6 | 4.80 |
| MW-20 | 12/30/2016 | 11:05 | 11:10 | 5 | 1.99 |
| RS-01 | 12/30/2016 | 12:19 | 12:55 | 36 | 4.30 |
| RS-02 | 12/30/2016 | 13:53 | 14:03 | 10 | 1.80 |
| RS-05 | 12/30/2016 | 12:36 | 12:45 | 9 | 3.60 |
| RS-06 | 12/30/2016 | 12:08 | 12:16 | 8 | 1.80 |
| RS-08 | 12/30/2016 | 10:55 | 11:05 | 10 | 2.20 |
| RS-10 | 12/30/2016 | 14:44 | 14:54 | 10 | 4.30 |
| RS-11 | 12/30/2016 | 11:55 | 12:05 | 10 | 0.90 |
| RS-16 | 12/30/2016 | 15:00 | 15:10 | 10 | 0.30 |
| RS-18 | 12/30/2016 | 14:34 | 14:42 | 8 | 0.40 |
| RT-1A | 12/30/2016 | 10:10 | 10:20 | 10 | 1.50 |
| RT-1B | 12/30/2016 | 10:40 | 10:50 | 10 | 0.80 |
| RT-1C | 12/30/2016 | 10:26 | 10:36 | 10 | 0.87 |
| RW-03 | 12/30/2016 | 8:50 | 8:59 | 9 | 0.30 |
| RW-04 | 12/30/2016 | 9:00 | 9:10 | 10 | 1.80 |
| RW-05 | 12/30/2016 | 9:12 | 9:22 | 10 | 0.40 |
| RW-06 | 12/30/2016 | 9:30 | 9:41 | 11 | 1.00 |
| RW-10 | 12/30/2016 | 9:50 | 10:01 | 11 | 6.70 |
| RW-11 | 12/30/2016 | 11:14 | 11:19 | 5 | 2.80 |
| RW-12 | 12/30/2016 | 11:44 | 11:54 | 10 | 0.10 |
| RW-13 | 12/30/2016 | 11:34 | 11:44 | 10 | 4.00 |
| RW-15 | 12/30/2016 | 14:05 | 14:15 | 10 | 1.10 |

Table 6. Analytical Results for Groundwater

Lewis Drive Release, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

| Location | Sample ID | Sample Date | Units | Analyte: | Benzene | Ethylbenzene | Toluene | Total Xylenes | 1,2-DCA | MTBE | Naphthalene |
|----------|-----------------------------|-------------|-------|-------------|------------|--------------|-------------|---------------|-------------|-------|-------------|
| MW-01 | NC | | | | | | | | | | |
| MW-01B | MW-01B-120116 | 12/1/2016 | µg/L | 1 U | 1 U | 1.4 | 5.6 | 1 U | 1 U | 1 U | 1.3 |
| MW-02 | FP | | | | | | | | | | |
| MW-02B | Not collected - well silted | | | | | | | | | | |
| MW-03 | MW-03-120616 | 12/6/2016 | µg/L | 61.1 | 25.1 | 229 | 330 | 2 U | 2 U | 1 U | 3.6 |
| MW-04 | MW-04-120616 | 12/6/2016 | µg/L | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-05 | NC | | | | | | | | | | |
| MW-06 | MW-06-120216 | 12/2/2016 | µg/L | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-07 | NC | | | | | | | | | | |
| MW-08 | MW-08-120616 | 12/6/2016 | µg/L | 1 U | 1 U | 14.4 | 7.1 | 1 U | 1 U | 1 U | 1 U |
| MW-09 | FP | | | | | | | | | | |
| MW-10 | MW-10-120616 | 12/6/2016 | µg/L | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-11 | NC | | | | | | | | | | |
| MW-12 | FP | | | | | | | | | | |
| MW-12B | MW-12B-113016 | 11/30/2016 | µg/L | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-13 | NC | | | | | | | | | | |
| MW-13B | MW-13B-113016 | 11/30/2016 | µg/L | 550 | 5.1 | 21.2 | 140 | 5 U | 158 | 5 U | 7.9 |
| MW-14 | MW-14-113016 | 11/30/2016 | µg/L | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-14B | MW-14B-113016 | 11/30/2016 | µg/L | 10.5 | 1 U | 1.1 | 5.5 | 1 U | 19.7 | 1 U | 1 U |
| MW-15 | MW-15-120716 | 12/7/2016 | µg/L | 3680 | 139 | 422 | 2280 | 25 U | 188 | 25 U | 43.8 |
| MW-15B | MW-15B-113016 | 11/30/2016 | µg/L | 337 | 34 | 565 | 194 | 5 U | 26.7 | 5 U | 5 |
| MW-16 | FP | | | | | | | | | | |
| MW-17 | NC | | | | | | | | | | |
| MW-17B | MW-17B-120116 | 12/1/2016 | µg/L | 9370 | 761 | 16900 | 4500 | 100 U | 954 | 100 U | 112 |
| MW-18 | FP | | | | | | | | | | |
| MW-19 | NC | | | | | | | | | | |
| MW-20 | FP | | | | | | | | | | |
| MW-21 | MW-21-112916 | 11/29/2016 | µg/L | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-22 | NC | | | | | | | | | | |
| MW-23 | MW-23-120216 | 12/2/2016 | µg/L | 450 | 5 U | 14.6 | 336 | 5 U | 46.4 | 5 U | 5.9 |
| MW-23B | MW-23B-120216 | 12/2/2016 | µg/L | 1 U | 1.4 | 3.5 | 11.0 | 1 U | 1 U | 1 U | 1.3 |
| MW-24 | MW-24-120716 | 12/7/2016 | µg/L | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-24B | MW-24B-120716 | 12/7/2016 | µg/L | 1 U | 1 U | 2.9 | 1.6 | 1 U | 1 U | 1 U | 1 U |
| MW-25 | MW-25-012716 | 12/1/2016 | µg/L | 675 | 30.2 | 15.3 | 619 | 5 U | 5.9 | 5 U | 29.7 |
| MW-25B | MW-25B-120116 | 12/1/2016 | µg/L | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-26 | MW-26-120116 | 12/1/2016 | µg/L | 1 U | 1 U | 2.3 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-26B | MW-26B-120116 | 12/1/2016 | µg/L | 1 U | 1 U | 1 U | 1.3 | 1 U | 1 U | 1 U | 1 U |
| MW-27 | NC | | | | | | | | | | |

Table 6. Analytical Results for Groundwater
Lewis Drive Release, Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

| Location | Sample ID | Sample Date | Units | Analyte: | Benzene | Ethylbenzene | Toluene | Total Xylenes | 1,2-DCA | MTBE | Naphthalene |
|----------|----------------|-------------|-------|-------------|-------------|--------------|-------------|---------------|-------------|------|-------------|
| MW-27B | MW-27B-120216 | 12/2/2016 | µg/L | 1 U | 5.3 | 9.1 | 45.7 | 1 U | 1 U | 1 U | 8.9 |
| MW-28 | NC | | | | | | | | | | |
| MW-29 | MW-29-112916 | 11/29/2016 | µg/L | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-30 | NC | | | | | | | | | | |
| MW-31 | MW-31-112916 | 11/29/2016 | µg/L | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-32 | MW-32-120616 | 12/6/2016 | µg/L | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-35 | MW-35-120116 | 12/1/2016 | µg/L | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-36 | MW-36-112916 | 11/29/2016 | µg/L | 1.3 | 1 U | 6.5 | 1.1 | 1 U | 1 U | 1 U | 1 U |
| MW-36 | MW-36-D-112916 | 11/29/2016 | µg/L | 1 U | 1 U | 5.4 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-36B | MW-36B-112916 | 11/29/2016 | µg/L | 1 U | 1 U | 1.6 | 1 U | 1 U | 1 U | 1 U | 1 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 | 1 U |
| MW-38 | MW-38-113016 | 11/30/2016 | µg/L | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-39 | MW-39-120716 | 12/7/2016 | µg/L | 6320 | 1290 | 3650 | 50 U | 311 | 86 | | |
| MW-40 | MW-40-120716 | 12/7/2016 | µg/L | 6730 | 7460 | 3390 | 50 U | 373 | 64.8 | | |
| MW-41 | MW-41-120716 | 12/7/2016 | µg/L | 212 | 2 U | 2 U | 155 | 2 U | 6.7 | 5.6 | |
| MW-42 | MW-42-120716 | 12/7/2016 | µg/L | 3.8 | 1 U | 1 U | 2.7 | 1 U | 1 U | 1 U | |
| RBSL*: | | | µg/L | 5.0 | 700 | 1,000 | 10,000 | 5.0 | 40 | 25 | |

Notes:

* RBSL = Risk-based screening levels identified in South Carolina Underground Storage Tank Management Division Programmatic Quality Assurance Program Plan, Revision 3, Table D1 "RBSLs for Groundwater", May 2015

Samples analyzed by EPA Methods SW 8260B and 8011

µg/L = microgram(s) per liter

1,2-DCA = 1,2-dichloroethane

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

ID = identification

MTBE = methyl tertiary butyl ether

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

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

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

Gray shading indicates the analyte exceeded RBSLs.

January 05, 2017

Bill Waldron
CH2M HILL
1717 Arch St
Suite 4400
Glenside, PA 19038

RE: Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

Dear Bill Waldron:

Enclosed are the analytical results for sample(s) received by the laboratory on December 30, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Bethany Garvey, CH2M HILL
Scott Powell, CH2M
Tom Wiley, CH2M



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: Kinder Morgan- Lewis Drive
 Pace Project No.: 92324932

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-------------|----------|----------|-------------------|------------|
| 92324932001 | SW11-122916 | EPA 8260 | GAW | 10 | PASI-C |
| 92324932002 | SW10-122916 | EPA 8260 | GAW | 10 | PASI-C |
| 92324932003 | FP01-122916 | EPA 8260 | GAW | 10 | PASI-C |
| 92324932004 | FP02-122916 | EPA 8260 | GAW | 10 | PASI-C |
| 92324932005 | FP03-122916 | EPA 8260 | GAW | 10 | PASI-C |
| 92324932006 | SW09-122916 | EPA 8260 | GAW | 10 | PASI-C |
| 92324932007 | SW08-122916 | EPA 8260 | GAW | 10 | PASI-C |
| 92324932008 | SW13-122916 | EPA 8260 | GAW | 10 | PASI-C |
| 92324932009 | SW02-122916 | EPA 8260 | GAW | 10 | PASI-C |
| 92324932010 | SW04-122916 | EPA 8260 | GAW | 10 | PASI-C |
| 92324932011 | SW01-122916 | EPA 8260 | GAW | 10 | PASI-C |
| 92324932012 | SW12-122916 | EPA 8260 | GAW | 10 | PASI-C |
| 92324932014 | SW03-122916 | EPA 8260 | GAW | 10 | PASI-C |
| 92324932015 | TB-122916 | EPA 8260 | GAW | 10 | PASI-C |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| Sample: SW11-122916 | Lab ID: 92324932001 | Collected: 12/29/16 10:20 | Received: 12/30/16 09:40 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/31/16 15:25 | 71-43-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/31/16 15:25 | 100-41-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/31/16 15:25 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/31/16 15:25 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/31/16 15:25 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/31/16 15:25 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/31/16 15:25 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 104 | % | 70-130 | 1 | | 12/31/16 15:25 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 108 | % | 70-130 | 1 | | 12/31/16 15:25 | 17060-07-0 | |
| Toluene-d8 (S) | 109 | % | 70-130 | 1 | | 12/31/16 15:25 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| Sample: SW10-122916 | Lab ID: 92324932002 | Collected: 12/29/16 10:30 | Received: 12/30/16 09:40 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/31/16 15:42 | 71-43-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/31/16 15:42 | 100-41-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/31/16 15:42 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/31/16 15:42 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/31/16 15:42 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/31/16 15:42 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/31/16 15:42 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 105 | % | 70-130 | 1 | | 12/31/16 15:42 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 108 | % | 70-130 | 1 | | 12/31/16 15:42 | 17060-07-0 | |
| Toluene-d8 (S) | 113 | % | 70-130 | 1 | | 12/31/16 15:42 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| Sample: FP01-122916 | Lab ID: 92324932003 | Collected: 12/29/16 11:00 | Received: 12/30/16 09:40 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:00 | 71-43-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:00 | 100-41-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:00 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:00 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/31/16 16:00 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/31/16 16:00 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:00 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 104 | % | 70-130 | 1 | | 12/31/16 16:00 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 110 | % | 70-130 | 1 | | 12/31/16 16:00 | 17060-07-0 | |
| Toluene-d8 (S) | 110 | % | 70-130 | 1 | | 12/31/16 16:00 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| Sample: FP02-122916 | Lab ID: 92324932004 | Collected: 12/29/16 11:10 | Received: 12/30/16 09:40 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:17 | 71-43-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:17 | 100-41-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:17 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:17 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/31/16 16:17 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/31/16 16:17 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:17 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 104 | % | 70-130 | 1 | | 12/31/16 16:17 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 108 | % | 70-130 | 1 | | 12/31/16 16:17 | 17060-07-0 | |
| Toluene-d8 (S) | 111 | % | 70-130 | 1 | | 12/31/16 16:17 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| Sample: FP03-122916 | Lab ID: 92324932005 | Collected: 12/29/16 10:50 | Received: 12/30/16 09:40 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:35 | 71-43-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:35 | 100-41-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:35 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:35 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/31/16 16:35 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/31/16 16:35 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:35 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 104 | % | 70-130 | 1 | | 12/31/16 16:35 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 107 | % | 70-130 | 1 | | 12/31/16 16:35 | 17060-07-0 | |
| Toluene-d8 (S) | 109 | % | 70-130 | 1 | | 12/31/16 16:35 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| Sample: SW09-122916 | Lab ID: 92324932006 | Collected: 12/29/16 11:20 | Received: 12/30/16 09:40 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:52 | 71-43-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:52 | 100-41-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:52 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:52 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/31/16 16:52 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/31/16 16:52 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/31/16 16:52 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 103 | % | 70-130 | 1 | | 12/31/16 16:52 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 109 | % | 70-130 | 1 | | 12/31/16 16:52 | 17060-07-0 | |
| Toluene-d8 (S) | 109 | % | 70-130 | 1 | | 12/31/16 16:52 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| Sample: SW08-122916 | Lab ID: 92324932007 | Collected: 12/29/16 11:25 | Received: 12/30/16 09:40 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/31/16 17:09 | 71-43-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/31/16 17:09 | 100-41-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/31/16 17:09 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/31/16 17:09 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/31/16 17:09 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/31/16 17:09 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/31/16 17:09 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 105 | % | 70-130 | 1 | | 12/31/16 17:09 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 110 | % | 70-130 | 1 | | 12/31/16 17:09 | 17060-07-0 | |
| Toluene-d8 (S) | 116 | % | 70-130 | 1 | | 12/31/16 17:09 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| Sample: SW13-122916 | Lab ID: 92324932008 | Collected: 12/29/16 11:40 | Received: 12/30/16 09:40 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/31/16 17:27 | 71-43-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/31/16 17:27 | 100-41-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/31/16 17:27 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/31/16 17:27 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/31/16 17:27 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/31/16 17:27 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/31/16 17:27 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 106 | % | 70-130 | 1 | | 12/31/16 17:27 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 112 | % | 70-130 | 1 | | 12/31/16 17:27 | 17060-07-0 | |
| Toluene-d8 (S) | 115 | % | 70-130 | 1 | | 12/31/16 17:27 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| Sample: SW02-122916 | Lab ID: 92324932009 | Collected: 12/29/16 11:55 | Received: 12/30/16 09:40 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/31/16 17:44 | 71-43-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/31/16 17:44 | 100-41-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/31/16 17:44 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/31/16 17:44 | 108-88-3 | |
| Xylene (Total) | 1.4 | ug/L | 1.0 | 1 | | 12/31/16 17:44 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/31/16 17:44 | 179601-23-1 | |
| o-Xylene | 1.4 | ug/L | 1.0 | 1 | | 12/31/16 17:44 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 103 | % | 70-130 | 1 | | 12/31/16 17:44 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 105 | % | 70-130 | 1 | | 12/31/16 17:44 | 17060-07-0 | |
| Toluene-d8 (S) | 112 | % | 70-130 | 1 | | 12/31/16 17:44 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| Sample: SW04-122916 | Lab ID: 92324932010 | Collected: 12/29/16 11:50 | Received: 12/30/16 09:40 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/31/16 18:01 | 71-43-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/31/16 18:01 | 100-41-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/31/16 18:01 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/31/16 18:01 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/31/16 18:01 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/31/16 18:01 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/31/16 18:01 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 104 | % | 70-130 | 1 | | 12/31/16 18:01 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 112 | % | 70-130 | 1 | | 12/31/16 18:01 | 17060-07-0 | |
| Toluene-d8 (S) | 107 | % | 70-130 | 1 | | 12/31/16 18:01 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| Sample: SW01-122916 | Lab ID: 92324932011 | Collected: 12/29/16 12:10 | Received: 12/30/16 09:40 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | 12.6 | ug/L | 1.0 | 1 | | 12/31/16 18:19 | 71-43-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/31/16 18:19 | 100-41-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/31/16 18:19 | 91-20-3 | |
| Toluene | 22.1 | ug/L | 1.0 | 1 | | 12/31/16 18:19 | 108-88-3 | |
| Xylene (Total) | 24.7 | ug/L | 1.0 | 1 | | 12/31/16 18:19 | 1330-20-7 | |
| m&p-Xylene | 11.2 | ug/L | 2.0 | 1 | | 12/31/16 18:19 | 179601-23-1 | |
| o-Xylene | 13.5 | ug/L | 1.0 | 1 | | 12/31/16 18:19 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 105 | % | 70-130 | 1 | | 12/31/16 18:19 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 113 | % | 70-130 | 1 | | 12/31/16 18:19 | 17060-07-0 | |
| Toluene-d8 (S) | 107 | % | 70-130 | 1 | | 12/31/16 18:19 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| Sample: SW12-122916 | Lab ID: 92324932012 | Collected: 12/29/16 12:25 | Received: 12/30/16 09:40 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | 707 | ug/L | 10.0 | 10 | | 01/04/17 19:49 | 71-43-2 | |
| Ethylbenzene | 97.3 | ug/L | 10.0 | 10 | | 01/04/17 19:49 | 100-41-4 | |
| Naphthalene | 16.8 | ug/L | 10.0 | 10 | | 01/04/17 19:49 | 91-20-3 | |
| Toluene | 1790 | ug/L | 10.0 | 10 | | 01/04/17 19:49 | 108-88-3 | |
| Xylene (Total) | 621 | ug/L | 10.0 | 10 | | 01/04/17 19:49 | 1330-20-7 | |
| m&p-Xylene | 408 | ug/L | 20.0 | 10 | | 01/04/17 19:49 | 179601-23-1 | |
| o-Xylene | 213 | ug/L | 10.0 | 10 | | 01/04/17 19:49 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 10 | | 01/04/17 19:49 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 70-130 | 10 | | 01/04/17 19:49 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 70-130 | 10 | | 01/04/17 19:49 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| Sample: SW03-122916 | Lab ID: 92324932014 | Collected: 12/29/16 12:30 | Received: 12/30/16 09:40 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/31/16 18:36 | 71-43-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/31/16 18:36 | 100-41-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/31/16 18:36 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/31/16 18:36 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/31/16 18:36 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/31/16 18:36 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/31/16 18:36 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 104 | % | 70-130 | 1 | | 12/31/16 18:36 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 109 | % | 70-130 | 1 | | 12/31/16 18:36 | 17060-07-0 | |
| Toluene-d8 (S) | 109 | % | 70-130 | 1 | | 12/31/16 18:36 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| Sample: TB-122916 | Lab ID: 92324932015 | Collected: 12/29/16 00:00 | Received: 12/30/16 09:40 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/31/16 13:05 | 71-43-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/31/16 13:05 | 100-41-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/31/16 13:05 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/31/16 13:05 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/31/16 13:05 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/31/16 13:05 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/31/16 13:05 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 104 | % | 70-130 | 1 | | 12/31/16 13:05 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 101 | % | 70-130 | 1 | | 12/31/16 13:05 | 17060-07-0 | |
| Toluene-d8 (S) | 109 | % | 70-130 | 1 | | 12/31/16 13:05 | 2037-26-5 | |

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QUALITY CONTROL DATA

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| | | | |
|-------------------------|---|-----------------------|-----------------------|
| QC Batch: | 343105 | Analysis Method: | EPA 8260 |
| QC Batch Method: | EPA 8260 | Analysis Description: | 8260 MSV Low Level SC |
| Associated Lab Samples: | 92324932001, 92324932002, 92324932003, 92324932004, 92324932005, 92324932006, 92324932007, 92324932008, 92324932009, 92324932010, 92324932011, 92324932014, 92324932015 | | |

METHOD BLANK: 1903173 Matrix: Water

Associated Lab Samples: 92324932001, 92324932002, 92324932003, 92324932004, 92324932005, 92324932006, 92324932007, 92324932008, 92324932009, 92324932010, 92324932011, 92324932014, 92324932015

| Parameter | Units | Blank | Reporting | | |
|---------------------------|-------|--------|-----------|----------------|------------|
| | | Result | Limit | Analyzed | Qualifiers |
| Benzene | ug/L | ND | 1.0 | 12/31/16 12:30 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/31/16 12:30 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/31/16 12:30 | |
| Naphthalene | ug/L | ND | 1.0 | 12/31/16 12:30 | |
| o-Xylene | ug/L | ND | 1.0 | 12/31/16 12:30 | |
| Toluene | ug/L | ND | 1.0 | 12/31/16 12:30 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/31/16 12:30 | |
| 1,2-Dichloroethane-d4 (S) | % | 105 | 70-130 | 12/31/16 12:30 | |
| 4-Bromofluorobenzene (S) | % | 105 | 70-130 | 12/31/16 12:30 | |
| Toluene-d8 (S) | % | 112 | 70-130 | 12/31/16 12:30 | |

LABORATORY CONTROL SAMPLE: 1903174

| Parameter | Units | Spike | LCS | LCS | % Rec | Qualifiers |
|---------------------------|-------|-------|--------|-------|--------|------------|
| | | Conc. | Result | % Rec | Limits | |
| Benzene | ug/L | 50 | 58.7 | 117 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 51.4 | 103 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 104 | 104 | 70-130 | |
| Naphthalene | ug/L | 50 | 49.9 | 100 | 70-130 | |
| o-Xylene | ug/L | 50 | 52.3 | 105 | 70-130 | |
| Toluene | ug/L | 50 | 55.0 | 110 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 157 | 105 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 100 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 103 | 70-130 | |
| Toluene-d8 (S) | % | | | 100 | 70-130 | |

MATRIX SPIKE SAMPLE: 1903176

| Parameter | Units | 92324811004 | Spike | MS | MS | % Rec | Qualifiers |
|---------------------------|-------|-------------|-------|--------|-------|--------|------------|
| | | Result | Conc. | Result | % Rec | Limits | |
| Benzene | ug/L | ND | 20 | 25.0 | 125 | 70-130 | |
| Ethylbenzene | ug/L | ND | 20 | 21.2 | 106 | 70-130 | |
| m&p-Xylene | ug/L | ND | 40 | 42.5 | 106 | 70-130 | |
| Naphthalene | ug/L | ND | 20 | 17.4 | 87 | 70-130 | |
| o-Xylene | ug/L | ND | 20 | 21.1 | 106 | 70-130 | |
| Toluene | ug/L | ND | 20 | 23.9 | 119 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 108 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 105 | 70-130 | |
| Toluene-d8 (S) | % | | | | 103 | 70-130 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

SAMPLE DUPLICATE: 1903175

| Parameter | Units | 92324811003 | | RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-----|------------|
| | | Result | Dup Result | | |
| Benzene | ug/L | 3.9 | 5.4 | 34 | D6 |
| Ethylbenzene | ug/L | ND | ND | | |
| m&p-Xylene | ug/L | 0.88J | 1.1J | | |
| Naphthalene | ug/L | ND | ND | | |
| o-Xylene | ug/L | ND | .25J | | |
| Toluene | ug/L | ND | ND | | |
| Xylene (Total) | ug/L | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 107 | 107 | 0 | |
| 4-Bromofluorobenzene (S) | % | 106 | 106 | 0 | |
| Toluene-d8 (S) | % | 113 | 107 | 5 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| | | | |
|-------------------------|-------------|-----------------------|-----------------------|
| QC Batch: | 343337 | Analysis Method: | EPA 8260 |
| QC Batch Method: | EPA 8260 | Analysis Description: | 8260 MSV Low Level SC |
| Associated Lab Samples: | 92324932012 | | |

METHOD BLANK: 1904341 Matrix: Water
Associated Lab Samples: 92324932012

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Benzene | ug/L | ND | 1.0 | 01/04/17 14:47 | |
| Ethylbenzene | ug/L | ND | 1.0 | 01/04/17 14:47 | |
| m&p-Xylene | ug/L | ND | 2.0 | 01/04/17 14:47 | |
| Naphthalene | ug/L | ND | 1.0 | 01/04/17 14:47 | |
| o-Xylene | ug/L | ND | 1.0 | 01/04/17 14:47 | |
| Toluene | ug/L | ND | 1.0 | 01/04/17 14:47 | |
| Xylene (Total) | ug/L | ND | 1.0 | 01/04/17 14:47 | |
| 1,2-Dichloroethane-d4 (S) | % | 90 | 70-130 | 01/04/17 14:47 | |
| 4-Bromofluorobenzene (S) | % | 101 | 70-130 | 01/04/17 14:47 | |
| Toluene-d8 (S) | % | 109 | 70-130 | 01/04/17 14:47 | |

LABORATORY CONTROL SAMPLE: 1904342

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene | ug/L | 50 | 51.9 | 104 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 48.8 | 98 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 97.4 | 97 | 70-130 | |
| Naphthalene | ug/L | 50 | 49.7 | 99 | 70-130 | |
| o-Xylene | ug/L | 50 | 48.8 | 98 | 70-130 | |
| Toluene | ug/L | 50 | 49.3 | 99 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 146 | 97 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 93 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 101 | 70-130 | |
| Toluene-d8 (S) | % | | | 97 | 70-130 | |

MATRIX SPIKE SAMPLE: 1904345

| Parameter | Units | 92325002001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Benzene | ug/L | 669 | 4000 | 5120 | 111 | 70-130 | |
| Ethylbenzene | ug/L | ND | 4000 | 4320 | 105 | 70-130 | |
| m&p-Xylene | ug/L | 775 | 8000 | 9280 | 106 | 70-130 | |
| Naphthalene | ug/L | 358 | 4000 | 4200 | 96 | 70-130 | |
| o-Xylene | ug/L | 234 | 4000 | 4430 | 105 | 70-130 | |
| Toluene | ug/L | 907 | 4000 | 5130 | 106 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 98 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 99 | 70-130 | |
| Toluene-d8 (S) | % | | | | 98 | 70-130 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

SAMPLE DUPLICATE: 1904344

| Parameter | Units | 92325002004 | | RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-----|------------|
| | | Result | Dup Result | | |
| Benzene | ug/L | ND | 8.2J | | |
| Ethylbenzene | ug/L | 41.0 | 40.7 | 1 | |
| m&p-Xylene | ug/L | ND | 17.3J | | |
| Naphthalene | ug/L | 97.5 | 101 | 3 | |
| o-Xylene | ug/L | 42.2 | 42.6 | 1 | |
| Toluene | ug/L | ND | 4J | | |
| Xylene (Total) | ug/L | 42.2 | 42.6 | 1 | |
| 1,2-Dichloroethane-d4 (S) | % | 97 | 95 | 3 | |
| 4-Bromofluorobenzene (S) | % | 101 | 100 | 0 | |
| Toluene-d8 (S) | % | 106 | 106 | 0 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Kinder Morgan- Lewis Drive
Pace Project No.: 92324932

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------|-----------------|----------|-------------------|------------------|
| 92324932001 | SW11-122916 | EPA 8260 | 343105 | | |
| 92324932002 | SW10-122916 | EPA 8260 | 343105 | | |
| 92324932003 | FP01-122916 | EPA 8260 | 343105 | | |
| 92324932004 | FP02-122916 | EPA 8260 | 343105 | | |
| 92324932005 | FP03-122916 | EPA 8260 | 343105 | | |
| 92324932006 | SW09-122916 | EPA 8260 | 343105 | | |
| 92324932007 | SW08-122916 | EPA 8260 | 343105 | | |
| 92324932008 | SW13-122916 | EPA 8260 | 343105 | | |
| 92324932009 | SW02-122916 | EPA 8260 | 343105 | | |
| 92324932010 | SW04-122916 | EPA 8260 | 343105 | | |
| 92324932011 | SW01-122916 | EPA 8260 | 343105 | | |
| 92324932012 | SW12-122916 | EPA 8260 | 343337 | | |
| 92324932014 | SW03-122916 | EPA 8260 | 343105 | | |
| 92324932015 | TB-122916 | EPA 8260 | 343105 | | |

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.01

Document Revised: Sept. 21, 2016
Page 1 of 2
Issuing Authority:
Pace Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

WO# : 92324932



Sample Condition Upon Receipt

Client Name:

Project #

JCH2M

Courier: FedEx UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other: _____

Thermometer: IR Gun ID: T11003 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Correction Factor: Cooler Temp Corrected (°C): 3.6 Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | | | Comments/Discrepancy: |
|---|---|--|------------------------------|---|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? -Pace Containers Used? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 6. |
| Containers Intact? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 7. |
| Samples Field Filtered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A | 8. Note if sediment is visible in the dissolved container |
| Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: | <input checked="" type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A | 9. Sample 2 is actually labeled as SW 72, instead of SW 70. |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A | 10. |
| Trip Blank Present? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | |

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____
 Comments/Sample Discrepancy: _____

Project Manager SCURF Review:

Date: 1/3/17

Project Manager SRF Review:

Date: 1/3/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)



Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.01

Document Revised: Sept. 21, 2016

Page 2 of 2

Issuing Authority:

WO# : 92324932

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

****Bottom half of box is to list number of bottles**

Project #

PM: KRG

Due Date: 01/09/17

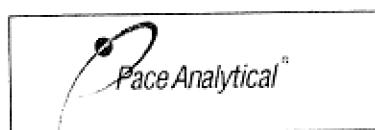
CL TENT: 92-KinderCH2

| Item# | |
|-------|---|
| 1 | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) |
| 2 | BP3U-250 mL Plastic Unpreserved (N/A) |
| 3 | BP2U-500 mL Plastic Unpreserved (N/A) |
| 4 | BP1U-1 liter Plastic Unpreserved (N/A) |
| 5 | BP3S-250 mL Plastic H ₂ SO ₄ (pH < 2) (Cl-) |
| 6 | BP3N-250 mL plastic HNO ₃ (pH < 2) |
| 7 | BP3Z-250 mL Plastic Zn Acetate & NaOH (>9) |
| 8 | BP3C-250 mL Plastic NaOH (pH > 12) (Cl-) |
| 9 | WGFU-Wide-mouthed Glass jar Unpreserved |
| 10 | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) |
| 11 | AG1H-1 liter Amber HCl (pH < 2) |
| 12 | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) |
| 13 | AG1S-1 liter Amber H ₂ SO ₄ (pH < 2) |
| 14 | AG3S-250 mL Amber H ₂ SO ₄ (pH < 2) |
| 15 | AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-) |
| 16 | 3 |
| 17 | 3 |
| 18 | 3 |
| 19 | 3 |
| 20 | 3 |
| 21 | 3 |
| 22 | 3 |
| 23 | 3 |
| 24 | 3 |
| 25 | 3 |
| 26 | 3 |
| 27 | DG9H-40 mL VOA HCl (N/A) |
| 28 | VG9T-40 mL VOA Na 25/203 (N/A) |
| 29 | VG9U-40 mL VOA Unp (N/A) |
| 30 | DG9P-40 mL VOA H ₃ PO ₄ (N/A) |
| 31 | VOAK (6 vials per kit)-5035 kit (N/A) |
| 32 | V/GK (3 vials per kit)-VPH/Gas kit (N/A) |
| 33 | SPST-125 mL Sterile Plastic (N/A - lab) |
| 34 | SP2T-250 mL Sterile Plastic (N/A - lab) |
| 35 | BP3A-250 mL Plastic (NH ₂) ₂ SO ₄ (9.3-9.7) |
| 36 | Cubitainer |
| 37 | VSGU-20 mL Scintillation vials (N/A) |
| 38 | GN |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

10.21



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: Sept. 21, 2016
Page 2 of 2
Issuing Authority:
Pace Quality Office

*Check mark top half of box if pH and/or dechlorination
is verified and within the acceptance range for
preservation samples.

**Bottom half of box is to list number of bottles

Project #

PS²

92324932

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP2U-250 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP3U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP3U-250 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP3Z-250 mL Plastic ZN Acetate & NaOH (>9) | BP3C-250 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unp (N/A) | DG9P-40 mL VOA H3PO4 (N/A) | VOAK (6 vials per kit)-5035 kit (N/A) | SP3T-250 mL Sterile Plastic (N/A - lab) | BP3A-250 mL Plastic (NH4)2SO4 (9.3-9.7) | Cubitainer | VSGU-20 mL Scintillation vials (N/A) | GN |
|-------|---|---------------------------------------|--|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|--|--------------------------|------------------------------|--------------------------|----------------------------|---------------------------------------|---|---|------------|--------------------------------------|----|
| 1 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 3 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 4 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 6 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 7 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 8 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 9 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 11 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 12 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| | | |
|---|---|--|
| Company CH2M | Rapert To Wiley Tom | Attention Harry Aycock |
| Address 6500 Peachtree Dunwoody Rd | Copy To <i>E. G. Wiley, CH2M</i> | Company Name <i>CH2M Hill Inc.</i> |
| 400 Embassy Row Ste 600, Atlanta GA 30328 | | Address <i>1000 Peachtree Street, N.E.</i> |
| Email <i>H.Aycock@ch2m.com</i> | Purchase Order # | Phone <i>(404) 562-5444 ext 5444</i> |
| Phone <i>(404) 562-1771</i> | Project Name Kinder Morgan Lewis Drive | Page Project Manager <i>kevin.gordon@paceglobal.com</i> |
| Requested Due Date | Project # <i>E1_1723</i> | Page Profile # <i>7463-1</i> |

S1

Page : 1 Of 5

e 27 of 28

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| Section A | | Section B | | Section C | |
|---|--|---------------------------------------|--|---|--|
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company CH2M | Address 6600 Peachtree Dunwoody Rd 400 Embassy Row Ste 600 Atlanta, GA 30328 | Raport To Wiley, Tam | Copy To <i>John, Perry, C. H. M., C. G. T.</i> | Attention <i>J. B. C. Y. - Accts</i> | Company Name <i>Piedmont Pipeline</i> |
| Email <i>wiley.tam@ch2m.com</i> | Phone <i>(404) 567-1777</i> | Purchase Order # <i>1234567890</i> | Project Name <i>Kinder Morgan - Lewis Drive</i> | Address <i>1500 W. Piedmont, Atlanta, GA</i> | Regulatory Agency |
| Requested Due Date <i>2014-01-01</i> | Project #: <i>567890</i> | Phone <i>(404) 567-1777</i> | Fax <i>(404) 567-1778</i> | Page Quote <i>Not Available</i> | State / Location <i>SC</i> |
| | | | | Page Profile # <i>74633-1</i> | Comments <i>Request for Analysis Filtered (Y/N)</i> |

| | |
|---------------------------|-------------------|
| SAMPLE NAME AND SIGNATURE | |
| PRINT NAME of SAMPLE: | <i>Terry Ward</i> |
| SIGNATURE of SAMPLE: | <i>Terry Ward</i> |
| DATE Signed: 12-24-06 | |

| |
|--------------------------------------|
| TEMP in C |
| Received on ice (Y/N) |
| Custody Sealed Cooler (Y/N) |
| Samples Intact (Y/N) |

December 02, 2016

Bill Waldron
CH2M HILL
1717 Arch St
Suite 4400
Glenside, PA 19038

RE: Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

Dear Bill Waldron:

Enclosed are the analytical results for sample(s) received by the laboratory on November 30, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Bethany Garvey, CH2M HILL
Scott Powell, CH2M
Tom Wiley, CH2M



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|----------------|----------|----------|-------------------|------------|
| 92321249001 | MW-29-112916 | EPA 8260 | GAW | 12 | PASI-C |
| 92321249002 | MW-21-112916 | EPA 8260 | GAW | 12 | PASI-C |
| 92321249003 | MW-36B-112916 | EPA 8260 | GAW | 12 | PASI-C |
| 92321249004 | MW-36-112916 | EPA 8260 | GAW | 12 | PASI-C |
| 92321249005 | MW-36-D-112916 | EPA 8260 | GAW | 12 | PASI-C |
| 92321249006 | MW-31-112916 | EPA 8260 | GAW | 12 | PASI-C |
| 92321249007 | TB-01-112916 | EPA 8260 | GAW | 12 | PASI-C |
| 92321249008 | FB-01-112916 | EPA 8260 | GAW | 12 | PASI-C |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

| Sample: MW-29-112916 | Lab ID: 92321249001 | Collected: 11/29/16 14:20 | Received: 11/30/16 10:27 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/01/16 19:20 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/01/16 19:20 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/01/16 19:20 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/01/16 19:20 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/01/16 19:20 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/01/16 19:20 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/01/16 19:20 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/01/16 19:20 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/01/16 19:20 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 1 | | 12/01/16 19:20 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 92 | % | 70-130 | 1 | | 12/01/16 19:20 | 17060-07-0 | |
| Toluene-d8 (S) | 109 | % | 70-130 | 1 | | 12/01/16 19:20 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

| Sample: MW-21-112916 | Lab ID: 92321249002 | Collected: 11/29/16 15:25 | Received: 11/30/16 10:27 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/01/16 19:36 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/01/16 19:36 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/01/16 19:36 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/01/16 19:36 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/01/16 19:36 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/01/16 19:36 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/01/16 19:36 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/01/16 19:36 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/01/16 19:36 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 103 | % | 70-130 | 1 | | 12/01/16 19:36 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 96 | % | 70-130 | 1 | | 12/01/16 19:36 | 17060-07-0 | |
| Toluene-d8 (S) | 110 | % | 70-130 | 1 | | 12/01/16 19:36 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

| Sample: MW-36B-112916 | Lab ID: 92321249003 | Collected: 11/29/16 15:15 | Received: 11/30/16 10:27 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/01/16 19:52 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/01/16 19:52 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/01/16 19:52 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/01/16 19:52 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/01/16 19:52 | 91-20-3 | |
| Toluene | 1.6 | ug/L | 1.0 | 1 | | 12/01/16 19:52 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/01/16 19:52 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/01/16 19:52 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/01/16 19:52 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 1 | | 12/01/16 19:52 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 97 | % | 70-130 | 1 | | 12/01/16 19:52 | 17060-07-0 | |
| Toluene-d8 (S) | 111 | % | 70-130 | 1 | | 12/01/16 19:52 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

| Sample: MW-36-112916 | Lab ID: 92321249004 | Collected: 11/29/16 16:00 | Received: 11/30/16 10:27 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | 1.3 | ug/L | 1.0 | 1 | | 12/01/16 20:08 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/01/16 20:08 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/01/16 20:08 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/01/16 20:08 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/01/16 20:08 | 91-20-3 | |
| Toluene | 6.5 | ug/L | 1.0 | 1 | | 12/01/16 20:08 | 108-88-3 | |
| Xylene (Total) | 1.1 | ug/L | 1.0 | 1 | | 12/01/16 20:08 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/01/16 20:08 | 179601-23-1 | |
| o-Xylene | 1.1 | ug/L | 1.0 | 1 | | 12/01/16 20:08 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | 1 | | 12/01/16 20:08 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 70-130 | 1 | | 12/01/16 20:08 | 17060-07-0 | |
| Toluene-d8 (S) | 110 | % | 70-130 | 1 | | 12/01/16 20:08 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

| Sample: MW-36-D-112916 | Lab ID: 92321249005 | Collected: 11/29/16 16:05 | Received: 11/30/16 10:27 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/01/16 20:25 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/01/16 20:25 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/01/16 20:25 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/01/16 20:25 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/01/16 20:25 | 91-20-3 | |
| Toluene | 5.4 | ug/L | 1.0 | 1 | | 12/01/16 20:25 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/01/16 20:25 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/01/16 20:25 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/01/16 20:25 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 101 | % | 70-130 | 1 | | 12/01/16 20:25 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 70-130 | 1 | | 12/01/16 20:25 | 17060-07-0 | |
| Toluene-d8 (S) | 112 | % | 70-130 | 1 | | 12/01/16 20:25 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

| Sample: MW-31-112916 | Lab ID: 92321249006 | Collected: 11/29/16 16:45 | Received: 11/30/16 10:27 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/01/16 20:57 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/01/16 20:57 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/01/16 20:57 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/01/16 20:57 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/01/16 20:57 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/01/16 20:57 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/01/16 20:57 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/01/16 20:57 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/01/16 20:57 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 1 | | 12/01/16 20:57 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 90 | % | 70-130 | 1 | | 12/01/16 20:57 | 17060-07-0 | |
| Toluene-d8 (S) | 114 | % | 70-130 | 1 | | 12/01/16 20:57 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

| Sample: TB-01-112916 | Lab ID: 92321249007 | Collected: 11/29/16 00:00 | Received: 11/30/16 10:27 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/01/16 13:24 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/01/16 13:24 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/01/16 13:24 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/01/16 13:24 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/01/16 13:24 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/01/16 13:24 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/01/16 13:24 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/01/16 13:24 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/01/16 13:24 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 101 | % | 70-130 | 1 | | 12/01/16 13:24 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 93 | % | 70-130 | 1 | | 12/01/16 13:24 | 17060-07-0 | |
| Toluene-d8 (S) | 108 | % | 70-130 | 1 | | 12/01/16 13:24 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

| Sample: FB-01-112916 | Lab ID: 92321249008 | Collected: 11/29/16 17:20 | Received: 11/30/16 10:27 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/01/16 13:40 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/01/16 13:40 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/01/16 13:40 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/01/16 13:40 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/01/16 13:40 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/01/16 13:40 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/01/16 13:40 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/01/16 13:40 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/01/16 13:40 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 101 | % | 70-130 | 1 | | 12/01/16 13:40 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 90 | % | 70-130 | 1 | | 12/01/16 13:40 | 17060-07-0 | |
| Toluene-d8 (S) | 112 | % | 70-130 | 1 | | 12/01/16 13:40 | 2037-26-5 | |

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

QC Batch: 338970 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92321249007, 92321249008

METHOD BLANK: 1879590 Matrix: Water

Associated Lab Samples: 92321249007, 92321249008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 12/01/16 12:19 | |
| Benzene | ug/L | ND | 1.0 | 12/01/16 12:19 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/01/16 12:19 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/01/16 12:19 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 12/01/16 12:19 | |
| Naphthalene | ug/L | ND | 1.0 | 12/01/16 12:19 | |
| o-Xylene | ug/L | ND | 1.0 | 12/01/16 12:19 | |
| Toluene | ug/L | ND | 1.0 | 12/01/16 12:19 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/01/16 12:19 | |
| 1,2-Dichloroethane-d4 (S) | % | 92 | 70-130 | 12/01/16 12:19 | |
| 4-Bromofluorobenzene (S) | % | 104 | 70-130 | 12/01/16 12:19 | |
| Toluene-d8 (S) | % | 113 | 70-130 | 12/01/16 12:19 | |

LABORATORY CONTROL SAMPLE: 1879591

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | 50 | 51.7 | 103 | 70-130 | |
| Benzene | ug/L | 50 | 55.7 | 111 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 52.4 | 105 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 103 | 103 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 46.6 | 93 | 70-130 | |
| Naphthalene | ug/L | 50 | 51.3 | 103 | 70-130 | |
| o-Xylene | ug/L | 50 | 52.4 | 105 | 70-130 | |
| Toluene | ug/L | 50 | 49.5 | 99 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 156 | 104 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 103 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 98 | 70-130 | |
| Toluene-d8 (S) | % | | | 94 | 70-130 | |

MATRIX SPIKE SAMPLE: 1879593

| Parameter | Units | 92321243011 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 20 | 21.3 | 106 | 70-130 | |
| Benzene | ug/L | ND | 20 | 21.8 | 109 | 70-130 | |
| Ethylbenzene | ug/L | ND | 20 | 22.5 | 112 | 70-130 | |
| m&p-Xylene | ug/L | ND | 40 | 44.8 | 112 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 15.9 | 79 | 70-130 | |
| Naphthalene | ug/L | ND | 20 | 18.9 | 95 | 70-130 | |

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

| MATRIX SPIKE SAMPLE: | 1879593 | | | | | | |
|---------------------------|---------|-------------|-------------|-----------|----------|--------------|------------|
| Parameter | Units | 92321243011 | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
| o-Xylene | ug/L | ND | 20 | 21.8 | 109 | 70-130 | |
| Toluene | ug/L | ND | 20 | 22.0 | 110 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 103 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 102 | 70-130 | |
| Toluene-d8 (S) | % | | | | 98 | 70-130 | |

SAMPLE DUPLICATE: 1879592

| Parameter | Units | 92321243010 | Dup Result | RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-----|------------|
| 1,2-Dichloroethane | ug/L | ND | ND | | |
| Benzene | ug/L | ND | ND | | |
| Ethylbenzene | ug/L | ND | ND | | |
| m&p-Xylene | ug/L | ND | ND | | |
| Methyl-tert-butyl ether | ug/L | ND | ND | | |
| Naphthalene | ug/L | ND | ND | | |
| o-Xylene | ug/L | ND | ND | | |
| Toluene | ug/L | ND | ND | | |
| Xylene (Total) | ug/L | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 92 | 95 | 2 | |
| 4-Bromofluorobenzene (S) | % | 102 | 101 | 0 | |
| Toluene-d8 (S) | % | 111 | 112 | 1 | |

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

QC Batch: 339001 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92321249001, 92321249002, 92321249003, 92321249004, 92321249005, 92321249006

METHOD BLANK: 1879782 Matrix: Water

Associated Lab Samples: 92321249001, 92321249002, 92321249003, 92321249004, 92321249005, 92321249006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 12/01/16 12:36 | |
| Benzene | ug/L | ND | 1.0 | 12/01/16 12:36 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/01/16 12:36 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/01/16 12:36 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 12/01/16 12:36 | |
| Naphthalene | ug/L | ND | 1.0 | 12/01/16 12:36 | |
| o-Xylene | ug/L | ND | 1.0 | 12/01/16 12:36 | |
| Toluene | ug/L | ND | 1.0 | 12/01/16 12:36 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/01/16 12:36 | |
| 1,2-Dichloroethane-d4 (S) | % | 93 | 70-130 | 12/01/16 12:36 | |
| 4-Bromofluorobenzene (S) | % | 104 | 70-130 | 12/01/16 12:36 | |
| Toluene-d8 (S) | % | 109 | 70-130 | 12/01/16 12:36 | |

LABORATORY CONTROL SAMPLE: 1879783

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | 50 | 48.8 | 98 | 70-130 | |
| Benzene | ug/L | 50 | 54.6 | 109 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 52.1 | 104 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 101 | 101 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 46.5 | 93 | 70-130 | |
| Naphthalene | ug/L | 50 | 50.8 | 102 | 70-130 | |
| o-Xylene | ug/L | 50 | 51.5 | 103 | 70-130 | |
| Toluene | ug/L | 50 | 49.0 | 98 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 153 | 102 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 100 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 96 | 70-130 | |
| Toluene-d8 (S) | % | | | 95 | 70-130 | |

MATRIX SPIKE SAMPLE: 1879785

| Parameter | Units | 92321249006 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 20 | 23.7 | 119 | 70-130 | |
| Benzene | ug/L | ND | 20 | 24.2 | 121 | 70-130 | |
| Ethylbenzene | ug/L | ND | 20 | 24.5 | 122 | 70-130 | |
| m&p-Xylene | ug/L | ND | 40 | 49.8 | 125 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 18.0 | 90 | 70-130 | |
| Naphthalene | ug/L | ND | 20 | 20.4 | 102 | 70-130 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

MATRIX SPIKE SAMPLE: 1879785

| Parameter | Units | 92321249006 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-----------------------|----------------|--------------|-------------|-----------------|------------|
| o-Xylene | ug/L | ND | 20 | 24.5 | 122 | 70-130 | |
| Toluene | ug/L | ND | 20 | 24.4 | 121 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 104 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 100 | 70-130 | |
| Toluene-d8 (S) | % | | | | 98 | 70-130 | |

SAMPLE DUPLICATE: 1879784

| Parameter | Units | 92321249005 Result | Dup Result | RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|
| 1,2-Dichloroethane | ug/L | ND | ND | | |
| Benzene | ug/L | ND | .88J | | |
| Ethylbenzene | ug/L | ND | .35J | | |
| m&p-Xylene | ug/L | ND | 1.2J | | |
| Methyl-tert-butyl ether | ug/L | ND | ND | | |
| Naphthalene | ug/L | ND | ND | | |
| o-Xylene | ug/L | ND | .77J | | |
| Toluene | ug/L | 5.4 | 5.4 | 0 | |
| Xylene (Total) | ug/L | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 94 | 98 | 4 | |
| 4-Bromofluorobenzene (S) | % | 101 | 100 | 1 | |
| Toluene-d8 (S) | % | 112 | 112 | 0 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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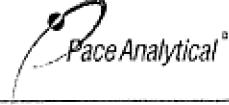
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321249

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------|-----------------|----------|-------------------|------------------|
| 92321249001 | MW-29-112916 | EPA 8260 | 339001 | | |
| 92321249002 | MW-21-112916 | EPA 8260 | 339001 | | |
| 92321249003 | MW-36B-112916 | EPA 8260 | 339001 | | |
| 92321249004 | MW-36-112916 | EPA 8260 | 339001 | | |
| 92321249005 | MW-36-D-112916 | EPA 8260 | 339001 | | |
| 92321249006 | MW-31-112916 | EPA 8260 | 339001 | | |
| 92321249007 | TB-01-112916 | EPA 8260 | 338970 | | |
| 92321249008 | FB-01-112916 | EPA 8260 | 338970 | | |

REPORT OF LABORATORY ANALYSIS

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| | | |
|---|---|---|
|  | Document Name: Sample Condition Upon Receipt(SCUR) | Document Revised: Sept. 21, 2016 Page 1 of 2 |
| | Document No.: F-CAR-CS-033-Rev.01 | Issuing Authority: Pace Quality Office |

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon ReceiptClient Name: *CH2M*

Proj#

WO# : 92321249

92321249

Courier: FedEx UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other: _____

Thermometer: *5*Type of Ice: Wet Blue NoneDate/Initials Person Examining Contents: *OER*
11/30/16

IR Gun ID: *5* Samples on ice, cooling process has begun

Correction Factor: Cooler Temp Corrected (*C): *5.5* Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | | Comments/Discrepancy: |
|---|---|--|------------------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Correct Containers Used? -Pace Containers Used? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Containers Intact? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Samples Field Filtered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A |
| Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: <i>WT</i> | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A |
| Trip Blank Present? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Trip Blank Custody Seals Present? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____

Date/Time: _____

Comments/Sample

Discrepancy: _____

Project Manager SCURF Review: *JH*Date: *11/30/16*Project Manager SRF Review: *2016 11/30*Date: *12/1/16*

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

| | | |
|---|---|---|
|  | Document Name: Sample Condition Upon Receipt(SCUR) | Document Revised: Sept. 21, 2016 Page 2 of 2 |
| | Document No.: F-CAR-CS-033-Rev.01 | Issuing Authority: Pace Quality Office |
| | | |

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

**Bottom half of box is to list number of bottles

Project # **WO# : 92321249**

PM: KRG Due Date: 12/20/16
CLIENT: 92-KinderCH2

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) [Cl-] | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-250 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP3S-250 mL Plastic H2SO4 (pH < 2) [Cl-] | BP3N-250 mL plastic HNO3 (pH < 2) | BP3Z-250 mL Plastic ZN Acetate & NaOH (>9) | BP3C-250 mL Plastic NaOH (pH > 12) [Cl-] | WG FU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) [Cl-] | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) [Cl-] | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | AG3A(DG3A)-250 mL Amber NH4Cl (N/A) [Cl-] | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unp (N/A) | DG9P-40 mL VOA H3PO4 (N/A) | VOAK (6 vials per kit)-5035 Kit (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SPST-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3A-250 mL Plastic (NH4)2SO4 (9.3-9.7) | Cubitainer | VSGU-20 mL Scintillation vials (N/A) | GN |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|--|--|---------------------------------|---|-----------------------------------|----------------------------------|---|--------------------------|------------------------------|--------------------------|----------------------------|---------------------------------------|--|---|---|---|------------|--------------------------------------|----|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | | Page : 1 Of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|---|---------------------------------------|--|-----------------------------|-----------------|-------------|--|--|---|-----------------------------------|---------|---------------------------|-----------------|-----------------------------------|-----|-------------------------|--|---|--|--|--|------|------|------|------|---------------|--|--|--|--|--|--|--|---|--------------|-----|----------|--------------|--|--|---|-------------|-------|------|-----|------|---------|-----------|----------|---------------|-----|-------------------------|---|--------------|-----|----------|------|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|-----|---|----------------|-----|----------|------|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|-----|---|----------------|-----|----------|------|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|-----|---|----------------|-----|----------|------|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|-----|---|--------------|-----|----------|------|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|-----|---|--------------|-----|----------|------|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|-----|---|--------------|-----|----------|------|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|-----|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------------|--|-------------------------------|--|------|------|---------------------------|--|------|------|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------------|--|--|--|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------------------|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|-----------|----------|--|--|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|--|--|----------|--|--|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|----------------|--|--|--|--|--|--|--|--|--|--|--|-------|
| Company: CH2M | Report To: Wiley, Tom | Attention: <i>Sandy Askew</i> | | Project Name: <i>Bethany Cemetery</i> | Address: <i>1000 Windward Concourse St. #450</i> | Regulatory Agency: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: 6600 Peachtree Dunwoody Rd | Copy To: <i>Bethany Cemetery</i> | Company Name: <i>Pace</i> | | Purchase Order #: <i>7463-3</i> | Phone: <i>(404) 364-1249</i> | State / Location: <i>SC</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 Embassy Row Ste 600, Atlanta, GA 30328 | Project Manager: <i>kevin godwin@pacelabs.com</i> | | | Project # <i>(26928.LD.PR.1.A</i> | Requested Due Date: <i>2 weeks</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Email: <i>bawr.vc.4@ch2m.com</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone: <i>404-364-1249</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Requested Due Date: <i>2 weeks</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">ITEM #</th> <th rowspan="2">SAMPLE ID <small>One Character per box. 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| | | | | DATE | TIME | | | DATE | TIME | Preservatives | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | MW-29-112916 | WTG | 11/29/16 | 1420 | | | 3 | Unpreserved | H2SO4 | HNO3 | HCl | NaOH | NH25203 | Methanol | Other | Analyses Test | Y/N | Residual Chlorine (Y/N) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | MW-21-112916 | WTG | 11/29/16 | 1525 | | | | | X | | | | | | | | | | | 001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | MW-36-R-112916 | WTG | 11/29/16 | 1515 | | | | | | X | | | | | | | | | | 002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | MW-36-L-112916 | WTG | 11/29/16 | 1600 | | | | | | | X | | | | | | | | | 003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| PRINT Name of SAMPLER: <i>Justin McLennan</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIGNATURE of SAMPLER: <i>Justin McLennan</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE Signed: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | (ice) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | Outgoing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | Storage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | Coors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | L7R6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | Samples intact | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | (Y/N) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Intra-Regional Chain of Custody

| Workorder: 92321249 | Workorder Name: Kindermorgan-Lewis Dr | Owner Received Date: 11/30/2016 | Due Date: 12/20/2016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------------------|---------------------------------|----------------------|-------------|-----------|------|----------------------|--------|----------------------|----------------------|--|----------|----------|----|----|---|--------------|----|------------------|-------------|-------|---|--|---|---|--------------|----|------------------|-------------|-------|---|--|---|---|--------------|----|------------------|-------------|-------|---|--|---|---|--------------|----|------------------|-------------|-------|---|--|---|---|----------------|----|------------------|-------------|-------|---|--|---|---|--------------|----|------------------|-------------|-------|---|--|---|---|--------------|----|------------------|-------------|-------|---|--|---|---|--------------|----|------------------|-------------|-------|---|--|---|
| <p>Pace Analytical Asheville 2225 Riverside Dr. Asheville, NC 28804 Phone (828)254-7176</p> <p>Pace Analytical Charlotte 9800 Kinney Ave. Suite 100 Huntersville, NC 28078 Phone (704)675-9092</p> <p>Report To: Kevin Godwin</p> <table border="1"> <thead> <tr> <th rowspan="2">Item</th> <th rowspan="2">Sample ID</th> <th rowspan="2">Type</th> <th rowspan="2">Collection Date/Time</th> <th rowspan="2">Lab ID</th> <th colspan="3">Preserved Containers</th> <th rowspan="2">Comments</th> </tr> <tr> <th>HC</th> <th>PC</th> <th>OC</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>MW-29-112916</td> <td>PS</td> <td>11/29/2016 14:20</td> <td>92321249001</td> <td>Water</td> <td>3</td> <td></td> <td>X</td> </tr> <tr> <td>2</td> <td>MW-21-112916</td> <td>PS</td> <td>11/29/2016 15:25</td> <td>92321249002</td> <td>Water</td> <td>3</td> <td></td> <td>X</td> </tr> <tr> <td>3</td> <td>MW-36-112916</td> <td>PS</td> <td>11/29/2016 15:15</td> <td>92321249003</td> <td>Water</td> <td>3</td> <td></td> <td>X</td> </tr> <tr> <td>4</td> <td>MW-36-112916</td> <td>PS</td> <td>11/29/2016 16:00</td> <td>92321249004</td> <td>Water</td> <td>3</td> <td></td> <td>X</td> </tr> <tr> <td>5</td> <td>MW-36-D-112916</td> <td>PS</td> <td>11/29/2016 16:05</td> <td>92321249005</td> <td>Water</td> <td>3</td> <td></td> <td>X</td> </tr> <tr> <td>6</td> <td>MW-31-112916</td> <td>PS</td> <td>11/29/2016 16:45</td> <td>92321249006</td> <td>Water</td> <td>3</td> <td></td> <td>X</td> </tr> <tr> <td>7</td> <td>TB-01-112916</td> <td>PS</td> <td>11/29/2016 00:00</td> <td>92321249007</td> <td>Water</td> <td>2</td> <td></td> <td>X</td> </tr> <tr> <td>8</td> <td>TB-01-112916</td> <td>PS</td> <td>11/29/2016 09:00</td> <td>92321249008</td> <td>Water</td> <td>3</td> <td></td> <td>X</td> </tr> </tbody> </table> <p>LAB USE ONLY</p> <p>Transfers Released By Date/Time Received By Date/Time</p> <p>1 <i>[Signature]</i> 11/30/2016 09:00 <i>[Signature]</i> 11/30/2016 09:00 <i>[Signature]</i></p> <p>2 <i>[Signature]</i> 11/30/2016 09:00 <i>[Signature]</i> 11/30/2016 09:00 <i>[Signature]</i></p> <p>3 <i>[Signature]</i> 11/30/2016 09:00 <i>[Signature]</i> 11/30/2016 09:00 <i>[Signature]</i></p> <p>4 <i>[Signature]</i> 11/30/2016 09:00 <i>[Signature]</i> 11/30/2016 09:00 <i>[Signature]</i></p> <p>Cooler Temperature on Receipt *C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N</p> | | | | Item | Sample ID | Type | Collection Date/Time | Lab ID | Preserved Containers | | | Comments | HC | PC | OC | 1 | MW-29-112916 | PS | 11/29/2016 14:20 | 92321249001 | Water | 3 | | X | 2 | MW-21-112916 | PS | 11/29/2016 15:25 | 92321249002 | Water | 3 | | X | 3 | MW-36-112916 | PS | 11/29/2016 15:15 | 92321249003 | Water | 3 | | X | 4 | MW-36-112916 | PS | 11/29/2016 16:00 | 92321249004 | Water | 3 | | X | 5 | MW-36-D-112916 | PS | 11/29/2016 16:05 | 92321249005 | Water | 3 | | X | 6 | MW-31-112916 | PS | 11/29/2016 16:45 | 92321249006 | Water | 3 | | X | 7 | TB-01-112916 | PS | 11/29/2016 00:00 | 92321249007 | Water | 2 | | X | 8 | TB-01-112916 | PS | 11/29/2016 09:00 | 92321249008 | Water | 3 | | X |
| Item | Sample ID | Type | Collection Date/Time | | | | | | Lab ID | Preserved Containers | | | Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | HC | PC | OC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | MW-29-112916 | PS | 11/29/2016 14:20 | 92321249001 | Water | 3 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | MW-21-112916 | PS | 11/29/2016 15:25 | 92321249002 | Water | 3 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | MW-36-112916 | PS | 11/29/2016 15:15 | 92321249003 | Water | 3 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | MW-36-112916 | PS | 11/29/2016 16:00 | 92321249004 | Water | 3 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | MW-36-D-112916 | PS | 11/29/2016 16:05 | 92321249005 | Water | 3 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | MW-31-112916 | PS | 11/29/2016 16:45 | 92321249006 | Water | 3 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | TB-01-112916 | PS | 11/29/2016 00:00 | 92321249007 | Water | 2 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | TB-01-112916 | PS | 11/29/2016 09:00 | 92321249008 | Water | 3 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

December 07, 2016

Bill Waldron
CH2M HILL
1717 Arch St
Suite 4400
Glenside, PA 19038

RE: Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

Dear Bill Waldron:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Bethany Garvey, CH2M HILL
Scott Powell, CH2M
Tom Wiley, CH2M



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|---------------|----------|----------|-------------------|------------|
| 92321540001 | FB-01-113016 | EPA 8260 | GAW | 12 | PASI-C |
| 92321540002 | MW-13B-113016 | EPA 8260 | GAW | 12 | PASI-C |
| 92321540003 | MW-15B-113016 | EPA 8260 | GAW | 12 | PASI-C |
| 92321540004 | MW-14B-113016 | EPA 8260 | GAW | 12 | PASI-C |
| 92321540006 | MW-14-113016 | EPA 8260 | GAW | 12 | PASI-C |
| 92321540007 | MW-38-113016 | EPA 8260 | GAW | 12 | PASI-C |
| 92321540008 | MW-37-113016 | EPA 8260 | GAW | 12 | PASI-C |
| 92321540009 | MW-12B-113016 | EPA 8260 | GAW | 12 | PASI-C |
| 92321540010 | TB-01-113016 | EPA 8260 | GAW | 12 | PASI-C |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

| Sample: FB-01-113016 | Lab ID: 92321540001 | Collected: 11/30/16 08:50 | Received: 12/01/16 10:30 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/02/16 12:23 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/02/16 12:23 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/02/16 12:23 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/02/16 12:23 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/02/16 12:23 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/02/16 12:23 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/02/16 12:23 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/02/16 12:23 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/02/16 12:23 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 101 | % | 70-130 | 1 | | 12/02/16 12:23 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 93 | % | 70-130 | 1 | | 12/02/16 12:23 | 17060-07-0 | |
| Toluene-d8 (S) | 107 | % | 70-130 | 1 | | 12/02/16 12:23 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

| Sample: MW-13B-113016 | Lab ID: 92321540002 | Collected: 11/30/16 10:10 | Received: 12/01/16 10:30 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | 550 | ug/L | 5.0 | 5 | | 12/06/16 23:32 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | 5 | | 12/06/16 23:32 | 107-06-2 | |
| Ethylbenzene | 5.1 | ug/L | 5.0 | 5 | | 12/06/16 23:32 | 100-41-4 | |
| Methyl-tert-butyl ether | 158 | ug/L | 5.0 | 5 | | 12/06/16 23:32 | 1634-04-4 | |
| Naphthalene | 7.9 | ug/L | 5.0 | 5 | | 12/06/16 23:32 | 91-20-3 | |
| Toluene | 21.2 | ug/L | 5.0 | 5 | | 12/06/16 23:32 | 108-88-3 | |
| Xylene (Total) | 140 | ug/L | 5.0 | 5 | | 12/06/16 23:32 | 1330-20-7 | |
| m&p-Xylene | 47.3 | ug/L | 10.0 | 5 | | 12/06/16 23:32 | 179601-23-1 | |
| o-Xylene | 92.8 | ug/L | 5.0 | 5 | | 12/06/16 23:32 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | 5 | | 12/06/16 23:32 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 88 | % | 70-130 | 5 | | 12/06/16 23:32 | 17060-07-0 | |
| Toluene-d8 (S) | 97 | % | 70-130 | 5 | | 12/06/16 23:32 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

| Sample: MW-15B-113016 | Lab ID: 92321540003 | Collected: 11/30/16 10:20 | Received: 12/01/16 10:30 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | 337 | ug/L | 5.0 | 5 | | 12/06/16 23:49 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | 5 | | 12/06/16 23:49 | 107-06-2 | |
| Ethylbenzene | 34.0 | ug/L | 5.0 | 5 | | 12/06/16 23:49 | 100-41-4 | |
| Methyl-tert-butyl ether | 26.7 | ug/L | 5.0 | 5 | | 12/06/16 23:49 | 1634-04-4 | |
| Naphthalene | 5.0 | ug/L | 5.0 | 5 | | 12/06/16 23:49 | 91-20-3 | |
| Toluene | 565 | ug/L | 5.0 | 5 | | 12/06/16 23:49 | 108-88-3 | |
| Xylene (Total) | 194 | ug/L | 5.0 | 5 | | 12/06/16 23:49 | 1330-20-7 | |
| m&p-Xylene | 124 | ug/L | 10.0 | 5 | | 12/06/16 23:49 | 179601-23-1 | |
| o-Xylene | 70.4 | ug/L | 5.0 | 5 | | 12/06/16 23:49 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 5 | | 12/06/16 23:49 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 96 | % | 70-130 | 5 | | 12/06/16 23:49 | 17060-07-0 | |
| Toluene-d8 (S) | 96 | % | 70-130 | 5 | | 12/06/16 23:49 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

| Sample: MW-14B-113016 | Lab ID: 92321540004 | Collected: 11/30/16 11:25 | Received: 12/01/16 10:30 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | 10.5 | ug/L | 1.0 | 1 | | 12/02/16 15:21 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/02/16 15:21 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/02/16 15:21 | 100-41-4 | |
| Methyl-tert-butyl ether | 19.7 | ug/L | 1.0 | 1 | | 12/02/16 15:21 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/02/16 15:21 | 91-20-3 | |
| Toluene | 1.1 | ug/L | 1.0 | 1 | | 12/02/16 15:21 | 108-88-3 | |
| Xylene (Total) | 5.5 | ug/L | 1.0 | 1 | | 12/02/16 15:21 | 1330-20-7 | |
| m&p-Xylene | 2.9 | ug/L | 2.0 | 1 | | 12/02/16 15:21 | 179601-23-1 | |
| o-Xylene | 2.6 | ug/L | 1.0 | 1 | | 12/02/16 15:21 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 104 | % | 70-130 | 1 | | 12/02/16 15:21 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 101 | % | 70-130 | 1 | | 12/02/16 15:21 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 70-130 | 1 | | 12/02/16 15:21 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

| Sample: MW-14-113016 | Lab ID: 92321540006 | Collected: 11/30/16 12:25 | Received: 12/01/16 10:30 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------|----------------|-------------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | | 12/05/16 23:10 | 71-43-2 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | | 12/05/16 23:10 | 107-06-2 |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | | 12/05/16 23:10 | 100-41-4 |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | | 12/05/16 23:10 | 1634-04-4 |
| Naphthalene | ND | ug/L | 1.0 | 1 | | | 12/05/16 23:10 | 91-20-3 |
| Toluene | ND | ug/L | 1.0 | 1 | | | 12/05/16 23:10 | 108-88-3 |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | | 12/05/16 23:10 | 1330-20-7 |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | | 12/05/16 23:10 | 179601-23-1 |
| o-Xylene | ND | ug/L | 1.0 | 1 | | | 12/05/16 23:10 | 95-47-6 |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 1 | | | 12/05/16 23:10 | 460-00-4 |
| 1,2-Dichloroethane-d4 (S) | 92 | % | 70-130 | 1 | | | 12/05/16 23:10 | 17060-07-0 |
| Toluene-d8 (S) | 96 | % | 70-130 | 1 | | | 12/05/16 23:10 | 2037-26-5 |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

| Sample: MW-38-113016 | Lab ID: 92321540007 | Collected: 11/30/16 14:50 | Received: 12/01/16 10:30 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/02/16 15:37 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/02/16 15:37 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/02/16 15:37 | 100-41-4 | |
| Methyl-tert-butyl ether | 5.5 | ug/L | 1.0 | 1 | | 12/02/16 15:37 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/02/16 15:37 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/02/16 15:37 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/02/16 15:37 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/02/16 15:37 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/02/16 15:37 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 70-130 | 1 | | 12/02/16 15:37 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 95 | % | 70-130 | 1 | | 12/02/16 15:37 | 17060-07-0 | |
| Toluene-d8 (S) | 108 | % | 70-130 | 1 | | 12/02/16 15:37 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

| Sample: MW-37-113016 | Lab ID: 92321540008 | Collected: 11/30/16 15:40 | Received: 12/01/16 10:30 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/02/16 15:53 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/02/16 15:53 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/02/16 15:53 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/02/16 15:53 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/02/16 15:53 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/02/16 15:53 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/02/16 15:53 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/02/16 15:53 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/02/16 15:53 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 101 | % | 70-130 | 1 | | 12/02/16 15:53 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 95 | % | 70-130 | 1 | | 12/02/16 15:53 | 17060-07-0 | |
| Toluene-d8 (S) | 109 | % | 70-130 | 1 | | 12/02/16 15:53 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

| Sample: MW-12B-113016 | Lab ID: 92321540009 | Collected: 11/30/16 15:35 | Received: 12/01/16 10:30 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/05/16 19:21 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/05/16 19:21 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/05/16 19:21 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/05/16 19:21 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/05/16 19:21 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/05/16 19:21 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/05/16 19:21 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/05/16 19:21 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/05/16 19:21 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 101 | % | 70-130 | 1 | | 12/05/16 19:21 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 102 | % | 70-130 | 1 | | 12/05/16 19:21 | 17060-07-0 | |
| Toluene-d8 (S) | 112 | % | 70-130 | 1 | | 12/05/16 19:21 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

| Sample: TB-01-113016 | Lab ID: 92321540010 | Collected: 11/30/16 16:20 | Received: 12/01/16 10:30 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/02/16 12:39 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/02/16 12:39 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/02/16 12:39 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/02/16 12:39 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/02/16 12:39 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/02/16 12:39 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/02/16 12:39 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/02/16 12:39 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/02/16 12:39 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 1 | | 12/02/16 12:39 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 70-130 | 1 | | 12/02/16 12:39 | 17060-07-0 | |
| Toluene-d8 (S) | 108 | % | 70-130 | 1 | | 12/02/16 12:39 | 2037-26-5 | |

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

QC Batch: 339139 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92321540001, 92321540004, 92321540007, 92321540008, 92321540010

METHOD BLANK: 1880503 Matrix: Water

Associated Lab Samples: 92321540001, 92321540004, 92321540007, 92321540008, 92321540010

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 12/02/16 11:02 | |
| Benzene | ug/L | ND | 1.0 | 12/02/16 11:02 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/02/16 11:02 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/02/16 11:02 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 12/02/16 11:02 | |
| Naphthalene | ug/L | ND | 1.0 | 12/02/16 11:02 | |
| o-Xylene | ug/L | ND | 1.0 | 12/02/16 11:02 | |
| Toluene | ug/L | ND | 1.0 | 12/02/16 11:02 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/02/16 11:02 | |
| 1,2-Dichloroethane-d4 (S) | % | 95 | 70-130 | 12/02/16 11:02 | |
| 4-Bromofluorobenzene (S) | % | 102 | 70-130 | 12/02/16 11:02 | |
| Toluene-d8 (S) | % | 109 | 70-130 | 12/02/16 11:02 | |

LABORATORY CONTROL SAMPLE: 1880504

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | 50 | 51.7 | 103 | 70-130 | |
| Benzene | ug/L | 50 | 56.0 | 112 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 52.1 | 104 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 105 | 105 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 48.2 | 96 | 70-130 | |
| Naphthalene | ug/L | 50 | 49.7 | 99 | 70-130 | |
| o-Xylene | ug/L | 50 | 52.9 | 106 | 70-130 | |
| Toluene | ug/L | 50 | 49.9 | 100 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 158 | 105 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 110 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 99 | 70-130 | |
| Toluene-d8 (S) | % | | | 93 | 70-130 | |

MATRIX SPIKE SAMPLE: 1881871

| Parameter | Units | 92321540008 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 20 | 23.1 | 116 | 70-130 | |
| Benzene | ug/L | ND | 20 | 22.5 | 113 | 70-130 | |
| Ethylbenzene | ug/L | ND | 20 | 22.9 | 115 | 70-130 | |
| m&p-Xylene | ug/L | ND | 40 | 45.4 | 113 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 18.0 | 90 | 70-130 | |
| Naphthalene | ug/L | ND | 20 | 19.4 | 97 | 70-130 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr
 Pace Project No.: 92321540

MATRIX SPIKE SAMPLE: 1881871

| Parameter | Units | 92321540008 Result | Spike | MS | MS | % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-----------------------|-------|--------|-------|--------|-----------------|------------|
| | | | Conc. | Result | % Rec | | | |
| o-Xylene | ug/L | ND | 20 | 22.6 | 113 | 70-130 | | |
| Toluene | ug/L | ND | 20 | 22.4 | 111 | 70-130 | | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 108 | 70-130 | | |
| 4-Bromofluorobenzene (S) | % | | | | 101 | 70-130 | | |
| Toluene-d8 (S) | % | | | | 98 | 70-130 | | |

SAMPLE DUPLICATE: 1881870

| Parameter | Units | 92321540007 Result | Dup | RPD | Qualifiers |
|---------------------------|-------|-----------------------|--------|-----|------------|
| | | | Result | | |
| 1,2-Dichloroethane | ug/L | ND | ND | | |
| Benzene | ug/L | ND | ND | | |
| Ethylbenzene | ug/L | ND | ND | | |
| m&p-Xylene | ug/L | ND | ND | | |
| Methyl-tert-butyl ether | ug/L | 5.5 | 5.6 | 1 | |
| Naphthalene | ug/L | ND | ND | | |
| o-Xylene | ug/L | ND | ND | | |
| Toluene | ug/L | ND | ND | | |
| Xylene (Total) | ug/L | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 95 | 101 | 6 | |
| 4-Bromofluorobenzene (S) | % | 100 | 101 | 1 | |
| Toluene-d8 (S) | % | 108 | 109 | 1 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

QC Batch: 339353 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92321540009

METHOD BLANK: 1881853 Matrix: Water

Associated Lab Samples: 92321540009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 12/05/16 12:21 | |
| Benzene | ug/L | ND | 1.0 | 12/05/16 12:21 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/05/16 12:21 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/05/16 12:21 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 12/05/16 12:21 | |
| Naphthalene | ug/L | ND | 1.0 | 12/05/16 12:21 | |
| o-Xylene | ug/L | ND | 1.0 | 12/05/16 12:21 | |
| Toluene | ug/L | ND | 1.0 | 12/05/16 12:21 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/05/16 12:21 | |
| 1,2-Dichloroethane-d4 (S) | % | 97 | 70-130 | 12/05/16 12:21 | |
| 4-Bromofluorobenzene (S) | % | 104 | 70-130 | 12/05/16 12:21 | |
| Toluene-d8 (S) | % | 114 | 70-130 | 12/05/16 12:21 | |

LABORATORY CONTROL SAMPLE: 1881854

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | 50 | 52.2 | 104 | 70-130 | |
| Benzene | ug/L | 50 | 53.7 | 107 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 51.2 | 102 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 101 | 101 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 46.2 | 92 | 70-130 | |
| Naphthalene | ug/L | 50 | 49.3 | 99 | 70-130 | |
| o-Xylene | ug/L | 50 | 50.2 | 100 | 70-130 | |
| Toluene | ug/L | 50 | 48.3 | 97 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 151 | 101 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 102 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 99 | 70-130 | |
| Toluene-d8 (S) | % | | | 94 | 70-130 | |

MATRIX SPIKE SAMPLE: 1881856

| Parameter | Units | 92321587009 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 20 | 22.9 | 115 | 70-130 | |
| Benzene | ug/L | ND | 20 | 24.0 | 120 | 70-130 | |
| Ethylbenzene | ug/L | ND | 20 | 23.4 | 117 | 70-130 | |
| m&p-Xylene | ug/L | ND | 40 | 46.2 | 116 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 19.4 | 97 | 70-130 | |
| Naphthalene | ug/L | ND | 20 | 20.7 | 104 | 70-130 | |

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

| MATRIX SPIKE SAMPLE: | | 1881856 | 92321587009 | | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|---------|-------------|----|-------------|-----------|----------|--------------|------------|
| Parameter | Units | | Result | | | | | | |
| o-Xylene | ug/L | | ND | 20 | | 23.5 | 117 | 70-130 | |
| Toluene | ug/L | | ND | 20 | | 23.0 | 115 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 105 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 100 | 70-130 | |
| Toluene-d8 (S) | % | | | | | | 98 | 70-130 | |

SAMPLE DUPLICATE: 1881855

| Parameter | Units | 92321587008 | Dup Result | RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-----|------------|
| | | Result | | | |
| 1,2-Dichloroethane | ug/L | ND | ND | | |
| Benzene | ug/L | ND | ND | | |
| Ethylbenzene | ug/L | ND | ND | | |
| m&p-Xylene | ug/L | ND | ND | | |
| Methyl-tert-butyl ether | ug/L | ND | ND | | |
| Naphthalene | ug/L | 0.52J | ND | | |
| o-Xylene | ug/L | ND | ND | | |
| Toluene | ug/L | ND | ND | | |
| Xylene (Total) | ug/L | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 105 | 95 | 10 | |
| 4-Bromofluorobenzene (S) | % | 102 | 100 | 1 | |
| Toluene-d8 (S) | % | 114 | 107 | 6 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

QC Batch: 339399 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92321540006

METHOD BLANK: 1882244 Matrix: Water

Associated Lab Samples: 92321540006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 12/05/16 16:39 | |
| Benzene | ug/L | ND | 1.0 | 12/05/16 16:39 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/05/16 16:39 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/05/16 16:39 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 12/05/16 16:39 | |
| Naphthalene | ug/L | ND | 1.0 | 12/05/16 16:39 | |
| o-Xylene | ug/L | ND | 1.0 | 12/05/16 16:39 | |
| Toluene | ug/L | ND | 1.0 | 12/05/16 16:39 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/05/16 16:39 | |
| 1,2-Dichloroethane-d4 (S) | % | 96 | 70-130 | 12/05/16 16:39 | |
| 4-Bromofluorobenzene (S) | % | 97 | 70-130 | 12/05/16 16:39 | |
| Toluene-d8 (S) | % | 99 | 70-130 | 12/05/16 16:39 | |

LABORATORY CONTROL SAMPLE: 1882245

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | 50 | 46.5 | 93 | 70-130 | |
| Benzene | ug/L | 50 | 52.0 | 104 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 53.2 | 106 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 107 | 107 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 49.1 | 98 | 70-130 | |
| Naphthalene | ug/L | 50 | 49.5 | 99 | 70-130 | |
| o-Xylene | ug/L | 50 | 52.6 | 105 | 70-130 | |
| Toluene | ug/L | 50 | 50.4 | 101 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 160 | 106 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 96 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 101 | 70-130 | |
| Toluene-d8 (S) | % | | | 95 | 70-130 | |

MATRIX SPIKE SAMPLE: 1882707

| Parameter | Units | 92321624016 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 20 | 18.5 | 92 | 70-130 | |
| Benzene | ug/L | ND | 20 | 22.0 | 110 | 70-130 | |
| Ethylbenzene | ug/L | ND | 20 | 21.8 | 109 | 70-130 | |
| m&p-Xylene | ug/L | ND | 40 | 43.4 | 108 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 20.0 | 100 | 70-130 | |
| Naphthalene | ug/L | ND | 20 | 20.4 | 102 | 70-130 | |

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

MATRIX SPIKE SAMPLE: 1882707

| Parameter | Units | 92321624016 Result | Spike | MS | MS | % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-----------------------|-------|--------|-------|--------|-----------------|------------|
| | | | Conc. | Result | % Rec | | | |
| o-Xylene | ug/L | ND | 20 | 21.3 | 107 | 70-130 | | |
| Toluene | ug/L | ND | 20 | 21.5 | 107 | 70-130 | | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 91 | 70-130 | | |
| 4-Bromofluorobenzene (S) | % | | | | 100 | 70-130 | | |
| Toluene-d8 (S) | % | | | | 98 | 70-130 | | |

SAMPLE DUPLICATE: 1882706

| Parameter | Units | 92321624015 Result | Dup | RPD | Qualifiers |
|---------------------------|-------|-----------------------|--------|-----|------------|
| | | | Result | | |
| 1,2-Dichloroethane | ug/L | ND | ND | | |
| Benzene | ug/L | ND | ND | | |
| Ethylbenzene | ug/L | ND | ND | | |
| m&p-Xylene | ug/L | ND | ND | | |
| Methyl-tert-butyl ether | ug/L | ND | ND | | |
| Naphthalene | ug/L | ND | ND | | |
| o-Xylene | ug/L | ND | ND | | |
| Toluene | ug/L | ND | ND | | |
| Xylene (Total) | ug/L | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 87 | 90 | 3 | |
| 4-Bromofluorobenzene (S) | % | 97 | 96 | 1 | |
| Toluene-d8 (S) | % | 98 | 97 | 1 | |

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr

Pace Project No.: 92321540

| | | | |
|-------------------------|--------------------------|-----------------------|-----------------------|
| QC Batch: | 339621 | Analysis Method: | EPA 8260 |
| QC Batch Method: | EPA 8260 | Analysis Description: | 8260 MSV Low Level SC |
| Associated Lab Samples: | 92321540002, 92321540003 | | |

METHOD BLANK: 1883716 Matrix: Water

Associated Lab Samples: 92321540002, 92321540003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| Benzene | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/06/16 22:24 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| Naphthalene | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| o-Xylene | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| Toluene | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| 1,2-Dichloroethane-d4 (S) | % | 89 | 70-130 | 12/06/16 22:24 | |
| 4-Bromofluorobenzene (S) | % | 96 | 70-130 | 12/06/16 22:24 | |
| Toluene-d8 (S) | % | 98 | 70-130 | 12/06/16 22:24 | |

LABORATORY CONTROL SAMPLE: 1883717

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | 50 | 46.3 | 93 | 70-130 | |
| Benzene | ug/L | 50 | 53.9 | 108 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 53.1 | 106 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 105 | 105 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 50.6 | 101 | 70-130 | |
| Naphthalene | ug/L | 50 | 52.5 | 105 | 70-130 | |
| o-Xylene | ug/L | 50 | 52.2 | 104 | 70-130 | |
| Toluene | ug/L | 50 | 52.2 | 104 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 158 | 105 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 94 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 100 | 70-130 | |
| Toluene-d8 (S) | % | | | 98 | 70-130 | |

MATRIX SPIKE SAMPLE: 1883719

| Parameter | Units | 92321791039 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 20 | 18.5 | 92 | 70-130 | |
| Benzene | ug/L | ND | 20 | 22.4 | 110 | 70-130 | |
| Ethylbenzene | ug/L | 37.0 | 20 | 54.3 | 87 | 70-130 | |
| m&p-Xylene | ug/L | 121 | 40 | 153 | 81 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 20.8 | 104 | 70-130 | |
| Naphthalene | ug/L | 28.2 | 20 | 45.6 | 87 | 70-130 | |

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

| MATRIX SPIKE SAMPLE: | | 1883719 | 92321791039 | | Spike | MS | MS | % Rec | |
|---------------------------|-------|---------|-------------|--------|--------|--------|--------|------------|--|
| Parameter | Units | Result | Conc. | Result | Result | % Rec | Limits | Qualifiers | |
| o-Xylene | ug/L | 61.1 | 20 | 76.5 | 77 | 70-130 | | | |
| Toluene | ug/L | 3.8 | 20 | 24.6 | 104 | 70-130 | | | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 90 | 70-130 | | | |
| 4-Bromofluorobenzene (S) | % | | | | 100 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | 97 | 70-130 | | | |

SAMPLE DUPLICATE: 1883718

| | | 92321793001 | Dup | | |
|---------------------------|-------|-------------|--------|-----|------------|
| Parameter | Units | Result | Result | RPD | Qualifiers |
| 1,2-Dichloroethane | ug/L | ND | ND | | |
| Benzene | ug/L | ND | ND | | |
| Ethylbenzene | ug/L | ND | ND | | |
| m&p-Xylene | ug/L | ND | ND | | |
| Methyl-tert-butyl ether | ug/L | ND | ND | | |
| Naphthalene | ug/L | ND | ND | | |
| o-Xylene | ug/L | ND | ND | | |
| Toluene | ug/L | ND | ND | | |
| Xylene (Total) | ug/L | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 89 | 89 | 0 | |
| 4-Bromofluorobenzene (S) | % | 98 | 96 | 2 | |
| Toluene-d8 (S) | % | 99 | 99 | 1 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Kindermorgan-Lewis Dr
Pace Project No.: 92321540

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|-----------------|----------|-------------------|------------------|
| 92321540001 | FB-01-113016 | EPA 8260 | 339139 | | |
| 92321540002 | MW-13B-113016 | EPA 8260 | 339621 | | |
| 92321540003 | MW-15B-113016 | EPA 8260 | 339621 | | |
| 92321540004 | MW-14B-113016 | EPA 8260 | 339139 | | |
| 92321540006 | MW-14-113016 | EPA 8260 | 339399 | | |
| 92321540007 | MW-38-113016 | EPA 8260 | 339139 | | |
| 92321540008 | MW-37-113016 | EPA 8260 | 339139 | | |
| 92321540009 | MW-12B-113016 | EPA 8260 | 339353 | | |
| 92321540010 | TB-01-113016 | EPA 8260 | 339139 | | |

REPORT OF LABORATORY ANALYSIS

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| | | |
|---|---|--|
|  | Document Name: Sample Condition Upon Receipt(SCUR) Document No.: F-CAR-CS-033-Rev.01 | Document Revised: Sept. 21, 2016 Page 1 of 2 Issuing Authority: Pace Quality Office |
|---|---|--|

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville **Sample Condition Upon Receipt**Client Name: *CHAM*

Project

WO# : 92321540

92321540

Courier:

 Commercial FedEx UPS USPS Client Pace Other:

Custody Seal Present?

 Yes No

Seals Intact?

 Yes NoDate/Initials Person Examining Contents: *PLT 12/1/16*

Packing Material:

 Bubble Wrap Bubble Bags None Other:

Thermometer:

5

Type of Ice:

 Wet Blue None Samples on ice, cooling process has begunCorrection Factor: *0*Cooler Temp Corrected (*C): *5.4*Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

 Yes NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | | Comments/Discrepancy: |
|---|---|--|------------------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Samples Arrived within Hold Time? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Pace Containers Used? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Containers Intact? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Samples Field Filtered? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| -Includes Date/Time/ID/Analysis Matrix: <i>U1</i> | | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A |
| Trip Blank Present? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Trip Blank Custody Seals Present? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted:

*Bethany Survey*Date/Time: *12/1/16*

Comments/Sample Discrepancy:

client instructed to cancel MW-15 RG.

Project Manager SCURF Review:

Date: *12/1/16*

Project Manager SRF Review:

Date: *12/1/16*

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)



Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.01

Document Revised: Sept. 21, 2016
Page 2 of 2
Issuing Authority:
Pace Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

**Bottom half of box is to list number of bottles

Project

WO# : 92321540

PM: KRG

Due Date: 12/08/16

CLIENT: 92-KinderCH2

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|---|--------------------------|------------------------------|--------------------------|----------------------------|---------------------------------------|--|---|---|------------|--------------------------------------|----|
| Item # | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP3S-250 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP3Z-250 mL Plastic Zn Acetate & NaOH (>9) | BP3C-250 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG3S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | AG3A DG3A}-250 mL Amber NH4Cl (N/m) (Cl-) | DG3H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VGBU-40 mL VOA UNP (N/A) | DG9P-40 mL VOA H3PO4 (N/A) | VOAK (6 vials per kit)-5035 kit (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SPST-125 mL Sterile Plastic (N/A – lab) | SP2T-250 mL Sterile Plastic (N/A)2504 (9.3-9.7) | Cubitainer | VSGU-20 mL Scintillation vials (N/A) | GN |
| 1 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 3 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 4 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 6 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 7 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 8 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 9 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 11 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 12 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | | Page : 1 Of 1 | | | | | | | |
|---|-----------|--|---|---|-----------|--|---------------------------|-----------------------------------|-------|-------------------|---|---|---|
| Company: CH2M Address: 6600 Peachtree Dunwoody Rd 400 Embassy Row Site B30, Atlanta, GA 30328 Email: bcarver@ch2m.com Phone: 404-520-4780 Requested Due Date: 11/30/16 | | Report To: Wiley, Tom Copy To: <i>Bethany Garvey</i> , <i>Bill Waldron</i> Purchase Order #: Project Name: Kindermorgan-Lewis Dr Project #: L61922P.iD.52.LA | | Attention: <i>Kevin Godwin</i> Company Name: Plantation Pipe Line Address: 1000 W Industrial (offhouse st) 100 Pace Quota: Pace Project Manager: kevin.godwin@pacelabs.com Pace Profile #: 7463-3 | | Regulatory Agency: State / Location: SC | | | | | | | |
| SAMPLE ID One Character per box. (A-Z, 0-9, -, .) Sample IDs must be unique | | | | | | | | | | | | | |
| ITEM # | SAMPLE ID | CODE Drinking Water Water Water/Water Product Soil/Sand Dust Waste Air Other Fissile | MATRIX CODE: <i>WT</i> (Water and Contaminants) | SAMPLE TYPE: <i>Groundwater/C/C/Surface</i> | COLLECTED | | SAMPLE TEMP AT COLLECTION | Requested Analysis Filtered (Y/N) | | | | | |
| | | | | | START | END | | # OF CONTAINERS | | | | | |
| DATE | TIME | DATE | TIME | # OF CONTAINERS | | | Analyses Test | Y/N | | | | | |
| 1 | 10/10/16 | 10/26 | 11/25 | 11/55 | | | To BLANK | X | | | | | |
| 2 | 10/10/16 | 10/26 | 11/25 | 11/55 | | | 6260 (BTEXMN+12OCDA) | X | | | | | |
| 3 | 10/10/16 | 10/26 | 11/25 | 11/55 | | | Nitrate | - | | | | | |
| 4 | 10/10/16 | 10/26 | 11/25 | 11/55 | | | Alkalinity/Sulfate | - | | | | | |
| 5 | 10/10/16 | 10/26 | 11/25 | 11/55 | | | Carbon Dioxide/AM2OCAX | - | | | | | |
| 6 | 10/10/16 | 10/26 | 11/25 | 11/55 | | | Methane by RSK-T5 | - | | | | | |
| 7 | 10/10/16 | 10/26 | 11/25 | 11/55 | | | DI Water | - | | | | | |
| 8 | 10/10/16 | 10/26 | 11/25 | 11/55 | | | Residual Chlorine w/V/H | 9232 1540 | | | | | |
| 9 | 10/10/16 | 10/26 | 11/25 | 11/55 | | | 001 | 001 | | | | | |
| 10 | 10/10/16 | 10/26 | 11/25 | 11/55 | | | 002 | 002 | | | | | |
| 11 | 10/10/16 | 10/26 | 11/25 | 11/55 | | | 003 | 003 | | | | | |
| 12 | 10/10/16 | 10/26 | 11/25 | 11/55 | | | 004 | 004 | | | | | |
| ADDITIONAL COMMENTS | | RELINQUISHED BY / AFFILIATION | | DATE | TIME | ACCEPTED BY / AFFILIATION | | DATE | TIME | SAMPLE CONDITIONS | | | |
| <i>Justine McConnell, CH2M 11/20/16</i> | | <i>Receiv</i> | | 12/1/16 | 10:30 | <i>Receiv</i> | | 12/1/16 | 10:30 | 5.8 | Y | Y | Y |
| SAMPLE NAME AND SIGNATURE PRINT Name of SAMPLER: <i>Justine McConnell</i> SIGNATURE of SAMPLER: <i>Justine McConnell</i> DATE Signed: <i>11/30/16</i> | | | | | | | | | | | | | |
| TEMP in C Received on (Y/N) Custody Sealed Caged (Y/N) Samples intact (Y/N) | | | | | | | | | | | | | |

December 13, 2016

Bill Waldron
CH2M HILL
1717 Arch St
Suite 4400
Glenside, PA 19038

RE: Project: Kindermorgan-Lewis Dr.
Pace Project No.: 92321665

Dear Bill Waldron:

Enclosed are the analytical results for sample(s) received by the laboratory on December 02, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Bethany Garvey, CH2M HILL
Scott Powell, CH2M
Tom Wiley, CH2M



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Kindermorgan-Lewis Dr.
Pace Project No.: 92321665

Charlotte Certification IDs

9800 Kinney Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Kindermorgan-Lewis Dr.
Pace Project No.: 92321665

| Lab ID | Sample ID | Method | Analysts | Reported | Analytes Laboratory |
|-------------|---------------|------------------|----------|----------|------------------------|
| 92321665001 | FB-01-120116 | EPA 8260 | GAW | 12 | PASI-C |
| 92321665002 | TB-01-120116 | EPA 8260 | GAW | 12 | PASI-C |
| 92321665003 | MW-01B-120116 | EPA 8260 | GAW | 12 | PASI-C |
| 92321665004 | MW-35-120116 | RSK 175 Modified | WDV | 1 | PASI-C |
| | | EPA 8260 | GAW | 12 | PASI-C |
| | | SM 2320B | KDF | 1 | PASI-A |
| | | EPA 300.0 | AES2 | 1 | PASI-A |
| | | EPA 353.2 | WRC | 1 | PASI-A |
| 92321665005 | MW-25-120116 | RSK 175 Modified | WDV | 1 | PASI-C |
| | | EPA 8260 | GAW | 12 | PASI-C |
| | | SM 2320B | KDF | 1 | PASI-A |
| | | EPA 300.0 | AES2 | 1 | PASI-A |
| | | EPA 353.2 | WRC | 1 | PASI-A |
| 92321665006 | MW-17B-120116 | EPA 8260 | GAW | 12 | PASI-C |
| 92321665007 | MW-26B-120116 | EPA 8260 | GAW | 12 | PASI-C |
| 92321665008 | MW-26-120116 | EPA 8260 | GAW | 12 | PASI-C |
| 92321665009 | MW-25B-120116 | EPA 8260 | GAW | 12 | PASI-C |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr.
Pace Project No.: 92321665

| Sample: FB-01-120116 | Lab ID: 92321665001 | Collected: 12/01/16 08:40 | Received: 12/02/16 10:37 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/05/16 16:56 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/05/16 16:56 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/05/16 16:56 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/05/16 16:56 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/05/16 16:56 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/05/16 16:56 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/05/16 16:56 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/05/16 16:56 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/05/16 16:56 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 1 | | 12/05/16 16:56 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 70-130 | 1 | | 12/05/16 16:56 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 70-130 | 1 | | 12/05/16 16:56 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr.

Pace Project No.: 92321665

| Sample: TB-01-120116 | Lab ID: 92321665002 | Collected: 12/01/16 09:00 | Received: 12/02/16 10:37 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------|----------------|-------------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | | 12/05/16 17:13 | 71-43-2 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | | 12/05/16 17:13 | 107-06-2 |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | | 12/05/16 17:13 | 100-41-4 |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | | 12/05/16 17:13 | 1634-04-4 |
| Naphthalene | ND | ug/L | 1.0 | 1 | | | 12/05/16 17:13 | 91-20-3 |
| Toluene | ND | ug/L | 1.0 | 1 | | | 12/05/16 17:13 | 108-88-3 |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | | 12/05/16 17:13 | 1330-20-7 |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | | 12/05/16 17:13 | 179601-23-1 |
| o-Xylene | ND | ug/L | 1.0 | 1 | | | 12/05/16 17:13 | 95-47-6 |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 1 | | | 12/05/16 17:13 | 460-00-4 |
| 1,2-Dichloroethane-d4 (S) | 96 | % | 70-130 | 1 | | | 12/05/16 17:13 | 17060-07-0 |
| Toluene-d8 (S) | 99 | % | 70-130 | 1 | | | 12/05/16 17:13 | 2037-26-5 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr.

Pace Project No.: 92321665

| Sample: MW-01B-120116 | Lab ID: 92321665003 | Collected: 12/01/16 09:45 | Received: 12/02/16 10:37 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/05/16 17:47 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/05/16 17:47 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/05/16 17:47 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/05/16 17:47 | 1634-04-4 | |
| Naphthalene | 1.3 | ug/L | 1.0 | 1 | | 12/05/16 17:47 | 91-20-3 | |
| Toluene | 1.4 | ug/L | 1.0 | 1 | | 12/05/16 17:47 | 108-88-3 | |
| Xylene (Total) | 5.6 | ug/L | 1.0 | 1 | | 12/05/16 17:47 | 1330-20-7 | |
| m&p-Xylene | 3.0 | ug/L | 2.0 | 1 | | 12/05/16 17:47 | 179601-23-1 | |
| o-Xylene | 2.6 | ug/L | 1.0 | 1 | | 12/05/16 17:47 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 1 | | 12/05/16 17:47 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 96 | % | 70-130 | 1 | | 12/05/16 17:47 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 70-130 | 1 | | 12/05/16 17:47 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr.
Pace Project No.: 92321665

| Sample: MW-35-120116 | Lab ID: 92321665004 | Collected: 12/01/16 10:50 | Received: 12/02/16 10:37 | Matrix: Water | | | | |
|---------------------------------------|-------------------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| RSK 175 Headspace | Analytical Method: RSK 175 Modified | | | | | | | |
| Methane | ND | ug/L | 10.0 | 1 | | 12/07/16 14:27 | 74-82-8 | N2 |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/05/16 22:02 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/05/16 22:02 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/05/16 22:02 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/05/16 22:02 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/05/16 22:02 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/05/16 22:02 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/05/16 22:02 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/05/16 22:02 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/05/16 22:02 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 1 | | 12/05/16 22:02 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 97 | % | 70-130 | 1 | | 12/05/16 22:02 | 17060-07-0 | |
| Toluene-d8 (S) | 98 | % | 70-130 | 1 | | 12/05/16 22:02 | 2037-26-5 | |
| 2320B Alkalinity | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 1 | | 12/05/16 22:59 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 | | | | | | | |
| Sulfate | ND | mg/L | 2.0 | 1 | | 12/06/16 17:25 | 14808-79-8 | |
| 353.2 Nitrogen, NO2/NO3 unpres | Analytical Method: EPA 353.2 | | | | | | | |
| Nitrogen, Nitrate | 0.58 | mg/L | 0.020 | 1 | | 12/02/16 18:19 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr.
Pace Project No.: 92321665

| Sample: MW-25-120116 | Lab ID: 92321665005 | Collected: 12/01/16 12:40 | Received: 12/02/16 10:37 | Matrix: Water | | | | |
|---------------------------------------|-------------------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| RSK 175 Headspace | Analytical Method: RSK 175 Modified | | | | | | | |
| Methane | 3980 | ug/L | 100 | 10 | | 12/07/16 14:42 | 74-82-8 | N2 |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | 675 | ug/L | 5.0 | 5 | | 12/07/16 00:57 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | 5 | | 12/07/16 00:57 | 107-06-2 | |
| Ethylbenzene | 30.2 | ug/L | 5.0 | 5 | | 12/07/16 00:57 | 100-41-4 | |
| Methyl-tert-butyl ether | 5.9 | ug/L | 5.0 | 5 | | 12/07/16 00:57 | 1634-04-4 | |
| Naphthalene | 29.7 | ug/L | 5.0 | 5 | | 12/07/16 00:57 | 91-20-3 | |
| Toluene | 15.3 | ug/L | 5.0 | 5 | | 12/07/16 00:57 | 108-88-3 | |
| Xylene (Total) | 619 | ug/L | 5.0 | 5 | | 12/07/16 00:57 | 1330-20-7 | |
| m&p-Xylene | 273 | ug/L | 10.0 | 5 | | 12/07/16 00:57 | 179601-23-1 | |
| o-Xylene | 346 | ug/L | 5.0 | 5 | | 12/07/16 00:57 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 5 | | 12/07/16 00:57 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 92 | % | 70-130 | 5 | | 12/07/16 00:57 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 70-130 | 5 | | 12/07/16 00:57 | 2037-26-5 | |
| 2320B Alkalinity | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 8.3 | mg/L | 5.0 | 1 | | 12/05/16 23:07 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 | | | | | | | |
| Sulfate | ND | mg/L | 2.0 | 1 | | 12/06/16 17:34 | 14808-79-8 | |
| 353.2 Nitrogen, NO2/NO3 unpres | Analytical Method: EPA 353.2 | | | | | | | |
| Nitrogen, Nitrate | 0.028 | mg/L | 0.020 | 1 | | 12/02/16 18:19 | | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr.
Pace Project No.: 92321665

| Sample: MW-17B-120116 | Lab ID: 92321665006 | Collected: 12/01/16 11:30 | Received: 12/02/16 10:37 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | 9370 | ug/L | 100 | 100 | | 12/07/16 01:14 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 100 | 100 | | 12/07/16 01:14 | 107-06-2 | |
| Ethylbenzene | 761 | ug/L | 100 | 100 | | 12/07/16 01:14 | 100-41-4 | |
| Methyl-tert-butyl ether | 954 | ug/L | 100 | 100 | | 12/07/16 01:14 | 1634-04-4 | |
| Naphthalene | 112 | ug/L | 100 | 100 | | 12/07/16 01:14 | 91-20-3 | |
| Toluene | 16900 | ug/L | 100 | 100 | | 12/07/16 01:14 | 108-88-3 | |
| Xylene (Total) | 4500 | ug/L | 100 | 100 | | 12/07/16 01:14 | 1330-20-7 | |
| m&p-Xylene | 2960 | ug/L | 200 | 100 | | 12/07/16 01:14 | 179601-23-1 | |
| o-Xylene | 1540 | ug/L | 100 | 100 | | 12/07/16 01:14 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 100 | | 12/07/16 01:14 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 88 | % | 70-130 | 100 | | 12/07/16 01:14 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 70-130 | 100 | | 12/07/16 01:14 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr.
Pace Project No.: 92321665

| Sample: MW-26B-120116 | Lab ID: 92321665007 | Collected: 12/01/16 15:15 | Received: 12/02/16 10:37 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/05/16 18:04 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/05/16 18:04 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/05/16 18:04 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/05/16 18:04 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/05/16 18:04 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/05/16 18:04 | 108-88-3 | |
| Xylene (Total) | 1.3 | ug/L | 1.0 | 1 | | 12/05/16 18:04 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/05/16 18:04 | 179601-23-1 | |
| o-Xylene | 1.3 | ug/L | 1.0 | 1 | | 12/05/16 18:04 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 1 | | 12/05/16 18:04 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 98 | % | 70-130 | 1 | | 12/05/16 18:04 | 17060-07-0 | |
| Toluene-d8 (S) | 98 | % | 70-130 | 1 | | 12/05/16 18:04 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr.
Pace Project No.: 92321665

| Sample: MW-26-120116 | Lab ID: 92321665008 | Collected: 12/01/16 14:00 | Received: 12/02/16 10:37 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/05/16 18:21 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/05/16 18:21 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/05/16 18:21 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/05/16 18:21 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/05/16 18:21 | 91-20-3 | |
| Toluene | 2.3 | ug/L | 1.0 | 1 | | 12/05/16 18:21 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/05/16 18:21 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/05/16 18:21 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/05/16 18:21 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 1 | | 12/05/16 18:21 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 95 | % | 70-130 | 1 | | 12/05/16 18:21 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 70-130 | 1 | | 12/05/16 18:21 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kindermorgan-Lewis Dr.
Pace Project No.: 92321665

| Sample: MW-25B-120116 | Lab ID: 92321665009 | Collected: 12/01/16 15:35 | Received: 12/02/16 10:37 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/05/16 18:38 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/05/16 18:38 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/05/16 18:38 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/05/16 18:38 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/05/16 18:38 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/05/16 18:38 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/05/16 18:38 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/05/16 18:38 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/05/16 18:38 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | 1 | | 12/05/16 18:38 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 98 | % | 70-130 | 1 | | 12/05/16 18:38 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 70-130 | 1 | | 12/05/16 18:38 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr.

Pace Project No.: 92321665

QC Batch: 339721 Analysis Method: RSK 175 Modified

QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE

Associated Lab Samples: 92321665004, 92321665005

METHOD BLANK: 1884054 Matrix: Water

Associated Lab Samples: 92321665004, 92321665005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Methane | ug/L | ND | 10.0 | 12/07/16 14:11 | N2 |

LABORATORY CONTROL SAMPLE: 1884055

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Methane | ug/L | 396 | 333 | 84 | 70-130 | N2 |

MATRIX SPIKE SAMPLE: 1884056

| Parameter | Units | 92321771001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Methane | ug/L | ND | 396 | 365 | 92 | 70-130 | N2 |

SAMPLE DUPLICATE: 1884057

| Parameter | Units | 92321771002 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Methane | ug/L | ND | ND | | N2 |

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr.
Pace Project No.: 92321665

| | | | |
|-------------------------|---|-----------------------|-----------------------|
| QC Batch: | 339382 | Analysis Method: | EPA 8260 |
| QC Batch Method: | EPA 8260 | Analysis Description: | 8260 MSV Low Level SC |
| Associated Lab Samples: | 92321665001, 92321665002, 92321665003, 92321665004, 92321665007, 92321665008, 92321665009 | | |

METHOD BLANK: 1882024 Matrix: Water

Associated Lab Samples: 92321665001, 92321665002, 92321665003, 92321665004, 92321665007, 92321665008, 92321665009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 12/05/16 16:21 | |
| Benzene | ug/L | ND | 1.0 | 12/05/16 16:21 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/05/16 16:21 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/05/16 16:21 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 12/05/16 16:21 | |
| Naphthalene | ug/L | ND | 1.0 | 12/05/16 16:21 | |
| o-Xylene | ug/L | ND | 1.0 | 12/05/16 16:21 | |
| Toluene | ug/L | ND | 1.0 | 12/05/16 16:21 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/05/16 16:21 | |
| 1,2-Dichloroethane-d4 (S) | % | 93 | 70-130 | 12/05/16 16:21 | |
| 4-Bromofluorobenzene (S) | % | 98 | 70-130 | 12/05/16 16:21 | |
| Toluene-d8 (S) | % | 98 | 70-130 | 12/05/16 16:21 | |

LABORATORY CONTROL SAMPLE: 1882025

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | 50 | 44.6 | 89 | 70-130 | |
| Benzene | ug/L | 50 | 50.9 | 102 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 52.3 | 105 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 104 | 104 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 47.3 | 95 | 70-130 | |
| Naphthalene | ug/L | 50 | 49.5 | 99 | 70-130 | |
| o-Xylene | ug/L | 50 | 51.6 | 103 | 70-130 | |
| Toluene | ug/L | 50 | 49.4 | 99 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 156 | 104 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 95 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 100 | 70-130 | |
| Toluene-d8 (S) | % | | | 96 | 70-130 | |

MATRIX SPIKE SAMPLE: 1882027

| Parameter | Units | 92321702011 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 20 | 20.0 | 99 | 70-130 | |
| Benzene | ug/L | ND | 20 | 23.6 | 118 | 70-130 | |
| Ethylbenzene | ug/L | ND | 20 | 22.8 | 114 | 70-130 | |
| m&p-Xylene | ug/L | ND | 40 | 44.8 | 112 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 21.3 | 106 | 70-130 | |
| Naphthalene | ug/L | ND | 20 | 20.4 | 102 | 70-130 | |

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr.
Pace Project No.: 92321665

| MATRIX SPIKE SAMPLE: | | 1882027 | 92321702011 | | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|---------|-------------|----|-------------|-----------|----------|--------------|------------|
| Parameter | Units | | Result | | | | | | |
| o-Xylene | ug/L | | ND | 20 | | 22.3 | 112 | 70-130 | |
| Toluene | ug/L | | ND | 20 | | 22.2 | 111 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 96 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 100 | 70-130 | |
| Toluene-d8 (S) | % | | | | | | 95 | 70-130 | |

SAMPLE DUPLICATE: 1882026

| Parameter | Units | 92321702010 | | RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-----|------------|
| | | Result | Dup Result | | |
| 1,2-Dichloroethane | ug/L | ND | ND | | |
| Benzene | ug/L | ND | ND | | |
| Ethylbenzene | ug/L | ND | ND | | |
| m&p-Xylene | ug/L | ND | ND | | |
| Methyl-tert-butyl ether | ug/L | ND | ND | | |
| Naphthalene | ug/L | ND | ND | | |
| o-Xylene | ug/L | ND | ND | | |
| Toluene | ug/L | ND | ND | | |
| Xylene (Total) | ug/L | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 97 | 96 | 2 | |
| 4-Bromofluorobenzene (S) | % | 97 | 97 | 0 | |
| Toluene-d8 (S) | % | 97 | 99 | 2 | |

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr.

Pace Project No.: 92321665

| | | | |
|-------------------------|--------------------------|-----------------------|-----------------------|
| QC Batch: | 339621 | Analysis Method: | EPA 8260 |
| QC Batch Method: | EPA 8260 | Analysis Description: | 8260 MSV Low Level SC |
| Associated Lab Samples: | 92321665005, 92321665006 | | |

METHOD BLANK: 1883716 Matrix: Water

Associated Lab Samples: 92321665005, 92321665006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| Benzene | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/06/16 22:24 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| Naphthalene | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| o-Xylene | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| Toluene | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/06/16 22:24 | |
| 1,2-Dichloroethane-d4 (S) | % | 89 | 70-130 | 12/06/16 22:24 | |
| 4-Bromofluorobenzene (S) | % | 96 | 70-130 | 12/06/16 22:24 | |
| Toluene-d8 (S) | % | 98 | 70-130 | 12/06/16 22:24 | |

LABORATORY CONTROL SAMPLE: 1883717

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | 50 | 46.3 | 93 | 70-130 | |
| Benzene | ug/L | 50 | 53.9 | 108 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 53.1 | 106 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 105 | 105 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 50.6 | 101 | 70-130 | |
| Naphthalene | ug/L | 50 | 52.5 | 105 | 70-130 | |
| o-Xylene | ug/L | 50 | 52.2 | 104 | 70-130 | |
| Toluene | ug/L | 50 | 52.2 | 104 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 158 | 105 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 94 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 100 | 70-130 | |
| Toluene-d8 (S) | % | | | 98 | 70-130 | |

MATRIX SPIKE SAMPLE: 1883719

| Parameter | Units | 92321791039 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 20 | 18.5 | 92 | 70-130 | |
| Benzene | ug/L | ND | 20 | 22.4 | 110 | 70-130 | |
| Ethylbenzene | ug/L | 37.0 | 20 | 54.3 | 87 | 70-130 | |
| m&p-Xylene | ug/L | 121 | 40 | 153 | 81 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 20.8 | 104 | 70-130 | |
| Naphthalene | ug/L | 28.2 | 20 | 45.6 | 87 | 70-130 | |

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr.
Pace Project No.: 92321665

MATRIX SPIKE SAMPLE: 1883719

| Parameter | Units | 92321791039 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-----------------------|----------------|--------------|-------------|-----------------|------------|
| o-Xylene | ug/L | 61.1 | 20 | 76.5 | 77 | 70-130 | |
| Toluene | ug/L | 3.8 | 20 | 24.6 | 104 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 90 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 100 | 70-130 | |
| Toluene-d8 (S) | % | | | | 97 | 70-130 | |

SAMPLE DUPLICATE: 1883718

| Parameter | Units | 92321793001 Result | Dup Result | RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|
| 1,2-Dichloroethane | ug/L | ND | ND | | |
| Benzene | ug/L | ND | ND | | |
| Ethylbenzene | ug/L | ND | ND | | |
| m&p-Xylene | ug/L | ND | ND | | |
| Methyl-tert-butyl ether | ug/L | ND | ND | | |
| Naphthalene | ug/L | ND | ND | | |
| o-Xylene | ug/L | ND | ND | | |
| Toluene | ug/L | ND | ND | | |
| Xylene (Total) | ug/L | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 89 | 89 | 0 | |
| 4-Bromofluorobenzene (S) | % | 98 | 96 | 2 | |
| Toluene-d8 (S) | % | 99 | 99 | 1 | |

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr.

Pace Project No.: 92321665

| | | | |
|-------------------------|--------------------------|-----------------------|------------------|
| QC Batch: | 339291 | Analysis Method: | SM 2320B |
| QC Batch Method: | SM 2320B | Analysis Description: | 2320B Alkalinity |
| Associated Lab Samples: | 92321665004, 92321665005 | | |

| | | | |
|---------------|---------|---------|-------|
| METHOD BLANK: | 1881486 | Matrix: | Water |
|---------------|---------|---------|-------|

Associated Lab Samples: 92321665004, 92321665005

| Parameter | Units | Blank | Reporting | Analyzed | Qualifiers |
|--|-------|--------|-----------|----------------|------------|
| | | Result | Limit | | |
| Alkalinity, Total as CaCO ₃ | mg/L | ND | 5.0 | 12/05/16 21:56 | |

LABORATORY CONTROL SAMPLE: 1881487

| Parameter | Units | Spike | LCS | LCS | % Rec | Limits | Qualifiers |
|--|-------|-------|--------|-------|--------|--------|------------|
| | | Conc. | Result | % Rec | | | |
| Alkalinity, Total as CaCO ₃ | mg/L | 50 | 47.5 | 95 | 80-120 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1881488 1881489

| Parameter | Units | MS | MSD | MS | MSD | MS | MSD | % Rec | % Rec | RPD | Qual |
|--|-------|-------------|-------|----|------|------|-----|-------|--------|-----|------|
| | | 92321642041 | Spike | | | | | | | | |
| Alkalinity, Total as CaCO ₃ | mg/L | ND | 50 | 50 | 49.3 | 49.2 | 99 | 98 | 80-120 | 0 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1881490 1881491

| Parameter | Units | MS | MSD | MS | MSD | MS | MSD | % Rec | % Rec | RPD | Qual |
|--|-------|-------------|-------|----|-----|-----|-----|-------|--------|-----|------|
| | | 92321730005 | Spike | | | | | | | | |
| Alkalinity, Total as CaCO ₃ | mg/L | 410 | 50 | 50 | 463 | 454 | 106 | 88 | 80-120 | 2 | |

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr.

Pace Project No.: 92321665

| | | | |
|-------------------------|--------------------------|-----------------------|-----------------|
| QC Batch: | 339189 | Analysis Method: | EPA 300.0 |
| QC Batch Method: | EPA 300.0 | Analysis Description: | 300.0 IC Anions |
| Associated Lab Samples: | 92321665004, 92321665005 | | |

METHOD BLANK: 1880836 Matrix: Water

Associated Lab Samples: 92321665004, 92321665005

| Parameter | Units | Blank | Reporting | | | Qualifiers |
|-----------|-------|--------|-----------|----------------|--|------------|
| | | Result | Limit | Analyzed | | |
| Sulfate | mg/L | ND | 2.0 | 12/06/16 16:39 | | |

LABORATORY CONTROL SAMPLE: 1880837

| Parameter | Units | Spike | LCS | LCS | % Rec | Limits | Qualifiers |
|-----------|-------|-------|--------|-------|--------|--------|------------|
| | | Conc. | Result | % Rec | | | |
| Sulfate | mg/L | 20 | 18.9 | 94 | 90-110 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1880838 1880839

| Parameter | Units | MS | MSD | MS | MSD | MS | MSD | % Rec | % Rec | RPD | Qual |
|-----------|-------|-------------|-------|----|------|------|-----|-------|--------|-----|------|
| | | 92320770001 | Spike | | | | | | | | |
| Sulfate | mg/L | 3.7 | 20 | 20 | 22.1 | 22.1 | 92 | 92 | 90-110 | 0 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1880840 1880841

| Parameter | Units | MS | MSD | MS | MSD | MS | MSD | % Rec | % Rec | RPD | Qual |
|-----------|-------|-------------|-------|----|------|------|-----|-------|--------|-----|------|
| | | 92321623012 | Spike | | | | | | | | |
| Sulfate | mg/L | 35.5 | 20 | 20 | 52.5 | 52.5 | 85 | 85 | 90-110 | 0 | M1 |

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QUALITY CONTROL DATA

Project: Kindermorgan-Lewis Dr.

Pace Project No.: 92321665

QC Batch: 339214 Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 92321665004, 92321665005

METHOD BLANK: 1881212 Matrix: Water

Associated Lab Samples: 92321665004, 92321665005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Nitrate | mg/L | ND | 0.020 | 12/02/16 18:19 | |

LABORATORY CONTROL SAMPLE: 1881213

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, Nitrate | mg/L | 2.5 | 2.5 | 99 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1881214 1881215

| Parameter | Units | MS Result | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|-------------------|-------|-----------|-----------------|-----------|------------|----------|-----------|--------------|--------|------|
| Nitrogen, Nitrate | mg/L | 0.58 | 2.5 | 2.5 | 2.9 | 3.0 | 94 | 95 | 90-110 | 1 |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Kindermorgan-Lewis Dr.
Pace Project No.: 92321665

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

REPORT OF LABORATORY ANALYSIS

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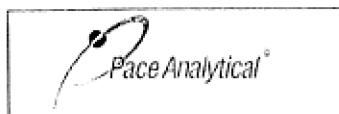
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Kindermorgan-Lewis Dr.
Pace Project No.: 92321665

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|------------------|----------|-------------------|------------------|
| 92321665004 | MW-35-120116 | RSK 175 Modified | 339721 | | |
| 92321665005 | MW-25-120116 | RSK 175 Modified | 339721 | | |
| 92321665001 | FB-01-120116 | EPA 8260 | 339382 | | |
| 92321665002 | TB-01-120116 | EPA 8260 | 339382 | | |
| 92321665003 | MW-01B-120116 | EPA 8260 | 339382 | | |
| 92321665004 | MW-35-120116 | EPA 8260 | 339382 | | |
| 92321665005 | MW-25-120116 | EPA 8260 | 339621 | | |
| 92321665006 | MW-17B-120116 | EPA 8260 | 339621 | | |
| 92321665007 | MW-26B-120116 | EPA 8260 | 339382 | | |
| 92321665008 | MW-26-120116 | EPA 8260 | 339382 | | |
| 92321665009 | MW-25B-120116 | EPA 8260 | 339382 | | |
| 92321665004 | MW-35-120116 | SM 2320B | 339291 | | |
| 92321665005 | MW-25-120116 | SM 2320B | 339291 | | |
| 92321665004 | MW-35-120116 | EPA 300.0 | 339189 | | |
| 92321665005 | MW-25-120116 | EPA 300.0 | 339189 | | |
| 92321665004 | MW-35-120116 | EPA 353.2 | 339214 | | |
| 92321665005 | MW-25-120116 | EPA 353.2 | 339214 | | |

REPORT OF LABORATORY ANALYSIS

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| | |
|---|---|
| Document Name: Sample Condition Upon Receipt(SCUR) | Document Revised: Sept. 21, 2016 Page 1 of 2 |
| Document No.: F-CAR-CS-033-Rev.01 | Issuing Authority: Pace Quality Office |

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville **Sample Condition Upon Receipt**

Client Name:

Proj#

WO# : 92321665

92321665

Courier: FedEx UPS USPS Client
 Commercial Pace Other: _____Custody Seal Present? Yes No Seals Intact? Yes NoDate/Initials Person Examining Contents: PDT 12/13/16Packing Material: Bubble Wrap Bubble Bags None Other: _____Thermometer: IR Gun ID: 5 Type of Ice: Wet Blue None Samples on ice, cooling process has begunCorrection Factor: 0 Cooler Temp Corrected (°C): 4.3Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

 Yes NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | | Comments/Discrepancy: |
|---|---|--|--|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 2. |
| Short Hold Time Analysis (<72 hr.)? | <input checked="" type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A 3. <u>Actual</u> |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| Containers Intact? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 7. |
| Samples Field Filtered? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 8. Note if sediment is visible in the dissolved container |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 9. |
| -Includes Date/Time/ID/Analysis Matrix: <u>WT</u> | | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 11. |
| Trip Blank Custody Seals Present? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted:

Date/Time:

Comments/Sample

Discrepancy:

Project Manager SCURF Review:

JYDate: 12/5/16

Project Manager SRF Review:

JYDate: 12/5/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)



| | |
|---|---|
| Document Name: Sample Condition Upon Receipt(SCUR) | Document Revised: Sept. 21, 2016 Page 2 of 2 |
| | Document No.: F-CAR-CS-033-Rev.01 Issuing Authority: Pace Quality Office |

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

**Bottom half of box is to list number of bottles

Project #

WO# : 92321665

PM: KRG

Due Date: 12/09/16

CLIENT: 92-KinderCH2

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP3S-250 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP3Z-250 mL Plastic ZN Acetate & NaOH (>9) | BP3C-250 mL Plastic NaOH (pH > 12) (Cl-) | W/GFU-Wide-mouthed Glass Jar Unpreserved | AG1U-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VODR Unp (N/A) | DG9P-40 mL VOA H3PO4 (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5I-125 mL Sterile Plastic (N/A - lab) | SP2I-250 mL Sterile Plastic (NH2)2SO4 (9.3-9.7) | BPA-250 mL Plastic Cubitainer | VSGU-20 mL Scintillation vials (N/A) | GN |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|--|---------------------------------|---|-----------------------------------|----------------------------------|--|--------------------------|------------------------------|---------------------------|----------------------------|--|---|---|-------------------------------|--------------------------------------|----|
| 1 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 3 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 4 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 6 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 7 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 8 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 9 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 11 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 12 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a **LEGAL DOCUMENT**. All relevant fields must be completed accurately.

Intra-Regional Chain of Custody



Workorder: 92321665 Workorder Name: Kindermorgan-Lewis Dr. Owner Received Date: 12/2/2016 Due Date: 12/9/2016

| Received at: | | Send To Lab: | | Requested Analysis: | | | | | | | | | |
|---|--------------------|--|--------------------|---------------------|------------------------|-----|-----------|-----------------------|----------------------|-----------------|----------|--------------|---|
| Pace Analytical Asheville 2225 Riverside Dr. Asheville, NC 28804 Phone (828)254-7176 | | Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092 | | | | | | | | | | | |
| Report To: Kevin Godwin | | | | | | | | | | | | | |
| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | HCl | Preserved | Unpreserved | Preserved Containers | HSIC 115 Method | EPA 8090 | LAB USE ONLY | |
| 1 | FB-01-120116 | PS | 12/1/2016 08:40 | 92321665001 | Water | 3 | X | | | X | | | |
| 2 | TB-01-120116 | PS | 12/1/2016 09:00 | 92321665002 | Water | 3 | | | | X | | | |
| 3 | MW-01B-120116 | PS | 12/1/2016 09:45 | 92321665003 | Water | 3 | | | | X | | | |
| 4 | MW-35-120116 | PS | 12/1/2016 10:50 | 92321665004 | Water | 3 | 3 | | | X | X | * | * |
| 5 | MW-25-120116 | PS | 12/1/2016 12:40 | 92321665005 | Water | 3 | 3 | | | X | X | * | * |
| 6 | MW-17R-120116 | PS | 12/1/2016 11:30 | 92321665006 | Water | 3 | | | | X | | | |
| 7 | MW-26B-120116 | PS | 12/1/2016 15:15 | 92321665007 | Water | 3 | | | | X | | | |
| 8 | MW-28-120116 | PS | 12/1/2016 14:00 | 92321665008 | Water | 3 | | | | X | | | |
| 9 | MW-25B-120116 | PS | 12/1/2016 15:35 | 92321665009 | Water | 3 | | | | X | | | |
| Comments | | | | | | | | | | | | | |
| Transfers | Released By | Date/Time | Received By | Date/Time | | | | | | | | | |
| 1 | <i>[Signature]</i> | 12/2/16 07:00 | <i>[Signature]</i> | 12/2/16 07:00 | | | | | | | | | |
| 2 | <i>[Signature]</i> | 12/2/16 07:45 | <i>[Signature]</i> | 12/2/16 07:45 | | | | | | | | | |
| 3 | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | |
| Cooler Temperature on Receipt <i>[Signature]</i> °C | | | Custody Seal | Y or N | Received on Ice Y or N | | | Samples Intact Y or N | | | | | |

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.



Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

December 12, 2016

Kevin Godwin
Pace Analytical Services, Inc.
9800 Kincey Avenue
Suite 100
Huntersville, NC 28078

RE: KINDERMORGAN-LEWIS DR.

Pace Workorder: 21177

Dear Kevin Godwin:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, December 06, 2016. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ruth Welsh 12/12/2016
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.

Please email PAESfeedback@pacelabs.com.

Total Number of Pages 1

Report ID: 21177 - 871340

Page 1 of 9



CERTIFICATE OF ANALYSIS

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Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

| | |
|--------------------------|--|
| Accreditor: | Pennsylvania Department of Environmental Protection, Bureau of Laboratories |
| Accreditation ID: | 02-00538 |
| Scope: | NELAP Non-Potable Water and Solid & Hazardous Waste |
| Accreditor: | West Virginia Department of Environmental Protection, Division of Water and Waste Management |
| Accreditation ID: | 395 |
| Scope: | Non-Potable Water |
| Accreditor: | South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification |
| Accreditation ID: | 89009003 |
| Scope: | Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA) |
| Accreditor: | NELAP: New Jersey, Department of Environmental Protection |
| Accreditation ID: | PA026 |
| Scope: | Non-Potable Water; Solid and Chemical Materials |
| Accreditor: | NELAP: New York, Department of Health Wadsworth Center |
| Accreditation ID: | 11815 |
| Scope: | Non-Potable Water; Solid and Hazardous Waste |
| Accreditor: | State of Connecticut, Department of Public Health, Division of Environmental Health |
| Accreditation ID: | PH-0263 |
| Scope: | Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA) |
| Accreditor: | NELAP: Texas, Commission on Environmental Quality |
| Accreditation ID: | T104704453-09-TX |
| Scope: | Non-Potable Water |
| Accreditor: | State of New Hampshire |
| Accreditation ID: | 299409 |
| Scope: | Non-potable water |
| Accreditor: | State of Georgia |
| Accreditation ID: | Chapter 391-3-26 |
| Scope: | As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC). |



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Pittsburgh, PA 15238
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SAMPLE SUMMARY

Workorder: 21177 KINDERMORGAN LEWIS DR.

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-----------|--------------|--------|-----------------|-----------------|
| 211770001 | MW-35-120116 | Water | 12/1/2016 10:50 | 12/6/2016 11:30 |
| 211770002 | MW-25-120116 | Water | 12/1/2016 12:40 | 12/6/2016 11:30 |

Report ID: 21177 - 871340

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Page 3 of 9





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ANALYTICAL RESULTS

Workorder: 21177 KINDERMORGAN-LEWIS DR.

Lab ID: 211770001 Date Received: 12/6/2016 11:30 Matrix: Water
Sample ID: MW-35-120116 Date Collected: 12/1/2016 10:50

| Parameters | Results | Units | PQL | MDL DF | Analyzed | By | Qualifiers |
|---|---------|-------|-----|--------|-----------------|----|------------|
| RISK - PAES | | | | | | | |
| Analysis Desc: AM20GAX Analytical Method: AM20GAX | | | | | | | |
| Carbon Dioxide | 61 | mg/l | 5.0 | 0.45 1 | 12/8/2016 11:49 | BW | N |



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ANALYTICAL RESULTS

Workorder: 21177 KINDERMORGAN-LEWIS DR.

Lab ID: 211770002 Date Received: 12/6/2016 11:30 Matrix: Water
Sample ID: MW-25-120116 Date Collected: 12/1/2016 12:40

| Parameters | Results | Units | PQL | MDL | DF | Analyzed | By | Qualifiers |
|---|---------|-------|-----|-----|------|----------|-----------------|------------|
| RISK - PAES | | | | | | | | |
| Analysis Desc: AM20GAX Analytical Method: AM20GAX | | | | | | | | |
| Carbon Dioxide | 60 | mg/l | | 5.0 | 0.45 | 1 | 12/8/2016 11:58 | BW |



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ANALYTICAL RESULTS QUALIFIERS

Workorder: 21177 KINDERMORGAN-LEWIS DR.

DEFINITIONS/QUALIFIERS

| | |
|-------|--|
| MDL | Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection. |
| PQL | Practical Quantitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation. |
| ND | Not detected at or above reporting limit. |
| DF | Dilution Factor. |
| S | Surrogate. |
| RPD | Relative Percent Difference. |
| % Rec | Percent Recovery. |
| U | Indicates the compound was analyzed for, but not detected at or above the noted concentration. |
| J | Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL). |
| n | The laboratory does not hold NELAP/TNI accreditation for this method or analyte. |



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Pittsburgh, PA 15238
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Fax: (412) 826-3433

QUALITY CONTROL DATA

Workorder: 21177 KINDERMORGAN-LEWIS DR.

QC Batch: DISG/5792 Analysis Method: AM20GAX
QC Batch Method: AM20GAX
Associated Lab Samples: 211770001, 211770002

METHOD BLANK: 45885

| Parameter | Units | Blank | Reporting | | Qualifiers |
|------------------------|-------|--------|-----------|------------|------------|
| | | Result | Limit | Qualifiers | |
| RISK Carbon Dioxide | mg/l | 0.45U | 0.45 | n | |

LABORATORY CONTROL SAMPLE & LCSD: 45887 45889

| Parameter | Units | Spike | LCS | LCSD | LCS | LCSD | % Rec | RPD | Max | Qualifiers |
|------------------------|-------|-------|--------|--------|-------|-------|--------|-----|-----|------------|
| | | Conc. | Result | Result | % Rec | % Rec | Limit | | RPD | |
| RISK Carbon Dioxide | mg/l | 120 | 120 | 110 | 99 | 97 | 80-120 | 2 | 20 | n |



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QUALITY CONTROL DATA QUALIFIERS

Workorder: 21177 KINDERMORGAN-LEWIS DR.

QUALITY CONTROL PARAMETER QUALIFIERS

- n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.



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Pittsburgh, PA 15238
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Fax: (412) 826-3433

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 21177 KINDERMORGAN-LEWIS DR.

| Lab ID | Sample ID | Prep Method | Prep Batch | Analysis Method | Analysis Batch |
|-----------|--------------|-------------|------------|-----------------|----------------|
| 211770001 | MW-35-120116 | | | AM20GAX | DISG/5792 |
| 211770002 | MW-25-120116 | | | AM20GAX | DISG/5792 |



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Chain of Custody

20177



Page 36 of 37

Workorder: 92321865

Workorder Name: Kindermorgan-Lewis Dr.

Results Requested By: 12/9/2016

| | | | | | | | | | | | | | |
|--|---|---|--------------------------------------|---------------------------|----------------------------|--------------------------|--|--|--|--|--|--|--|
| Report/Invoice ID: 92321865 Submitter ID: 92321865 Requested Analysis: | | | | | | | | | | | | | |
| Kevin Godwin Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092 Email: kevin.godwin@pacelabs.com | | | | | | | | | | | | | |
| Pace Energy P.O. KRG 16130 220 William Pit way Pittsburgh, PA 15238 | | | | | | | | | | | | | |
| State of Sample Origin: SC | | | | | | | | | | | | | |
| Item # 1 2 3 4 5 | Sample ID MW-35-120116 MW-25-120116 | Collected Date/Time 12/1/2016 10:50 12/1/2016 12:40 | Lab ID 92321665004 92321665005 | Matrix Water Water | Preserved Containers | | | | | | | | |
| | | | | | AM206PX Carbon Dioxide | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| LAB USE ONLY | | | | | | | | | | | | | |
| Comments: | | | | | | | | | | | | | |
| Transfers 1 2 3 | Released By Lora PAES | Date/Time 12.6.16 11:30 | Received By Lora PAES | | Date/Time 12.6.16 11:30 | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Cooler Temperature on Receipt 2.4°C | | | Custody Seal Y or N | Received on ice Y or N | | Samples Intact Y or N | | | | | | | |

Cooler Receipt Form

Client Name: Race H Project: Kinder Morgan Lab Work Order: 21177
- Lewis Dr

A. Shipping/Container Information (circle appropriate response)

Courier: FedEx UPS USPS Client Other: _____ Air bill Present: Yes No

Tracking Number: 7778 6628 9186

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Cooler/Box Packing Material: Bubble Wrap Absorbent Foam Other: _____

Type of Ice: Wet Blue None Ice Intact: Yes Melted

Cooler Temperature: 2-4°C Radiation Screened: Yes No Chain of Custody Present: Yes No

Comments: _____

B. Laboratory Assignment/Log-in (check appropriate response)

| | YES | NO | N/A | Comment Reference non-Conformance |
|--|-----|----|-----|--------------------------------------|
| Chain of Custody properly filled out | ✓ | | | |
| Chain of Custody relinquished | ✓ | | | |
| Sampler Name & Signature on COC | | ✓ | | |
| Containers intact | ✓ | | | |
| Were samples in separate bags | ✓ | | | |
| Sample container labels match COC | ✓ | | | |
| Sample name/date and time collected | | | | |
| Sufficient volume provided | ✓ | | | |
| PAES containers used | ✓ | | | |
| Are containers properly preserved for the requested testing? (as labeled) | ✓ | | | |
| If an unknown preservation state, were containers checked? Exception: VOA's coliform | | ✓ | | If yes, see pH form. |
| Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container? | | ✓ | | |
| Comments: _____ | | | | |

Cooler contents examined/received by: LY Date: 12.6.16

Project Manager Review: rw Date: 12-2-16

December 08, 2016

Bill Waldron
CH2M HILL
1717 Arch St
Suite 4400
Glenside, PA 19038

RE: Project: KINDERMORGAN-LEWIS 669228.I
Pace Project No.: 92321772

Dear Bill Waldron:

Enclosed are the analytical results for sample(s) received by the laboratory between December 03, 2016 and December 05, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Bethany Garvey, CH2M HILL
Scott Powell, CH2M
Tom Wiley, CH2M



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: KINDERMORGAN-LEWIS 669228.I
Pace Project No.: 92321772

Charlotte Certification IDs

9800 Kinney Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: KINDERMORGAN-LEWIS 669228.I
Pace Project No.: 92321772

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|---------------|----------|----------|-------------------|------------|
| 92321772001 | FB-01-120216 | EPA 8260 | GAW | 12 | PASI-C |
| 92321772002 | MW-06-120216 | EPA 8260 | GAW | 12 | PASI-C |
| 92321772003 | MW-23-120216 | EPA 8260 | GAW | 12 | PASI-C |
| 92321772004 | MW-23B-120216 | EPA 8260 | GAW | 12 | PASI-C |
| 92321772005 | MW-27B-120216 | EPA 8260 | GAW | 12 | PASI-C |
| 92321772006 | TB-01-120216 | EPA 8260 | GAW | 12 | PASI-C |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KINDERMORGAN-LEWIS 669228.I

Pace Project No.: 92321772

| Sample: FB-01-120216 | Lab ID: 92321772001 | Collected: 12/02/16 08:00 | Received: 12/05/16 09:15 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/06/16 16:29 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/06/16 16:29 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/06/16 16:29 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/06/16 16:29 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/06/16 16:29 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/06/16 16:29 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/06/16 16:29 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/06/16 16:29 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/06/16 16:29 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 103 | % | 70-130 | 1 | | 12/06/16 16:29 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 95 | % | 70-130 | 1 | | 12/06/16 16:29 | 17060-07-0 | |
| Toluene-d8 (S) | 111 | % | 70-130 | 1 | | 12/06/16 16:29 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: KINDERMORGAN-LEWIS 669228.I

Pace Project No.: 92321772

| Sample: MW-06-120216 | Lab ID: 92321772002 | Collected: 12/02/16 10:00 | Received: 12/05/16 09:15 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/06/16 18:54 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/06/16 18:54 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/06/16 18:54 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/06/16 18:54 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/06/16 18:54 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/06/16 18:54 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/06/16 18:54 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/06/16 18:54 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/06/16 18:54 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | 1 | | 12/06/16 18:54 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 92 | % | 70-130 | 1 | | 12/06/16 18:54 | 17060-07-0 | |
| Toluene-d8 (S) | 107 | % | 70-130 | 1 | | 12/06/16 18:54 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: KINDERMORGAN-LEWIS 669228.I

Pace Project No.: 92321772

| Sample: MW-23-120216 | Lab ID: 92321772003 | Collected: 12/02/16 10:45 | Received: 12/03/16 09:15 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | 450 | ug/L | 5.0 | 5 | | 12/07/16 21:38 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | 5 | | 12/07/16 21:38 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 5.0 | 5 | | 12/07/16 21:38 | 100-41-4 | |
| Methyl-tert-butyl ether | 46.4 | ug/L | 5.0 | 5 | | 12/07/16 21:38 | 1634-04-4 | |
| Naphthalene | 5.9 | ug/L | 5.0 | 5 | | 12/07/16 21:38 | 91-20-3 | |
| Toluene | 14.6 | ug/L | 5.0 | 5 | | 12/07/16 21:38 | 108-88-3 | |
| Xylene (Total) | 336 | ug/L | 5.0 | 5 | | 12/07/16 21:38 | 1330-20-7 | |
| m&p-Xylene | 226 | ug/L | 10.0 | 5 | | 12/07/16 21:38 | 179601-23-1 | |
| o-Xylene | 110 | ug/L | 5.0 | 5 | | 12/07/16 21:38 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 102 | % | 70-130 | 5 | | 12/07/16 21:38 | 460-00-4 | D3 |
| 1,2-Dichloroethane-d4 (S) | 95 | % | 70-130 | 5 | | 12/07/16 21:38 | 17060-07-0 | |
| Toluene-d8 (S) | 105 | % | 70-130 | 5 | | 12/07/16 21:38 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: KINDERMORGAN-LEWIS 669228.I
Pace Project No.: 92321772

| Sample: MW-23B-120216 | Lab ID: 92321772004 | Collected: 12/02/16 09:40 | Received: 12/03/16 09:15 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/06/16 19:27 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/06/16 19:27 | 107-06-2 | |
| Ethylbenzene | 1.4 | ug/L | 1.0 | 1 | | 12/06/16 19:27 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/06/16 19:27 | 1634-04-4 | |
| Naphthalene | 1.3 | ug/L | 1.0 | 1 | | 12/06/16 19:27 | 91-20-3 | |
| Toluene | 3.5 | ug/L | 1.0 | 1 | | 12/06/16 19:27 | 108-88-3 | |
| Xylene (Total) | 11.0 | ug/L | 1.0 | 1 | | 12/06/16 19:27 | 1330-20-7 | |
| m&p-Xylene | 6.6 | ug/L | 2.0 | 1 | | 12/06/16 19:27 | 179601-23-1 | |
| o-Xylene | 4.4 | ug/L | 1.0 | 1 | | 12/06/16 19:27 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 103 | % | 70-130 | 1 | | 12/06/16 19:27 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 95 | % | 70-130 | 1 | | 12/06/16 19:27 | 17060-07-0 | |
| Toluene-d8 (S) | 108 | % | 70-130 | 1 | | 12/06/16 19:27 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: KINDERMORGAN-LEWIS 669228.I

Pace Project No.: 92321772

| Sample: MW-27B-120216 | Lab ID: 92321772005 | Collected: 12/02/16 11:45 | Received: 12/03/16 09:15 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/06/16 19:43 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/06/16 19:43 | 107-06-2 | |
| Ethylbenzene | 5.3 | ug/L | 1.0 | 1 | | 12/06/16 19:43 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/06/16 19:43 | 1634-04-4 | |
| Naphthalene | 8.9 | ug/L | 1.0 | 1 | | 12/06/16 19:43 | 91-20-3 | |
| Toluene | 9.1 | ug/L | 1.0 | 1 | | 12/06/16 19:43 | 108-88-3 | |
| Xylene (Total) | 45.7 | ug/L | 1.0 | 1 | | 12/06/16 19:43 | 1330-20-7 | |
| m&p-Xylene | 27.1 | ug/L | 2.0 | 1 | | 12/06/16 19:43 | 179601-23-1 | |
| o-Xylene | 18.6 | ug/L | 1.0 | 1 | | 12/06/16 19:43 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 105 | % | 70-130 | 1 | | 12/06/16 19:43 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 70-130 | 1 | | 12/06/16 19:43 | 17060-07-0 | |
| Toluene-d8 (S) | 110 | % | 70-130 | 1 | | 12/06/16 19:43 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: KINDERMORGAN-LEWIS 669228.I
Pace Project No.: 92321772

| Sample: TB-01-120216 | Lab ID: 92321772006 | Collected: 12/02/16 12:10 | Received: 12/03/16 09:15 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/06/16 16:45 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/06/16 16:45 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/06/16 16:45 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/06/16 16:45 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/06/16 16:45 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/06/16 16:45 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/06/16 16:45 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/06/16 16:45 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/06/16 16:45 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 70-130 | 1 | | 12/06/16 16:45 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 70-130 | 1 | | 12/06/16 16:45 | 17060-07-0 | |
| Toluene-d8 (S) | 107 | % | 70-130 | 1 | | 12/06/16 16:45 | 2037-26-5 | |

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: KINDERMORGAN-LEWIS 669228.I
Pace Project No.: 92321772

QC Batch: 339571 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92321772001, 92321772002, 92321772004, 92321772005, 92321772006

METHOD BLANK: 1883063 Matrix: Water
Associated Lab Samples: 92321772001, 92321772002, 92321772004, 92321772005, 92321772006

| Parameter | Units | Blank | Reporting | Analyzed | Qualifiers |
|---------------------------|-------|--------|-----------|----------------|------------|
| | | Result | Limit | | |
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 12/06/16 16:12 | |
| Benzene | ug/L | ND | 1.0 | 12/06/16 16:12 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/06/16 16:12 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/06/16 16:12 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 12/06/16 16:12 | |
| Naphthalene | ug/L | ND | 1.0 | 12/06/16 16:12 | |
| o-Xylene | ug/L | ND | 1.0 | 12/06/16 16:12 | |
| Toluene | ug/L | ND | 1.0 | 12/06/16 16:12 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/06/16 16:12 | |
| 1,2-Dichloroethane-d4 (S) | % | 92 | 70-130 | 12/06/16 16:12 | |
| 4-Bromofluorobenzene (S) | % | 101 | 70-130 | 12/06/16 16:12 | |
| Toluene-d8 (S) | % | 108 | 70-130 | 12/06/16 16:12 | |

LABORATORY CONTROL SAMPLE: 1883064

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | 50 | 50.8 | 102 | 70-130 | |
| Benzene | ug/L | 50 | 52.4 | 105 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 50.3 | 101 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 99.1 | 99 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 48.9 | 98 | 70-130 | |
| Naphthalene | ug/L | 50 | 49.6 | 99 | 70-130 | |
| o-Xylene | ug/L | 50 | 49.9 | 100 | 70-130 | |
| Toluene | ug/L | 50 | 48.3 | 97 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 149 | 99 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 108 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 99 | 70-130 | |
| Toluene-d8 (S) | % | | | 95 | 70-130 | |

MATRIX SPIKE SAMPLE: 1883066

| Parameter | Units | 92321737004 | | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|----|-------------|-----------|----------|--------------|------------|
| | | Result | | | | | | |
| 1,2-Dichloroethane | ug/L | | ND | 20 | 22.6 | 112 | 70-130 | |
| Benzene | ug/L | | ND | 20 | 23.3 | 117 | 70-130 | |
| Ethylbenzene | ug/L | | ND | 20 | 22.8 | 114 | 70-130 | |
| m&p-Xylene | ug/L | | ND | 40 | 45.9 | 115 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | | ND | 20 | 17.3 | 86 | 70-130 | |
| Naphthalene | ug/L | | ND | 20 | 19.3 | 96 | 70-130 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: KINDERMORGAN-LEWIS 669228.I
Pace Project No.: 92321772

| MATRIX SPIKE SAMPLE: | | 1883066 | 92321737004 | | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|---------|-------------|----|-------------|-----------|----------|--------------|------------|
| Parameter | Units | | Result | | | | | | |
| o-Xylene | ug/L | | ND | 20 | | 22.7 | 113 | 70-130 | |
| Toluene | ug/L | | ND | 20 | | 22.5 | 112 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 101 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 101 | 70-130 | |
| Toluene-d8 (S) | % | | | | | | 98 | 70-130 | |

SAMPLE DUPLICATE: 1883065

| | | 92321737003 | Dup Result | RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-----|------------|
| Parameter | Units | Result | | | |
| 1,2-Dichloroethane | ug/L | 2.8 | 3.1 | 8 | |
| Benzene | ug/L | 2.0 | 2.2 | 8 | |
| Ethylbenzene | ug/L | ND | ND | | |
| m&p-Xylene | ug/L | ND | ND | | |
| Methyl-tert-butyl ether | ug/L | ND | ND | | |
| Naphthalene | ug/L | ND | ND | | |
| o-Xylene | ug/L | ND | ND | | |
| Toluene | ug/L | ND | ND | | |
| Xylene (Total) | ug/L | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 91 | 96 | 5 | |
| 4-Bromofluorobenzene (S) | % | 103 | 104 | 1 | |
| Toluene-d8 (S) | % | 109 | 108 | 1 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: KINDERMORGAN-LEWIS 669228.I

Pace Project No.: 92321772

| | | | |
|-------------------------|-------------|-----------------------|-----------------------|
| QC Batch: | 339789 | Analysis Method: | EPA 8260 |
| QC Batch Method: | EPA 8260 | Analysis Description: | 8260 MSV Low Level SC |
| Associated Lab Samples: | 92321772003 | | |

METHOD BLANK: 1884447 Matrix: Water

Associated Lab Samples: 92321772003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 12/07/16 14:54 | |
| Benzene | ug/L | ND | 1.0 | 12/07/16 14:54 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/07/16 14:54 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/07/16 14:54 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 12/07/16 14:54 | |
| Naphthalene | ug/L | ND | 1.0 | 12/07/16 14:54 | |
| o-Xylene | ug/L | ND | 1.0 | 12/07/16 14:54 | |
| Toluene | ug/L | ND | 1.0 | 12/07/16 14:54 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/07/16 14:54 | |
| 1,2-Dichloroethane-d4 (S) | % | 91 | 70-130 | 12/07/16 14:54 | |
| 4-Bromofluorobenzene (S) | % | 100 | 70-130 | 12/07/16 14:54 | |
| Toluene-d8 (S) | % | 108 | 70-130 | 12/07/16 14:54 | |

LABORATORY CONTROL SAMPLE: 1884448

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | 50 | 49.7 | 99 | 70-130 | |
| Benzene | ug/L | 50 | 52.8 | 106 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 50.1 | 100 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 100 | 100 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 47.0 | 94 | 70-130 | |
| Naphthalene | ug/L | 50 | 50.2 | 100 | 70-130 | |
| o-Xylene | ug/L | 50 | 50.9 | 102 | 70-130 | |
| Toluene | ug/L | 50 | 47.6 | 95 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 151 | 101 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 102 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 99 | 70-130 | |
| Toluene-d8 (S) | % | | | 94 | 70-130 | |

MATRIX SPIKE SAMPLE: 1884449

| Parameter | Units | 92321791054 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 400 | 428 | 107 | 70-130 | |
| Benzene | ug/L | 134 | 400 | 615 | 120 | 70-130 | |
| Ethylbenzene | ug/L | 1470 | 400 | 1820 | 87 | 70-130 | |
| m&p-Xylene | ug/L | 2970 | 800 | 3590 | 77 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | ND | 400 | 374 | 93 | 70-130 | |
| Naphthalene | ug/L | 841 | 400 | 1230 | 97 | 70-130 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KINDERMORGAN-LEWIS 669228.I
Pace Project No.: 92321772

| MATRIX SPIKE SAMPLE: 1884449 | | 92321791054 Result | Spike | MS | MS | % Rec | % Rec Limits | Qualifiers |
|------------------------------|-------|-----------------------|-------|--------|-------|--------|-----------------|------------|
| Parameter | Units | | Conc. | Result | % Rec | | | |
| o-Xylene | ug/L | 2230 | 400 | 2480 | 63 | 70-130 | M1 | |
| Toluene | ug/L | 1290 | 400 | 1510 | 55 | 70-130 | M1 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 98 | 70-130 | | |
| 4-Bromofluorobenzene (S) | % | | | | 96 | 70-130 | | |
| Toluene-d8 (S) | % | | | | 99 | 70-130 | | |

SAMPLE DUPLICATE: 1884450

| Parameter | Units | 92321746002 | | RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-----|------------|
| | | Result | Dup Result | | |
| 1,2-Dichloroethane | ug/L | ND | ND | | |
| Benzene | ug/L | ND | ND | | |
| Ethylbenzene | ug/L | 3.9J | ND | | |
| m&p-Xylene | ug/L | 8.7J | ND | | |
| Methyl-tert-butyl ether | ug/L | ND | ND | | |
| Naphthalene | ug/L | 5.5J | ND | | |
| o-Xylene | ug/L | 2.9J | ND | | |
| Toluene | ug/L | ND | ND | | |
| Xylene (Total) | ug/L | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 95 | 94 | 1 | |
| 4-Bromofluorobenzene (S) | % | 101 | 98 | 4 | |
| Toluene-d8 (S) | % | 109 | 108 | 1 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: KINDERMORGAN-LEWIS 669228.I

Pace Project No.: 92321772

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KINDERMORGAN-LEWIS 669228.I

Pace Project No.: 92321772

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|-----------------|----------|-------------------|------------------|
| 92321772001 | FB-01-120216 | EPA 8260 | 339571 | | |
| 92321772002 | MW-06-120216 | EPA 8260 | 339571 | | |
| 92321772003 | MW-23-120216 | EPA 8260 | 339789 | | |
| 92321772004 | MW-23B-120216 | EPA 8260 | 339571 | | |
| 92321772005 | MW-27B-120216 | EPA 8260 | 339571 | | |
| 92321772006 | TB-01-120216 | EPA 8260 | 339571 | | |

REPORT OF LABORATORY ANALYSIS

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| | | |
|--|--|---|
|  | Document Name: Sample Condition Upon Receipt(SCUR) | Document Revised: Sept. 21, 2016 Page 1 of 2 |
| | Document No.: F-CAR-CS-033-Rev.01 | Issuing Authority: Pace Quality Office |

Laboratory receiving samples:
Asheville Eden Greenwood Huntersville Raleigh Mechanicsville **Sample Condition Upon Receipt**

Client Name:

CH2m

Project #:

WO# : 92321772

92321772

Courier:

 Commercial FedEx UPS USPS Client Pace Other: _____

Custody Seal Present?

 Yes No

Seals Intact?

 Yes No

Packing Material:

 Bubble Wrap Bubble Bags None Other: _____Date/Initials Person Examining Contents: JM/2/13

Thermometer:

 IR Gun ID: T11403Cooler Temp Corrected (°C): 30

Type of Ice:

 Wet Blue None Samples on ice, cooling process has begun

Correction Factor:

 M/A, water sample

Temp should be above freezing to 6°C

Biological Tissue Frozen? Yes No N/A Yes NoDid samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No N/A Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No N/A

| Comments/Discrepancy: |
|--|
| Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 1. |
| Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 2. |
| Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A 3. |
| Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A 4. |
| Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 5. |
| Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 6. |
| -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 7. |
| Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 8. Note if sediment is visible in the dissolved container |
| Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 9. |
| -Includes Date/Time/ID/Analysis Matrix: <u>WT</u> |
| Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A 10. |
| Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 11. |
| Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |

CLIENT NOTIFICATION/RESOLUTIONField Data Required? Yes No

Person Contacted:

Comments/Sample

Discrepancy:

Date/Time: _____

Project Manager SCURF Review:

Date: 12/5/16

Project Manager SRF Review:

Date: 12/5/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)



Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.01

Document Revised: Sept. 21, 2016

Page 2 of 2

Issuing Authority:

WO# : 92321772

PM: KRG Due Date: 12/12/16
CLIENT: 92-KinderCH2

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Project

PM: KRG Due Date: 12/12/16
CLIENT: 92-KinderCH2

****Bottom half of box is to list number of bottles**

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) |
|-------|---|
| 1 | BP3U-250 mL Plastic Unpreserved (N/A) |
| 2 | BP2U-500 mL Plastic Unpreserved (N/A) |
| 3 | BP1U-1 liter Plastic Unpreserved (N/A) |
| 4 | BP3S-250 mL Plastic H2SO4 (pH < 2) (Cl-) |
| 5 | BP3N-250 mL plastic HNO3 (pH < 2) |
| 6 | BP3Z-250 mL Plastic Zn Acetate & NaOH (>9) |
| 7 | BP3C-250 mL Plastic NaOH (pH > 12) (Cl-) |
| 8 | WGFU-Wide-mouthed Glass jar Unpreserved |
| 9 | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) |
| 10 | AG1H-1 liter Amber HCl (pH < 2) |
| 11 | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) |
| 12 | AG1S-1 liter Amber H2SO4 (pH < 2) |
| 13 | AG3S-250 mL Amber H2SO4 (pH < 2) |
| 14 | AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-) |
| 15 | DG9H-40 mL VOA HCl (N/A) |
| 16 | VG9T-40 mL VOA Na2S2O3 (N/A) |
| 17 | VG9U-40 mL VOA Unp (N/A) |
| 18 | DG9P-40 mL VOA H3PO4 (N/A) |
| 19 | VOAK (6 vials per kit)-5035 kit (N/A) |
| 20 | V/GK (3 vials per kit)-VPH/Gas kit (N/A) |
| 21 | SPST-125 mL Sterile Plastic (N/A - lab) |
| 22 | SP2T-250 mL Sterile Plastic (N/A - lab) |
| 23 | BP3A-250 mL Plastic (NH4)2SO4 (9.3-9.7) |
| 24 | Cubitainer |
| 25 | VSGU-20 mL Scintillation vials (N/A) |
| 26 | GN |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a **LEGAL DOCUMENT**. All relevant fields must be completed accurately.

| Section A | | Section B | | Section C | |
|------------------------------|--|-------------------------------|---------------------------------|----------------------|------------------------------|
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company | CH2M | Report To | Wiley, Tom | Attention | Jerry Fosse |
| Address | 6500 Peachtree Dunwoody Rd | Copy To | Brett L. Govey R. J. Johnson | Company Name | Frontier Financial Group LLC |
| | 400 Embassy Row Ste 800, Atlanta, GA 30328 | Purchase Order # | | Address | 1000 Peachtree Street NE |
| Email | CH2M@CH2M.com | Project Name | Kindergarten Revs Dr | Phone | (404) 522-1124 |
| Phone | (404) 522-1124 | Project # | 0001-2001-01 | Fax | |
| Requested Due Date | 2/28/2005 | Page Profile # | 7463-3 | Regulatory Agency | |

| ITEM # | COLLECTED | | Preservatives |
|--------------------------------|----------------|---|---------------|
| | MATRIX CODE | CODE | |
| 1 | F3-01-1202160 | DW | |
| 2 | MN-01-1202160 | WT WW | |
| 3 | MN-23-1202160 | P SL | |
| 4 | MN-23B-1202160 | OL Wipe | |
| 5 | MN-27B-1202160 | AR WR | |
| 6 | TB-01-1202160 | AT Other | |
| 7 | | TS | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| ADDITIONAL COMMENTS | | SAMPLE ID | |
| | | One Character per box. (A-Z, 0-9, +) | |
| | | Sample IDs must be unique | |
| | | MATERIAL CODE (see valid codes to left) | |
| | | SAMPLE TYPE (G=GRAB C=COMP) | |
| | DATE | TIME | DATE |
| | | | TIME |
| SAMPLE TEMP AT COLLECTION | | | |
| # OF CONTAINERS | | | |
| Unpreserved | | | |
| H2SO4 | | | |
| HNO3 | | | |
| HCl | | | |
| NaOH | | | |
| Na2S2O3 | | | |
| Methanol | | | |
| Other | | | |
| Analyses Test Y/N | | | |
| Trip BLANK | | | |
| 8260 (BTExMN+12DCA) | | | |
| Nitrate | | | |
| Alkalinity, Sulfate | | | |
| Carbon Dioxide AM20GAX | | | |
| Methane by RSK-175 | | | |
| DI Water | | | |
| RELIQUIDIFIED BY / AFFILIATION | | DATE | TIME |
| ACCEPTED BY / AFFILIATION | | DATE | TIME |

| | |
|--------------------------------------|--------------------------|
| SAMPLER NAME AND SIGNATURE | |
| PRINT Name of SAMPLER: | Justine M. McCann |
| SIGNATURE of SAMPLER: | <i>Justine M. McCann</i> |
| DATE Signed: 12/2/16 | |
| TEMP in C | |
| Received on Ice (Y/N) | |
| Custody Sealed Cooler (Y/N) | |
| Samples Intact (Y/N) | |

December 20, 2016

Bill Waldron
CH2M HILL
1717 Arch St
Suite 4400
Glenside, PA 19038

RE: Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

Dear Bill Waldron:

Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Bethany Garvey, CH2M HILL
Scott Powell, CH2M
Tom Wiley, CH2M



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------------|------------------|----------|-------------------|------------|
| 92322318001 | MW-08-120616 | RSK 175 Modified | WDV | 1 | PASI-C |
| | | EPA 8260 | GAW | 12 | PASI-C |
| | | SM 2320B | KDF | 1 | PASI-A |
| | | EPA 300.0 | AES2 | 1 | PASI-A |
| | | EPA 353.2 | WRC | 1 | PASI-A |
| 92322318002 | MW-03-120616 | RSK 175 Modified | WDV | 1 | PASI-C |
| | | EPA 8260 | GAW | 12 | PASI-C |
| | | SM 2320B | KDF | 1 | PASI-A |
| | | EPA 300.0 | AES2 | 1 | PASI-A |
| | | EPA 353.2 | WRC | 1 | PASI-A |
| 92322318003 | MW-10-120616 | RSK 175 Modified | WDV | 1 | PASI-C |
| | | EPA 8260 | GAW | 12 | PASI-C |
| | | SM 2320B | KDF | 1 | PASI-A |
| | | EPA 300.0 | AES2 | 1 | PASI-A |
| | | EPA 353.2 | WRC | 1 | PASI-A |
| 92322318004 | MW-32-120616 | RSK 175 Modified | WDV | 1 | PASI-C |
| | | EPA 8260 | GAW | 12 | PASI-C |
| | | SM 2320B | KDF | 1 | PASI-A |
| | | EPA 300.0 | AES2 | 1 | PASI-A |
| | | EPA 353.2 | WRC | 1 | PASI-A |
| 92322318005 | MW-04-120616 | RSK 175 Modified | WDV | 1 | PASI-C |
| | | EPA 8260 | GAW | 12 | PASI-C |
| | | SM 2320B | KDF | 1 | PASI-A |
| | | EPA 300.0 | AES2 | 1 | PASI-A |
| | | EPA 353.2 | WRC | 1 | PASI-A |
| 92322318006 | TRIP BLANK-120616 | EPA 8260 | GAW | 12 | PASI-C |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

| Sample: MW-08-120616 | Lab ID: 92322318001 | Collected: 12/06/16 15:40 | Received: 12/07/16 11:10 | Matrix: Water | | | | |
|---------------------------------------|-------------------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| RSK 175 Headspace | Analytical Method: RSK 175 Modified | | | | | | | |
| Methane | 18.6 | ug/L | 10.0 | 1 | | 12/19/16 12:48 | 74-82-8 | N2 |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/08/16 21:38 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/08/16 21:38 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/08/16 21:38 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/08/16 21:38 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/08/16 21:38 | 91-20-3 | |
| Toluene | 14.4 | ug/L | 1.0 | 1 | | 12/08/16 21:38 | 108-88-3 | |
| Xylene (Total) | 7.1 | ug/L | 1.0 | 1 | | 12/08/16 21:38 | 1330-20-7 | |
| m&p-Xylene | 4.8 | ug/L | 2.0 | 1 | | 12/08/16 21:38 | 179601-23-1 | |
| o-Xylene | 2.3 | ug/L | 1.0 | 1 | | 12/08/16 21:38 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 1 | | 12/08/16 21:38 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 92 | % | 70-130 | 1 | | 12/08/16 21:38 | 17060-07-0 | |
| Toluene-d8 (S) | 109 | % | 70-130 | 1 | | 12/08/16 21:38 | 2037-26-5 | |
| 2320B Alkalinity | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 1 | | 12/08/16 19:03 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 | | | | | | | |
| Sulfate | ND | mg/L | 2.0 | 1 | | 12/09/16 16:19 | 14808-79-8 | |
| 353.2 Nitrogen, NO2/NO3 unpres | Analytical Method: EPA 353.2 | | | | | | | |
| Nitrogen, Nitrate | ND | mg/L | 0.020 | 1 | | 12/07/16 19:26 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEWIS DRIVE-BELTON, SC

Pace Project No.: 92322318

| Sample: MW-03-120616 | Lab ID: 92322318002 | Collected: 12/06/16 14:00 | Received: 12/07/16 11:10 | Matrix: Water | | | | |
|---------------------------------------|-------------------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| RSK 175 Headspace | Analytical Method: RSK 175 Modified | | | | | | | |
| Methane | 14.5 | ug/L | 10.0 | 1 | | 12/19/16 13:03 | 74-82-8 | N2 |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | 61.1 | ug/L | 2.0 | 2 | | 12/11/16 18:45 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 2.0 | 2 | | 12/11/16 18:45 | 107-06-2 | |
| Ethylbenzene | 25.1 | ug/L | 2.0 | 2 | | 12/11/16 18:45 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 2.0 | 2 | | 12/11/16 18:45 | 1634-04-4 | |
| Naphthalene | 3.6 | ug/L | 2.0 | 2 | | 12/11/16 18:45 | 91-20-3 | |
| Toluene | 229 | ug/L | 2.0 | 2 | | 12/11/16 18:45 | 108-88-3 | |
| Xylene (Total) | 330 | ug/L | 2.0 | 2 | | 12/11/16 18:45 | 1330-20-7 | |
| m&p-Xylene | 212 | ug/L | 4.0 | 2 | | 12/11/16 18:45 | 179601-23-1 | |
| o-Xylene | 119 | ug/L | 2.0 | 2 | | 12/11/16 18:45 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 2 | | 12/11/16 18:45 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 99 | % | 70-130 | 2 | | 12/11/16 18:45 | 17060-07-0 | |
| Toluene-d8 (S) | 106 | % | 70-130 | 2 | | 12/11/16 18:45 | 2037-26-5 | |
| 2320B Alkalinity | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 13.6 | mg/L | 5.0 | 1 | | 12/08/16 19:11 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 | | | | | | | |
| Sulfate | ND | mg/L | 2.0 | 1 | | 12/09/16 16:28 | 14808-79-8 | |
| 353.2 Nitrogen, NO2/NO3 unpres | Analytical Method: EPA 353.2 | | | | | | | |
| Nitrogen, Nitrate | 0.037 | mg/L | 0.020 | 1 | | 12/07/16 19:22 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

| Sample: MW-10-120616 | Lab ID: 92322318003 | Collected: 12/06/16 10:55 | Received: 12/07/16 11:10 | Matrix: Water | | | | |
|---------------------------------------|-------------------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| RSK 175 Headspace | Analytical Method: RSK 175 Modified | | | | | | | |
| Methane | ND | ug/L | 10.0 | 1 | | 12/19/16 13:18 | 74-82-8 | N2 |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/08/16 21:55 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/08/16 21:55 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/08/16 21:55 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/08/16 21:55 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/08/16 21:55 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/08/16 21:55 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/08/16 21:55 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/08/16 21:55 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/08/16 21:55 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 70-130 | 1 | | 12/08/16 21:55 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 70-130 | 1 | | 12/08/16 21:55 | 17060-07-0 | |
| Toluene-d8 (S) | 109 | % | 70-130 | 1 | | 12/08/16 21:55 | 2037-26-5 | |
| 2320B Alkalinity | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 1 | | 12/08/16 19:22 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 | | | | | | | |
| Sulfate | ND | mg/L | 2.0 | 1 | | 12/09/16 16:55 | 14808-79-8 | |
| 353.2 Nitrogen, NO2/NO3 unpres | Analytical Method: EPA 353.2 | | | | | | | |
| Nitrogen, Nitrate | 3.3 | mg/L | 0.020 | 1 | | 12/07/16 19:17 | | |

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ANALYTICAL RESULTS

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

| Sample: MW-32-120616 | Lab ID: 92322318004 | Collected: 12/06/16 14:30 | Received: 12/07/16 11:10 | Matrix: Water | | | | |
|---------------------------------------|-------------------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| RSK 175 Headspace | Analytical Method: RSK 175 Modified | | | | | | | |
| Methane | ND | ug/L | 10.0 | 1 | | 12/19/16 13:33 | 74-82-8 | N2 |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/08/16 22:11 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/08/16 22:11 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/08/16 22:11 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/08/16 22:11 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/08/16 22:11 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/08/16 22:11 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/08/16 22:11 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/08/16 22:11 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/08/16 22:11 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | 1 | | 12/08/16 22:11 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 96 | % | 70-130 | 1 | | 12/08/16 22:11 | 17060-07-0 | |
| Toluene-d8 (S) | 106 | % | 70-130 | 1 | | 12/08/16 22:11 | 2037-26-5 | |
| 2320B Alkalinity | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 1 | | 12/08/16 19:30 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 | | | | | | | |
| Sulfate | ND | mg/L | 2.0 | 1 | | 12/09/16 17:05 | 14808-79-8 | |
| 353.2 Nitrogen, NO2/NO3 unpres | Analytical Method: EPA 353.2 | | | | | | | |
| Nitrogen, Nitrate | 3.3 | mg/L | 0.020 | 1 | | 12/07/16 19:23 | | |

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ANALYTICAL RESULTS

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

| Sample: MW-04-120616 | Lab ID: 92322318005 | Collected: 12/06/16 15:35 | Received: 12/07/16 11:10 | Matrix: Water | | | | |
|---------------------------------------|-------------------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| RSK 175 Headspace | Analytical Method: RSK 175 Modified | | | | | | | |
| Methane | ND | ug/L | 10.0 | 1 | | 12/19/16 13:49 | 74-82-8 | N2 |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/08/16 22:27 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/08/16 22:27 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/08/16 22:27 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/08/16 22:27 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/08/16 22:27 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/08/16 22:27 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/08/16 22:27 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/08/16 22:27 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/08/16 22:27 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | 1 | | 12/08/16 22:27 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 70-130 | 1 | | 12/08/16 22:27 | 17060-07-0 | |
| Toluene-d8 (S) | 107 | % | 70-130 | 1 | | 12/08/16 22:27 | 2037-26-5 | |
| 2320B Alkalinity | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 1 | | 12/08/16 19:38 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 | | | | | | | |
| Sulfate | ND | mg/L | 2.0 | 1 | | 12/09/16 17:14 | 14808-79-8 | |
| 353.2 Nitrogen, NO2/NO3 unpres | Analytical Method: EPA 353.2 | | | | | | | |
| Nitrogen, Nitrate | 0.34 | mg/L | 0.020 | 1 | | 12/07/16 19:25 | | |

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ANALYTICAL RESULTS

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

| Sample: TRIP BLANK-120616 | Lab ID: 92322318006 | Collected: 12/06/16 16:50 | Received: 12/07/16 11:10 | Matrix: Water | | | | |
|------------------------------|---------------------|---------------------------|--------------------------|---------------|----------|----------|----------------|-----------------------------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | | | | | | | Analytical Method: EPA 8260 |
| Benzene | ND | ug/L | 1.0 | 1 | | | 12/08/16 15:32 | 71-43-2 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | | 12/08/16 15:32 | 107-06-2 |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | | 12/08/16 15:32 | 100-41-4 |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | | 12/08/16 15:32 | 1634-04-4 |
| Naphthalene | ND | ug/L | 1.0 | 1 | | | 12/08/16 15:32 | 91-20-3 |
| Toluene | ND | ug/L | 1.0 | 1 | | | 12/08/16 15:32 | 108-88-3 |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | | 12/08/16 15:32 | 1330-20-7 |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | | 12/08/16 15:32 | 179601-23-1 |
| o-Xylene | ND | ug/L | 1.0 | 1 | | | 12/08/16 15:32 | 95-47-6 |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | 1 | | | 12/08/16 15:32 | 460-00-4 |
| 1,2-Dichloroethane-d4 (S) | 96 | % | 70-130 | 1 | | | 12/08/16 15:32 | 17060-07-0 |
| Toluene-d8 (S) | 109 | % | 70-130 | 1 | | | 12/08/16 15:32 | 2037-26-5 |

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC

Pace Project No.: 92322318

| | | | |
|-------------------------|---|-----------------------|-------------------|
| QC Batch: | 340608 | Analysis Method: | RSK 175 Modified |
| QC Batch Method: | RSK 175 Modified | Analysis Description: | RSK 175 HEADSPACE |
| Associated Lab Samples: | 92322318001, 92322318002, 92322318003, 92322318004, 92322318005 | | |

METHOD BLANK: 1889025 Matrix: Water

Associated Lab Samples: 92322318001, 92322318002, 92322318003, 92322318004, 92322318005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Methane | ug/L | ND | 10.0 | 12/19/16 10:15 | N2 |

LABORATORY CONTROL SAMPLE: 1889026

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Methane | ug/L | 396 | 468 | 118 | 70-130 | N2 |

MATRIX SPIKE SAMPLE: 1895780

| Parameter | Units | 92322244007 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Methane | ug/L | ND | 396 | 475 | 120 | 70-130 | N2 |

SAMPLE DUPLICATE: 1895781

| Parameter | Units | 92322244008 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Methane | ug/L | ND | ND | | N2 |

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC

Pace Project No.: 92322318

QC Batch: 340011 Analysis Method: EPA 8260

QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC

Associated Lab Samples: 92322318006

METHOD BLANK: 1885830 Matrix: Water

Associated Lab Samples: 92322318006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 12/08/16 11:23 | |
| Benzene | ug/L | ND | 1.0 | 12/08/16 11:23 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/08/16 11:23 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/08/16 11:23 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 12/08/16 11:23 | |
| Naphthalene | ug/L | ND | 1.0 | 12/08/16 11:23 | |
| o-Xylene | ug/L | ND | 1.0 | 12/08/16 11:23 | |
| Toluene | ug/L | ND | 1.0 | 12/08/16 11:23 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/08/16 11:23 | |
| 1,2-Dichloroethane-d4 (S) | % | 96 | 70-130 | 12/08/16 11:23 | |
| 4-Bromofluorobenzene (S) | % | 98 | 70-130 | 12/08/16 11:23 | |
| Toluene-d8 (S) | % | 106 | 70-130 | 12/08/16 11:23 | |

LABORATORY CONTROL SAMPLE: 1885831

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | 50 | 46.5 | 93 | 70-130 | |
| Benzene | ug/L | 50 | 50.5 | 101 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 48.2 | 96 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 96.0 | 96 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 55.5 | 111 | 70-130 | |
| Naphthalene | ug/L | 50 | 50.8 | 102 | 70-130 | |
| o-Xylene | ug/L | 50 | 48.0 | 96 | 70-130 | |
| Toluene | ug/L | 50 | 47.7 | 95 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 144 | 96 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 98 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 100 | 70-130 | |
| Toluene-d8 (S) | % | | | 97 | 70-130 | |

MATRIX SPIKE SAMPLE: 1885833

| Parameter | Units | 92322078005 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 20 | 21.2 | 106 | 70-130 | |
| Benzene | ug/L | ND | 20 | 23.1 | 116 | 70-130 | |
| Ethylbenzene | ug/L | ND | 20 | 22.4 | 112 | 70-130 | |
| m&p-Xylene | ug/L | ND | 40 | 45.2 | 113 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 21.5 | 107 | 70-130 | |
| Naphthalene | ug/L | ND | 20 | 19.3 | 94 | 70-130 | |

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

| MATRIX SPIKE SAMPLE: 1885833 | | 92322078005 Result | Spike | MS | MS | % Rec | Qualifiers |
|------------------------------|-------|-----------------------|-------|--------|-------|--------|------------|
| Parameter | Units | | Conc. | Result | % Rec | Limits | |
| o-Xylene | ug/L | ND | 20 | 22.6 | 113 | 70-130 | |
| Toluene | ug/L | ND | 20 | 22.0 | 110 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 107 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 103 | 70-130 | |
| Toluene-d8 (S) | % | | | | 98 | 70-130 | |

SAMPLE DUPLICATE: 1885832

| Parameter | Units | 92322078004 | Dup | RPD | Qualifiers |
|---------------------------|-------|-------------|--------|-----|------------|
| | | Result | Result | | |
| 1,2-Dichloroethane | ug/L | ND | ND | | |
| Benzene | ug/L | ND | ND | | |
| Ethylbenzene | ug/L | ND | ND | | |
| m&p-Xylene | ug/L | ND | ND | | |
| Methyl-tert-butyl ether | ug/L | ND | ND | | |
| Naphthalene | ug/L | ND | ND | | |
| o-Xylene | ug/L | ND | ND | | |
| Toluene | ug/L | ND | ND | | |
| Xylene (Total) | ug/L | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 99 | 95 | 4 | |
| 4-Bromofluorobenzene (S) | % | 100 | 99 | 1 | |
| Toluene-d8 (S) | % | 105 | 104 | 1 | |

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC

Pace Project No.: 92322318

QC Batch: 340069 Analysis Method: EPA 8260

QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC

Associated Lab Samples: 92322318001, 92322318003, 92322318004, 92322318005

METHOD BLANK: 1886320 Matrix: Water

Associated Lab Samples: 92322318001, 92322318003, 92322318004, 92322318005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 12/08/16 21:06 | |
| Benzene | ug/L | ND | 1.0 | 12/08/16 21:06 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/08/16 21:06 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/08/16 21:06 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 12/08/16 21:06 | |
| Naphthalene | ug/L | ND | 1.0 | 12/08/16 21:06 | |
| o-Xylene | ug/L | ND | 1.0 | 12/08/16 21:06 | |
| Toluene | ug/L | ND | 1.0 | 12/08/16 21:06 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/08/16 21:06 | |
| 1,2-Dichloroethane-d4 (S) | % | 92 | 70-130 | 12/08/16 21:06 | |
| 4-Bromofluorobenzene (S) | % | 98 | 70-130 | 12/08/16 21:06 | |
| Toluene-d8 (S) | % | 106 | 70-130 | 12/08/16 21:06 | |

LABORATORY CONTROL SAMPLE: 1886321

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | 50 | 50.6 | 101 | 70-130 | |
| Benzene | ug/L | 50 | 56.1 | 112 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 52.1 | 104 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 102 | 102 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 48.1 | 96 | 70-130 | |
| Naphthalene | ug/L | 50 | 50.7 | 101 | 70-130 | |
| o-Xylene | ug/L | 50 | 51.4 | 103 | 70-130 | |
| Toluene | ug/L | 50 | 49.8 | 100 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 153 | 102 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 105 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 96 | 70-130 | |
| Toluene-d8 (S) | % | | | 94 | 70-130 | |

MATRIX SPIKE SAMPLE: 1886790

| Parameter | Units | 92322499013 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 20 | 20.8 | 104 | 70-130 | |
| Benzene | ug/L | ND | 20 | 22.5 | 112 | 70-130 | |
| Ethylbenzene | ug/L | ND | 20 | 22.4 | 112 | 70-130 | |
| m&p-Xylene | ug/L | ND | 40 | 46.0 | 115 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 17.2 | 86 | 70-130 | |
| Naphthalene | ug/L | ND | 20 | 19.5 | 98 | 70-130 | |

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

| MATRIX SPIKE SAMPLE: | 1886790 | | | | | | |
|---------------------------|---------|-------------|-------------|-----------|----------|--------------|------------|
| Parameter | Units | 92322499013 | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
| o-Xylene | ug/L | ND | 20 | 22.4 | 112 | 70-130 | |
| Toluene | ug/L | ND | 20 | 21.8 | 108 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 103 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 98 | 70-130 | |
| Toluene-d8 (S) | % | | | | 98 | 70-130 | |

SAMPLE DUPLICATE: 1886322

| Parameter | Units | 92322078008 | Dup Result | RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-----|------------|
| 1,2-Dichloroethane | ug/L | ND | 2J | | |
| Benzene | ug/L | ND | ND | | |
| Ethylbenzene | ug/L | ND | ND | | |
| m&p-Xylene | ug/L | ND | ND | | |
| Methyl-tert-butyl ether | ug/L | ND | ND | | |
| Naphthalene | ug/L | ND | ND | | |
| o-Xylene | ug/L | ND | ND | | |
| Toluene | ug/L | ND | ND | | |
| Xylene (Total) | ug/L | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 97 | 95 | 2 | |
| 4-Bromofluorobenzene (S) | % | 98 | 100 | 1 | |
| Toluene-d8 (S) | % | 108 | 108 | 0 | |

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

QC Batch: 340342 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92322318002

METHOD BLANK: 1887770 Matrix: Water

Associated Lab Samples: 92322318002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| Benzene | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/11/16 14:10 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| Naphthalene | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| o-Xylene | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| Toluene | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| 1,2-Dichloroethane-d4 (S) | % | 91 | 70-130 | 12/11/16 14:10 | |
| 4-Bromofluorobenzene (S) | % | 101 | 70-130 | 12/11/16 14:10 | |
| Toluene-d8 (S) | % | 109 | 70-130 | 12/11/16 14:10 | |

LABORATORY CONTROL SAMPLE: 1887771

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | 50 | 55.2 | 110 | 70-130 | |
| Benzene | ug/L | 50 | 58.8 | 118 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 54.4 | 109 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 105 | 105 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 50.7 | 101 | 70-130 | |
| Naphthalene | ug/L | 50 | 54.3 | 109 | 70-130 | |
| o-Xylene | ug/L | 50 | 52.9 | 106 | 70-130 | |
| Toluene | ug/L | 50 | 52.8 | 106 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 158 | 105 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 103 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 98 | 70-130 | |
| Toluene-d8 (S) | % | | | 98 | 70-130 | |

MATRIX SPIKE SAMPLE: 1887773

| Parameter | Units | 92322541007 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 1000 | 1080 | 108 | 70-130 | |
| Benzene | ug/L | 6320 | 1000 | 7900 | 158 | 70-130 M1 | |
| Ethylbenzene | ug/L | 682 | 1000 | 1860 | 118 | 70-130 | |
| m&p-Xylene | ug/L | 2330 | 2000 | 4620 | 115 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 311 | 1000 | 1210 | 89 | 70-130 | |
| Naphthalene | ug/L | 86.0 | 1000 | 1040 | 95 | 70-130 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

| MATRIX SPIKE SAMPLE: | 1887773 | | | | | | |
|---------------------------|---------|-------------|-------------|-----------|----------|--------------|------------|
| Parameter | Units | 92322541007 | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
| o-Xylene | ug/L | 1320 | 1000 | 2490 | 117 | 70-130 | |
| Toluene | ug/L | 1290 | 1000 | 2340 | 104 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 105 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 100 | 70-130 | |
| Toluene-d8 (S) | % | | | | 97 | 70-130 | |

SAMPLE DUPLICATE: 1887772

| Parameter | Units | 92322541003 | Dup Result | RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-----|------------|
| 1,2-Dichloroethane | ug/L | ND | ND | | |
| Benzene | ug/L | 6730 | 6510 | 3 | |
| Ethylbenzene | ug/L | 588 | 556 | 6 | |
| m&p-Xylene | ug/L | 2280 | 2160 | 5 | |
| Methyl-tert-butyl ether | ug/L | 373 | 347 | 7 | |
| Naphthalene | ug/L | 64.8 | 64.3 | 1 | |
| o-Xylene | ug/L | 1110 | 1080 | 3 | |
| Toluene | ug/L | 7460 | 7290 | 2 | |
| Xylene (Total) | ug/L | 3390 | 3240 | 4 | |
| 1,2-Dichloroethane-d4 (S) | % | 97 | 94 | 4 | |
| 4-Bromofluorobenzene (S) | % | 100 | 99 | 1 | |
| Toluene-d8 (S) | % | 101 | 103 | 3 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

QC Batch: 339922 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92322318001, 92322318002, 92322318003, 92322318004, 92322318005

METHOD BLANK: 1885386 Matrix: Water

Associated Lab Samples: 92322318001, 92322318002, 92322318003, 92322318004, 92322318005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO ₃ | mg/L | ND | 5.0 | 12/08/16 15:33 | |

LABORATORY CONTROL SAMPLE: 1885387

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO ₃ | mg/L | 50 | 49.4 | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1885388 1885389

| Parameter | Units | 92322244001 Result | MS Spike | MSD Spike | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|--|-------|--------------------|----------|-----------|-----------|------------|----------|-----------|--------------|-----|------|
| | | | Conc. | Conc. | | | | | | | |
| Alkalinity, Total as CaCO ₃ | mg/L | 11.9 | 50 | 50 | 59.5 | 62.8 | 95 | 102 | 80-120 | 6 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1885390 1885391

| Parameter | Units | 92322244011 Result | MS Spike | MSD Spike | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|--|-------|--------------------|----------|-----------|-----------|------------|----------|-----------|--------------|-----|------|
| | | | Conc. | Conc. | | | | | | | |
| Alkalinity, Total as CaCO ₃ | mg/L | 22.5 | 50 | 50 | 73.1 | 70.7 | 101 | 96 | 80-120 | 3 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

QC Batch: 340189 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92322318001, 92322318002, 92322318003, 92322318004, 92322318005

METHOD BLANK: 1886795 Matrix: Water

Associated Lab Samples: 92322318001, 92322318002, 92322318003, 92322318004, 92322318005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Sulfate | mg/L | ND | 2.0 | 12/09/16 15:06 | |

LABORATORY CONTROL SAMPLE: 1886796

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfate | mg/L | 20 | 18.9 | 94 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1886797 1886798

| Parameter | Units | MS Result | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|-----------|-------|-----------|-----------------|-----------|------------|----------|-----------|--------------|--------|------|
| Sulfate | mg/L | 398 | 20 | 20 | 417 | 409 | 98 | 58 | 90-110 | 2 M6 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1886799 1886800

| Parameter | Units | MS Result | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|-----------|-------|------------|-----------------|-----------|------------|----------|-----------|--------------|--------|------|
| Sulfate | mg/L | 10000 ug/L | 20 | 20 | 29.8 | 30.2 | 99 | 101 | 90-110 | 1 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

QC Batch: 339852 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92322318001, 92322318002, 92322318003, 92322318004, 92322318005

METHOD BLANK: 1885173 Matrix: Water

Associated Lab Samples: 92322318001, 92322318002, 92322318003, 92322318004, 92322318005

| Parameter | Units | Blank Result | | Reporting Limit | | Analyzed | Qualifiers |
|-------------------|-------|--------------|-------|-----------------|--|----------|------------|
| | | ND | 0.020 | 12/07/16 19:10 | | | |
| Nitrogen, Nitrate | mg/L | | | | | | |

LABORATORY CONTROL SAMPLE: 1885174

| Parameter | Units | Spike Conc. | | LCS Result | | LCS % Rec | | % Rec Limits | | Qualifiers |
|-------------------|-------|-------------|-----|------------|--------|-----------|--|--------------|--|------------|
| | | 2.5 | 2.7 | 107 | 90-110 | | | | | |
| Nitrogen, Nitrate | mg/L | | | | | | | | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1885175 1885176

| Parameter | Units | 92322318003 Result | MS Spike Conc. | | MSD Spike Conc. | | MS Result | | MSD Result | | MS % Rec | | MSD % Rec | | % Rec Limits | | RPD | Qual |
|-------------------|-------|--------------------|----------------|-----|-----------------|-----|-----------|----|------------|---|----------|--|-----------|--|--------------|--|-----|------|
| | | | 2.5 | 2.5 | 5.7 | 5.6 | 94 | 91 | 90-110 | 1 | | | | | | | | |
| Nitrogen, Nitrate | mg/L | 3.3 | | | | | | | | | | | | | | | | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322318

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------------|------------------|----------|-------------------|------------------|
| 92322318001 | MW-08-120616 | RSK 175 Modified | 340608 | | |
| 92322318002 | MW-03-120616 | RSK 175 Modified | 340608 | | |
| 92322318003 | MW-10-120616 | RSK 175 Modified | 340608 | | |
| 92322318004 | MW-32-120616 | RSK 175 Modified | 340608 | | |
| 92322318005 | MW-04-120616 | RSK 175 Modified | 340608 | | |
| 92322318001 | MW-08-120616 | EPA 8260 | 340069 | | |
| 92322318002 | MW-03-120616 | EPA 8260 | 340342 | | |
| 92322318003 | MW-10-120616 | EPA 8260 | 340069 | | |
| 92322318004 | MW-32-120616 | EPA 8260 | 340069 | | |
| 92322318005 | MW-04-120616 | EPA 8260 | 340069 | | |
| 92322318006 | TRIP BLANK-120616 | EPA 8260 | 340011 | | |
| 92322318001 | MW-08-120616 | SM 2320B | 339922 | | |
| 92322318002 | MW-03-120616 | SM 2320B | 339922 | | |
| 92322318003 | MW-10-120616 | SM 2320B | 339922 | | |
| 92322318004 | MW-32-120616 | SM 2320B | 339922 | | |
| 92322318005 | MW-04-120616 | SM 2320B | 339922 | | |
| 92322318001 | MW-08-120616 | EPA 300.0 | 340189 | | |
| 92322318002 | MW-03-120616 | EPA 300.0 | 340189 | | |
| 92322318003 | MW-10-120616 | EPA 300.0 | 340189 | | |
| 92322318004 | MW-32-120616 | EPA 300.0 | 340189 | | |
| 92322318005 | MW-04-120616 | EPA 300.0 | 340189 | | |
| 92322318001 | MW-08-120616 | EPA 353.2 | 339852 | | |
| 92322318002 | MW-03-120616 | EPA 353.2 | 339852 | | |
| 92322318003 | MW-10-120616 | EPA 353.2 | 339852 | | |
| 92322318004 | MW-32-120616 | EPA 353.2 | 339852 | | |
| 92322318005 | MW-04-120616 | EPA 353.2 | 339852 | | |

REPORT OF LABORATORY ANALYSIS

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| | | |
|---|---|---|
|  | Document Name: Sample Condition Upon Receipt(SCUR) | Document Revised: Sept. 21, 2016 Page 1 of 2 |
| | Document No.: F-CAR-CS-033-Rev.01 | Issuing Authority: Pace Quality Office |

Laboratory receiving samples:
 Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

WO# : 92322318



| | | | |
|--|--|---|---|
| Sample Condition Upon Receipt | | Client Name: <i>CHAMHI</i> | Project #: |
| Courier: | <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Other: _____ | <input type="checkbox"/> Client | |
| Custody Seal Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Seals Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Packing Material: | <input type="checkbox"/> Bubble Wrap <input type="checkbox"/> Bubble Bags <input checked="" type="checkbox"/> None <input type="checkbox"/> Other: _____ | Type of Ice: | <input type="checkbox"/> Wet <input type="checkbox"/> Blue <input type="checkbox"/> None <input type="checkbox"/> Samples on ice, cooling process has begun |
| Thermometer: | <input type="checkbox"/> IR Gun ID: <i>S</i> | Correction Factor: | <input type="radio"/> Cooler Temp Corrected (°C): <i>5.9</i> |
| Temp should be above freezing to 6°C | | Biological Tissue Frozen? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| USDA Regulated Soil (<input type="checkbox"/> N/A, water sample) | | | |
| Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| Comments/Discrepancy: | | | |
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. _____ | |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. _____ | |
| Short Hold Time Analysis (<72 hr.)? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. <i>/1/16/16</i> | |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. _____ | |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. _____ | |
| Correct Containers Used? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. _____ | |
| -Pace Containers Used? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. _____ | |
| Containers Intact? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 8. Note if sediment is visible in the dissolved container | |
| Samples Field Filtered? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 9. _____ | |
| Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 10. _____ | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 11. _____ | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | | |

Field Data Required? Yes No

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____

Date/Time: _____

Comments/Sample

Discrepancy: _____

Project Manager SCURF Review: *JW*

Date: *12/7/16*

Project Manager SRF Review: *JW*

Date: *12/7/16*

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)



Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.01

Document Revised: Sept. 21, 2016

Page 2 of 2

Issuing Authority:
Pace Quality Office

WO# : 92322318

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

**Bottom half of box is to list number of bottles

Project

PM: KRG

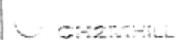
Due Date: 12/14/16

CLIENT: 92-KinderCH2

| Item# | BP1U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP2U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic H2SO4 (pH < 2) (Cl-) | BP2S-250 mL Plastic HNO3 (pH < 2) | BP3N-250 mL plastic Zn Acetate & NaOH (>9) | BP3C-250 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | AG3A/(DG3A)-250 mL Amber NH4Cl (N/A) (Cl-) | DG9H-40 mL VOA HCl (N/A) | DG9T-40 mL VOA Na2SO3 (N/A) | VG9U-40 mL VOA Utp (N/A) | DG9P-40 mL VOA H3PO4 (N/A) | VOAK (6 vials per kit) SO35 kit (N/A) | V/GK (3 vials per kit)-VPh/Gas kit (N/A) | SPST-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Plastic Plastic (N/A - lab) | BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7) | Cubitainer | VSGU-20 mL Scintillation vials (N/A) | GN |
|-------|---|---------------------------------------|---------------------------------------|---|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|--|--------------------------|-----------------------------|--------------------------|----------------------------|---------------------------------------|--|---|---|---|------------|--------------------------------------|----|
| 1 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 3 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 4 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 6 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 7 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 8 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 9 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 11 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 12 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |



6610 Peachtree-Commerce Rd. #
Emory Park, Suite 690
Atlanta, GA 30339
Tele No. (770) 664-9762
Fax No. (770) 664-3183

CHAIN-OF-CUSTODY RECORD

228-120616-01

| CHAIN-OF-CUSTODY RECORD | | | | | | | | | | | | COC NUMBER | | | | | | |
|--|---------------------|-------------------------------|-------------------------------|------------------|---------------------|--------------------------------------|--|------------------------------|---|---|---|---|---|---|--------------------------------------|------------------------------------|-------------------------------------|-----|
| | | | | | | | | | | | | 669228-120616-01 | | | | | | |
| 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 | | | 669228.LD.PR.LA | | | Pace Analytical Kevin Godwin | | | Bill Waldron bwaldron@ch2m.com | | | 3120 Highwoods Blvd, Suite 214, Raleigh, NC 27604 | | | | | | |
| PROJECT PHASE/SITE/TASK | | | CTO OR DO NUMBER | | | LAB TO NUMBER | | | * FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company) | | | * RECIPIENT 2 (Address, Tel No., and Fax No.) | | | | | | |
| Baseline Groundwater 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. | | | | | | |
| PROJECT CONTACT | | | PROJECT TEL NO AND FAX NO | | | * LAB TO, 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 | | | 704-875-9092 ext 928273 phone | | | | | | | | | | | | |
| * ANALYSES REQUIRED (Include Method Numbers) | | | | | | | | | | | | | | | | | | |
| ITEM | * SAMPLE IDENTIFIER | * SAMPLE DESCRIPTION/LOCATION | * METHOD Procedure/Spec | * DATE COLLECTED | * TIME COLLECTED | * DATA ORIGINAL RESULTS FROM SOFT | * P/L (P=Positive, L=Unknown, N=Negative) | Sample Type Number/Ref ID | G | P | P | P | G | G | * SAMPLE TYPE CODES ON SOFT | * EQUIPMENT: SCREENING READINGS | * LAB ID (for lab and method) | |
| | | | | | | | | | N | X | X | X | X | X | | | | |
| 1 | MW-08-120616 | | GW | 12/06/16 | 15:40 | 3 | 14 | 10 | X | X | X | X | X | X | X | N | 92322316 | 607 |
| 2 | MW-03-120616 | | GW | 12/06/16 | 14:00 | 3 | 14 | 10 | X | X | X | X | X | X | | N | | 002 |
| 3 | MW-10-120616 | | GW | 12/06/16 | 10:55 | 3 | 14 | 10 | X | X | X | X | X | X | | N | | 003 |
| 4 | MW-32-120616 | | GW | 12/06/16 | 14:30 | 3 | 14 | 10 | X | X | X | X | X | X | | N | | 004 |
| 5 | MW-04-120616 | | GW | 12/06/16 | 15:35 | 3 | 14 | 10 | X | X | X | X | X | X | | N | | 005 |
| 6 | Trip Blank-120616 | | TB | 12/06/16 | 16:50 | 2 | | | X | | | | | | | N | | 006 |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| * SAMPLER(S) AND COMPANY (if known) | | | * COURIER AND SHIPPING NUMBER | | | | | | * SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT (for labs and method) | | | | | | | | | |
| Michael Tekle/CH2M HILL | | | FedEx Number: | | | | | | | | | | | | | | | |
| * RELINQUISHED BY | | | DATE | | | TIME | | | RECEIVED BY | | | DATE | | | TIME | | | |
| Printed Name and Signature <i>Michael Tekle</i> | | | 12/06/16 | | | 19:00 | | | Printed Name and Signature Bill Denise Smithson AIC | | | 10/7/16 10:10 | | | 12/6/16 11:10 | | | |
| Printed Name and Signature | | | | | | | | | | | | | | | | | | |
| Printed Name and Signature | | | | | | | | | | | | | | | | | | |

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| | | | | | | | | | | | | | | |
|--|---|---|-------------|------------------------|---|---|--|--|---|--|---------------------------------------|--|--|---|
| FedEx Express Package US Airbill | | 8101 1494 4771 | 0200 | Recipients Copy | | | | | | | | | | |
| 1 From Date <u>1/18/14</u> Sender's Name <u>John Doe</u> Phone <u>(555) 555-2224</u> Company <u>Citizen Mail</u> Address <u>123 Main Street, Anytown, USA</u> City <u>Anytown</u> State <u>WA</u> ZIP <u>22222</u> | | 4 Express Package Service • To most locations. Packages up to 150 lbs. <small>For packages over 150 lbs see the FedEx Express Freight US Airbill.</small> <table border="0"> <tr> <td><input type="checkbox"/> FedEx Next Day</td> <td><input type="checkbox"/> FedEx Saturday morning delivery to select locations. Friday shipment will be delivered on Monday unless Saturday Delivery is selected.</td> </tr> <tr> <td><input checked="" type="checkbox"/> FedEx Priority Overnight</td> <td><small>Next business morning. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.</small></td> </tr> <tr> <td><input type="checkbox"/> FedEx Standard Overnight</td> <td><small>Next business afternoon. Saturday Delivery NOT available.</small></td> </tr> <tr> <td><input type="checkbox"/> FedEx 20 hr.</td> <td><small>Saturday business afternoon. Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.</small></td> </tr> <tr> <td><input type="checkbox"/> FedEx Express Saver</td> <td><small>Third business day. Saturday Delivery NOT available.</small></td> </tr> </table> 5 Packaging * Declared value limit \$500. <input type="checkbox"/> FedEx Envelope* <input type="checkbox"/> FedEx Pak* <input type="checkbox"/> FedEx Box <input type="checkbox"/> FedEx Tube <input type="checkbox"/> Other | | | <input type="checkbox"/> FedEx Next Day | <input type="checkbox"/> FedEx Saturday morning delivery to select locations. Friday shipment will be delivered on Monday unless Saturday Delivery is selected. | <input checked="" type="checkbox"/> FedEx Priority Overnight | <small>Next business morning. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.</small> | <input type="checkbox"/> FedEx Standard Overnight | <small>Next business afternoon. Saturday Delivery NOT available.</small> | <input type="checkbox"/> FedEx 20 hr. | <small>Saturday business afternoon. Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.</small> | <input type="checkbox"/> FedEx Express Saver | <small>Third business day. Saturday Delivery NOT available.</small> |
| <input type="checkbox"/> FedEx Next Day | <input type="checkbox"/> FedEx Saturday morning delivery to select locations. Friday shipment will be delivered on Monday unless Saturday Delivery is selected. | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> FedEx Priority Overnight | <small>Next business morning. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.</small> | | | | | | | | | | | | | |
| <input type="checkbox"/> FedEx Standard Overnight | <small>Next business afternoon. Saturday Delivery NOT available.</small> | | | | | | | | | | | | | |
| <input type="checkbox"/> FedEx 20 hr. | <small>Saturday business afternoon. Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.</small> | | | | | | | | | | | | | |
| <input type="checkbox"/> FedEx Express Saver | <small>Third business day. Saturday Delivery NOT available.</small> | | | | | | | | | | | | | |
| 2 Your Internal Billing Reference <u>669228-LD.PK-LA</u> | | 6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide. <input type="checkbox"/> Saturday Delivery <small>NOT available for FedEx Standard Overnight, FedEx 20hr A.M., or FedEx Express Saver.</small> | | | | | | | | | | | | |
| 3 To Recipient's Name <u>Kevin Buckley</u> Phone <u>(555) 555-2224</u> Company <u>Place Management Services Inc.</u> Address <u>123 Main Street, Anytown, USA</u> <small>We cannot deliver to P.O. boxes or P.O. ZIP codes.</small> Address <u>628 Main Ave.</u> <small>Use this line for the HOLD location address or for continuation of your shipping address.</small> City <u>Anytown</u> State <u>WA</u> ZIP <u>22226</u> | | <input type="checkbox"/> Hold Weekend <small>FedEx location address NOT available for FedEx First Overnight.</small> <input type="checkbox"/> Hold Saturday <small>FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 20hr to select locations.</small> | | | | | | | | | | | | |
| | | <input type="checkbox"/> Direct Signature <small>If no one is available at recipient's address, FedEx will leave a note indicating address may sign for delivery for residential deliveries only.</small> <input type="checkbox"/> Indirect Signature <small>If no one is available at recipient's address, FedEx will leave a note indicating address may sign for delivery for residential deliveries only.</small> | | | | | | | | | | | | |
| | | 7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. <input checked="" type="checkbox"/> Sender <input type="checkbox"/> Acct. No. in Session <input type="checkbox"/> Recipient <input type="checkbox"/> Third Party <input type="checkbox"/> Credit Card <input type="checkbox"/> Cash/Check Total Packages <u>1</u> Total Weight <u>0.0 lbs</u> Credit Card Auth. <u>b44</u> <small>Total liability is limited to USD\$100 unless you declare a higher value. See the current FedEx Service Guide for details.</small> <small>Rev. Date 3/15 • Part #03002 • ©2012-2015 FedEx • PRINTED IN U.S.A. RFDIA 0000</small> | | | | | | | | | | | | |



8101 1494 4771

Intra-Regional Chain of Custody



Page 28 of 40

Workorder: 92322318 Workorder Name: LEWIS DRIVE-BELTON, SC Owner Received Date: 12/7/2016 Due Date: 12/14/2016

| Received at: | | Send To Lab: | | Requested Analysis | | | | | | | | | | | | |
|---|--------------------|--|--------------------|---------------------|------------------------|-----------------------|----------|--|--|----------------|---------|----------|--|--|--------------|--|
| Pace Analytical Asheville 2225 Riverside Dr. Asheville, NC 28804 Phone (828)254-7176 | | Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092 | | | | | | | | | | | | | | |
| Report To: Kevin Godwin | | | | | | | | | | | | | | | | |
| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Preserved Containers | | | | RSN 175/As-Ref | EPA4200 | Comments | | | | |
| | | | | | | HCL | Ugineand | | | | | | | | | |
| 1 | MW-08-120616 | PS | 12/6/2016 15:40 | 92322318001 | Water | 4 | | | | X | X | X | | | LAB USE ONLY | |
| 2 | MW-03-120616 | PS | 12/6/2016 14:00 | 92322318002 | Water | 4 | | | | X | X | X | | | | |
| 3 | MW-10-120616 | PS | 12/6/2016 10:55 | 92322318003 | Water | 4 | | | | X | X | X | | | | |
| 4 | MW-32-120616 | PS | 12/6/2016 14:30 | 92322318004 | Water | 4 | | | | X | X | X | | | | |
| 5 | MW-04-120616 | PS | 12/6/2016 15:35 | 92322318005 | Water | 6 | | | | X | X | X | | | | |
| 6 | TRIP BLANK-120616 | PS | 12/6/2016 16:50 | 92322318006 | Water | 4 | | | | X | | | | | | |
| Transfers | Released By | Date/Time | Received By | Date/Time | | | | | | | | | | | | |
| 1 | <i>[Signature]</i> | 12/7/2016 10:00 | <i>[Signature]</i> | 12/7/2016 10:00 | | | | | | | | | | | | |
| 2 | <i>[Signature]</i> | 12/6/2016 10:00 | <i>[Signature]</i> | 12/6/2016 10:00 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| Cooler Temperature on Receipt °C | | | | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N | | | | | | | | | | |

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.



Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

December 14, 2016

Kevin Godwin
Pace Analytical Services, Inc.
9800 Kincey Avenue
Suite 100
Huntersville, NC 28078

RE: LEWIS DRIVE-BELTON, SC

Pace Workorder: 21209

Dear Kevin Godwin:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, December 08, 2016. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ruth Welsh 12/14/2016
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.

Please email PAESfeedback@pacelabs.com.

Total Number of Pages 14

Report ID: 21209 - 872869

Page 1 of 12



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LABORATORY ACCREDITATIONS & CERTIFICATIONS

| | |
|--------------------------|--|
| Accreditor: | Pennsylvania Department of Environmental Protection, Bureau of Laboratories |
| Accreditation ID: | 02-00538 |
| Scope: | NELAP Non-Potable Water and Solid & Hazardous Waste |
| Accreditor: | West Virginia Department of Environmental Protection, Division of Water and Waste Management |
| Accreditation ID: | 395 |
| Scope: | Non-Potable Water |
| Accreditor: | South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification |
| Accreditation ID: | 89009003 |
| Scope: | Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA) |
| Accreditor: | NELAP: New Jersey, Department of Environmental Protection |
| Accreditation ID: | PA026 |
| Scope: | Non-Potable Water; Solid and Chemical Materials |
| Accreditor: | NELAP: New York, Department of Health Wadsworth Center |
| Accreditation ID: | 11815 |
| Scope: | Non-Potable Water; Solid and Hazardous Waste |
| Accreditor: | State of Connecticut, Department of Public Health, Division of Environmental Health |
| Accreditation ID: | PH-0263 |
| Scope: | Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA) |
| Accreditor: | NELAP: Texas, Commission on Environmental Quality |
| Accreditation ID: | T104704453-09-TX |
| Scope: | Non-Potable Water |
| Accreditor: | State of New Hampshire |
| Accreditation ID: | 299409 |
| Scope: | Non-potable water |
| Accreditor: | State of Georgia |
| Accreditation ID: | Chapter 391-3-26 |
| Scope: | As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC). |



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SAMPLE SUMMARY

Workorder: 21209 LEWIS DRIVE-BELTON, SC

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-----------|--------------|--------|-----------------|-----------------|
| 212090001 | MW-08-120616 | Water | 12/6/2016 15:40 | 12/8/2016 11:45 |
| 212090002 | MW-03-120616 | Water | 12/6/2016 14:00 | 12/8/2016 11:45 |
| 212090003 | MW-10-120616 | Water | 12/6/2016 10:55 | 12/8/2016 11:45 |
| 212090004 | MW-32-120616 | Water | 12/6/2016 14:30 | 12/8/2016 11:45 |
| 212090005 | MW-04-120616 | Water | 12/6/2016 15:35 | 12/8/2016 11:45 |



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ANALYTICAL RESULTS

Workorder: 21209 LEWIS DRIVE-BELTON, SC

Lab ID: 212090001 Date Received: 12/8/2016 11:45 Matrix: Water
Sample ID: MW-08-120616 Date Collected: 12/6/2016 15:40

| Parameters | Results | Units | PQL | MDL | DF | Analyzed | By | Qualifiers |
|---|---------|-------|-----|-----|------|----------|------------------|------------|
| RISK - PAES | | | | | | | | |
| Analysis Desc: AM20GAX Analytical Method: AM20GAX | | | | | | | | |
| Carbon Dioxide | 37 | mg/l | | 5.0 | 0.24 | 1 | 12/10/2016 12:14 | TD |

Report ID: 21209 - 872869

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ANALYTICAL RESULTS

Workorder: 21209 LEWIS DRIVE-BELTON, SC

Lab ID: **212090002** Date Received: 12/6/2016 11:45 Matrix: Water
Sample ID: **MW-03-120616** Date Collected: 12/6/2016 14:00

| Parameters | Results | Units | PQL | MDL | DF | Analyzed | By | Qualifiers |
|---|---------|-------|-----|------|----|------------------|----|------------|
| RISK - PAES | | | | | | | | |
| Analysis Desc: AM20GAX Analytical Method: AM20GAX | | | | | | | | |
| Carbon Dioxide | 34 | mg/l | 5.0 | 0.24 | 1 | 12/10/2016 12:28 | TD | n |



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ANALYTICAL RESULTS

Workorder: 21209 LEWIS DRIVE-BELTON, SC

Lab ID: 212090003 Date Received: 12/8/2016 11:45 Matrix: Water
Sample ID: MW-10-120616 Date Collected: 12/6/2016 10:55

| Parameters | Results | Units | PQL | MDL | DF | Analyzed | By | Qualifiers |
|---|---------|-------|-----|------|----|------------------|----|------------|
| RISK - PAES | | | | | | | | |
| Analysis Desc: AM20GAX Analytical Method: AM20GAX | | | | | | | | |
| Carbon Dioxide | 38 | mg/l | 5.0 | 0.24 | 1 | 12/10/2016 12:41 | TD | N |



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ANALYTICAL RESULTS

Workorder: 21209 LEWIS DRIVE-BELTON, SC

Lab ID: **212090004** Date Received: 12/8/2016 11:45 Matrix: Water
Sample ID: **MW-32-120616** Date Collected: 12/6/2016 14:30

| Parameters | Results | Units | PQL | MDL | DF | Analyzed | By | Qualifiers |
|---|---------|-------|-----|-----|------|----------|------------------|------------|
| RISK - PAES | | | | | | | | |
| Analysis Desc: AM20GAX Analytical Method: AM20GAX | | | | | | | | |
| Carbon Dioxide | 23 | mg/l | | 5.0 | 0.24 | 1 | 12/10/2016 12:54 | TD |



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ANALYTICAL RESULTS

Workorder: 21209 LEWIS DRIVE-BELTON, SC

Lab ID: 212090005 Date Received: 12/8/2016 11:45 Matrix: Water
Sample ID: MW-04-120616 Date Collected: 12/6/2016 15:35

| Parameters | Results | Units | PQL | MDL | DF | Analyzed | By | Qualifiers |
|---|---------|-------|-----|-----|------|----------|------------------|------------|
| RISK - PAES | | | | | | | | |
| Analysis Desc: AM20GAX Analytical Method: AM20GAX | | | | | | | | |
| Carbon Dioxide | 38 | mg/l | | 5.0 | 0.24 | 1 | 12/10/2016 13:06 | TD |

Report ID: 21209 - 872869

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 21209 LEWIS DRIVE-BELTON, SC

DEFINITIONS/QUALIFIERS

| | |
|-------|--|
| MDL | Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection. |
| PQL | Practical Quantitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation. |
| ND | Not detected at or above reporting limit. |
| DF | Dilution Factor. |
| S | Surrogate. |
| RPD | Relative Percent Difference. |
| % Rec | Percent Recovery. |
| U | Indicates the compound was analyzed for, but not detected at or above the noted concentration. |
| J | Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL). |
| n | The laboratory does not hold NELAP/TNI accreditation for this method or analyte. |



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QUALITY CONTROL DATA

Workorder: 21209 LEWIS DRIVE-BELTON, SC

QC Batch: DISG/5802 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 212090001, 212090002, 212090003, 212090004, 212090005

METHOD BLANK: 45980

| Parameter | Units | Blank | Reporting | | Qualifiers |
|------------------------|-------|--------|-----------|------------|------------|
| | | Result | Limit | Qualifiers | |
| RISK Carbon Dioxide | mg/l | 0.24U | 0.24 | n | |

LABORATORY CONTROL SAMPLE & LCSD: 45981 45982

| Parameter | Units | Spike | LCS | LCSD | LCS | LCSD | % Rec | Max | Qualifiers |
|------------------------|-------|-------|--------|--------|-------|-------|--------|-----|------------|
| | | Conc | Result | Result | % Rec | % Rec | Limit | RPD | |
| RISK Carbon Dioxide | mg/l | 120 | 130 | 130 | 114 | 109 | 80-120 | 4.5 | 20 n |



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QUALITY CONTROL DATA QUALIFIERS

Workorder: 21209 LEWIS DRIVE-BELTON, SC

QUALITY CONTROL PARAMETER QUALIFIERS

- n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 21209 LEWIS DRIVE-BELTON, SC

| Lab ID | Sample ID | Prep Method | Prep Batch | Analysis Method | Analysis Batch |
|-----------|--------------|-------------|------------|-----------------|----------------|
| 212090001 | MW-08-120616 | | | AM20GAX | DISG/5802 |
| 212090002 | MW-03-120616 | | | AM20GAX | DISG/5802 |
| 212090003 | MW-10-120616 | | | AM20GAX | DISG/5802 |
| 212090004 | MW-32-120616 | | | AM20GAX | DISG/5802 |
| 212090005 | MW-04-120616 | | | AM20GAX | DISG/5802 |



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Chain of Custody



| Workorder: 92322318 | Workorder Name: LEWIS DRIVE-BELTON, SC | Results Requested By: 12/14/2016 | | | | | | |
|--|--|--|----------------------|------------------------|-----------|-----------------------|----------|--------------|
| Report/Invoice To: | | Subcontract To: | | | | | | |
| Kevin Godwin Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-8092 Email: kevin.godwin@pacelabs.com | | Pace Energy P.O. RRG 10/14/3 220 willie Pitt Way Pittsbrugh, PA 15238 | | | | | | |
| State of Sample Origin: | | | | | | | | |
| Item | Sample ID# | Collect Date/Time | Lab ID | Matrix | Preserved | Containers | Comments | LAB USE ONLY |
| 1 | MW-08-120616 | 12/6/2016 15:40 | 92322318001 | Water | N | | | X |
| 2 | MW-03-120616 | 12/6/2016 14:00 | 92322318002 | Water | Z | | | X |
| 3 | MW-10-120616 | 12/6/2016 10:55 | 92322318003 | Water | Z | | | X |
| 4 | MW-32-120616 | 12/6/2016 14:30 | 92322318004 | Water | Z | | | X |
| 5 | MW-04-120616 | 12/6/2016 15:35 | 92322318005 | Water | Z | | | X |
| Transfers | Released By | Date/Time | Received By | Date/Time | Comments | | | |
| 1 | <i>Brett May</i> | 12/7/16 17:00 | <i>Jessica Pates</i> | 12/8/16 11:45 | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| Cooler Temperature on Receipt 4 °C | | Custody Seal Y or N | | Received on Ice Y or N | | Samples Intact Y or N | | |

Cooler Receipt Form

Client Name: Pace - H Project: Lewis Drive Lab Work Order: 21209

A. Shipping/Container Information (circle appropriate response)

Courier: FedEx UPS USPS Client Other: _____ Air bill Present: Yes No

Tracking Number: 777872277098

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Cooler/Box Packing Material: Bubble Wrap Absorbent Foam Other: _____

Type of Ice: Wet Blue None Ice Intact: Yes Melted

Cooler Temperature: 4°C Radiation Screened: Yes No Chain of Custody Present: Yes No

Comments: _____

B. Laboratory Assignment/Log-in (check appropriate response)

| | YES | NO | N/A | Comment Reference non-Conformance |
|--|-----|----|-----|--------------------------------------|
| Chain of Custody properly filled out | ✓ | | | |
| Chain of Custody relinquished | ✓ | | | |
| Sampler Name & Signature on COC | ✓ | | | |
| Containers intact | ✓ | | | |
| Were samples in separate bags | ✓ | | | |
| Sample container labels match COC | ✓ | | | |
| Sample name/date and time collected | ✓ | | | |
| Sufficient volume provided | ✓ | | | |
| PAES containers used | ✓ | | | |
| Are containers properly preserved for the requested testing? (as labeled) | ✓ | | | |
| If an unknown preservation state, were containers checked? Exception: VOA's coliform | | ✓ | | If yes, see pH form. |
| Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container? | | ✓ | | |

Comments: _____

Cooler contents examined/received by: LS Date: 12.8.16

Project Manager Review: BS Date: 12-9-16

December 21, 2016

Bill Waldron
CH2M HILL
1717 Arch St
Suite 4400
Glenside, PA 19038

RE: Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

Dear Bill Waldron:

Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Bethany Garvey, CH2M HILL
Scott Powell, CH2M
Tom Wiley, CH2M



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|----------------------|------------------|----------|-------------------|------------|
| 92322541001 | MW-15-120716 | RSK 175 Modified | WDV | 1 | PASI-C |
| | | EPA 8260 | GAW | 12 | PASI-C |
| | | SM 2320B | KDF | 1 | PASI-A |
| | | EPA 300.0 | AES2 | 1 | PASI-A |
| | | EPA 353.2 | WRC | 1 | PASI-A |
| 92322541002 | MW-42-120716 | RSK 175 Modified | WDV | 1 | PASI-C |
| | | EPA 8260 | GAW | 12 | PASI-C |
| | | SM 2320B | KDF | 1 | PASI-A |
| | | EPA 300.0 | AES2 | 1 | PASI-A |
| | | EPA 353.2 | WRC | 1 | PASI-A |
| 92322541003 | MW-40-120716 | RSK 175 Modified | WDV | 1 | PASI-C |
| | | EPA 8260 | GAW | 12 | PASI-C |
| | | SM 2320B | KDF | 1 | PASI-A |
| | | EPA 300.0 | AES2 | 1 | PASI-A |
| | | EPA 353.2 | WRC | 1 | PASI-A |
| 92322541004 | MW-24B-120716 | EPA 8260 | GAW | 12 | PASI-C |
| 92322541005 | MW-24-120716 | EPA 8260 | GAW | 12 | PASI-C |
| 92322541006 | MW-41-120716 | EPA 8260 | GAW | 12 | PASI-C |
| 92322541007 | MW-39-120716 | EPA 8260 | GAW | 12 | PASI-C |
| 92322541008 | FB-120716 | EPA 8260 | GAW | 12 | PASI-C |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

| Sample: MW-15-120716 | Lab ID: 92322541001 | Collected: 12/07/16 11:30 | Received: 12/08/16 11:10 | Matrix: Water | | | | |
|---------------------------------------|-------------------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| RSK 175 Headspace | Analytical Method: RSK 175 Modified | | | | | | | |
| Methane | 110 | ug/L | 100 | 10 | | 12/21/16 13:49 | 74-82-8 | N2 |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | 3680 | ug/L | 25.0 | 25 | | 12/10/16 16:40 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 25.0 | 25 | | 12/10/16 16:40 | 107-06-2 | |
| Ethylbenzene | 139 | ug/L | 25.0 | 25 | | 12/10/16 16:40 | 100-41-4 | |
| Methyl-tert-butyl ether | 188 | ug/L | 25.0 | 25 | | 12/10/16 16:40 | 1634-04-4 | |
| Naphthalene | 43.8 | ug/L | 25.0 | 25 | | 12/10/16 16:40 | 91-20-3 | |
| Toluene | 422 | ug/L | 25.0 | 25 | | 12/10/16 16:40 | 108-88-3 | |
| Xylene (Total) | 2280 | ug/L | 25.0 | 25 | | 12/10/16 16:40 | 1330-20-7 | |
| m&p-Xylene | 1480 | ug/L | 50.0 | 25 | | 12/10/16 16:40 | 179601-23-1 | |
| o-Xylene | 797 | ug/L | 25.0 | 25 | | 12/10/16 16:40 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 70-130 | 25 | | 12/10/16 16:40 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 98 | % | 70-130 | 25 | | 12/10/16 16:40 | 17060-07-0 | |
| Toluene-d8 (S) | 105 | % | 70-130 | 25 | | 12/10/16 16:40 | 2037-26-5 | |
| 2320B Alkalinity | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 1 | | 12/09/16 11:20 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 | | | | | | | |
| Sulfate | ND | mg/L | 2.0 | 1 | | 12/09/16 15:52 | 14808-79-8 | |
| 353.2 Nitrogen, NO2/NO3 unpres | Analytical Method: EPA 353.2 | | | | | | | |
| Nitrogen, Nitrate | 2.0 | mg/L | 0.020 | 1 | | 12/09/16 00:17 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEWIS DRIVE-BELTON, SC

Pace Project No.: 92322541

| Sample: MW-42-120716 | Lab ID: 92322541002 | Collected: 12/07/16 14:40 | Received: 12/08/16 11:10 | Matrix: Water | | | | |
|---------------------------------------|-------------------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| RSK 175 Headspace | Analytical Method: RSK 175 Modified | | | | | | | |
| Methane | ND | ug/L | 10.0 | 1 | | 12/14/16 12:41 | 74-82-8 | N2 |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | 3.8 | ug/L | 1.0 | 1 | | 12/10/16 14:14 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/10/16 14:14 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/10/16 14:14 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/10/16 14:14 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/10/16 14:14 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/10/16 14:14 | 108-88-3 | |
| Xylene (Total) | 2.7 | ug/L | 1.0 | 1 | | 12/10/16 14:14 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/10/16 14:14 | 179601-23-1 | |
| o-Xylene | 2.7 | ug/L | 1.0 | 1 | | 12/10/16 14:14 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 102 | % | 70-130 | 1 | | 12/10/16 14:14 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 95 | % | 70-130 | 1 | | 12/10/16 14:14 | 17060-07-0 | |
| Toluene-d8 (S) | 110 | % | 70-130 | 1 | | 12/10/16 14:14 | 2037-26-5 | |
| 2320B Alkalinity | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 11.4 | mg/L | 5.0 | 1 | | 12/09/16 11:31 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 | | | | | | | |
| Sulfate | ND | mg/L | 2.0 | 1 | | 12/09/16 16:01 | 14808-79-8 | |
| 353.2 Nitrogen, NO2/NO3 unpres | Analytical Method: EPA 353.2 | | | | | | | |
| Nitrogen, Nitrate | 0.96 | mg/L | 0.020 | 1 | | 12/09/16 00:18 | | |

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ANALYTICAL RESULTS

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

| Sample: MW-40-120716 | Lab ID: 92322541003 | Collected: 12/07/16 14:55 | Received: 12/08/16 11:10 | Matrix: Water | | | | |
|---------------------------------------|-------------------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| RSK 175 Headspace | Analytical Method: RSK 175 Modified | | | | | | | |
| Methane | 268 | ug/L | 200 | 20 | | 12/21/16 13:33 | 74-82-8 | N2 |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | 6730 | ug/L | 50.0 | 50 | | 12/11/16 19:01 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 50.0 | 50 | | 12/11/16 19:01 | 107-06-2 | |
| Ethylbenzene | 588 | ug/L | 50.0 | 50 | | 12/11/16 19:01 | 100-41-4 | |
| Methyl-tert-butyl ether | 373 | ug/L | 50.0 | 50 | | 12/11/16 19:01 | 1634-04-4 | |
| Naphthalene | 64.8 | ug/L | 50.0 | 50 | | 12/11/16 19:01 | 91-20-3 | |
| Toluene | 7460 | ug/L | 50.0 | 50 | | 12/11/16 19:01 | 108-88-3 | |
| Xylene (Total) | 3390 | ug/L | 50.0 | 50 | | 12/11/16 19:01 | 1330-20-7 | |
| m&p-Xylene | 2280 | ug/L | 100 | 50 | | 12/11/16 19:01 | 179601-23-1 | |
| o-Xylene | 1110 | ug/L | 50.0 | 50 | | 12/11/16 19:01 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 70-130 | 50 | | 12/11/16 19:01 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 97 | % | 70-130 | 50 | | 12/11/16 19:01 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 70-130 | 50 | | 12/11/16 19:01 | 2037-26-5 | |
| 2320B Alkalinity | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 7.4 | mg/L | 5.0 | 1 | | 12/09/16 11:41 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 | | | | | | | |
| Sulfate | ND | mg/L | 2.0 | 1 | | 12/09/16 16:10 | 14808-79-8 | |
| 353.2 Nitrogen, NO2/NO3 unpres | Analytical Method: EPA 353.2 | | | | | | | |
| Nitrogen, Nitrate | 0.40 | mg/L | 0.020 | 1 | | 12/09/16 00:27 | | |

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ANALYTICAL RESULTS

Project: LEWIS DRIVE-BELTON, SC

Pace Project No.: 92322541

| Sample: MW-24B-120716 | Lab ID: 92322541004 | Collected: 12/07/16 10:22 | Received: 12/08/16 11:10 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/10/16 14:30 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/10/16 14:30 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/10/16 14:30 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/10/16 14:30 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/10/16 14:30 | 91-20-3 | |
| Toluene | 2.9 | ug/L | 1.0 | 1 | | 12/10/16 14:30 | 108-88-3 | |
| Xylene (Total) | 1.6 | ug/L | 1.0 | 1 | | 12/10/16 14:30 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/10/16 14:30 | 179601-23-1 | |
| o-Xylene | 1.6 | ug/L | 1.0 | 1 | | 12/10/16 14:30 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 70-130 | 1 | | 12/10/16 14:30 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 93 | % | 70-130 | 1 | | 12/10/16 14:30 | 17060-07-0 | |
| Toluene-d8 (S) | 113 | % | 70-130 | 1 | | 12/10/16 14:30 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

| Sample: MW-24-120716 | Lab ID: 92322541005 | Collected: 12/07/16 11:47 | Received: 12/08/16 11:10 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | 12/10/16 14:46 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 12/10/16 14:46 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 12/10/16 14:46 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 12/10/16 14:46 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 12/10/16 14:46 | 91-20-3 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 12/10/16 14:46 | 108-88-3 | |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | 12/10/16 14:46 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 12/10/16 14:46 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 12/10/16 14:46 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 102 | % | 70-130 | 1 | | 12/10/16 14:46 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 93 | % | 70-130 | 1 | | 12/10/16 14:46 | 17060-07-0 | |
| Toluene-d8 (S) | 110 | % | 70-130 | 1 | | 12/10/16 14:46 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

| Sample: MW-41-120716 | Lab ID: 92322541006 | Collected: 12/07/16 16:05 | Received: 12/08/16 11:10 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | 212 | ug/L | 2.0 | 2 | | 12/11/16 19:33 | 71-43-2 | |
| 1,2-Dichloroethane | ND | ug/L | 2.0 | 2 | | 12/11/16 19:33 | 107-06-2 | |
| Ethylbenzene | ND | ug/L | 2.0 | 2 | | 12/11/16 19:33 | 100-41-4 | |
| Methyl-tert-butyl ether | 6.7 | ug/L | 2.0 | 2 | | 12/11/16 19:33 | 1634-04-4 | |
| Naphthalene | 5.6 | ug/L | 2.0 | 2 | | 12/11/16 19:33 | 91-20-3 | |
| Toluene | ND | ug/L | 2.0 | 2 | | 12/11/16 19:33 | 108-88-3 | |
| Xylene (Total) | 155 | ug/L | 2.0 | 2 | | 12/11/16 19:33 | 1330-20-7 | |
| m&p-Xylene | 50.1 | ug/L | 4.0 | 2 | | 12/11/16 19:33 | 179601-23-1 | |
| o-Xylene | 105 | ug/L | 2.0 | 2 | | 12/11/16 19:33 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 103 | % | 70-130 | 2 | | 12/11/16 19:33 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 98 | % | 70-130 | 2 | | 12/11/16 19:33 | 17060-07-0 | |
| Toluene-d8 (S) | 105 | % | 70-130 | 2 | | 12/11/16 19:33 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

| Sample: MW-39-120716 | Lab ID: 92322541007 | Collected: 12/07/16 16:30 | Received: 12/08/16 11:10 | Matrix: Water | | | | |
|------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | 6320 | ug/L | 50.0 | 50 | | 12/11/16 19:49 | 71-43-2 | M1 |
| 1,2-Dichloroethane | ND | ug/L | 50.0 | 50 | | 12/11/16 19:49 | 107-06-2 | |
| Ethylbenzene | 682 | ug/L | 50.0 | 50 | | 12/11/16 19:49 | 100-41-4 | |
| Methyl-tert-butyl ether | 311 | ug/L | 50.0 | 50 | | 12/11/16 19:49 | 1634-04-4 | |
| Naphthalene | 86.0 | ug/L | 50.0 | 50 | | 12/11/16 19:49 | 91-20-3 | |
| Toluene | 1290 | ug/L | 50.0 | 50 | | 12/11/16 19:49 | 108-88-3 | |
| Xylene (Total) | 3650 | ug/L | 50.0 | 50 | | 12/11/16 19:49 | 1330-20-7 | |
| m&p-Xylene | 2330 | ug/L | 100 | 50 | | 12/11/16 19:49 | 179601-23-1 | |
| o-Xylene | 1320 | ug/L | 50.0 | 50 | | 12/11/16 19:49 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 70-130 | 50 | | 12/11/16 19:49 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 99 | % | 70-130 | 50 | | 12/11/16 19:49 | 17060-07-0 | |
| Toluene-d8 (S) | 103 | % | 70-130 | 50 | | 12/11/16 19:49 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

| Sample: FB-120716 | Lab ID: 92322541008 | Collected: 12/07/16 17:15 | Received: 12/08/16 11:10 | Matrix: Water | | | | |
|------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------|----------------|-------------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level SC | | Analytical Method: EPA 8260 | | | | | | |
| Benzene | ND | ug/L | 1.0 | 1 | | | 12/10/16 13:26 | 71-43-2 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | | 12/10/16 13:26 | 107-06-2 |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | | 12/10/16 13:26 | 100-41-4 |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | | 12/10/16 13:26 | 1634-04-4 |
| Naphthalene | ND | ug/L | 1.0 | 1 | | | 12/10/16 13:26 | 91-20-3 |
| Toluene | ND | ug/L | 1.0 | 1 | | | 12/10/16 13:26 | 108-88-3 |
| Xylene (Total) | ND | ug/L | 1.0 | 1 | | | 12/10/16 13:26 | 1330-20-7 |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | | 12/10/16 13:26 | 179601-23-1 |
| o-Xylene | ND | ug/L | 1.0 | 1 | | | 12/10/16 13:26 | 95-47-6 |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 102 | % | 70-130 | 1 | | | 12/10/16 13:26 | 460-00-4 |
| 1,2-Dichloroethane-d4 (S) | 93 | % | 70-130 | 1 | | | 12/10/16 13:26 | 17060-07-0 |
| Toluene-d8 (S) | 114 | % | 70-130 | 1 | | | 12/10/16 13:26 | 2037-26-5 |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

| | | | |
|-------------------------|------------------|-----------------------|-------------------|
| QC Batch: | 340336 | Analysis Method: | RSK 175 Modified |
| QC Batch Method: | RSK 175 Modified | Analysis Description: | RSK 175 HEADSPACE |
| Associated Lab Samples: | 92322541002 | | |

METHOD BLANK: 1887747 Matrix: Water

Associated Lab Samples: 92322541002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Methane | ug/L | ND | 10.0 | 12/14/16 12:11 | N2 |

LABORATORY CONTROL SAMPLE: 1887748

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Methane | ug/L | 396 | 486 | 123 | 70-130 | N2 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887749 1887750

| Parameter | Units | 92321623043 | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| Methane | ug/L | ND | 396 | 396 | 340 | 347 | 86 | 88 | 70-130 | 2 | N2 |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC

Pace Project No.: 92322541

QC Batch: 341828 Analysis Method: RSK 175 Modified

QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE

Associated Lab Samples: 92322541001, 92322541003

METHOD BLANK: 1896615 Matrix: Water

Associated Lab Samples: 92322541001, 92322541003

| Parameter | Units | Blank Result | Reporting Limit | | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|----------|------------|
| | | | 10.0 | 12/21/16 12:01 | | |
| Methane | ug/L | ND | | | | N2 |

LABORATORY CONTROL SAMPLE & LCSD: 1896616 1896617

| Parameter | Units | Spike Conc. | LCS | LCSD | LCS | LCSD | % Rec | Limits | RPD | Max RPD | Qualifiers |
|-----------|-------|-------------|--------|--------|-------|-------|--------|--------|-----|---------|------------|
| | | | Result | Result | % Rec | % Rec | | | | | |
| Methane | ug/L | 396 | 370 | 369 | 94 | 93 | 70-130 | 0 | 20 | 20 | N2 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

| | | | |
|-------------------------|---|-----------------------|-----------------------|
| QC Batch: | 340308 | Analysis Method: | EPA 8260 |
| QC Batch Method: | EPA 8260 | Analysis Description: | 8260 MSV Low Level SC |
| Associated Lab Samples: | 92322541001, 92322541002, 92322541004, 92322541005, 92322541008 | | |

METHOD BLANK: 1887648 Matrix: Water

Associated Lab Samples: 92322541001, 92322541002, 92322541004, 92322541005, 92322541008

| Parameter | Units | Blank | Reporting | | Qualifiers |
|---------------------------|-------|--------|-----------|----------------|------------|
| | | Result | Limit | Analyzed | |
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 12/10/16 12:53 | |
| Benzene | ug/L | ND | 1.0 | 12/10/16 12:53 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/10/16 12:53 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/10/16 12:53 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 12/10/16 12:53 | |
| Naphthalene | ug/L | ND | 1.0 | 12/10/16 12:53 | |
| o-Xylene | ug/L | ND | 1.0 | 12/10/16 12:53 | |
| Toluene | ug/L | ND | 1.0 | 12/10/16 12:53 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/10/16 12:53 | |
| 1,2-Dichloroethane-d4 (S) | % | 93 | 70-130 | 12/10/16 12:53 | |
| 4-Bromofluorobenzene (S) | % | 103 | 70-130 | 12/10/16 12:53 | |
| Toluene-d8 (S) | % | 108 | 70-130 | 12/10/16 12:53 | |

LABORATORY CONTROL SAMPLE: 1887649

| Parameter | Units | Spike | LCS | | % Rec Limits | Qualifiers |
|---------------------------|-------|-------|--------|-------|--------------|------------|
| | | Conc. | Result | % Rec | | |
| 1,2-Dichloroethane | ug/L | 50 | 50.7 | 101 | 70-130 | |
| Benzene | ug/L | 50 | 54.7 | 109 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 51.0 | 102 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 99.4 | 99 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 49.1 | 98 | 70-130 | |
| Naphthalene | ug/L | 50 | 51.6 | 103 | 70-130 | |
| o-Xylene | ug/L | 50 | 50.2 | 100 | 70-130 | |
| Toluene | ug/L | 50 | 49.1 | 98 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 150 | 100 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 100 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 94 | 70-130 | |
| Toluene-d8 (S) | % | | | 95 | 70-130 | |

MATRIX SPIKE SAMPLE: 1887651

| Parameter | Units | 92322866032 | | Spike | MS | MS | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|-------|--------|-------|--------|--------------|------------|
| | | Result | Conc. | Result | % Rec | | | |
| 1,2-Dichloroethane | ug/L | ND | 20 | 22.7 | 113 | 70-130 | | |
| Benzene | ug/L | ND | 20 | 23.2 | 116 | 70-130 | | |
| Ethylbenzene | ug/L | ND | 20 | 23.1 | 115 | 70-130 | | |
| m&p-Xylene | ug/L | ND | 40 | 45.0 | 113 | 70-130 | | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 17.9 | 90 | 70-130 | | |
| Naphthalene | ug/L | ND | 20 | 19.5 | 97 | 70-130 | | |

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

MATRIX SPIKE SAMPLE: 1887651

| Parameter | Units | 92322866032 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-----------------------|----------------|--------------|-------------|-----------------|------------|
| o-Xylene | ug/L | ND | 20 | 23.0 | 115 | 70-130 | |
| Toluene | ug/L | ND | 20 | 23.0 | 115 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 103 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 97 | 70-130 | |
| Toluene-d8 (S) | % | | | | 99 | 70-130 | |

SAMPLE DUPLICATE: 1887650

| Parameter | Units | 92322866031 Result | Dup Result | RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|
| 1,2-Dichloroethane | ug/L | ND | ND | | |
| Benzene | ug/L | ND | ND | | |
| Ethylbenzene | ug/L | ND | ND | | |
| m&p-Xylene | ug/L | ND | ND | | |
| Methyl-tert-butyl ether | ug/L | ND | ND | | |
| Naphthalene | ug/L | ND | ND | | |
| o-Xylene | ug/L | 0.24J | ND | | |
| Toluene | ug/L | ND | ND | | |
| Xylene (Total) | ug/L | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 95 | 93 | 2 | |
| 4-Bromofluorobenzene (S) | % | 101 | 104 | 3 | |
| Toluene-d8 (S) | % | 110 | 111 | 0 | |

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC

Pace Project No.: 92322541

| | | | |
|-------------------------|---------------------------------------|-----------------------|-----------------------|
| QC Batch: | 340342 | Analysis Method: | EPA 8260 |
| QC Batch Method: | EPA 8260 | Analysis Description: | 8260 MSV Low Level SC |
| Associated Lab Samples: | 92322541003, 92322541006, 92322541007 | | |

METHOD BLANK: 1887770 Matrix: Water

Associated Lab Samples: 92322541003, 92322541006, 92322541007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| Benzene | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| m&p-Xylene | ug/L | ND | 2.0 | 12/11/16 14:10 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| Naphthalene | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| o-Xylene | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| Toluene | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| Xylene (Total) | ug/L | ND | 1.0 | 12/11/16 14:10 | |
| 1,2-Dichloroethane-d4 (S) | % | 91 | 70-130 | 12/11/16 14:10 | |
| 4-Bromofluorobenzene (S) | % | 101 | 70-130 | 12/11/16 14:10 | |
| Toluene-d8 (S) | % | 109 | 70-130 | 12/11/16 14:10 | |

LABORATORY CONTROL SAMPLE: 1887771

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | 50 | 55.2 | 110 | 70-130 | |
| Benzene | ug/L | 50 | 58.8 | 118 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 54.4 | 109 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 105 | 105 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 50.7 | 101 | 70-130 | |
| Naphthalene | ug/L | 50 | 54.3 | 109 | 70-130 | |
| o-Xylene | ug/L | 50 | 52.9 | 106 | 70-130 | |
| Toluene | ug/L | 50 | 52.8 | 106 | 70-130 | |
| Xylene (Total) | ug/L | 150 | 158 | 105 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 103 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 98 | 70-130 | |
| Toluene-d8 (S) | % | | | 98 | 70-130 | |

MATRIX SPIKE SAMPLE: 1887773

| Parameter | Units | 92322541007 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,2-Dichloroethane | ug/L | ND | 1000 | 1080 | 108 | 70-130 | |
| Benzene | ug/L | 6320 | 1000 | 7900 | 158 | 70-130 M1 | |
| Ethylbenzene | ug/L | 682 | 1000 | 1860 | 118 | 70-130 | |
| m&p-Xylene | ug/L | 2330 | 2000 | 4620 | 115 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 311 | 1000 | 1210 | 89 | 70-130 | |
| Naphthalene | ug/L | 86.0 | 1000 | 1040 | 95 | 70-130 | |

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

MATRIX SPIKE SAMPLE: 1887773

| Parameter | Units | 92322541007 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-----------------------|----------------|--------------|-------------|-----------------|------------|
| o-Xylene | ug/L | 1320 | 1000 | 2490 | 117 | 70-130 | |
| Toluene | ug/L | 1290 | 1000 | 2340 | 104 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 105 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 100 | 70-130 | |
| Toluene-d8 (S) | % | | | | 97 | 70-130 | |

SAMPLE DUPLICATE: 1887772

| Parameter | Units | 92322541003 Result | Dup Result | RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|
| 1,2-Dichloroethane | ug/L | ND | ND | | |
| Benzene | ug/L | 6730 | 6510 | 3 | |
| Ethylbenzene | ug/L | 588 | 556 | 6 | |
| m&p-Xylene | ug/L | 2280 | 2160 | 5 | |
| Methyl-tert-butyl ether | ug/L | 373 | 347 | 7 | |
| Naphthalene | ug/L | 64.8 | 64.3 | 1 | |
| o-Xylene | ug/L | 1110 | 1080 | 3 | |
| Toluene | ug/L | 7460 | 7290 | 2 | |
| Xylene (Total) | ug/L | 3390 | 3240 | 4 | |
| 1,2-Dichloroethane-d4 (S) | % | 97 | 94 | 4 | |
| 4-Bromofluorobenzene (S) | % | 100 | 99 | 1 | |
| Toluene-d8 (S) | % | 101 | 103 | 3 | |

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

| | | | |
|-------------------------|---------------------------------------|-----------------------|------------------|
| QC Batch: | 340127 | Analysis Method: | SM 2320B |
| QC Batch Method: | SM 2320B | Analysis Description: | 2320B Alkalinity |
| Associated Lab Samples: | 92322541001, 92322541002, 92322541003 | | |

METHOD BLANK: 1886500 Matrix: Water

Associated Lab Samples: 92322541001, 92322541002, 92322541003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO ₃ | mg/L | ND | 5.0 | 12/09/16 10:26 | |

LABORATORY CONTROL SAMPLE: 1886501

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO ₃ | mg/L | 50 | 49.1 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1886502 1886503

| Parameter | Units | 92322493001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| Alkalinity, Total as CaCO ₃ | mg/L | 26.3 | 50 | 50 | 76.1 | 74.6 | 100 | 97 | 80-120 | 2 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1886504 1886505

| Parameter | Units | 92322498002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| Alkalinity, Total as CaCO ₃ | mg/L | 51.5 | 50 | 50 | 105 | 103 | 107 | 103 | 80-120 | 2 | |

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC

Pace Project No.: 92322541

QC Batch: 340189 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92322541001, 92322541002, 92322541003

METHOD BLANK: 1886795 Matrix: Water

Associated Lab Samples: 92322541001, 92322541002, 92322541003

| Parameter | Units | Blank | Reporting | Analyzed | Qualifiers |
|-----------|-------|--------|-----------|----------------|------------|
| | | Result | Limit | | |
| Sulfate | mg/L | ND | 2.0 | 12/09/16 15:06 | |

LABORATORY CONTROL SAMPLE: 1886796

| Parameter | Units | Spike | LCS | LCS | % Rec | Qualifiers |
|-----------|-------|-------|--------|-------|--------|------------|
| | | Conc. | Result | % Rec | Limits | |
| Sulfate | mg/L | 20 | 18.9 | 94 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1886797 1886798

| Parameter | Units | MS | MSD | MS | MSD | MS | MSD | % Rec | % Rec | RPD | Qual |
|-----------|-------|-------------|-------|-------|--------|--------|-------|--------|--------|------|------|
| | | 92321623024 | Spike | Spike | Result | Result | % Rec | Limits | RPD | Qual | |
| Sulfate | mg/L | 398 | 20 | 20 | 417 | 409 | 98 | 58 | 90-110 | 2 M6 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1886799 1886800

| Parameter | Units | MS | MSD | MS | MSD | MS | MSD | % Rec | % Rec | RPD | Qual |
|-----------|-------|-------------|-------|-------|--------|--------|-------|--------|--------|------|------|
| | | 92321900004 | Spike | Spike | Result | Result | % Rec | Limits | RPD | Qual | |
| Sulfate | mg/L | 10000 ug/L | 20 | 20 | 29.8 | 30.2 | 99 | 101 | 90-110 | 1 | |

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QUALITY CONTROL DATA

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

QC Batch: 340077 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92322541001, 92322541002, 92322541003

METHOD BLANK: 1886355 Matrix: Water
Associated Lab Samples: 92322541001, 92322541002, 92322541003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Nitrate | mg/L | ND | 0.020 | 12/08/16 23:56 | |

LABORATORY CONTROL SAMPLE: 1886356

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, Nitrate | mg/L | 2.5 | 2.5 | 101 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1886357 1886358

| Parameter | Units | MS Result | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|-------------------|-------|-----------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| Nitrogen, Nitrate | mg/L | 0.68 | 2.5 | 2.5 | 3.2 | 100 | 100 | 90-110 | 0 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1886359 1886360

| Parameter | Units | MS Result | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|-------------------|-------|-----------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| Nitrogen, Nitrate | mg/L | 0.96 | 2.5 | 2.5 | 3.4 | 97 | 96 | 90-110 | 0 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEWIS DRIVE-BELTON, SC
Pace Project No.: 92322541

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------------|------------------|----------|-------------------|------------------|
| 92322541001 | MW-15-120716 | RSK 175 Modified | 341828 | | |
| 92322541002 | MW-42-120716 | RSK 175 Modified | 340336 | | |
| 92322541003 | MW-40-120716 | RSK 175 Modified | 341828 | | |
| 92322541001 | MW-15-120716 | EPA 8260 | 340308 | | |
| 92322541002 | MW-42-120716 | EPA 8260 | 340308 | | |
| 92322541003 | MW-40-120716 | EPA 8260 | 340342 | | |
| 92322541004 | MW-24B-120716 | EPA 8260 | 340308 | | |
| 92322541005 | MW-24-120716 | EPA 8260 | 340308 | | |
| 92322541006 | MW-41-120716 | EPA 8260 | 340342 | | |
| 92322541007 | MW-39-120716 | EPA 8260 | 340342 | | |
| 92322541008 | FB-120716 | EPA 8260 | 340308 | | |
| 92322541001 | MW-15-120716 | SM 2320B | 340127 | | |
| 92322541002 | MW-42-120716 | SM 2320B | 340127 | | |
| 92322541003 | MW-40-120716 | SM 2320B | 340127 | | |
| 92322541001 | MW-15-120716 | EPA 300.0 | 340189 | | |
| 92322541002 | MW-42-120716 | EPA 300.0 | 340189 | | |
| 92322541003 | MW-40-120716 | EPA 300.0 | 340189 | | |
| 92322541001 | MW-15-120716 | EPA 353.2 | 340077 | | |
| 92322541002 | MW-42-120716 | EPA 353.2 | 340077 | | |
| 92322541003 | MW-40-120716 | EPA 353.2 | 340077 | | |

REPORT OF LABORATORY ANALYSIS

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| | | |
|---|---|---|
|  | Document Name: Sample Condition Upon Receipt(SCUR) | Document Revised: Sept. 21, 2016 Page 1 of 2 |
| | Document No.: F-CAR-CS-033-Rev.01 | Issuing Authority: Pace Quality Office |

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name:

CHAMILL

Project #.

WO# : 92322541



92322541

| | | | | | | | |
|--|--------------------------------------|--|--|--|-------------------------------|--|--|
| Courier: | <input type="checkbox"/> FedEx | <input type="checkbox"/> UPS | <input type="checkbox"/> USPS | <input type="checkbox"/> Client | | | |
| <input type="checkbox"/> Commercial | <input type="checkbox"/> Page | <input type="checkbox"/> Other: _____ | | | | | |
| Custody Seal Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | Seals Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Packing Material: | <input type="checkbox"/> Bubble Wrap | <input type="checkbox"/> Bubble Bags | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: _____ | | | |
| Thermometer: | <input type="checkbox"/> S | Type of Ice: | <input type="checkbox"/> Wet | <input type="checkbox"/> Blue | <input type="checkbox"/> None | <input type="checkbox"/> Samples on ice, cooling process has begun | |
| Correction Factor: | 0 | Cooler Temp Corrected (°C): | 5.0 | Biological Tissue Frozen? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | | |
| Temp should be above freezing to 6°C | | | | Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| USDA Regulated Soil (<input type="checkbox"/> N/A, water sample) | | | | | | | |
| Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | |

| | | | Comments/Discrepancy: |
|---|---|-----------------------------|--|
| Chain of Custody Present? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 1. |
| Samples Arrived within Hold Time? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 3. <i>N/A/N/A</i> |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 4. |
| Sufficient Volume? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 5. |
| Correct Containers Used? -Pace Containers Used? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 6. |
| Containers Intact? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 7. |
| Samples Field Filtered? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 8. Note if sediment is visible in the dissolved container |
| Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 9. <i>W/EN</i> |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted:

Bethany Gervey Date/Time: *12/3/16*
 Comments/Sample Discrepancy: *client requested 48 hr TAT on MW-39, MW-40, MW-41, and MW-42.*

Project Manager SCURF Review:

JJ

Date: *12/7/16*

Project Manager SRF Review:

JJ

Date: *12/7/16*

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)



Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.01

Document Revised: Sept. 21, 2016

Page 2 of 2

Issuing Authority:

Pace Quality Control

WO# : 92322541

PM: KRG

Due Date: 12/15/16

CLIENT: 92-KinderCH2

*Check mark top half of box if pH and/or dechlorination
is verified and within the acceptance range for
preservation samples.

**Bottom half of box is to list number of bottles

| Item# | BP4U-125 mL Plastic Unpreserved [N/A] (Cl-) | BP3U-250 mL Plastic Unpreserved [N/A] | BP2U-500 mL Plastic Unpreserved [N/A] | BP1U-1 liter Plastic Unpreserved [N/A] | BP3S-250 mL Plastic H2SO4 [pH < 2] (Cl-) | BP3C-250 mL Plastic HNO3 [pH < 2] | BP3Z-250 mL Plastic ZN Acetate & NaOH (>9) | BP3C-250 mL Plastic NaOH [pH > 12] (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved [N/A] (Cl-) | AG1H-1 liter Amber HCl [pH < 2] | AG3U-250 mL Amber Unpreserved [N/A] (Cl-) | AG1S-1 liter Amber H2SO4 [pH < 2] | AG3S-250 mL Amber H2SO4 [pH < 2] | AG3A(DG3A)-250 mL Amber NH4Cl [N/A](Cl-) | DG9H-40 mL VOA Na2S2O3 [N/A] | VGGT-40 mL VOA Na2S2O3 [N/A] | VGGU-40 mL VOA Unp [N/A] | DG9P-40 mL VOA H3PO4 [N/A] | VDAK (6 vials per kit)-5035 kit [N/A] | V/GK (3 vials per kit)-vPH/Gas Kit [N/A] | SPST-125 mL Sterile Plastic [N/A - lab] | SP2T-250 mL Sterile Plastic [N/A - lab] | BP3A-250 mL Plastic (NH4)2SO4 (9.3-9.7) | Cubitainer | VSGU-20 mL Scintillation vials [N/A] | GN |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|--|------------------------------|------------------------------|--------------------------|----------------------------|---------------------------------------|--|---|---|---|------------|--------------------------------------|----|
| 1 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 3 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 4 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 6 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 7 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 8 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 9 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 11 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 12 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |



Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

December 19, 2016

Kevin Godwin
Pace Analytical Services, Inc.
9800 Kincey Avenue
Suite 100
Huntersville, NC 28078

RE: LEWIS DRIVE-BELTON, SC

Pace Workorder: 21272

Dear Kevin Godwin:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, December 13, 2016. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ruth Welsh 12/19/2016
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 12

Report ID: 21272 - 875576

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LABORATORY ACCREDITATIONS & CERTIFICATIONS

| | |
|--------------------------|--|
| Accreditor: | Pennsylvania Department of Environmental Protection, Bureau of Laboratories |
| Accreditation ID: | 02-00538 |
| Scope: | NELAP Non-Potable Water and Solid & Hazardous Waste |
| Accreditor: | West Virginia Department of Environmental Protection, Division of Water and Waste Management |
| Accreditation ID: | 395 |
| Scope: | Non-Potable Water |
| Accreditor: | South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification |
| Accreditation ID: | 89009003 |
| Scope: | Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA) |
| Accreditor: | NELAP; New Jersey, Department of Environmental Protection |
| Accreditation ID: | PA026 |
| Scope: | Non-Potable Water; Solid and Chemical Materials |
| Accreditor: | NELAP; New York, Department of Health Wadsworth Center |
| Accreditation ID: | 11815 |
| Scope: | Non-Potable Water; Solid and Hazardous Waste |
| Accreditor: | State of Connecticut, Department of Public Health, Division of Environmental Health |
| Accreditation ID: | PH-0263 |
| Scope: | Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA) |
| Accreditor: | NELAP; Texas, Commission on Environmental Quality |
| Accreditation ID: | T104704453-09-TX |
| Scope: | Non-Potable Water |
| Accreditor: | State of New Hampshire |
| Accreditation ID: | 299409 |
| Scope: | Non-potable water |
| Accreditor: | State of Georgia |
| Accreditation ID: | Chapter 391-3-26 |
| Scope: | As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC). |



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SAMPLE SUMMARY

Workorder: 21272 LEWIS DRIVE-BELTON, SC

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-----------|--------------|--------|-----------------|------------------|
| 212720001 | MW-15-120716 | Water | 12/7/2016 11:30 | 12/13/2016 10:45 |
| 212720002 | MW-42-120716 | Water | 12/7/2016 14:40 | 12/13/2016 10:45 |
| 212720003 | MW-40-120716 | Water | 12/7/2016 14:55 | 12/13/2016 10:45 |

Report ID: 21272 - 875576

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ANALYTICAL RESULTS

Workorder: 21272 LEWIS DRIVE-BELTON, SC

Lab ID: **212720001** Date Received: 12/13/2016 10:45 Matrix: Water
Sample ID: **MW-15-120716** Date Collected: 12/7/2016 11:30

| Parameters | Results | Units | PQL | MDL | DF | Analyzed | By | Qualifiers |
|---|---------|-------|-----|-----|------|----------|------------------|------------|
| RISK - PAES | | | | | | | | |
| Analysis Desc: AM20GAX Analytical Method: AM20GAX | | | | | | | | |
| Carbon Dioxide | 110 | mg/l | | 5.0 | 0.45 | 1 | 12/16/2016 08:34 | BW |

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ANALYTICAL RESULTS

Workorder: 21272 LEWIS DRIVE-BELTON, SC

Lab ID: 212720002 Date Received: 12/13/2016 10:45 Matrix: Water
Sample ID: MW-42-120716 Date Collected: 12/7/2016 14:40

| Parameters | Results | Units | PQL | MDL | DF | Analyzed | By | Qualifiers |
|---|---------|-------|-----|-----|------|----------|------------------|------------|
| RISK - PAES | | | | | | | | |
| Analysis Desc: AM20GAX Analytical Method: AM20GAX | | | | | | | | |
| Carbon Dioxide | 57 | mg/l | | 5.0 | 0.45 | 1 | 12/16/2016 08:44 | BW |

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ANALYTICAL RESULTS

Workorder: 21272 LEWIS DRIVE-BELTON, SC

Lab ID: **212720003** Date Received: 12/13/2016 10:45 Matrix: Water
Sample ID: **MW-40-120716** Date Collected: 12/7/2016 14:55

| Parameters | Results | Units | PQL | MDL | DF | Analyzed | By | Qualifiers |
|---|---------|-------|-----|-----|------|----------|------------------|------------|
| RISK - PAES | | | | | | | | |
| Analysis Desc: AM20GAX Analytical Method: AM20GAX | | | | | | | | |
| Carbon Dioxide | 60 | mg/l | | 5.0 | 0.45 | 1 | 12/16/2016 08:56 | BW |

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 21272 LEWIS DRIVE-BELTON, SC

DEFINITIONS/QUALIFIERS

| | |
|-------|--|
| MDL | Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection. |
| PQL | Practical Quantitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation. |
| ND | Not detected at or above reporting limit. |
| DF | Dilution Factor. |
| S | Surrogate. |
| RPD | Relative Percent Difference. |
| % Rec | Percent Recovery. |
| U | Indicates the compound was analyzed for, but not detected at or above the noted concentration. |
| J | Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL). |

n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA

Workorder: 21272 LEWIS DRIVE-BELTON, SC

| | | | |
|-------------------------|---------------------------------|------------------|---------|
| QC Batch: | DISG/5815 | Analysis Method: | AM20GAX |
| QC Batch Method: | AM20GAX | | |
| Associated Lab Samples: | 212720001, 212720002, 212720003 | | |

METHOD BLANK: 46068

| Parameter | Units | Blank | Reporting | | Qualifiers |
|------------------------|-------|--------|-----------|------------|------------|
| | | Result | Limit | Qualifiers | |
| RISK Carbon Dioxide | mg/l | 0.45U | 0.45 n | | |

LABORATORY CONTROL SAMPLE & LCSD: 46070 46072

| Parameter | Units | Spike | LCS | LCSD | LCS | LCSD | % Rec | % Rec | Max | Qualifiers |
|------------------------|-------|-------|--------|--------|-------|-------|--------|-------|-----|------------|
| | | Conc. | Result | Result | % Rec | % Rec | Limit | RPD | RPD | |
| RISK Carbon Dioxide | mg/l | 120 | 120 | 110 | 99 | 94 | 80-120 | 5.2 | 20 | n |

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 21272 LEWIS DRIVE-BELTON, SC

QUALITY CONTROL PARAMETER QUALIFIERS

- n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 21272 LEWIS DRIVE-BELTON, SC

| Lab ID | Sample ID | Prep Method | Prep Batch | Analysis Method | Analysis Batch |
|-----------|--------------|-------------|------------|-----------------|----------------|
| 212720001 | MW-15-120716 | | | AM20GAX | DISG/5815 |
| 212720002 | MW-42-120716 | | | AM20GAX | DISG/5815 |
| 212720003 | MW-40-120716 | | | AM20GAX | DISG/5815 |

Report ID: 21272 - 875576

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Chain of Custody

21272

Workorder: 92322541

Workorder Name: LEWIS DRIVE-BELTON, SC

Results Requested By: 12/12/2018 KC 12/3/14

Pace Analytical
www.paceanalytical.com

| Workorder: 92322541 | Workorder Name: LEWIS DRIVE-BELTON, SC | Requester Requested By: | | | | | | | | | | |
|--|--|-------------------------|---------------------|------------------------|--|---------------|---------|---------|---------|---------|----------|--------------|
| Report / Invoice To: | Subcontractor: | Requested Analysis: | | | | | | | | | | |
| Kevin Godwin Pace Analytical Charlotte 9800 Kinney Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092 Email: kevin.godwin@pacelabs.com | | | | | | | | | | | | |
| <p style="text-align: center;">Pace Energy</p> <p style="text-align: center;">P.O. KRL 10152</p> <p style="text-align: center;">220 willow pit way</p> <p style="text-align: center;">Pittsburgh, PA 15238</p> | | | | | | | | | | | | |
| State of Sample Origin: SC | | | | | | | | | | | | |
| Item | Sample ID | Collect Date/Time | Lab ID | Matrix | Preserved Containers | | | | | | Comments | |
| | | | | | Unpreserved | CO_2 | Am206px | Am206px | Am206px | Am206px | | |
| 1 | MW-15-120716 | 12/7/2016 11:30 | 92322541001 | Water | 2 | | | X | | | | LAB USE ONLY |
| 2 | MW-42-120716 | 12/7/2016 14:40 | 92322541002 | Water | 2 | | | X | | | | |
| 3 | MW-40-120716 | 12/7/2016 14:55 | 92322541003 | Water | 2 | | | X | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| Transfers | Released By | Date/Time | Received By | Date/Time |  12/7/16 1700  12/13/16 1045 | | | | | | | |
| 1 | | 12/7/16 1700 | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| Cooler Temperature on Receipt  °C | | | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N | | | | | | | |

Cooler Receipt Form

Client Name: Pace Project: Lewis Drive Lab Work Order: 21272
9232254

A. Shipping/Container Information (circle appropriate response)

Courier: FedEx UPS USPS Client Other: _____ Air bill Present: Yes No

Tracking Number: 77929594376

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Cooler/Box Packing Material: Bubble Wrap Absorbent Foam Other: _____

Type of Ice: Wet Blue None Ice Intact: Yes Melted

Cooler Temperature: 2.10C Radiation Screened: Yes No Chain of Custody Present: Yes No

Comments: _____

B. Laboratory Assignment/Log-in (check appropriate response)

| | YES | NO | N/A | Comment Reference non-Conformance |
|--|-----|----|-----|--------------------------------------|
| Chain of Custody properly filled out | ✓ | | | |
| Chain of Custody relinquished | ✓ | | | |
| Sampler Name & Signature on COC | | ✓ | | |
| Containers intact | ✓ | | | |
| Were samples in separate bags | ✓ | | | |
| Sample container labels match CDC Sample name/date and time collected | ✓ | | | |
| Sufficient volume provided | ✓ | | | |
| PAES containers used | ✓ | | | |
| Are containers properly preserved for the requested testing? (as labeled) | ✓ | | | |
| If an unknown preservation state, were containers checked? Exception: VOA's coliform | | | ✓ | If yes, see pH form. |
| Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container? | | | ✓ | |

Comments: _____

Cooler contents examined/received by: 19 Date: 12.13.16

Project Manager Review: ew Date: 12-14-16