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4th Qtr 2017 Monitoring Report



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Ms. Bobbi Coleman
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Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

Subject: Fourth Quarter 2017 Monitoring Report
Plantation Pipe Line Company
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693, "Kinder Morgan Belton Pipeline Release"

Dear Ms. Coleman,

On behalf of Plantation Pipe Line Company (Plantation), CH2M HILL Engineers, Inc. (CH2M) is submitting this Fourth Quarter 2017 Monitoring Report for the Lewis Drive Remediation Site in Belton, South Carolina. This report summarizes the work performed at the site between October 1, 2017, and December 31, 2017.

1.0 Work Activities

The following activities were performed during the fourth quarter 2017 in accordance with the Corrective Action Plan (CAP) (CH2M, 2016) and the CAP Addendum, Revision 1 (CH2M, 2017a):

- Conducted three groundwater events and one surface water sampling event.
- Operated vertical sparging wells in the areas of Brown's Creek and Cupboard Creek (Figure 1), as well as the stream aerators.
- Operated horizontal sparging wells in the Hayfield Zone (Figure 1).
- Performed routine operation and maintenance (O&M) events on the sparging system.
- Recorded changes in water levels and barometric pressures using In Situ Rugged Troll 100 water level data loggers.
- Performed weekly free product recovery in wells with measurable product thickness in the Brown's Creek Protection Zone (BCPZ) and Cupboard Creek Protection Zone (CCPZ).
- Installed residuum monitoring well MW-43 and bedrock monitoring wells MW-06B, MW-09B, MW-43B, MW-48B, and MW-50B.
- Rehabilitated existing monitoring well MW-02B.
- Transported and disposed of liquid waste generated during the completion of work onsite.
- Performed weekly inspections of surface water features at Brown's Creek and Cupboard Creek.

2.0 Work Procedures

2.1 Gauging Events

Monitoring wells, surface water locations, and temporary wells (piezometers) were gauged monthly. Product recovery features (recovery sumps, trenches, and wells) were gauged once per week.

2.2 Product Recovery

As agreed upon with the South Carolina Department of Health and Environmental Control (SCDHEC, 2018), free product recovery was focused on the BCPZ and CCPZ during this reporting period. Product recovery was performed once weekly in these two zones in recovery wells, sumps, and trenches that had measurable product thickness. Product recovery outside of these zones was performed as time permitted. Vacuum trucks were used to recover and transfer the recovered product and petroleum-contact water into two onsite poly tanks for temporary storage and separation. During product recovery, color changes of the extracted fluids were monitored, and extraction ceased when recovered liquids from the recovery features were observed to be clear and emulsification was minimal. During each recovery event, the operator recorded the duration of product recovery from each recovery feature or well. The quantity of recovered product and petroleum-contact water was tracked by measuring these fluid levels in the onsite poly tanks prior to and after the recovery event. When the fluid levels of both poly tanks were full (poly tank neck), the fluids were decanted and transported to the A&D Environmental facility in Archdale, North Carolina, for disposal.

2.3 Surface Water

Weekly inspections of surface water features were performed at the site. The inspection route used is illustrated on Figures 2A and 2B. Observations made during this reporting period are summarized in Table 1. No new signs of distressed vegetation, hydrocarbon sheens, or odors were observed during the inspections for this reporting period.

Surface water samples were collected on a quarterly basis during this reporting period as stated in the CAP Addendum, Revision 2 (CH2M, 2017c). However, in accordance with SCDHEC's request, monthly surface water sampling resumed in December 2017.

Samples were collected on December 5 and 14, 2017. Fifteen surface water samples were collected on December 5, 2017, at locations SW-01, SW-02, SW-03, SW-04, SW-07, SW-08, SW-09, SW-10, SW-11, SW-12, SW-13, SW-14, FP-01, FP-02, and FP-03 (locations SW-05 and SW-06 in Cupboard Creek were dry). As a result of an anomalous detection of hydrocarbons at SW-02 from December 5, 2017, an additional sampling event was performed on December 14, 2017. Fourteen surface water samples were collected on December 14, 2017, at the same locations listed above except SW-14, which is in a different watershed from SW-02.

Samples were collected in accordance with the project *Quality Assurance Project Plan (QAPP), Revision 3* (CH2M, 2017e) and were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and naphthalene using U.S. Environmental Protection Agency (EPA) Method 8260B (see Table 2). Sample containers were 40-milliliter (mL) volatile organic analysis (VOA) vials containing a hydrochloric acid (HCl) preservative. Surface water samples were collected by dipping the sample vials into the creek at each sampling location to fill the vials. The vials were labeled, packed in wet ice, and transported by FedEx under standard chain-of-custody (COC) procedures to ESC Lab Sciences in Mount Juliet, Tennessee. Laboratory reports for surface water samples and COC records are included in Attachment A. Laboratory results are summarized in Table 2.

2.4 Groundwater Sampling Events

Three groundwater sampling events were performed during the reporting period, on October 3 and 4, 2017 (Event 1), November 7 and 8, 2017 (Event 2), and December 4 through 7, 2017 (Event 3). Prior to each sampling event, a comprehensive round of groundwater gauging was performed using an oil-water interface probe to measure the depth to water and test for the presence and thickness (if present) of product. The oil-water interface probe was decontaminated before each measurement.

Decontamination was accomplished by wiping the interface probe with a clean paper towel that contained Alconox and deionized water, and a second clean paper towel that only contained deionized water, or by spraying down the probe using a spray bottle containing Alconox and deionized water followed by a final deionized water rinse. If the paper towel method was used, two new clean paper towels were used at each location and were properly disposed. Groundwater elevation and product thickness data are summarized in Table 3. Figures 2A and 2B show groundwater elevations in the residuum and bedrock aquifers, respectively, while Figure 3 shows the product thickness data.

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

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

Water samples were collected by filling 40-mL VOA vials containing HCl preservative. The vials were labeled, packed on wet ice, and transported by FedEx under standard COC procedures to ESC Lab Sciences in Mount Juliet, Tennessee. Samples were analyzed for BTEX, 1,2-dichloroethane (1,2-DCA), methyl tertiary butyl ether (MTBE), and naphthalene using EPA Method 8260B. Laboratory data sheets for groundwater samples and COC records are included in Attachment B. Laboratory results are summarized in Table 5.

2.5 Sparging System O&M

Sparging was initiated on March 6, 2017, according to the Startup Plan (CH2M, 2017a), with routine O&M activities performed during this reporting period (Attachment C contains the O&M logs). Sparging activities are summarized by remediation area below. When sparging rates were increased in any of the wells, air monitoring was performed with a photoionization detector and visual observations were made near the sparging wells.

- **BCPZ:** Sparging in the BCPZ was performed using a curtain of 27 vertical sparging wells. The flow rates in these wells were increased from 4 to 10 standard cubic feet per minute (scfm) by the end of the reporting period. Additionally, air was injected into two submersible diffusion aerators installed in Brown's Creek. The flow rates in these aerators were increased from 4 to 12.5 scfm during this reporting period.
- **CCPZ:** Sparging in the CCPZ was performed using a curtain of 19 vertical sparging wells. The flow rates in these wells were increased from 4 to 10 scfm during this reporting period.
- **Shallow Bedrock Zone:** No sparging has been performed in the Shallow Bedrock Zone to date. A pilot plan for sparging in the Shallow Bedrock Zone was submitted to SCDHEC on May 8, 2017, and approved on December 14, 2017.
- **Hayfield Zone:** Sparging in the Hayfield Zone was performed in three horizontal wells. The horizontal wells were briefly turned off between September 26, 2017, and October 9, 2016 to allow for well installation and repair activities in the Hayfield Zone. Subsequently, flow rates in these wells were increased weekly by approximately 0.04 scfm per foot of screen (scfm/ft) to 0.58 scfm/ft by the end of this reporting period. Wells HAS-1, HAS-2, and HAS-3 have screen lengths of approximately 752 feet, 715 feet, and 377 feet, respectively. Therefore, the total injection rate in the Hayfield Zone was increased to 1,070 scfm during this reporting period.

Water levels were measured in the BCPZ, CCPZ, and Hayfield Zone to document the influence of the sparging system on the residuum aquifer. In October 2017, water levels were measured continuously from five locations with water level data loggers (In Situ Rugged Troll 100) in MW-02, MW-12, MW-15, MW-20, and MW-40, and with barometric pressure loggers in MW-01 and MW-10. In November 2017, the water level data logger in MW-08 was removed and installed in MW-25 (bringing the total locations monitored to six) so additional data could be collected within the BCPZ.

2.6 Additional Activities

The following additional activities were performed during this reporting period:

- In October 2017:
 - Six monitoring wells (MW-06B, MW-09B, MW-43, MW-43B, MW-48B, and MW-50B) were installed using a Geoprobe 8040 DT or B-59 Mobile Drill Rig. MW-06B, MW-09B, and MW-50B were installed on October 17, 2017; MW-48B was installed on October 18, 2017; and MW-43 and MW-43B were installed on October 20, 2017. The residuum monitoring well screen was 5 feet in length and total depth was 8 feet. The bedrock wells were installed as open hole wells with total depths ranging from 51 to 151 feet. The wells were installed in accordance with SCDHEC *Well Standards* R. 61-71 (SCDHEC, 2016) and as discussed in the letter to SCDHEC, *Request for Well Permit to Install Additional Monitoring Wells*, dated May 8, 2017 (CH2M, 2017d). The boring logs, well construction details, and Form 1903s for these wells and the wells installed in September 2017 (MW-46, MW-47, and MW-49) are provided in Attachment D.
 - Monitoring well MW-02B was rehabilitated on October 5, 2017, due to silt buildup. The well was redeveloped to remove silt from the bottom of the well and then was converted from an open hole well to a traditional well with 2-inch-diameter, polyvinyl chloride (PVC) casing connected to 13 feet of PVC 0.010 slotted screen, to a total depth of 81 feet. The well was installed in accordance with SCDHEC *Well Standards* R. 61-71 (SCDHEC, 2016) and as discussed in the letter to SCDHEC, *Request for Well Permit to Install Additional Monitoring Wells*, dated May 8, 2017 (CH2M, 2017d). The boring log, well construction detail, and Form 1903s for this well are provided in Attachment D.

- In November 2017:
 - Recovered fluids were transported to the A&D Environmental facility in Archdale, North Carolina, for disposal. See Attachment E for the Bills of Lading and Table 6 for a summary of the total product transported and disposed of offsite.

3.0 Discussion of Results

3.1 Product Recovery

During the current quarter (October 1 through December 31, 2017), the amount of product recovered at the site was too low to be measured. The product recovered from the site was aggregated into two, large 1,500-gallon poly tanks and gauged weekly for product thickness, but the amount of product gauged in the poly tanks did not measurably change from the beginning of the reporting period to the end.

Table 3 summarizes the dates, times, and recovery features used for product recovery. Table 6 shows the dates and quantities of product that were shipped offsite for disposal. Attachment E contains the Bills of Lading for transportation of fluids offsite for disposal. Since the beginning of free product recovery through this reporting period (December 9, 2014, through December 31, 2017), approximately 222,974 gallons (5,309 barrels) of product have been recovered.

3.2 Surface Water

During this reporting period, BTEX concentrations were detected in surface water at SW-01, SW-02, SW-04 and SW-12 (Table 2). Benzene was the only constituent that exceeded the surface water standard for protection of human health for consumption of water and organisms (SCDHEC, 2014) of 2.2 micrograms per liter ($\mu\text{g}/\text{L}$). These exceedances were located at SW-01, SW02, and SW-12. Benzene concentrations above the surface water standard were detected as follows:

- On December 5, 2017:
 - 26.6 $\mu\text{g}/\text{L}$ benzene at SW-02
 - 16.6 $\mu\text{g}/\text{L}$ benzene at SW-12
- On December 14, 2017:
 - 4.52 $\mu\text{g}/\text{L}$ benzene at SW-01
 - 21.1 $\mu\text{g}/\text{L}$ benzene at SW-02
 - 9.19 $\mu\text{g}/\text{L}$ benzene at SW-12

SW-12 is located near a known seep where groundwater impacts (including potential free product) entered Brown's Creek. Concentrations at SW-12 have decreased by three orders of magnitude since September 2016.

The detections at SW-01 and SW-02 are anomalous and will continue to be monitored. Plantation contracted a forensic review of the detection at SW-02 which concluded that the chemical profiles of the samples collected at SW-02 differed significantly from SW-12 and therefore the impacts at SW-02 cannot be attributed to migration and degradation.

Construction details for the stream gauges are presented in Table 7. Sample results are summarized in Table 2. Trends for surface water sampling locations SW-01, SW-02, and SW-12 are presented in Attachment F. Analytical data sheets and COC records are included in Attachment A.

3.3 Groundwater Flow and Product Distribution

Water levels from the December 2017 gauging event were used to prepare potentiometric surface maps for the site (Figures 2A and 2B). Groundwater in both the residuum (Figure 2A) and bedrock (Figure 2B) aquifers mimics the topography of the site and flows from topographic highs to topographic lows. Cupboard Creek flows intermittently, indicating the primary direction of groundwater flow is northeast toward Brown's Creek. The December 2017 water table configurations and direction of groundwater flow are consistent with previous findings.

Product thicknesses sitewide decreased significantly during this reporting period, and are presented alongside well gauging data in Table 3. Results are summarized as follows:

- On October 20 and 21, 2017, seven locations had product thicknesses greater than 0.5 foot: three piezometers, one recovery sump, and three recovery wells. RS-05, RW-07, TW-42, and TW-45 are under the influence of the sparging system, while RW-05, RW-15, and TW-28 are not under the influence.
- On November 12 and 17, 2017, three locations had product thicknesses greater than 0.5 foot: one piezometer, one recovery sump, and one recovery well. RS-05 and TW-42 are under the influence of the sparging system, while RW-05 is not under the influence.
- On December 21 and 27, 2017, six locations had product thicknesses greater than 0.5 foot: one piezometer, one recovery sump, and four recovery wells. RS-05 is under the influence of the sparging system while RW-02, RW-04, RW-05, RW-15, and TW-28 are not under the influence.

The product extent in June 2016 is compared to that in December 2017 on Figure 3, demonstrating the decrease of product thickness and extent over the last 18 months. This time period represents the largest decrease in product thickness and extent for the site. For example, the product thickness in MW-18 decreased from 3.16 feet in June 2016 to no recordable product in December 2017; and in MW-20, product thickness decreased from 2.29 feet in June 2016 to 0.35 foot in December 2017. Additionally, the extent of product has decreased since product is no longer measurable in MW-09, MW-12, MW-16, MW-18, RS-06, RS-07, RS-09, RS-11, RS-12, RS-13, RW-10, RW-11, RW-14, TW-84, and TW-94. Hydrographs for product recovery wells and select monitoring wells representative of general product thickness trends are presented in Attachment G.

Stream elevations are tabulated in Table 3 and are presented with groundwater elevations on Figure 2A. Construction details for recovery and nonrecovery features are presented in Table 8.

3.4 Dissolved Oxygen Distribution

DO measurements in groundwater in October, November, and December 2017 are provided in Table 4. The average DO concentration since the previous reporting period remained stable in residuum wells and increased in bedrock wells. In residuum wells, the average DO concentration remained relatively stable from 6.04 milligrams per liter (mg/L) in September 2017 to 5.73 mg/L in December 2017. In bedrock wells, the average DO concentration increased from 1.23 mg/L in September 2017 to 2.89 mg/L in December 2017.

3.4.1 Brown's Creek Protection Zone

DO concentrations in the BCPZ decreased from 2.97 mg/L in September 2017 to 1.64 mg/L in December 2017.

3.4.2 Cupboard Creek Protection Zone

DO concentrations in the CCPZ decreased from 3.68 mg/L in September 2017 to 2.48 mg/L in December 2017.

3.4.3 Hayfield Zone

The average DO concentration in the Hayfield Zone increased from 6.73 mg/L in September 2017 to 7.90 mg/L in December 2017.

3.4.4 Shallow Bedrock Zone

Sparging wells in the Shallow Bedrock Zone were not in operation during this reporting period. DO levels in this zone were relatively stable.

3.5 Groundwater Monitoring Results

Groundwater monitoring results this quarter indicate that there are significant decreases in dissolved concentrations of hydrocarbons in the BCPZ, CCPZ, and Hayfield Zone, and stable trends in the Shallow Bedrock Zone, in bedrock wells, and in other locations outside the influence of the sparging system. Monitoring results for samples collected in October, November, and December 2017 are presented in Table 5. Table 5 presents all the results that have been collected at the site since July 2015. The laboratory analytical reports for this quarter are provided in Attachment B. Groundwater analytical results are screened against the risk-based screening levels listed in the South Carolina Programmatic QAPP, Table D1 (South Carolina UST Management Division, 2016), which are provided at the bottom of Table 5. The December 2017 results are shown on Figures 4A and 4B, and summarized in the sections that follow.

3.5.1 Brown's Creek Protection Zone

Dissolved concentrations are on an overall decreasing trend in the residuum aquifer of the BCPZ. For example, in monitoring wells MW-15, MW-39, and MW-41, benzene concentrations have decreased by one to three orders of magnitude. However, concentrations of BTEX constituents in MW-40 remain stable, with benzene detected in December 2017 at 14,300 µg/L. Concentrations are also observed to be increasing at MW-38, from nondetect in September 2017 to 102 µg/L of benzene in December 2017.

Benzene concentrations appear to be stable in bedrock wells: 1,760 µg/L in MW-15B in December 2017, and at or near nondetect in all other bedrock monitoring wells.

Benzene was detected above its screening level in 8 of 15 residuum monitoring wells in the BCPZ, ranging from 9.82 µg/L (MW-42) to 14,300 µg/L (MW-40). Toluene was detected above its screening level in MW-12 and MW-40. Total xylenes were detected above their screening levels in MW-40. MTBE was detected above its screening level in MW-15, MW-34, and MW-39. Naphthalene was detected above its screening level in MW-12. MW-28 could not be sampled due to an insufficient volume of water in the well. Constituents in cross-gradient monitoring wells MW-37 (to the north) and MW-35 (to the south) have been below screening levels since system startup. Constituent concentrations in monitoring well MW-24 was below screening levels for the third and fourth quarter and MW-43 and MW-49 were below screening levels for the fourth quarter 2017. These BTEX concentrations reflect generally stable trends in this zone since initiating sparging in this zone on March 6, 2017. Prior to initiating sparging, BTEX concentrations were increasing.

Benzene was detected above its screening level in one of five bedrock monitoring wells in the BCPZ, at the concentration of 1,760 µg/L in MW-15B. Toluene, MTBE, and naphthalene were also detected above their screening levels in MW-15B at 3,630 µg/L, 135 µg/L, and 37.6 µg/L, respectively. Constituents have been nondetect in MW-25B since March 2017, and MW-24B was nondetect since September 2017.

3.5.2 Cupboard Creek Protection Zone

Dissolved concentrations in the CCPZ were increasing, but have stabilized since initiating air sparging. Benzene concentrations remain relatively stable in MW-23 at 693 µg/L.

Benzene and MTBE were detected above their screening levels in one residuum monitoring well in the CCPZ (693 µg/L and 99.5 µg/L, respectively, in MW-23). MTBE was also detected above its screening level in residuum monitoring well MW-46 at a concentration of 85.5 µg/L. MW-19 was not sampled because it was dry and MW-20 was not sampled because it contained free product. Downgradient monitoring wells MW-26 and MW-29 were nondetect for all constituents.

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

3.5.3 Hayfield Zone

Dissolved concentrations are decreasing overall in the Hayfield Zone. For example, in MW-03, MW-02, and MW-09, benzene concentrations have decreased by two to three orders of magnitude. Locations outside the influence of the sparging system remain recalcitrant, notably in the vicinity of bedrock wells MW-13B and MW-17B.

Benzene was detected above its screening level in 3 of 22 residuum monitoring wells in the Hayfield Zone ranging from 17.5 µg/L (MW-36) to 153 µg/L (MW-02). MTBE was also detected above its screening level in MW-02. All other constituents were not detected above their respective screening levels. Constituents in downgradient monitoring wells MW-03, MW-04, MW-05, MW-06, MW-08, MW-10, MW-14, MW-21, MW-31, MW-32, MW-33T, and MW-47 were below screening levels. A decreasing trend in the Hayfield Zone is beginning to develop in the residuum aquifer with the reductions in concentrations in constituents detected and the constituents exceeding the screening criteria. Seven residuum monitoring wells in the Hayfield Zone were not sampled because of lack of water (MW-07, MW-13, MW-17, MW-30, and MW-45) and presence of product (MW-16 and MW-18).

Benzene was detected above its screening level in four of ten bedrock monitoring wells ranging in concentrations from 21.8 µg/L in MW-09B to 10,600 µg/L in MW-17B. Concentrations of ethylbenzene, toluene, MTBE, and naphthalene exceeded their screen levels at MW-17B. MTBE was also exceeded its screening level in MW-13B. Constituents in monitoring wells MW-02B, MW-06B, MW-36B, MW-45B, and MW-48B were below screening levels. All bedrock monitoring wells in the Hayfield Zone were sampled.

3.5.4 Shallow Bedrock Zone

In the residuum of the Shallow Bedrock Zone, one well contained product (MW-11) and two wells were dry (MW-22 and MW-44). Benzene was the only constituent detected above its screening levels in groundwater (MW-27) at a concentration of 6.48 µg/L.

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

3.6 Sparging System Operating Efficiency and Performance Data

Between September 26, 2017, and December 21, 2017, the sparging system operated a total of approximately 2,208 hours, with an operating efficiency of 100 percent (operational “up” time vs. available time in the reporting period). Since two compressors were operating during this timeframe, system maintenance activities could be conducted without resulting in downtime for the system. The horizontal wells were briefly turned off between September 26, 2017, and October 9, 2016, to allow for well installation and repair activities in the Hayfield Zone. In December 2017, sparging flow rates in the stream aerators, horizontal wells, and vertical wells were at 82 percent, 77 percent, and 66 percent of design flow capacity, respectively.

4.0 Conclusions

The following conclusions are based on the site work performed between October 1, 2017, and December 31, 2017:

- Product thickness values have declined in both recovery and nonrecovery features across the site. The number of locations with product thickness greater than 0.5 foot has stabilized from July 2017 to December 2017, with a maximum of 7 locations, and was markedly fewer than the number observed in April 2017 (21 locations). The locations that have product thickness greater than 0.5 foot are not located near any surface water bodies at the site.
- Although product evacuation events were performed weekly between October and December 2017, the volume of product recovered was too low to be measured. To date (December 9, 2014, through the end of December 2017), approximately 222,974 gallons (5,309 barrels) of product have been recovered and removed from the site.
- Two surface water sampling events were performed during this quarter. Anomalous detections at sampling points SW-01 and SW-02 are under investigation. Concentrations at SW-12, near a known seep, are on a decreasing trend.
- The average DO concentration since the previous reporting period remained stable in residuum wells and increased in bedrock wells. Sparging will continue to be increased to design flow rates during the next quarter to meet the increasing biomass oxygen demand.
- Groundwater monitoring results this quarter indicate that there are significant decreases in dissolved concentrations of hydrocarbons in the BCPZ, CCPZ, and Hayfield Zone, and stable trends in the Shallow Bedrock Zone, in bedrock wells, and in other locations outside the influence of the sparging system.
- During this reporting period, the sparging system had an operating efficiency of 100 percent. Downtime during this period was due to scheduled O&M activities and no flow to HAS-02 due to a stuck valve. Operating flows in the stream aerators, horizontal wells, and vertical wells were at 82 percent, 77 percent, and 66 percent of design flow capacity, respectively.

5.0 Future Activities

This section describes future activities planned for the site.

5.1 Groundwater and Surface Water Monitoring

- Continue monthly gauging and sampling of monitoring wells and surface water sampling locations in accordance with the CAP Addendum, Revision 2 (CH2M, 2017c) submitted to SCDHEC on October 12, 2017.
- Continue routine visual inspection of Brown's Creek and Cupboard Creek as outlined in the CAP Addendum, Revision 2 (CH2M, 2017c).
- Install additional monitoring wells to expand the monitoring network north of MW-30 and upgradient of MW-38.
- Abandon 1-inch-diameter wells (piezometers) because the existing 2-inch monitoring well network is now sufficient for groundwater elevation and product thickness measurements. The piezometers are now redundant and cannot be used for product removal.

5.2 Product Recovery

- Replace vacuum truck operations at Lewis Drive with product-skimming canisters and petroleum-absorbent socks. This will allow more accurate tracking of free product recovered by wells.

5.3 System O&M

- Continue routine system O&M activities for the sparging system as described in the CAP Addendum, Revision 2 (CH2M, 2017c).
- Continue sparging in the BCPZ and CCPZ. Increase flows in each area up to the design flow rate of 15 scfm per vertical well according to the Sparging Operating Limits letter submitted to SCDHEC on July 26, 2017 (CH2M, 2017b).
- Continue sparging in the horizontal wells in the Hayfield Zone. Increase flows in each well up to the maximum design flow rate of 0.75 scfm/ft of screen.
- Continue operating the stream diffusion aerators and increase flows up to the design flow rate of 15 scfm in each, according to the Sparging Operating Limits letter (CH2M, 2017b).
- Implement the bedrock sparging pilot study.

6.0 References

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

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

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

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

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South Carolina Department of Health and Environmental Control (SCDHEC). 2016. *R. 61-71, Well Standards*. May 27.

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.
Program Manager

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



Jonathan Grimes, P.G.
South Carolina Registered Professional Geologist #2235



27 Feb 18

Date

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File

Attachments:

Table 1 – Field Observation Log
Table 2 – Analytical Results for Surface Water
Table 3 – Groundwater Elevation and Product Thickness Data
Table 4 – Dissolved Oxygen Results for Groundwater
Table 5 – Analytical Results for Groundwater
Table 6 – Cumulative Product Shipped from the Site
Table 7 – Stream Gauge Construction Information
Table 8 – Well Construction Information

Figure 1 – Site Overview
Figure 2A – Residuum Groundwater and Surface Water Elevation Map
Figure 2B – Bedrock Groundwater Elevation Map
Figure 3 – Product Thickness Map
Figure 4A – Groundwater Analytical Results in Residuum Aquifer, December 2017
Figure 4B – Groundwater Analytical Results in Bedrock Aquifer, December 2017

Attachment A – Surface Water Analytical Laboratory Reports
Attachment B – Groundwater Analytical Laboratory Reports
Attachment C – Operation and Maintenance Logs
Attachment D – Soil Boring Logs, Well Completion Diagrams, and Form 1903s
Attachment E – Bills of Lading
Attachment F – Surface Water Analytical Trends
Attachment G – Product Thickness Trends

Tables

Table 1. Field Observation Log

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

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

Note:

ID = identification

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
Screening Value:			µg/L	2.2 ^a	530 ^a	1,000 ^a	NA ^b	NA ^b	NA ^b	NA ^b
SW-RELEASE	SW-RELEASE	1/20/2015	µg/L	330	490	2,400	2,100	940	140	5.7 J
SW-01	SW01-121114	12/11/2014	µg/L	0.5 U	1 U	1 U	2 U	1 U	1 U	1 U
	SW01-022515	2/25/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW01-030215	3/2/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW01-031115	3/11/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW01-031815	3/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW01-033115	3/31/2015	µg/L	5 U ^c	5 U	17.6	10 U	5 U	5 U	NA
	SW01-042215	4/22/2015	µg/L	5 U ^c	5 U	14.9	10 U	5 U	5 U	NA
	SW01-050715	5/7/2015	µg/L	5 U ^c	5 U	7.0	10 U	5 U	5 U	NA
	SW01-051915	5/19/2015	µg/L	5 U ^c	5 U	8.8	10.6	6.4	5 U	NA
	SW01-060315	6/3/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW01-061815	6/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW01-071515	7/15/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW01-081315	8/13/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW01-092415	9/24/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW01-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW01-112415	11/24/2015	µg/L	7.8	1.5	13.0	9.3	4.6	1 U	NA
	SW01-122215	12/22/2015	µg/L	4.6	1 U	8.8	5.5	3.1	1 U	NA
	SW01-012516	1/25/2016	µg/L	17.6	2.3	36.0	11.3	6.3	1 U	NA
	SW01-021816	2/18/2016	µg/L	23.4	3.0	55.6	15.0	9.1	1 U	NA
	SW01-031616	3/16/2016	µg/L	20.1	2.4	42.3	13.3	7.6	1 U	NA
	SW01-042716	4/27/2016	µg/L	20.8	1 U	30.6	2.9	2.0	1 U	NA
	SW01-050916	5/9/2016	µg/L	16.5	1.4	16.3	7.0	4.8	1 U	NA
	SW01-062716	6/27/2016	µg/L	9	1 U	3.3	2 U	1 U	1 U	NA
	SW01-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW01-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW01-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW01-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW01-112816	11/28/2016	µg/L	5.0	1 U	10.4	4.9	8.3	1 U	NA
	SW01-122916	12/29/2016	µg/L	12.6	1 U	22.1	11.2	13.5	1 U	NA
	SW01-012017	1/20/2017	µg/L	1.0	1 U	2.3	2 U	3.5	1 U	NA
	SW01-022817	2/28/2017	µg/L	18.5	1.93	37.0	13.8	10.2	5 U	NA
	SW01-031517	3/15/2017	µg/L	3.02	1 U	5.13	2.16	1.74	5 U	NA
	SW01-032117	3/21/2017	µg/L	1 U	1 U	1.57	2 U	1 U	5 U	NA
	SW01-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW01-040517	4/5/2017	µg/L	1 U	1 U	2.25	2 U	1 U	5 U	NA
	SW01-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW01-061317	6/13/2017	µg/L	1 U	1 U	1.90	2 U	1 U	5 U	NA
	SW01-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW01-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW01-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW01-120517	12/5/2017	µg/L	1.5	1 U	1.15	2 U	2.14	5 U	NA
	SW01-121417	12/14/2017	µg/L	4.52	1 U	4.52	3.48	3.2	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
Screening Value:			µg/L	2.2 ^a	530 ^a	1,000 ^a	NA ^b	NA ^b	NA ^b	NA ^b
SW-02	SW02-121114	12/11/2014	µg/L	0.5 U	1 U	1 U	2 U	1 U	1 U	1 U
	SW02-022515	2/25/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW02-030215	3/2/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW02-031115	3/11/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW02-031815	3/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW02-033115	3/31/2015	µg/L	5 U ^c	5 U	6.0	10 U	5 U	5 U	NA
	SW02-042215	4/22/2015	µg/L	5 U ^c	5 U	13.0	10 U	5 U	5 U	NA
	SW02-050715	5/7/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW02-051915	5/19/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW02-060315	6/3/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW02-061815	6/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW02-071515	7/15/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW02-081315	8/13/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW02-092415	9/24/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW02-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW02-112415	11/24/2015	µg/L	6	1.3	10.0	7.8	4.0	1 U	NA
	SW02-122215	12/22/2015	µg/L	4.1	1 U	7.6	5.1	3.1	1 U	NA
	SW02-012516	1/25/2016	µg/L	12	1.5	25.0	8.4	4.6	1 U	NA
	SW02-021816	2/18/2016	µg/L	15.5	1.8	35.3	10.1	5.9	1 U	NA
	SW02-031616	3/16/2016	µg/L	8	1.0	17.5	5.8	3.9	1 U	NA
	SW02-042716	4/27/2016	µg/L	5.6	1 U	7.1	2 U	1 U	1 U	NA
	SW02-050916	5/9/2016	µg/L	7.1	1 U	4.5	2.2	1.6	1 U	NA
	SW02-062716	6/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW02-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW02-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW02-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW02-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW02-112816	11/28/2016	µg/L	5.4	1 U	1.6	2.6	4.8	1 U	NA
	SW02-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1.4	1 U	NA
	SW02-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW02-022817	2/28/2017	µg/L	10.7	1 U	11.0	4.14	4.23	5 U	NA
	SW02-031517	3/15/2017	µg/L	11.4	1 U	8.6	4.45	3.6	5 U	NA
	SW02-032117	3/21/2017	µg/L	8.42	1 U	2.45	2.48	2.68	5 U	NA
	SW02-033017	3/30/2017	µg/L	2.18	1 U	1 U	2 U	1 U	5 U	NA
	SW02-040517	4/5/2017	µg/L	2.87	1 U	1.12	2 U	1.14	5 U	NA
	SW02-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW02-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW02-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW02-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW02-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW02-120517	12/5/2017	µg/L	26.6	1.8	8.39	10.2	7.17	5 U	NA
	SW02-121417	12/14/2017	µg/L	21.1	1.53	9.40	9.74	7.32	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
		Screening Value:	µg/L	2.2^a	530^a	1,000^a	NA^b	NA^b	NA^b	NA^b
SW-03	SW-UPGRADIENT	1/20/2015	µg/L	0.5 U	1 U	0.23 J	2 U	1 U	1 U	1 U
	SW03-022515	2/25/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW03-030215	3/2/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW03-031115	3/11/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW03-031815	3/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW03-033115	3/31/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW03-042215	4/22/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW03-050715	5/7/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW03-051915	5/19/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW03-060315	6/3/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW03-061815	6/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW03-071515	7/15/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW03-081315	8/13/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5	NA
	--	9/24/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW03-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-112415	11/24/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-122215	12/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-012516	1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-021816	2/18/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-062716	6/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	--	8/19/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW03-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW03-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-040517	4/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW03-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
Screening Value:			µg/L	2.2 ^a	530 ^a	1,000 ^a	NA ^b	NA ^b	NA ^b	NA ^b
SW-04	SW-DOWNGRADIENT	1/20/2015	µg/L	95	27	310	110	63	94	2.7
	SW04-022515	2/25/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW04-030215	3/2/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW04-031115	3/11/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW04-031815	3/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW04-033115	3/31/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW04-042215	4/22/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW04-050715	5/7/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW04-051915	5/19/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW04-060315	6/3/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW04-061815	6/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW04-071515	7/15/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW04-081315	8/13/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW04-092415	9/24/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW04-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-112415	11/24/2015	µg/L	1.7	1 U	2.7	2.9	1.6	1 U	NA
	SW04-122215	12/22/2015	µg/L	3.3	1 U	7.3	5.2	2.7	1 U	NA
	SW04-012516	1/25/2016	µg/L	6.9	1 U	14.0	4.9	2.8	1 U	NA
	SW04-021816	2/18/2016	µg/L	10.9	1.1	25.4	7.0	4.3	1 U	NA
	SW04-031616	3/16/2016	µg/L	1 U	1 U	2.0	2 U	1.8	1 U	NA
	SW04-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-062716	6/27/2016	µg/L	1 U	1 U	1.1	2 U	1 U	1 U	NA
	SW04-072816	7/28/2016	µg/L	1 U	1 U	23.5	2 U	1 U	1 U	NA
	SW04-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW04-022817	2/28/2017	µg/L	1 U	1 U	1.13	2 U	1 U	5 U	NA
	SW04-031517	3/15/2017	µg/L	1 U	1 U	2.90	2 U	1 U	5 U	NA
	SW04-032117	3/21/2017	µg/L	1 U	1 U	3.28	2 U	1 U	5 U	NA
	SW04-033017	3/30/2017	µg/L	1 U	1 U	6.15	2 U	1 U	5 U	NA
	SW04-040517	4/5/2017	µg/L	1 U	1 U	9.47	2 U	1 U	5 U	NA
	SW04-050417	5/4/2017	µg/L	1 U	1 U	13.8	2 U	1 U	5 U	NA
	SW04-061317	6/13/2017	µg/L	1 U	1 U	1.37	2 U	1 U	5 U	NA
	SW04-071817	7/18/2017	µg/L	1 U	1 U	1.92	2 U	1 U	5 U	NA
	SW04-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW04-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW04-120517	12/5/2017	µg/L	1 U	1 U	5.53	2 U	1 U	5 U	NA
	SW04-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
		Screening Value:	µg/L	2.2 ^a	530 ^a	1,000 ^a	NA ^b	NA ^b	NA ^b	NA ^b
SW-05	SW05-022515	2/25/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW05-030215	3/2/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW05-031115	3/11/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW05-031815	3/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW05-033115	3/31/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW05-042215	4/22/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW05-050715	5/7/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	--	5/19/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/3/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/18/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	7/15/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	8/13/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/24/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	10/22/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW05-112415	11/24/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW05-122215	12/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW05-012516	1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW05-021816	2/18/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW05-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	--	4/27/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	5/9/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/27/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	7/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	8/19/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/29/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	10/31/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/29/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	1/20/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	2/28/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/15/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/21/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/30/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	4/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	5/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/13/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	7/18/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	8/2/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/14/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
Screening Value:			µg/L	2.2 ^a	530 ^a	1,000 ^a	NA ^b	NA ^b	NA ^b	NA ^b
SW-06	SW06-022515	2/25/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW06-030215	3/2/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW06-031115	3/11/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW06-031815	3/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	--	3/31/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW06-042215	4/22/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	--	5/7/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	5/19/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/3/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/18/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	7/15/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	8/13/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/24/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	10/22/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	11/24/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW06-122215	12/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW06-012516	1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW06-021816	2/18/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	--	3/16/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	4/27/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	5/9/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/27/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	7/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	8/19/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/29/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	10/31/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/29/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	1/20/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	2/28/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/15/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/21/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/30/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	4/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	5/4/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/13/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	7/18/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	8/2/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/14/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte							
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE	
		Screening Value:	µg/L	2.2 ^a	530 ^a	1,000 ^a	NA ^b	NA ^b	NA ^b	NA ^b	
SW-07	SW07-022515	2/25/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW07-030215	3/2/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW07-031115	3/11/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW07-031815	3/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW07-033115	3/31/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW07-042215	4/22/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW07-050715	5/7/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW07-051915	5/19/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW07-060315	6/3/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW07-061815	6/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW07-071515	7/15/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	--	8/13/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/24/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW07-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW07-112415	11/24/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW07-122215	12/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW07-012516	1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW07-021816	2/18/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW07-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW07-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW07-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	--	6/27/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	7/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	8/19/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/29/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	10/31/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	12/29/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	1/20/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	2/28/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW07-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW07-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW07-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW07-040517	4/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW07-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW07-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW07-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	--	8/2/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	9/5/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	SW07-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW07-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte							
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE	
Screening Value:			µg/L	2.2 ^a	530 ^a	1,000 ^a	NA ^b	NA ^b	NA ^b	NA ^b	
SW-08	SW08-022515	2/25/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW08-030215	3/2/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW08-031115	3/11/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW08-031815	3/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW08-033115	3/31/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW08-042215	4/22/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW08-050715	5/7/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW08-051915	5/19/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW08-060315	6/3/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW08-061815	6/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW08-071515	7/15/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW08-081315	8/13/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW08-092415	9/24/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW08-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW08-112415	11/24/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW08-122215	12/22/2015	µg/L	1.6	1 U	3.8	2.5	1.6	1 U	1 U	NA
	SW08-012516	1/25/2016	µg/L	2.4	1 U	5.6	2	1.3	1 U	1 U	NA
	SW08-021816	2/18/2016	µg/L	2.9	1 U	7.6	2.3	1.5	1 U	1 U	NA
	SW08-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW08-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW08-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW08-062716	6/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW08-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW08-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW08-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW08-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW08-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW08-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW08-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW08-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW08-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW08-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW08-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW08-040517	4/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW08-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW08-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW08-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW08-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW08-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW08-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW08-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte							
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE	
Screening Value:			µg/L	2.2 ^a	530 ^a	1,000 ^a	NA ^b	NA ^b	NA ^b	NA ^b	
SW-09	SW09-022515	2/25/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW09-030215	3/2/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW09-031115	3/11/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW09-031815	3/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW09-033115	3/31/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW09-042215	4/22/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW09-050715	5/7/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW09-051915	5/19/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW09-060315	6/3/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW09-061815	6/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW09-071515	7/15/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW09-081315	8/13/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW09-092415	9/24/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	5 U	NA
	SW09-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW09-112415	11/24/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW09-122215	12/22/2015	µg/L	2.1	1 U	4.8	3.3	2.1	1 U	1 U	NA
	SW09-012516	1/25/2016	µg/L	3.3	1 U	7.1	2.4	1.5	1 U	1 U	NA
	SW09-021816	2/18/2016	µg/L	2.2	1 U	5.9	2 U	1.2	1 U	1 U	NA
	SW09-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW09-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW09-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW09-062716	6/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW09-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW09-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW09-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW09-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW09-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW09-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW09-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	NA
	SW09-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW09-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW09-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW09-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW09-040517	4/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW09-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW09-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW09-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW09-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW09-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW09-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA
	SW09-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
		Screening Value:	µg/L	2.2 ^a	530 ^a	1,000 ^a	NA ^b	NA ^b	NA ^b	NA ^b
SW-10	SW10-022515	2/25/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW10-030215	3/2/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW10-031115	3/11/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW10-031815	3/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW10-033115	3/31/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW10-042215	4/22/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW10-050715	5/7/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW10-051915	5/19/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW10-060315	6/3/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW10-061815	6/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW10-071515	7/15/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW10-081315	8/13/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW10-092415	9/24/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW10-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-112415	11/24/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-122215	12/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-012516	1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-021816	2/18/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-062716	6/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW10-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW-10-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW-10-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW-10-040517	4/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW10-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
		Screening Value:	µg/L	2.2 ^a	530 ^a	1,000 ^a	NA ^b	NA ^b	NA ^b	NA ^b
SW-11	SW11-022515	2/25/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW11-030215	3/2/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW11-031115	3/11/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW11-031815	3/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW11-033115	3/31/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW11-042215	4/22/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW11-050715	5/7/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW11-051915	5/19/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW11-060315	6/3/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW11-061815	6/18/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW11-071515	7/15/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW11-081315	8/13/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW11-092415	9/24/2015	µg/L	5 U ^c	5 U	5 U	10 U	5 U	5 U	NA
	SW11-102215	10/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-112415	11/24/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-122215	12/22/2015	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-012516	1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-021816	2/18/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-031616	3/16/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-042716	4/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-050916	5/9/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-062716	6/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-072816	7/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-103116	10/31/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW11-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW-11-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW-11-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW-11-040517	4/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW11-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte						
				Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE
Screening Value:			µg/L	2.2 ^a	530 ^a	1,000 ^a	NA ^b	NA ^b	NA ^b	NA ^b
SW-12	SW12-081916	8/19/2016	µg/L	6,430	764	15,400	3,360	1,730	128	NA
	SW12-092916	9/29/2016	µg/L	7,850	1,030	19,000	3,910	1,940	143	NA
	SW12-103116	10/31/2016	µg/L	165	17.7	302	103	58.2	4.7	NA
	SW12-112816	11/28/2016	µg/L	486	59.6	976	351	181	14.2	NA
	SW12-122916	12/29/2016	µg/L	707	97.3	1,790	408	213	16.8	NA
	SW12-012017	1/20/2017	µg/L	212	19.8	396	104	58	3.8	NA
	SW12-022817	2/28/2017	µg/L	26.1	4.04	62.3	18.0	9.73	5 U	NA
	SW12-031517	3/15/2017	µg/L	125	15.3	185	67.9	35.5	5 U	NA
	SW12-032117	3/21/2017	µg/L	134	12.1	45.0	60.8	33.6	5 U	NA
	SW12-033017	3/30/2017	µg/L	48.5	5.69	86.3	27.7	15.8	5 U	NA
	SW12-040517	4/5/2017	µg/L	67.1	9.24	127.0	43.6	23.7	5 U	NA
	SW12-050417	5/4/2017	µg/L	52.8	7.96	91.7	42	23.2	5 U	NA
	SW12-061317	6/13/2017	µg/L	102	16.6	166	85.1	46.2	5 U	NA
	SW12-071817	7/18/2017	µg/L	65	5.8	116	43.3	24.8	5 U	NA
	SW12-080217	8/2/2017	µg/L	125	14.7	204	102	67	5 U	NA
	SW12-090517	9/5/2017	µg/L	46.7	4.72	72	39	26.2	5 U	NA
	SW12-120517	12/5/2017	µg/L	16.6	2.91	12.6	20.1	13.3	5 U	NA
SW12-121417	12/14/2017	µg/L	9.19	2.66	8.26	18	12.1	5 U	NA	
SW-13	SW13-081916	8/19/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW13-092916	9/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW13-103116	10/31/2016	µg/L	1 U	1 U	2.0	2 U	1 U	1 U	NA
	SW13-112816	11/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW13-122916	12/29/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW13-012017	1/20/2017	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	NA
	SW13-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-032117	3/21/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-033017	3/30/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-040517	4/5/2017	µg/L	1 U	1 U	1.21	2 U	1 U	5 U	NA
	SW13-050417	5/4/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-061317	6/13/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW13-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
SW13-121417	12/14/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA	
SW-14	SW14-071817	7/18/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW14-080217	8/2/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW14-090517	9/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	SW14-120517	12/5/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U	NA
	--	12/14/2017	--	NS-DW	NS-DW	NS-DW	NS-DW	NS-DW	NS-DW	NS-DW

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

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

Table 2. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

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

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 27, 2014.

^b Screening levels for these compounds are not specified in SC DHEC R. 61-68.

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

Samples analyzed by EPA Methods SW 8260B.

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

Gray shading indicates the analyte exceeded screening value.

J = estimated

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

µg/L = microgram(s) per liter

MTBE = methyl tertiary butyl ether

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

FP = free product

NA = not applicable

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

ID = identification

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

SW = surface water

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation ^{1,2} (ft amsl)	Groundwater Elevation (ft amsl)	Corrected ³ Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-01					853.07					
	12/27/2017	-	8.01	-		845.06	-	-	-	-
	12/4/2017	-	9.85	-		843.22	-	-	-	-
	11/12/2017	-	7.75	-		845.32	-	-	-	-
	11/7/2017	-	6.63	-		846.44	-	-	-	-
	10/21/2017	-	10.60	-		842.47	-	-	-	-
	10/3/2017	-	9.79	-		843.28	-	-	-	-
MW-01B					852.99					
	12/27/2017	-	10.45	-		842.54	-	-	-	-
	12/4/2017	-	10.24	-		842.75	-	-	-	-
	11/12/2017	-	9.47	-		843.52	-	-	-	-
	11/7/2017	-	9.55	-		843.44	-	-	-	-
	10/21/2017	-	11.07	-		841.92	-	-	-	-
	10/3/2017	-	10.45	-		842.54	-	-	-	-
MW-02					841.04					
	12/27/2017	-	9.50	-		831.54	-	-	-	-
	12/4/2017	-	2.54	-		838.50	-	-	-	-
	11/12/2017	-	3.47	-		837.57	-	-	-	-
	11/7/2017	-	4.20	-		836.84	-	-	-	-
	10/21/2017	-	6.48	-		834.56	-	-	-	-
	10/3/2017	-	16.03	-		825.01	-	-	-	-
MW-02B					841.19					
	12/27/2017	-	16.41	-		824.78	-	-	-	-
	12/4/2017	-	24.56	-		816.63	-	-	-	-
	11/12/2017	-	23.45	-		817.74	-	-	-	-
	11/10/2017	-	7.03	-		834.16	-	-	-	-
	11/7/2017	-	13.41	-		827.78	-	-	-	-
	10/21/2017	-	27.50	-		813.69	-	-	-	-
	10/3/2017	-	21.87	-		819.32	-	-	-	-
MW-03					838.36					
	12/27/2017	-	14.80	-		823.56	-	-	-	-
	12/4/2017	-	18.00	-		820.36	-	-	-	-
	11/12/2017	-	NM	-		-	-	-	-	-
	11/7/2017	-	1.50	-		836.86	-	-	-	-
	10/21/2017	-	9.00	-		829.36	-	-	-	-
	10/3/2017	-	19.87	-		818.49	-	-	-	-
MW-04					844.42					
	12/27/2017	-	10.20	-		834.22	-	-	-	-
	12/4/2017	-	10.07	-		834.35	-	-	-	-
	11/12/2017	-	10.68	-		833.74	-	-	-	-
	11/7/2017	-	11.03	-		833.39	-	-	-	-
	10/21/2017	-	12.45	-		831.97	-	-	-	-
	10/3/2017	-	14.78	-		829.64	-	-	-	-
MW-05					851.11					
	12/27/2017	-	16.40	-		834.71	-	-	-	-
	12/4/2017	-	16.55	-		834.56	-	-	-	-
	11/12/2017	-	16.95	-		834.16	-	-	-	-
	11/7/2017	-	17.18	-		833.93	-	-	-	-
	10/21/2017	-	17.55	-		833.56	-	-	-	-
	10/3/2017	-	17.03	-		834.08	-	-	-	-
MW-06					852.92					
	12/27/2017	-	15.30	-		837.62	-	-	-	-
	12/4/2017	-	15.45	-		837.47	-	-	-	-
	11/12/2017	-	15.90	-		837.02	-	-	-	-
	10/21/2017	-	16.40	-		836.52	-	-	-	-
MW-06B					852.57					

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation ^{1,2} (ft amsl)	Groundwater Elevation (ft amsl)	Corrected ³ Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-06B (cont'd)	12/27/2017	-	15.13	-		837.44	-	-	-	-
	12/4/2017	-	16.14	-		836.43	-	-	-	-
	11/12/2017	-	15.57	-		837.00	-	-	-	-
	11/10/2017	-	15.59	-		836.98	-	-	-	-
	10/21/2017	-	22.16	-		830.41	-	-	-	-
MW-07					853.02					
	12/27/2017	-	13.17	-		839.85	-	-	-	-
	12/4/2017	-	13.21	-		839.81	-	-	-	-
	11/12/2017	-	13.20	-		839.82	-	-	-	-
	11/7/2017	-	13.20	-		839.82	-	-	-	-
	10/21/2017	-	13.20	-		839.82	-	-	-	-
MW-08					844.72					
	12/27/2017	11.60	11.61	0.01		833.11	833.12	-	-	-
	12/4/2017	-	10.47	-		834.25	-	-	-	-
	11/12/2017	-	10.25	-		834.47	-	-	-	-
	11/7/2017	-	10.38	-		834.34	-	-	-	-
	10/21/2017	-	14.35	-		830.37	-	-	-	-
MW-09					843.63					
	12/27/2017	-	6.20	-		837.43	-	-	-	-
	12/4/2017	-	3.05	-		840.58	-	-	-	-
	11/12/2017	-	4.57	-		839.06	-	-	-	-
	11/7/2017	-	5.56	-		838.07	-	-	-	-
	10/21/2017	-	6.82	-		836.81	-	-	-	-
MW-09B					843.92					
	12/27/2017	-	17.40	-		826.52	-	-	-	-
	12/4/2017	-	9.15	-		834.77	-	-	-	-
	11/12/2017	-	32.08	-		811.84	-	-	-	-
MW-10					845.41					
	12/27/2017	-	13.71	-		831.70	-	-	-	-
	12/4/2017	-	10.85	-		834.56	-	-	-	-
	11/12/2017	-	11.95	-		833.46	-	-	-	-
	11/7/2017	-	12.64	-		832.77	-	-	-	-
	10/21/2017	-	15.60	-		829.81	-	-	-	-
MW-11					855.63					
	12/27/2017	30.02	30.45	0.43		825.18	825.49	-	-	-
	12/4/2017	29.72	29.86	0.14		825.77	825.87	-	-	-
	11/12/2017	30.00	30.35	0.35		825.28	825.53	-	-	-
	11/7/2017	30.26	30.52	0.26		825.11	825.30	-	-	-
	10/21/2017	30.87	31.20	0.33		824.43	824.67	-	-	-
MW-12					834.53					
	12/27/2017	-	14.53	-		820.00	-	-	-	-
	12/4/2017	-	15.55	-		818.98	-	-	-	-
	11/12/2017	-	14.45	-		820.08	-	-	-	-
	11/7/2017	-	14.00	-		820.53	-	-	-	-
	10/21/2017	-	15.06	-		819.47	-	-	-	-
MW-12B					834.98					
	12/27/2017	-	15.04	-		819.94	-	-	-	-
	12/4/2017	-	16.12	-		818.86	-	-	-	-
	11/12/2017	-	14.91	-		820.07	-	-	-	-

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation ^{1,2} (ft amsl)	Groundwater Elevation (ft amsl)	Corrected ³ Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-12B (cont'd)	11/7/2017	-	14.25	-		820.73	-	-	-	-
	10/21/2017	-	15.44	-		819.54	-	-	-	-
	10/3/2017	-	14.93	-		820.05	-	-	-	-
MW-13					848.84					
	12/27/2017	-	21.85	-		826.99	-	-	-	-
	12/4/2017	-	21.87	-		826.97	-	-	-	-
	11/12/2017	-	21.85	-		826.99	-	-	-	-
	10/21/2017	-	21.84	-		827.00	-	-	-	-
MW-13B					849.82					
	12/27/2017	-	23.41	-		826.41	-	-	-	-
	12/4/2017	-	22.66	-		827.16	-	-	-	-
	11/12/2017	-	22.83	-		826.99	-	-	-	-
	11/7/2017	-	23.08	-		826.74	-	-	-	-
	10/21/2017	-	23.63	-		826.19	-	-	-	-
MW-14					838.70					
	12/27/2017	-	17.50	-		821.20	-	-	-	-
	12/4/2017	-	17.62	-		821.08	-	-	-	-
	11/12/2017	-	17.80	-		820.90	-	-	-	-
	10/21/2017	-	18.62	-		820.08	-	-	-	-
MW-14B					840.20					
	12/27/2017	-	19.06	-		821.14	-	-	-	-
	12/4/2017	-	19.22	-		820.98	-	-	-	-
	11/12/2017	-	19.36	-		820.84	-	-	-	-
	10/21/2017	-	19.35	-		820.85	-	-	-	-
MW-15					831.03					
	12/27/2017	14.01	14.02	0.01		817.01	817.02	-	-	-
	12/4/2017	-	13.66	-		817.37	-	-	-	-
	11/12/2017	-	14.75	-		816.28	-	-	-	-
	11/7/2017	-	13.32	-		817.71	-	-	-	-
	10/21/2017	14.16	14.17	0.01		816.86	816.87	-	-	-
	10/3/2017	-	11.65	-		819.38	-	-	-	-
MW-15B					831.29					
	12/27/2017	-	15.90	-		815.39	-	-	-	-
	12/4/2017	-	16.25	-		815.04	-	-	-	-
	11/12/2017	-	15.91	-		815.38	-	-	-	-
	11/7/2017	-	16.08	-		815.21	-	-	-	-
	10/21/2017	-	16.63	-		814.66	-	-	-	-
	10/3/2017	-	16.65	-		814.64	-	-	-	-
MW-16					847.67					
	12/27/2017	-	10.60	-		837.07	-	-	-	-
	12/4/2017	-	7.00	-		840.67	-	-	-	-
	11/12/2017	-	10.00	-		837.67	-	-	-	-
	11/7/2017	-	11.00	-		836.67	-	-	-	-
	10/21/2017	-	11.10	-		836.57	-	-	-	-
	10/3/2017	15.00	15.21	0.21		832.46	832.61	-	-	-
MW-17					855.35					
	12/27/2017	-	16.85	-		838.50	-	-	-	-
	12/4/2017	-	10.85	-		844.50	-	-	-	-
	11/12/2017	-	10.85	-		844.50	-	-	-	-
	10/21/2017	-	10.83	-		844.52	-	-	-	-
MW-17B					855.37					
	12/27/2017	-	16.90	-		838.47	-	-	-	-
	12/4/2017	-	17.05	-		838.32	-	-	-	-
	11/12/2017	-	17.20	-		838.17	-	-	-	-
	10/21/2017	-	17.60	-		837.77	-	-	-	-
MW-18				846.89						

Table 3. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation ^{1,2} (ft amsl)	Groundwater Elevation (ft amsl)	Corrected ³ Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-18 (cont'd)	12/27/2017	-	12.60	-		834.29	-	-	-	-
	12/4/2017	11.61	11.64	0.03		835.25	835.27	-	-	-
	11/12/2017	-	12.00	-		834.89	-	-	-	-
	11/7/2017	12.35	12.37	0.02		834.52	834.53	-	-	-
	10/21/2017	15.04	15.10	0.06		831.79	831.83	-	-	-
	10/3/2017	18.02	18.47	0.45		828.42	828.74	-	-	-
MW-19					853.94					
	12/27/2017	-	11.75	-		842.19	-	-	-	-
	12/4/2017	-	11.77	-		842.17	-	-	-	-
	11/12/2017	-	11.74	-		842.20	-	-	-	-
	11/7/2017	-	11.80	-		842.14	-	-	-	-
	10/21/2017	-	11.76	-		842.18	-	-	-	-
MW-20					852.89					
	12/27/2017	13.15	13.50	0.35		839.39	839.64	-	-	-
	12/4/2017	13.30	14.64	1.34		838.25	839.22	-	-	-
	11/12/2017	13.15	13.40	0.25		839.49	839.67	-	-	-
	11/7/2017	13.12	13.61	0.49		839.28	839.63	-	-	-
	10/21/2017	13.60	14.07	0.47		838.82	839.16	-	-	-
MW-21					855.77					
	12/27/2017	-	17.17	-		838.60	-	-	-	-
	12/4/2017	-	17.42	-		838.35	-	-	-	-
	11/12/2017	-	17.43	-		838.34	-	-	-	-
	10/21/2017	-	17.95	-		837.82	-	-	-	-
	MW-22					854.60				
12/27/2017		-	DRY	-		-	-	-	-	-
12/4/2017		-	9.99	-		844.61	-	-	-	-
11/12/2017		-	NM	-		-	-	-	-	-
11/7/2017		-	9.96	-		844.64	-	-	-	-
10/21/2017		-	DRY	-		-	-	-	-	-
MW-23					849.57					
	12/27/2017	-	10.81	-		838.76	-	-	-	-
	12/4/2017	-	11.13	-		838.44	-	-	-	-
	11/12/2017	-	11.02	-		838.55	-	-	-	-
	11/7/2017	-	11.10	-		838.47	-	-	-	-
	10/21/2017	-	11.83	-		837.74	-	-	-	-
MW-23B					849.69					
	12/27/2017	-	11.45	-		838.24	-	-	-	-
	12/4/2017	-	11.45	-		838.24	-	-	-	-
	11/12/2017	-	11.42	-		838.27	-	-	-	-
	10/21/2017	-	11.45	-		838.24	-	-	-	-
	MW-24					817.92				
12/27/2017		-	4.50	-		813.42	-	-	-	-
12/4/2017		-	4.51	-		813.41	-	-	-	-
11/17/2017		-	4.52	-		813.40	-	-	-	-
10/21/2017		-	4.75	-		813.17	-	-	-	-
MW-24B						818.72				
	12/27/2017	-	5.58	-		813.14	-	-	-	-
	12/4/2017	-	5.69	-		813.03	-	-	-	-
	11/17/2017	-	5.56	-		813.16	-	-	-	-
	10/21/2017	-	5.85	-		812.87	-	-	-	-
	MW-25					826.18				
12/27/2017		-	8.69	-		817.49	-	-	-	-

