Second Semiannual Monitoring Report 2018

Dayco Corporation/L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey

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Section 1
Introduction and Summary

TRC Environmental Corporation (TRC), on behalf of L.E. Carpenter & Company (LEC), has prepared this Second Semiannual Monitoring Report for 2018. This report summarizes routine groundwater and surface water monitoring activities conducted at the Dayco Corporation/L.E. Carpenter Superfund Site (Site) located at 170 North Main Street, Borough of Wharton, Morris County, New Jersey (Figure 1) during the third and fourth quarters of 2018 (3Q18 and 4Q18). Quarterly groundwater and surface water monitoring events are performed and associated semiannual reports are completed and submitted to the United States Environmental Protection Agency (USEPA), to comply with Paragraph 49 of the 2009 Unilateral Administrative Order (UAO) issued to LEC by the USEPA (effective August 6, 2009).[1]

The following routine monitoring activities were completed during the 3Q18 and 4Q18:

- Hydrogeologic and hydrologic assessments of shallow site groundwater and adjacent surface water bodies.
- Quarterly groundwater quality monitoring for constituents of concern (COCs) within the MW-30 area of concern (AOC), including the monitoring of additional temporary well points in the phytoremediation pilot study area installed during 2Q17.
- Surface water quality assessments of the Rockaway River and Eastern Drainage Ditch.
- Additional surface water and pore water monitoring in support of TRC's Revised Ecological Evaluation Report recommendations.

This report presents a discussion of routine monitoring activities performed during the period and results obtained. A summary of observations and recommendations for monitoring program modifications are as follows:

MW-30 AOC: Shallow groundwater in the MW-30 area continues to generally flow eastwards across most of the source reduction portion of the MW-30 area, similar to flow observed prior to the 2005 Source Reduction. Shallow groundwater at the Site is recharged by Washington Forge Pond, as well as the first 600 feet of the Rockaway River below the dam. Further east, near MW-8, shallow groundwater becomes influent to the drainage ditch and to the Rockaway River.

COC concentrations detected within the MW-30 Post Remedial Monitoring Plan (PRMP) monitoring network continue to exhibit downward concentration trends consistent with previous monitoring periods. Additionally, filtered bis (2-ethylhexyl) phthalate (DEHP) in groundwater results continue to indicate that the overwhelming majority of DEHP detections observed in groundwater samples are associated with entrained solids and is not dissolved in groundwater.

[1] In February 2012, USEPA approved a change to semiannual reporting of findings from the quarterly monitoring events.

A pilot-scale phytoremediation system consisting of 51 TreeWell® trees of various species was installed in two areas of the MW-30 AOC in March 2013. The first area is located adjacent to monitoring well MW-35s; the second is located east of MW-31s. A Phytoremediation Pilot Study Report documenting results of monitoring results was submitted during the 1Q17. Subsequently, the USEPA requested additional assessment of groundwater in the vicinity of the phytoremediation pilot area. As a result, ten temporary well points were installed in the vicinity of the pilot study area and first sampled in 2Q17 to satisfy this request. These newly installed well points, along with permanent monitoring wells in the area, were to be sampled quarterly for two years to assess trends in groundwater quality in the area of the phytoremediation pilot study. The newly installed well points have consistently yielded benzene, toluene, ethylbenzene, and xylenes (BTEX) and concentrations that are not consistent with and generally greater than concentrations observed in samples from adjacent permanent monitoring wells. The temporary well points will be sampled through 1Q19, at which time a recommendation for future phytoremediation study modifications and monitoring will be developed.

- **Surface Water (Eastern Drainage Ditch):** BTEX constituents were not detected above their respective New Jersey Surface Water Quality Criteria (NJSWQCs) at any surface water monitoring locations in the Eastern Drainage Ditch during 3Q18 and 4Q18. BTEX compounds have not been detected above their respective NJSWQCs in Eastern Drainage Ditch surface water samples since quarterly sampling was initiated in 2006. In addition, based on ecological evaluations conducted for the Eastern Drainage Ditch, BTEX compounds are not ecological COCs. TRC recommends that BTEX be removed from the performance monitoring program for Eastern Drainage Ditch surface water.

  Total DEHP was detected at SW-D-2 and SW-D-4 above the NJSWQC during 3Q18. Dissolved DEHP was also detected at these same locations during the 3Q18 event. Total and dissolved DEHP was not detected above the NJSWQC from any of the other Eastern Drainage Ditch surface water sampling locations during 3Q18 or from any Eastern Drainage Ditch location in 4Q18.

- **Surface Water (Rockaway River):** BTEX constituents were not detected at any quarterly surface water monitoring locations in the Rockaway River during 3Q18 and 4Q18. BTEX compounds have not been detected above their respective NJSWQCs in Rockaway River surface water samples since quarterly sampling was initiated in 2006. TRC recommends that BTEX be removed from the performance monitoring program for Rockaway River surface water.

  Total and dissolved DEHP was not detected above the NJSWQC from any of the Rockaway River surface water samples during 3Q18 or 4Q18. Neither BTEX nor total or dissolved DEHP was detected above their respective NJSWQC in the "Ditch-River Confluence" sample, DRC-2, during 3Q18 or 4Q18.

- **Pore Water (Eastern Drainage Ditch):** Total DEHP was detected above the New Jersey Groundwater Water Quality Criteria NJGWQC and NJSWQC in one Eastern Drainage Ditch sediment pore sample (PW-D-4; located east of well nest MW-30S/I/D) in 3Q18. The pore water concentration is two to five times greater than total DEHP observed in nearby monitoring wells. Given that dissolved DEHP was not detected above the NJGWQC and NJSWQC in any of the filtered Eastern Drainage Ditch sediment pore samples during 3Q18 and 4Q18, it is likely observations of total DEHP in pore water samples are associated with entrained sediments/solids.

TRC recommends discontinuing pore water sampling for the Eastern Drainage Ditch as a removal remedy for this area is under consideration by USEPA.

- **Pore Water (Rockaway River):** Total and dissolved DEHP was detected above the NJGWQC and NJSWQC at one of the seven Rockaway River sediment pore water sample locations (PW-RR-TG-LB; located upgradient of SW-R-3) in 3Q18 and at one of the seven Rockaway River sediment pore water sample locations (PW-RR-TH-LB; located downgradient of SW-R-3) in 4Q18. The Rockaway River sediment pore water samples confirm that groundwater immediately adjacent to and underlying the left bank of the Rockway River contains DEHP. However, total DEHP was not detected above the NJSWQC from any of the Rockaway River surface water samples during 3Q18 or 4Q18 and has only been detected above the NJSWQC twice in the last two years of quarterly surface water sampling. Dissolved DEHP has never been detected above the NJSWQC in any of the Rockaway River surface water samples. TRC recommends discontinuing quarterly sediment pore water sampling for the Rockaway River as an enhanced phytoremediation remedy recommendation for MW-30 Area groundwater is under consideration by USEPA.

Section 2
Sampling Approach and Methods

The 3Q18 and 4Q18 routine monitoring activities were conducted from August 27 through September 7, 2018, and November 26 through November 30, 2018, respectively. A site plan showing current conditions and locations of the monitoring points sampled during the routine 3Q18 and 4Q18 and supplemental sampling activities are shown on Figure 2. A copy of the field notes for both events are provided in Appendix A.

2.1 Water Level Measurements

Static groundwater levels were measured within 35 groundwater monitoring wells throughout the Site on August 27, and November 26, 2018, as part of the 3Q18 and 4Q18 sampling activities (Table 1). In addition, surface water levels were measured at locations along the Rockaway River and along the Eastern Drainage Ditch.

2.2 Site-wide Groundwater Sampling

Groundwater monitoring was performed in accordance with the procedures contained in the New Jersey Department of Environmental Protection's (NJDEP's) *Field Sampling Procedures Manual* dated May 1992 (Revised August 2005), and methodologies outlined in the May 2001 MNA work plan. The MNA work plan was approved by NJDEP on January 24, 2002.

Five sample duplicates, four trip blanks, two field (atmosphere) blank, one matrix spike/matrix spike duplicate (MS/MSD), and four rinsate blanks were collected during each event to satisfy quality assurance/quality control (QA/QC) requirements outlined in the revised Quality Assurance Project Plan (QAPP) presented as Appendix C in the PRMP.

The trip blanks were prepared by the laboratory and remained with the sample containers until the samples were returned to the laboratory where they were analyzed for BTEX. The 3Q18 duplicate samples were collected at SW-D-2 (Dup-01), MW-35S (Dup-02), TMW-05 (Dup-03), MW-32S (Dup-04), and PW-RR-TG-LB (Dup-05) analyzed for BTEX and DEHP. The 4Q18 duplicate samples were collected at SW-D-2 (Dup-01), MW-34S (Dup-02), TMW-03 (Dup-03), and MW-31S (Dup-04), and PW-RR-TJ-MC (Dup-05) analyzed for BTEX and DEHP. Rinsate blanks RB-01, RB-02, RB-03, and RB-04 were collected each quarter by circulating distilled water through the cleaned bladder pump assemblies to verify that decontamination procedures were adequate. Sampling equipment used at each well was decontaminated prior to each use utilizing an environmental detergent (Alconox®) and clean water wash followed by a distilled water rinse. Field (atmosphere) blanks were collected by opening a bottle of unpreserved distilled water, leaving the bottle open during the sampling of one well, and pouring that water directly into clean sample bottles with added preservative also provided by the laboratory. As part of the 3Q18 and 4Q18 monitoring events, monitoring wells sampled were analyzed for unfiltered and filtered DEHP and BTEX were specified. Filtered groundwater sample aliquotes were field-filtered using a 0.45 μm filter. Groundwater samples were submitted to Trace

Analytical Laboratories, Inc. (Trace), located in Muskegon, Michigan for BTEX and DEHP analyses (State of New Jersey Laboratory Certification No. MI008). Laboratory reports for 3Q18 and 4Q18 are provided in Appendix B. TRC performed a data usability evaluation for the 3Q18 and 4Q18 laboratory results and has assigned data qualifiers to results based on review of the organic surrogate laboratory QC data, laboratory method blanks, rinsate blanks, trip blanks, and the atmospheric blanks, field duplicate relative percent difference (RPD); and other factors such as comparison of unfiltered and filtered DEHP results. Data quality evaluations are included in Appendix B.

Note that DEHP was detected during 3Q18 and 4Q18 in DEHP laboratory method blanks at concentrations comparable to the associated results at MW-30 AOC samples including locations MW-27S, MW-27S(F), PW-D-1, PW-D-1(F), PW-D-2, PW-D-2(F), PW-D-3, PW-D-3(F), PW-D-4, PW-D-4(F), MW-30I, PW-RR-TG-LB(F), PW-RR-TH-RMC, PW-RR-TH-RMC(F) during the 3Q18 monitoring event and locations SW-R-1(F), SW-R-3(F), SW-R-6(F), SW-D-1, SW-D-1(F), SW-D-3, and SW-D-3(F). A DEHP concentration comparable to an associated blank can have the same source (such as a laboratory contaminant) of DEHP as the blank and thereby not be representative of a DEHP concentration at the site. TRC's data usability evaluation process has assigned a "u" data qualifier to these results indicating that the DEHP detections are not considered to be representative of site conditions.

Additionally, DEHP was detected in an atmospheric blank collected during 4Q18. As a result, samples with detections comparable to that result were assigned a "u" qualifier. Qualified sample results included SW-D-2, SW-D-2(F), SW-D-4, SW-D-4(F), SW-R-1, DUP-01, DUP-01(F), SW-R-2, SW-R-2(F), TMW-01, MW-31S(F), MW-33S(F), MW-34S, PW-RR-TJ-MC(F), DUP-5, DUP-5(F), PW-RR-TJ-LB, PW-RR-TI-LB, and PW-RR-TI-LB(F).

2.3 Surface Water Sampling

As part of the 3Q18 and 4Q18 routine monitoring events, five surface water locations (SW-D-1, SW-D-2, SW-D-3, SW-D-4, and SW-D-5) were sampled within the Eastern Drainage Ditch on the adjacent Air Products property and that flows through the adjacent Wharton Enterprises property. The drainage ditch sampling program initially began at the request of NJDEP as outlined in their letter dated March 23, 2005. Surface water samples were also collected at the intersection of the Eastern Drainage Ditch and the Rockaway River (approximately 10 feet upstream in the Eastern Drainage Ditch, DRC-02) and at five surface water samples from the Rockaway River (SW-R-1, SW-R-2, SW-R-3, SW-R-4, SW-R-6) as shown on Figure 2.

Specifics regarding surface water sampling locations, frequency, and analytes are presented in the PRMP and associated QAPP. Surface water samples were submitted to Trace for analysis of BTEX and unfiltered and filtered DEHP. Filtered surface water sample aliquotes were lab-filtered using a 0.45 μm filter.

Beginning with the 2Q17 monitoring event, the DEHP reporting limit and practical quantification limit (PQL) for surface water and pore water sample laboratory analysis was modified to achieve reporting limits that meet the established NJDEP freshwater aquatic chronic criteria (ESC) of 0.30 μg/L.

2.4 Ecological Evaluation Sampling

Based on USEPA comments on the 2017 Second Semiannual Report received on July 17, 2018, TRC resumed pore water sample collection within the Rockaway River for DEHP in during 3Q18 and 4Q18 monitoring events. TRC collected sediment pore water samples in the Rockaway River during the 3Q18 and 4Q18 sampling event and analyzed unfiltered and filtered aliquots of those samples for DEHP. Analysis of Eastern Drainage Ditch and Rockaway River pore water for copper, zinc, hardness, and PCBs has been discontinued as previously recommended.

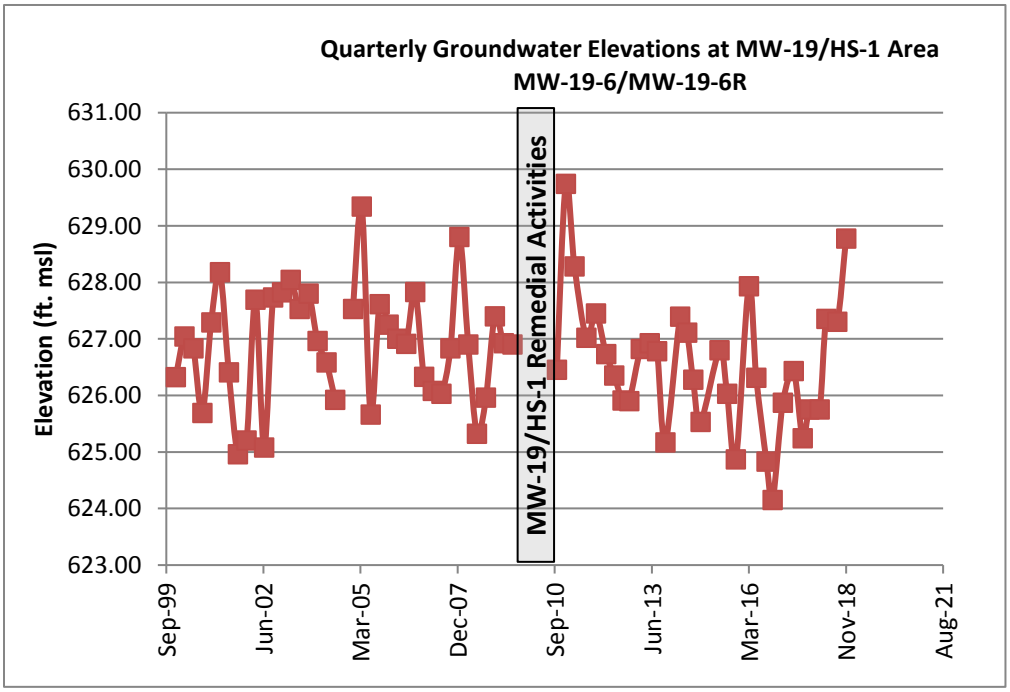
2.5 Phytoremediation Monitoring Temporary Well Sampling

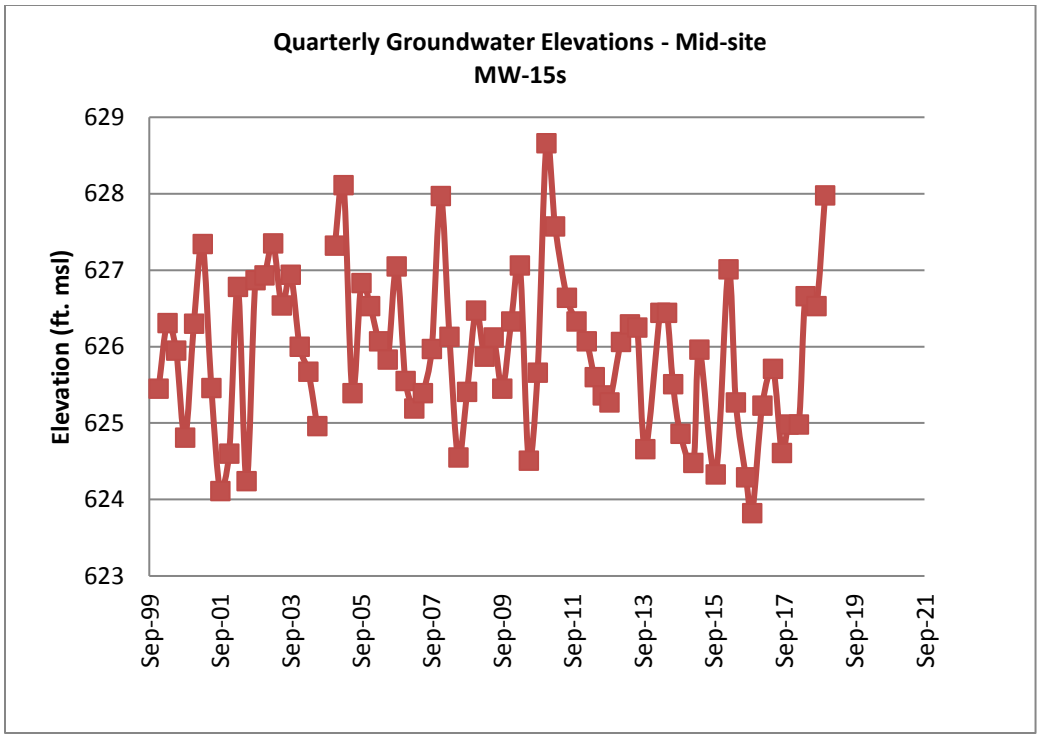
In order to provide a better assessment of the phytoremediation pilot study area, TRC sampled the ten temporary well points installed in 2Q17 during the 3Q18 and 4Q18 sampling events (Figures 4a and 4b, 5a and 5b, and 6a and 6b). Samples were analyzed for unfiltered and filtered DEHP and BTEX. Temporary well points are being monitored on a quarterly basis for a period of two years, beginning with the 2Q17 event, to assess the effectiveness of the Phytoremediation Pilot Study. Monitoring data for the phytoremediation pilot study collected to date will be presented in the pending Focused Feasibility Study for MW-30 Area Groundwater.

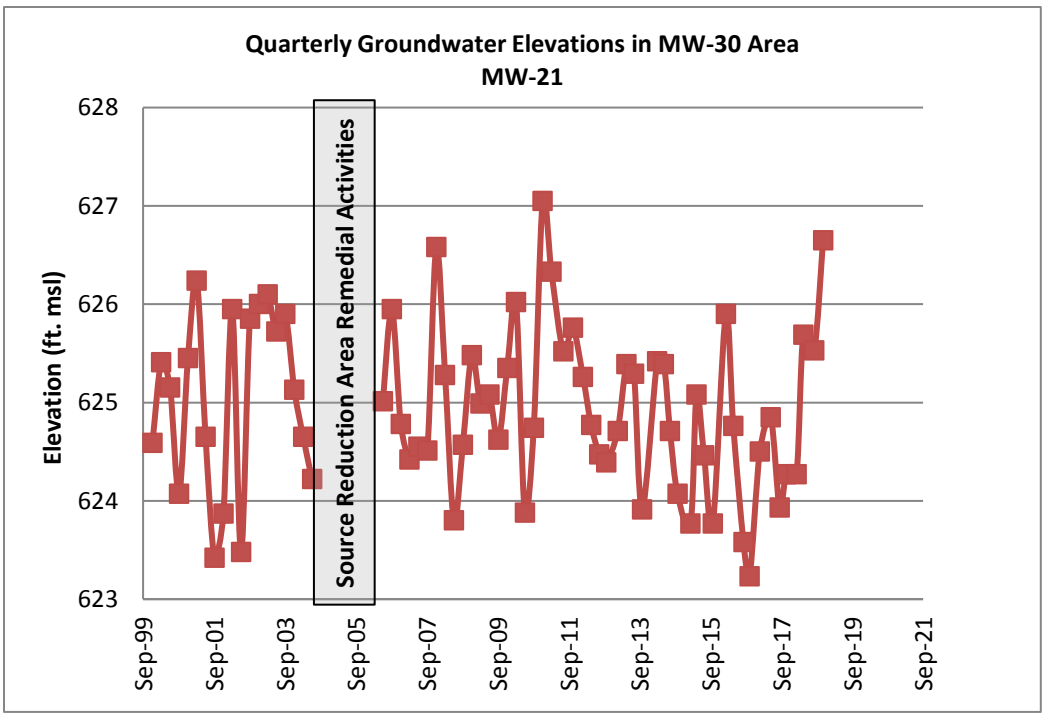
Section 3
Groundwater Elevation and Shallow Groundwater Flow

Static groundwater levels were measured within 35 groundwater monitoring wells throughout the Site on August 27, and November 26, 2018, as part of the 3Q18 and 4Q18 sampling activities, respectively. In addition, surface water levels were measured at locations along the Rockaway River and along the Eastern Drainage Ditch. These data were used to calculate groundwater elevations (Table 1) with respect to the National Geodetic Vertical Datum (NGVD) and evaluate the site-wide groundwater flow pattern in the shallow aquifer system. Interpretation of the calculated groundwater elevations yielded site-wide shallow groundwater contours and associated approximate flow pattern that are shown on Figures 3a and 3b for the 3Q18 and 4Q18 sampling events, respectively. The contours were prepared by utilizing the calculated groundwater elevations from the PRMP wells and the river and Eastern Drainage Ditch surface water elevations.

As indicated in the graphs below, groundwater elevations measured within the MW-19/HS-1 AOC fluctuate between 624 feet NGVD to 630 feet NGVD, and within the MW-30 AOC between 624 feet NGVD to 627 feet NGVD. Groundwater elevations measured in 3Q18 and 4Q18 were consistent with historical data, rebounding from lower than normal conditions observed in 3Q16 and 4Q16 due to regional drought conditions experienced throughout most of 2016.







3.1 MW19/HS-1 Area of Concern

As previously observed, shallow groundwater flow in the MW19/HS-1 area is generally toward the northeast (Figures 3a and 3b). Groundwater on both the north and south sides of Ross Street is locally influenced by the utility corridor located in the center of Ross Street where a large regional storm sewer line is located.

3.2 MW-30 Area of Concern

Shallow groundwater flow direction in the MW-30 area is similar to flow observed at the Site prior to and following the Source Reduction. Shallow groundwater at the Site is recharged by Washington Forge Pond, as well as the first 600 feet of the Rockaway River below the dam. This "losing" reach of river is identified by approximate flow direction arrows on Figures 3a and 3b. Further east towards the wetland, shallow groundwater again becomes influent to the river.

Surface water elevation data for the man-made Eastern Drainage Ditch is consistent with its current configuration as a U-shaped pond formed as a result of downstream beaver dam (Figures 2, 3a, and 3b). As shown by the flow arrows on Figure 3a and Figure 3b, shallow groundwater on-site becomes influent to the Eastern Drainage Ditch and the Rockaway River surface water. The flow-path into the Eastern Drainage Ditch is supported by the occasional sporadic low detections of DEHP in some of the Eastern Drainage Ditch surface water samples (see Section 4).

A groundwater depression has previously been observed in the vicinity of monitoring wells MW-32S and MW-34S, was noted in both the 3Q18 and 4Q18 monitoring events. This groundwater depression has sporadically occurred throughout previous monitoring events. Further into the wetland area east of the Site, in the vicinity of monitoring location MW-21, groundwater is typically mounded slightly, which results in localized radial flow north and east into the ditch system, south to the river, and west back towards the Source Reduction Area. This condition has remained relatively consistent over the period of remedial investigations and performance monitoring conducted on the Site. A lack of detectable constituents within monitoring wells MW-21, MW-25(R), and former wells MW-14S and MW-14I support the shallow flow path from the eastern wetland towards the western wetland. In addition, the construction of the regional sewer line (Figure 3a) did not encounter contamination until construction had progressed from east to west to the westernmost end shown on Figure 3a and Figure 3b. These data demonstrate adequate delineation of groundwater contamination and indicate that contaminant migration is not occurring further east than the delineated area shown on Figures 4a, 4b, 5a, 5b, 6a, and 6b.

Section 4
MW-30 Area

The MW-30 AOC consists of the 2005 Source Reduction Area and an adjacent downgradient wetland area (Figure 2). The 2005 Source Reduction was implemented in the MW-30 area to remove as much of the Light Non-Aqueous Phase Liquid (LNAPL) and associated soil contamination as possible. It was anticipated that some dissolved-phase contamination would remain in groundwater following the Source Reduction, and that residual groundwater contamination would be addressed as needed. The 2005 Source Reduction was a success in that no free product has been measured within the Source Reduction Area since completion of that work and implementation of the PRMP. Groundwater data summarized below shows significant downward trends for site COCs within the Source Reduction portion of the MW-30 Area. Groundwater contamination within the Source Reduction Area and residual contamination within the adjacent wetland area is being monitored and addressed as described below.

As shown on Figures 4a, 4b, 5a, 5b, 6a, and 6b, the current monitoring network defines the extent of groundwater contamination that remains within the MW-30 area. The affected groundwater is bounded by monitoring well MW-25(R) to the east, by the surface water monitoring points within the drainage ditch on the Air Products property to the north, and the Rockaway River surface water sampling locations to the south. Residual contamination associated with the wetland area adjacent to the easternmost extent of the Source Reduction Area represents the remaining on-site BTEX within the Source Reduction area; the bulk of remaining DEHP groundwater contamination is associated with the wetland area adjacent to the easternmost extent of the Source Reduction Area (Figures 5a and 5b). MW-25R has typically been non-detect with respect to site COCs (except for sporadic very low-level concentrations of DEHP). These data, together with previous information (see west termination of abandoned stretch of regional sewer shown on Figures 4a and 4b), permanent and temporary well point data, groundwater elevation contours, and flow directions define the easternmost limit of site contaminants. The mass of the residual contaminants and dissolved-phase plume within the wetland area is effectively characterized by monitoring wells MW-31 through MW-35.

As part of the 3Q18 and 4Q18 monitoring events, groundwater samples collected from monitoring wells were field filtered using a single use disposable 0.45 μm filter and submitted to the lab for dissolved DEHP analysis. These samples were collected to assess if the sporadic detections of DEHP in groundwater are related to DEHP sorbed onto fine grained material or if the detections are the result of DEHP dissolved in the groundwater.

4.1 Source Reduction Area

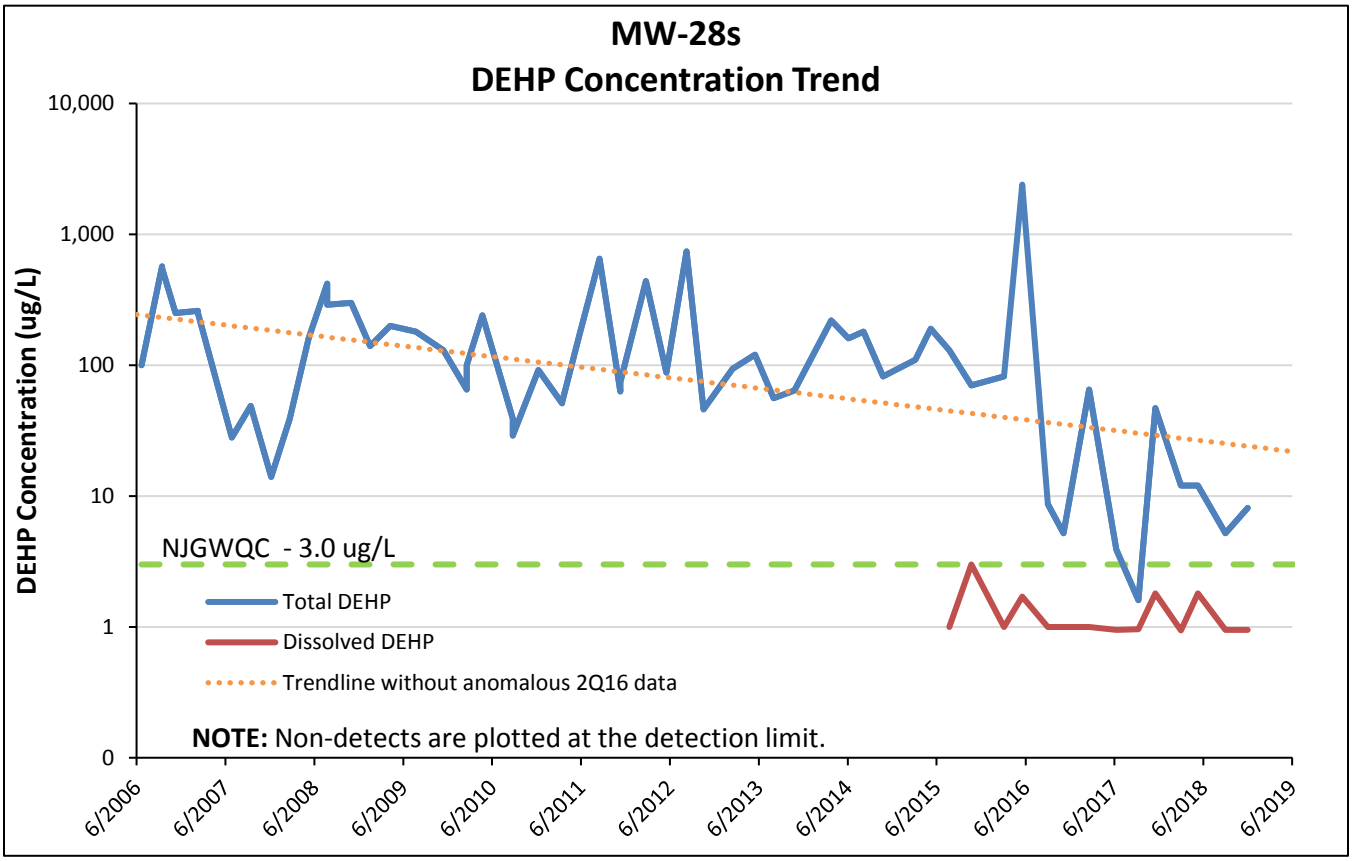
Monitoring well clusters MW-28 and MW-30 are within the 2005 Source Reduction area. Data from these wells show that the Source Reduction successfully removed the bulk of LNAPL and soil contamination and continue to display downward concentration trends for dissolved constituents since

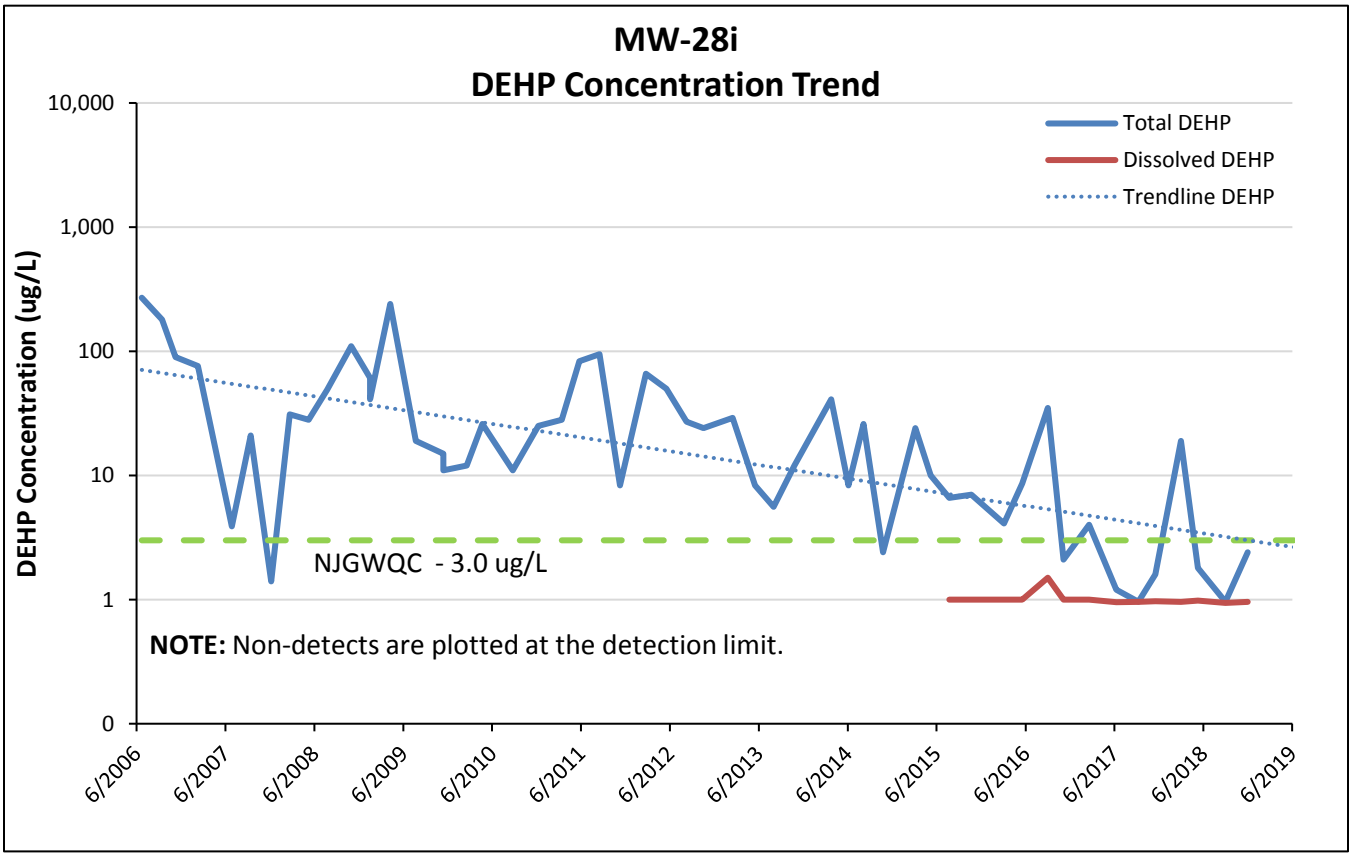
the Source Reduction was completed. The analytical results from the previous eight most-recent quarterly monitoring events are summarized in Tables 2 and 3.

The shallow wells that lie within the central (MW-28 cluster) and downgradient (MW-30 cluster) portions of the Source Reduction area both have screens that were placed just below the bentonite-cement slurry monolith that was created as a result of the remedial activities. At both locations, intermediate monitoring wells MW-28i and MW-30i were installed and screened approximately 5 feet below the bottom of the shallow well screen (15 to 20 feet below ground surface [ft. bgs] and 10 to 15 ft. bgs, respectively.)

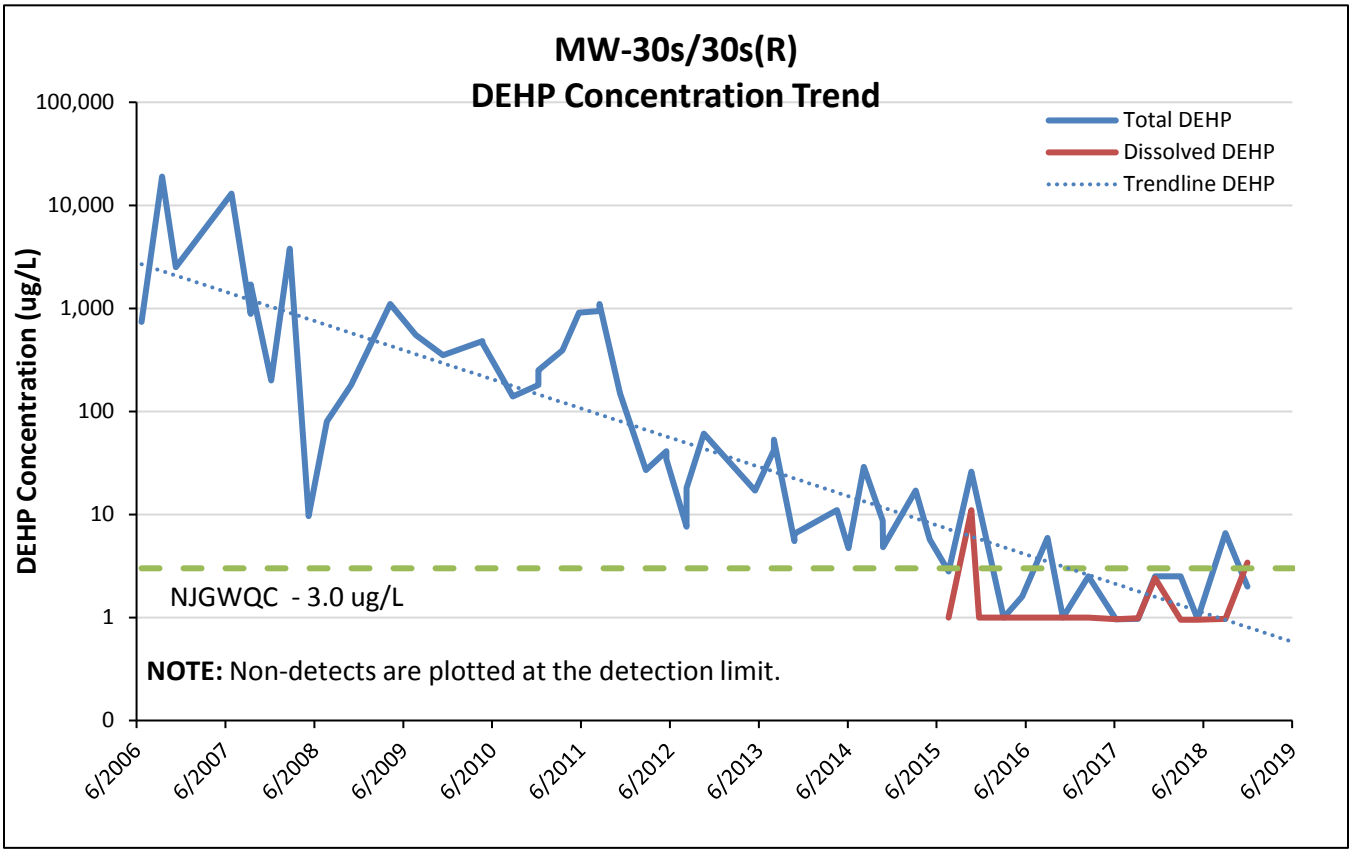
Total DEHP concentrations continue to fluctuate at both MW-28s and MW-28i, as shown below. Since the 2Q13 event, total DEHP levels have returned to the lower range of concentrations detected prior to 3Q11. Relatively elevated levels of total DEHP found in MW-28s during the 3Q11, 2Q12, 3Q12, and 2Q16 events are likely related to high levels of turbidity in those specific groundwater samples, as confirmed by the total and dissolved concentrations observed during 1Q16 and 2Q16. The total DEHP concentration in MW-28s in the 2Q16 event of 2,400 µg/L appears anomalous as this concentration is an order of magnitude higher than previously detected concentrations and dissolved DEHP in the same sample is not detected. Neglecting this anomalous result, the overall trend of total DEHP concentrations in MW-28s and MW-28i are generally declining as shown in the graphs on Page 4-3. (Note that the graphs are presented on a logarithmic scale as the recent concentrations and dissolved DEHP concentrations are at or below the NJGWQC and the detection limits.)

As reflected on the referenced graphs, dissolved DEHP has not been detected above the NJGWQC in groundwater samples from MW-28s and MW-28i since analysis of filtered samples was initiated in 3Q15.


MW-28s
DEHP Concentration Trend
DEHP Concentration (ug/L)
10,000
1,000
100
10
1
0
NJGWQC - 3.0 ug/L
Total DEHP
Dissolved DEHP
Trendline without anomalous 2Q16 data
NOTE: Non-detects are plotted at the detection limit.
6/2006
6/2007
6/2008
6/2009
6/2010
6/2011
6/2012
6/2013
6/2014
6/2015
6/2016
6/2017
6/2018
6/2019


MW-28i
DEHP Concentration Trend
DEHP Concentration (ug/L)
10,000
1,000
100
10
1
0
Total DEHP
Dissolved DEHP
Trendline DEHP
NJGWQC - 3.0 ug/L
NOTE: Non-detects are plotted at the detection limit.
6/2006
6/2007
6/2008
6/2009
6/2010
6/2011
6/2012
6/2013
6/2014
6/2015
6/2016
6/2017
6/2018
6/2019

The concentration of total DEHP in well MW-30s(R), while fluctuating somewhat from quarter to quarter, has a strong overall declining trend. Total DEHP concentrations of 6.6 µg/L were observed in MW-30s(R) in 3Q18 and 2.0 µg/L in 4Q18. Dissolved DEHP has only been detected twice in groundwater samples from MW-30s(R) since analysis of filtered samples was initiated in 3Q15, occurring in 4Q17 and 4Q18.



Only sporadic low-level detections of DEHP have been found in groundwater collected from monitoring wells MW-30i and MW-30d since they were installed in 2006. Total DEHP concentrations have only been detected in MW-30i above the NJGWQC once since 2012 (11 µg/L in 2Q15). Total DEHP concentrations have only been detected in MW-30d above the NJGWQC once since 2012 (5.4 µg/L in 4Q14). Dissolved DEHP has not been detected in groundwater samples from MW-30i and MW-30d since analysis of filtered samples was initiated in 3Q15.

4.2 Wetland Area

As part of the routine 3Q18 and 4Q18 monitoring events, the five wetland area monitoring wells (MW-31S, MW-32S, MW-33S, MW-34S, and MW-35S) were sampled and analyzed for site COCs. The locations of these wells, with respect to the Source Reduction and wetland areas, are shown on Figure 2; with the exception of MW-31S, these wells are located outside of and downgradient from the Source Reduction excavation area.

During 3Q18, MW-31S, MW-32S, and MW-35S had concentrations of benzene, ethylbenzene and total xylenes above the higher of the NJGWQC and PQL (Table 2; Figure 4a). Groundwater samples collected from MW-31S, MW-32S, MW-33S, and MW-35S during 3Q18 contained concentrations of total DEHP above the greater of the NJGWQC and PQL (Table 2 and Figure 5a).

During 4Q18, groundwater samples collected from wetland area well MW-31s had concentrations of benzene, ethylbenzene and total xylenes above the higher of the NJGWQC and PQL. Additionally, MW-32s and MW-35s had concentrations of ethylbenzene and total xylenes above the higher of the NJGWQC and PQL (Table 2; Figure 4b). Groundwater samples collected from MW-31S, MW-32S, MW-33S, and MW-35S also contained concentrations of DEHP above the greater of the NJGWQC and PQL (Table 2 and Figure 5b).

Dissolved DEHP results for groundwater samples (see Table 2) supports that the overwhelming majority of DEHP observed is associated with solids entrained in the groundwater samples. Only two of 32 filtered monitoring well samples collected during 3Q18 and 4Q18 [namely, MW-30S(R) and MW-35S] contained dissolved DEHP at concentrations slightly greater than the NJGWQC for DEHP of 3.0 µg/L during the 3Q18 and/or 4Q18 events.

4.3 Phytoremediation Pilot Study Area

Prior to the 2Q13 event, TRC initiated an in-field pilot study to assess the viability of phytoremediation to reduce COCs in groundwater and soil in the wetland area, where a total of 51 TreeWell® System trees were planted in March 2013 at the locations shown on Figures 4a-b, 5a-b, and 6a-b.

In order to provide a better assessment of the Phytoremediation Pilot Study, TRC installed ten temporary well points (TMW) at locations shown on Figures 4a-b, 4a-b, and 6a-b. These temporary well points were installed utilizing a track mounted drill rig equipped with Rotosonic drilling techniques. The temporary well points were installed to a depth of 6 feet below ground surface with a pre-packed 5-foot well screen and approximate 3 feet of stickup. The temporary well points were installed with a bentonite well seal. Beginning in 2Q17, the temporary well points be monitored on a quarterly basis for a period of two years to assess the effectiveness of the Phytoremediation Pilot Study.

During 3Q18 groundwater samples collected from the temporary well points TMW-02, TMW-03, TMW-04, had concentrations of benzene, ethylbenzene and total xylene above the greater of the NJGWQC and PQL, and TMW-08 had concentrations of ethylbenzene and total xylene above the greater of the NJGWQC and PQL (Table 5 and Figure 5b). During 4Q18 groundwater samples collected from the temporary well points TMW-03, TMW-04 had concentrations of benzene, ethylbenzene and total xylene above the greater of the NJGWQC and PQL, and TMW-02, and TMW-08 had concentrations of ethylbenzene and total xylene above the greater of the NJGWQC and PQL (Table 5 and Figure 5b). Additionally, temporary well point TMW-05 had concentrations of xylene above the NJGWQC and PQL during 4Q18.

During 3Q18, groundwater samples collected from seven of the ten temporary well points contained concentrations of total DEHP above the greater of the NJGWQC and PQL (Table 5 and Figure 5a). During 4Q18, groundwater samples collected from nine of the ten temporary well points also contained total DEHP concentrations above the greater of the NJGWQC and PQL (Table 5 and Figure 5b). The DEHP results from filtered groundwater samples (see Table 5) supports that the overwhelming majority of DEHP observed in groundwater samples is associated with solids present in the groundwater samples and not dissolved in the groundwater. Three of the twenty-two filtered well point samples collected during 3Q18 and 4Q18 contained dissolved DEHP at concentrations greater than the NJGWQC for DEHP of 3.0 μg/L.

Isoconcentration maps of filtered (dissolved) DEHP in groundwater during 3Q18 and 4Q18 are presented Figure 6a and 6b, respectively.

Free product measurements were conducted with an interface probe. Free product was not detected at any of the wetland area wells during the 3Q18 and 4Q18 events. The concentration trends of dissolved benzene, ethylbenzene, and xylenes as well as effectiveness of the phytoremediation pilot study will continue to be monitored.

Section 5
Surface Water

The Rockaway River adjacent and downstream from the Site is classified as a Category 1 fresh water trout maintenance stream (FW2-TM(C1); ref. Surface Water Quality Standard Reference: N.J.A.C. 7:9B-1.15 (e), Table 3 January 2010; (Dover) – Washington Pond outlet downstream to Rt. 46 bridge). In N.J.A.C. 7:9B-1.4, "Category 1 waters" means those waters designated in the tables in N.J.A.C. 7:9B-1.15(c) through (g), for purposes of implementing the antidegradation policies set forth at N.J.A.C. 7:9B-1.5(d), for protection from measurable changes in water quality based on exceptional ecological significance, exceptional recreational significance, exceptional water supply significance, or exceptional fisheries resource(s) to protect their aesthetic value (color, clarity, scenic setting) and ecological integrity (habitat, water quality, and biological functions). TRC compared Site COC concentrations detected in the Rockaway River samples against background concentrations found in upgradient sample SW-R-6, collected below the Washington Forge Pond dam, at the upgradient end of the Site. The Eastern Drainage Ditch is a constructed drainage ditch on the adjacent Air Products property and flows through the adjacent Wharton Enterprises property.

5.1 Eastern Drainage Ditch

As part of the routine 3Q18 and 4Q18 events, five points (SW-D-1, SW-D-2, SW-D-3, SW-D-4, and SW-D-5) within the constructed Eastern Drainage Ditch were sampled for surface water quality. This sampling was conducted at the request of NJDEP as outlined in their letter dated March 23, 2005.

All routine surface water sample locations are shown on Figure 2. The laboratory analytical results for these Eastern Drainage Ditch samples are summarized on Table 4 and Figures 4a-b, 5a-b, and 6a-b.

BTEX constituents were not detected above their respective NJSWQCs at any surface water monitoring locations in the Eastern Drainage Ditch during 3Q18 and 4Q18. Total DEHP was detected at SW-D-2 and SW-D-4 above the NJSWQC during 3Q18. Dissolved DEHP was also detected at these same locations during the 3Q18 event. Total and dissolved DEHP was not detected above the NJSWQC from any of the other Eastern Drainage Ditch surface water sampling locations during 3Q18 or from any Eastern Drainage Ditch location in 4Q18.

BTEX compounds have not been detected above their respective NJSWQCs in Eastern Drainage Ditch surface water samples since quarterly sampling was initiated in 2006. In addition, based on ecological evaluations conducted for the Eastern Drainage Ditch, BTEX compounds are not ecological COCs. TRC recommends that BTEX be removed from the performance monitoring program for Eastern Drainage Ditch surface water.

5.2 Rockaway River

In addition to the Eastern Drainage Ditch, five surface water samples were collected from the Rockaway River (Table 4 and Figures 4a-b, 5a-b, and 6a-b).

BTEX constituents were not detected at any quarterly surface water monitoring locations in the Rockaway River during 3Q18 and 4Q18. Total and dissolved DEHP was not detected above the NJSWQC from any of the Rockaway River surface water samples during 3Q18 or 4Q18.

Rockaway River location SW-R-6 is located just downstream of the Washington Forge Pond dam. As a result of USEPA comments in an email dated December 21, 2009, this location serves as the background monitoring location for the Site. Surface water samples SW-R-1 through SW-R-4 are compared to the results of SW-R-6, per N.J.A.C. 7:9B-1.5 (d) 6iii. With the modification of the PQL for DEHP analyses in water samples, as discussed in Section 2, total DEHP was not detected at background location SW-R-6 in 3Q18 or 4Q18.

Another surface water sample was collected in the Eastern Drainage Ditch near its intersection with the Rockaway River (approximately 10 feet upstream in the Eastern Drainage Ditch; see Figure 2). This location represents the surface water discharge point from the Eastern Drainage Ditch/beaver pond into the Rockaway River. BTEX and Total or Dissolved DEHP was not detected above the NJSWQC in the "Ditch-River Confluence" sample, DRC-2, during either 3Q18 or 4Q18.

BTEX compounds have not been detected above their respective NJSWQCs in Rockaway River surface water samples since quarterly sampling was initiated in 2006. TRC recommends that BTEX be removed from the performance monitoring program for Rockaway River surface water.

5.3 Eastern Drainage Ditch and Rockaway River Sediment Pore Water

As presented in the recommendations in the Revised Ecological Evaluation Report (TRC, 2017), TRC collected four near bank pore water samples in the Eastern Drainage Ditch in 3Q18 and 4Q18 and analyzed unfiltered and filtered aliquots for DEHP (Table 6). During the 3Q18 and 4Q18 event, TRC also collected sediment pore water samples in the Rockaway River at seven locations and analyzed unfiltered and filtered aliquots for DEHP (Table 7). During 4Q18, a sample from one of the locations (PW-RR-TF-MC) could not be obtained as river conditions to get to this location were deemed to be unsafe.

A summary the sediment pore water results for the Eastern Drainage Ditch in 3Q18 and 4Q18 are presented below:

- Total DEHP was detected above the NJGWQC and NJSWQC in one Eastern Drainage Ditch sediment pore samples (PW-D-4 located east of well nest MW-30S/I/D) in 3Q18.
- The pore water concentration is 2 to 5 times greater than total DEHP observed in nearby monitoring wells. Given that dissolved DEHP was not detected above the NJGWQC and NJSWQC in any of the Eastern Drainage Ditch sediment pore samples during 3Q18 and 4Q18, it is likely

observations of total DEHP in Eastern Drainage Ditch pore water samples are associated with entrained sediments/solids.

- TRC recommends discontinuing pore water sampling for the Eastern Drainage Ditch as a removal remedy for this area is under consideration by USEPA.

A summary of the sediment pore water results for the Rockaway River in 3Q18 and 4Q18 are presented below:

- Total and dissolved DEHP was detected above the NJGWQC and NJSWQC at one of the seven Rockaway River sediment pore water sample locations (PW-RR-TG-LB; located upgradient of SW-R-3) in 3Q18 and at one of the seven Rockaway River sediment pore water sample locations (PW-RR-TH-LB; located downgradient of SW-R-2) in 4Q18.
- The Rockaway River pore water samples confirm that groundwater immediately adjacent to and underlying the left bank of the Rockway River contain DEHP.
- However, total DEHP was not detected above the NJSWQC from any of the Rockaway River surface water samples during 3Q18 or 4Q18 and has only been detected above the NJSWQC twice in the last two years of quarterly surface water sampling. Dissolved DEHP has never been detected above the NJSWQC in any of the Rockaway River surface water samples.
- TRC recommends discontinuing quarterly pore water sampling for the Rockaway River as an enhanced phytoremediation remedy recommendation for MW-30 Area groundwater is under consideration by USEPA.

Section 6
Additional and Future Project Activities

Both the UAO and its associated SOW were executed in August 2009. The following subsections briefly outline continuing UAO and SOW required activities anticipated for completion over the next 3 to 6 months. An updated Master Project Schedule is presented in Appendix C.

6.1 General and Administrative Site Scope and Tasks

Following receipt of USEPA approval of the Final Remedial Action Workplan (RAWP) Addendum documenting assessment and preferred remedial action for the MW-30 AOC:

- Finalize the Community Involvement Plan (CIP)
- Finalize the Revised RAWP Addendum and associated Uniform Federal Policy (UFP) compliant QAPP

6.2 Future AOC Scopes and Tasks

The following narrative outlines upcoming tasks for the MW-19/HS-1 and MW-30 AOCs.

- Continue quarterly surface water quality monitoring activities with semiannual reporting
- Based on Agency review of Focused Feasibility Study Report initiate Remedial Design/Remedial Action (RD/RA) activities for Eastern Drainage Ditch and MW-30 Area Groundwater
- Implement an enhanced bioremediation Pilot Study for the MW-19/HS-1 Area
- Prepare a revised Phytoremediation Pilot Study Report for MW-30 AOC following completion of two years of temporary well point sampling
- Secure acceptance of MNA as groundwater remedy for MW-19/HS-1 Area and the MW-30 Source Reduction Area.
- Finalize the RA Work Plan Addendum

Tables

TABLE 1
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Quarterly Groundwater Elevations

Well Location	Elevation (ft MSL) [1]			Measure Date	Product Depth	Water Depth	Product Thickness	Water Elevation[2]	Measure Date	Product Depth	Water Depth	Product Thickness	Water Elevation[2]
Quarter	Ground	Outer Well Casing	Inner Well Casing		Third Quarter 2018					Fourth Quarter 2018			
Units					ft	ft	ft	ft MSL		ft	ft	ft	ft MSL
GEI-3I	636.96	639.39	639.25	8/27/2018	--	11.95	--	627.30	11/26/2018	--	10.28	--	628.97
MW-12R	631.57	634.26	633.73	8/27/2018	--	7.64	--	626.09	11/26/2018	--	6.05	--	627.68
MW-13I	627.76	630.28	630.06	8/27/2018	--	4.05	--	626.01	11/26/2018	--	2.83	--	627.23
MW-13S	627.74	630.80	630.63	8/27/2018	--	NM	--	--	11/26/2018	--	--	--	--
MW-13S(R)	627.66	630.36	629.99	8/27/2018	--	NM	--	--	11/26/2018	--	--	--	--
MW-15I	634.14	636.28	636.06	8/27/2018	--	9.55	--	626.51	11/26/2018	--	8.11	--	627.95
MW-15S	634.23	636.43	636.17	8/27/2018	--	9.64	--	626.53	11/26/2018	--	8.19	--	627.98
MW-17S	632.35	634.32	634.19	8/27/2018	--	7.51	--	626.68	11/26/2018	--	5.70	--	628.49
MW-19R	635.19	635.31	634.95	8/27/2018	--	7.53	--	627.42	11/26/2018	--	5.95	--	629.00
MW-19-5RR	635.51	Not Surveyed	Not Surveyed										
MW-19-6R	635.87	635.85	635.46	8/27/2018	--	8.16	--	627.30	11/26/2018	--	6.69	--	628.77
MW-19-7R	635.30	635.36	634.97	8/27/2018	--	7.78	--	627.19	11/26/2018	--	6.36	--	628.61
MW-19-8	635.57	635.52	635.11	8/27/2018	--	7.94	--	627.17	11/26/2018	--	6.51	--	628.60
MW-19-12	634.93	634.93	634.46	8/27/2018	--	7.21	--	627.25	11/26/2018	--	5.83	--	628.63
MW-19-13	634.87	634.81	634.33	8/27/2018	--	7.18	--	627.15	11/26/2018	--	5.65	--	628.68
MW-19-14	635.07	635.14	634.82	8/27/2018	--	7.41	--	627.41	11/26/2018	--	5.82	--	629.00
MW-19-15	635.56	635.57	635.26	8/27/2018	--	7.33	--	627.93	11/26/2018	--	5.57	--	629.69
MW-19-16	634.66	634.67	634.35	8/27/2018	--	5.96	--	628.39	11/26/2018	--	4.70	--	629.65
MW-19-17	636.26	636.25	635.85	8/27/2018	--	8.59	--	627.26	11/26/2018	--	7.18	--	628.67
MW-21	624.57	628.49	628.20	8/27/2018	--	2.67	--	625.53	11/26/2018	--	1.55	--	626.65
MW-25R	624.65	626.77	626.62	8/27/2018	--	2.38	--	624.24	11/26/2018	--	2.26	--	624.36
MW-27S	635.82	635.78	635.07	8/27/2018	--	8.23	--	626.84	11/26/2018	--	6.34	--	628.73
MW-28S	628.20	631.28	631.14	8/27/2018	--	5.16	--	625.98	11/26/2018	--	3.73	--	627.41
MW-28I	628.25	631.20	631.04	8/27/2018	--	5.02	--	626.02	11/26/2018	--	3.60	--	627.44
MW-29S	629.87	632.85	632.66	8/27/2018	--	6.88	--	625.78	11/26/2018	--	5.65	--	627.01
MW-30S(R)	625.21	628.14	627.94	8/27/2018	--	2.40	--	625.54	11/26/2018	--	1.12	--	626.82
MW-30I	625.14	628.15	628.01	8/27/2018	--	2.58	--	625.43	11/26/2018	--	1.33	--	626.68
MW-30D	625.16	628.22	628.02	8/27/2018	--	2.33	--	625.69	11/26/2018	--	1.05	--	626.97
MW-31S	627.44	629.94	629.78	8/27/2018	ND	4.78	--	625.00	11/26/2018	ND	4.17	--	625.61
MW-32S	627.72	630.23	630.15	8/27/2018	ND	6.07	--	624.08	11/26/2018	ND	4.84	--	625.31
MW-33S	628.69	630.99	630.86	8/27/2018	ND	6.26	--	624.60	11/26/2018	ND	5.11	--	625.75
MW-34S	627.21	629.87	629.91	8/27/2018	ND	5.85	--	624.06	11/26/2018	ND	4.75	--	625.16
MW-35S	627.21	629.55	629.17	8/27/2018	ND	4.28	--	624.89	11/26/2018	ND	3.65	--	625.52
MW-8	627.39	629.96	628.19	8/27/2018	--	2.70	--	625.49	11/26/2018	--	1.57	--	626.62
MW-9	628.61	631.09	629.58	8/27/2018	--	3.50	--	626.08	11/26/2018	--	1.98	--	627.60
DRC-02	623.29	--	--	8/27/2018	--	2.24	--	621.05	11/26/2018	--	2.96	--	620.33
SW-D-1[3]	626.69[4]	--	--	8/27/2018	--	0.68	--	625.07	11/26/2018	--	0.80	--	624.95
SW-D-2[3]	626.07	--	--	8/27/2018	--	NM	--	--	11/26/2018	--	--	--	--
SW-D-3[3]	625.70	--	--	8/27/2018	--	0.44	--	625.26	11/26/2018	--	0.07	--	625.63
SW-D-4	625.02	--	--	8/27/2018	--	0.21	--	624.81	11/26/2018	--	0.75	--	624.27
SW-D-5	626.86	--	--	8/27/2018	--	3.12	--	623.74	11/26/2018	--	2.96	--	623.90
SW-R-1[5]	625.87	--	--	8/27/2018	--	2.60	--	623.27	11/26/2018	--	1.68	--	624.19
SW-R-2[5]	626.54	--	--	8/27/2018	--	NM	--	--	11/26/2018	--	0.98	--	625.56
SW-R-3[5]	626.25	--	--	8/27/2018	--	1.91	--	624.34	11/26/2018	--	2.20	--	624.05
SW-R-4[5]	627.57	--	--	8/27/2018	--	2.49	--	625.08	11/26/2018	--	1.62	--	625.95
SW-R-5[5]	640.66	--	--	8/27/2018	--	1.60	--	639.06	11/26/2018	--	2.69	--	637.97
SW-R-6[5]	630.44[4]	--	--	8/27/2018	--	NM	--	--	11/26/2018	--	--	--	--
SG-R2[6]	629.41	--	--	8/27/2018	--	2.66	--	626.75	11/26/2018	--	1.02	--	628.39

Notes

ft MSL = Feet above Mean Sea Level

NM = Not Measured

ND = Non-Detect

(1) The vertical datum is NAVD 88. Ground reference elevation for SG and SW series gauges and monitoring points is a point specific to each device (i.e., top of stake, top of gauge, notched point on concrete or iron, etc).

(2) Corrected water level elevations for wells with measureable free product utilizing an average specific gravity of 0.9363 (TRC product sampling in October 1999).

(3) SW-D-1, SW-D-2 and SW-D-3 were resurveyed points at the top of the stake that secures each drainage ditch staff gauge. These points were reshot to ensure the reference elevation integrity remained for each of the 3 staff gauges as a result of source reduction excavation disturbance.

(4) SW-R-6 and SW-D-1 were resurveyed in May 2013 due to ice flow damage within the river.

(5) As outlined in the PRMP the six new Rockaway River monitoring points reference survey elevation was shot at the top of a stake installed to each point.

(6) New SG-R2 replaced the old SG-R2 installed in Nov. 1998. Professional survey performed by James M. Stewart, Inc., Philadelphia, PA May 2004. SG-R2 is a chiseled arrow on Iron Beam.

TABLE 2
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
MW-30 Groundwater Monitoring - BTEX and DEHP Data

Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	Total bis-2-Ethylhexyl-phthalate (DEHP)	Dissolved bis-2-Ethylhexyl-phthalate (DEHP)
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Solubility Limit(1)		1,700,000	152,000	515,000	175,000	334	334
Practical Quantitation Limit (PQL)(1)		1	2	1	2	3	3
NJGWQC Class IIA(1)		0.2	700	600	1,000	2	--
Higher of NJGWQC and PQL(1)		1	700	600	1,000	3	--
MW-8	2/15/2017	--	--	--	--	<1.0	<1.0
	6/6/2017	--	--	--	--	1.4 u	<0.95
	9/6/2017	--	--	--	--	**4.0**	**3.7**
	11/15/2017	--	--	--	--	0.99 u	0.95 u
	2/28/2018	--	--	--	--	<0.95	<0.95
	5/9/2018	--	--	--	--	**30.0**	<0.95
	8/28/2018	--	--	--	--	**5.0**	**1.4**
	11/29/2018	--	--	--	--	**2.9**	<0.95
MW-25R	2/15/2017	<0.50	<0.50	<0.50	<1.5	<1.0	1.3 u
	6/6/2017	<0.50	<0.50	<0.50	<1.5	**13**	<0.97
	9/7/2017	<0.50	<0.50	<0.50	<1.5	**1.4**	<0.95
	11/15/2017	<0.50	<0.50	<0.50	<1.5	<0.98	<0.99
	2/28/2018	<0.50	<0.50	<0.50	<1.5	<0.98	<0.95
	5/9/2018	<1	<1	<1	<3	<0.97	<0.95
	8/28/2018	<0.50	<0.50	<0.50	<1.5	**1.8**	**2.0**
	11/29/2018	<0.50	<0.50	<0.50	<1.5	<0.95	<0.95
MW-27S	2/17/2017	<1.0	<1.0	<1.0	<3.0	**1.3**	<1.1
	6/8/2017	<0.50	<0.50	<0.50	<1.5	**1.2**	<0.96
	9/8/2017	<0.50	<0.50	<0.50	<1.5	3.0 u	1.5 u
	11/16/2017	<0.50	<0.50	<0.50	<1.5	<0.96	<0.95
	2/26/2018	<0.50	<0.50	<0.50	<1.5	<1.0	<0.96
	5/9/2018	<1	<1	<1	<3	**3.4**	<0.99
	8/28/2018	<0.50	<0.50	<0.50	<1.5	**1.8**	<0.96
	11/27/2018	<0.50	<0.50	<0.50	<1.5	1.1 u	1.0 u
MW-28S	2/16/2017	--	--	--	--	**65**	<1.0
	6/8/2017	--	--	--	--	**3.9**	<0.95
	9/7/2017	--	--	--	--	**1.6**	<0.96
	11/16/2017	--	--	--	--	**47**	**1.8**
	3/1/2018	--	--	--	--	**12**	<0.94
	5/9/2018	--	--	--	--	**12**	**1.8**
	8/31/2018	--	--	--	--	**5.2**	<0.95
	11/30/2018	--	--	--	--	**8.1**	<0.95
MW-28I	2/16/2017	--	--	--	--	**4**	<1.0
	6/8/2017	--	--	--	--	**1.2**	<0.95
	9/7/2017	--	--	--	--	<0.96	1.4 u
	11/16/2017	--	--	--	--	**1.6**	<0.97
	3/1/2018	--	--	--	--	**19**	<0.96
	5/9/2018	--	--	--	--	**1.8**	<0.98
	8/31/2018	--	--	--	--	<0.96	<0.94
	11/30/2018	--	--	--	--	**2.4**	<0.96

LEGEND

Bold concentrations are above detection limits

Concentration exceeds NJGWQC

ug/L = micrograms per liter

PQL = Practical Quantitation Limit

D = Duplicate sample

-- = Constiuent is not part of the analytical program

j = Estimated value; based on TRC data review

u = TRC's data usability evaluation process has assigned a "u" data qualifier to these results indicating that the DEHP detections are not considered to be representative of site conditions.

NOTES

Low flow sampling initiated 1st quarter 2002.

(1) New Jersey Department of Environmental Protection Ground Water Quality Criteria (NJGWQC) from NJAC 7:9C GWQC last amended July 22, 2010.

TABLE 2
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
MW-30 Groundwater Monitoring - BTEX and DEHP Data

Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	Total bis-2-Ethylhexyl-phthalate (DEHP)	Dissolved bis-2-Ethylhexyl-phthalate (DEHP)
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Solubility Limit(1)		1,700,000	152,000	515,000	175,000	334	334
Practical Quantitation Limit (PQL)(1)		1	2	1	2	3	3
NJGWQC Class IIA(1)		0.2	700	600	1,000	2	--
Higher of NJGWQC and PQL(1)		1	700	600	1,000	3	--
MW-29S	2/14/2017	--	--	--	--	<1.0	<1.0
	6/6/2017	--	--	--	--	<1.0	0.99 u
	9/6/2017	--	--	--	--	<0.97	<0.95
	11/14/2017	--	--	--	--	<0.99	<0.96 uj
	2/27/2018	--	--	--	--	<0.99	<0.95
	5/8/2018	--	--	--	--	**1.2**	<0.95
	8/28/2018	--	--	--	--	<0.95	<0.95
	11/29/2018	--	--	--	--	**2.9**	<0.95
MW-30S(R)	2/14/2017	--	--	--	--	**2.5**	<1.0
	6/7/2017	--	--	--	--	<0.96	<0.95
	9/6/2017	--	--	--	--	<0.97	<0.98
	11/14/2017	--	--	--	--	**2.5**	**2.4**
	2/28/2018	--	--	--	--	**2.5**	<0.95
	5/8/2018	--	--	--	--	<0.97	<0.95
	8/30/2018	--	--	--	--	**6.6**	<0.97
	11/29/2018	--	--	--	--	**2.0**	**3.4**
MW-30I	2/14/2017	--	--	--	--	<1.0	<1.0 uj
	6/7/2017	--	--	--	--	<0.95	<0.96
	9/6/2017	--	--	--	--	<0.95	<0.97
	11/14/2017	--	--	--	--	<0.95	<0.95
	2/27/2018	--	--	--	--	<0.95	<0.96
	5/8/2018	--	--	--	--	<0.95	<0.95
	8/30/2018	--	--	--	--	**2.4**	11 u
	11/29/2018					0.98 u	<0.95
MW-30D	2/15/2017	--	--	--	--	<1.0	<1.0
	6/7/2017	--	--	--	--	<0.94	<0.98
	9/6/2017	--	--	--	--	<0.95	<0.97
	11/14/2017	--	--	--	--	<0.97	<0.99
	2/27/2018	--	--	--	--	<0.97	<0.98
	5/8/2018	--	--	--	--	<0.95	<0.95
	8/30/2018	--	--	--	--	<0.98	<0.95
	11/29/2018	--	--	--	--	<0.95	<0.95
MW-31S	2/15/2017	<0.50	**2.8**	<0.50	**13**	**61**	<1.0
	6/7/2017	**3.7**	**6,500**	**4.7**	**30,000**	**1,100**	**14**
	9/6/2017	**3.7**	**2,400**	**3.4**	**10,000**	**1,700**	--
	9/7/2017	--	--	--	--	**1,900**	**3.4**
	11/14/2017	<0.50	**900**	<0.50	**2,500**	**580**	**1.1**
	2/28/2018	**0.8**	**460**	**1.4**	**1,400**	**260**	2.6 u
	5/9/2018	**3**	**110,000**	**8.9**	**510,000**	**18,000**	**54**
	8/28/2018	**2.4**	**5,800**	**7.5**	**30,000**	**8,100 j**	**26**
	11/28/2018	**1.8**	**4,500**	**5.7**	**24,000**	**3,800 j**	1.3 u
	11/28/2018 D	**1.6**	**4,100**	**5.1**	**22,000**	**1,400 j**	**2.4**

LEGEND

Bold concentrations are above detection limits

Concentration exceeds NJGWQC

ug/L = micrograms per liter

PQL = Practical Quantitation Limit

D = Duplicate sample

j = Estimated value; based on TRC data review

u = TRC's data usability evaluation process has assigned a "u" data qualifier to these results indicating that the DEHP detections are not considered to be representative of site conditions.

NOTES

Low flow sampling initiated 1st quarter 2002.

(1) New Jersey Department of Environmental Protection Ground Water Quality Criteria (NJGWQC) from NJAC 7:9C GWQC last amended July 22, 2010.

TABLE 2
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
MW-30 Groundwater Monitoring - BTEX and DEHP Data

	Analytical Parameters	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total bis-2-Ethylhexyl-phthalate (DEHP)	Dissolved bis-2-Ethylhexyl-phthalate (DEHP)
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
	Solubility Limit(1)	1,700,000	152,000	515,000	175,000	334	334
	Practical Quantitation Limit (PQL)(1)	1	2	1	2	3	3
	NJGWQC Class IIA(1)	0.2	700	600	1,000	2	--
	Higher of NJGWQC and PQL(1)	1	700	600	1,000	3	--
MW-32S	2/15/2017	<0.50	**61**	<0.50	**46**	**520**	**2.0**
	6/7/2017	**3.1**	**1,200**	<0.50	**450**	**1,300**	**4.4**
	9/6-7/2017	**5.2**	**2,000**	**0.68**	**5,600**	**21,000**	**11**
	11/14/2017	<0.50	**350**	<0.50	**100**	**6,000 j**	**1.9**
	11/14/2017 D	**0.62**	**320**	<0.50	**100**	**4,100 j**	**1.6**
	2/27/2018	<0.50	**30**	<0.50	**43**	**720**	<0.96
	5/8/2018	**1.8**	**310**	<1	**290**	**280**	<0.98
	8/28/2018	**3.1**	**2,300**	**44**	**5,200**	**460 j**	<0.95
	8/28/2018 D	**3.3**	**2,400**	**42**	**5,200**	**840 j**	<0.95
	11/27/2018	**0.74**	**1,100**	**4.6**	**2,300**	**8,700**	<0.95
MW-33S	2/16/2017	<0.50	<0.50	<0.50	<1.5	**21**	<1.0
	6/8/2017	<0.50	<0.50	<0.50	<1.5	**13**	1.9 u
	9/7/2017	<0.50	**1.4**	<0.50	**7.1**	**16**	**30**
	11/15/2017	<0.50	<0.50	<0.50	<1.5	**85**	**1.8**
	2/28/2018	<0.50	<0.50	<0.50	<1.5	**160**	<0.96
	5/9/2018	<1.0	**22**	<1.0	**120**	**79**	<0.98
	8/30/2018	<0.50	**2.3**	<0.50	**8.3**	**40**	<0.95
	11/28/2018	<0.50	**15**	<0.50	**85**	**30**	1.4 u
MW-34S	2/14/2017	<0.50	<0.50	<0.50	<1.5	**8**	<1.0
	6/6/2017	<0.50	<0.50	<0.50	<1.5	**3**	<0.99
	9/6/2017	<0.50	**1.6**	<0.50	**1.9**	**35**	<0.95
	11/13/2017	<0.50	<0.50	<0.50	<1.5	**5.5**	<0.95
	2/27/2018	<0.50	<0.50	<0.50	<1.5	**240**	<1.0
	5/8/2018	<1.0	**11**	<1.0	**10**	**1**	<0.97
	8/27/2018	<0.50	**2.0 j**	**0.93 j**	**4.8 j**	<0.95	<0.96
	11/26/2018	<0.50	**1.2**	<0.50	**2.5 j**	1.3 u	<0.94
	11/26/2018 D	<0.50	**1.4**	<0.50	**3.6 j**	<0.96	<0.95
MW-35S	2/14/2017	<0.50	**160**	<0.50	**540**	**140 j**	**1.3**
	2/14/2017 D	<0.50	**160**	<0.50	**560**	**62 j**	<1.0
	6/6/2017	**2.8**	**1900 j**	**3.0**	**10,000**	**270**	<1.0
	6/6/2017 D	**2.7**	**1100 j**	**2.6**	**10,000**	**250**	<0.50
	9/6/2017	**3.7**	**3,300**	**1.5**	**17,000**	**360**	<0.95
	9/6/2017 D	**3.6**	**3,400**	**1.5**	**17,000**	**460**	<0.95
	11/13/2017	**2.6**	**6,000**	**0.83**	**28,000**	**24 j**	<0.96
	2/27/2018	**1.1**	**5,900**	**1.0**	**26,000**	**200**	1.3 u
	2/27/2018 D	**1.3**	**5,500**	**1.0**	**24,000**	**210**	2.0 u
	5/8/2018	<1	**6,100**	**2.1**	**31,000**	**160 j**	<0.95
	5/8/2018 D	<1	**6,200**	**1.9**	**31,000**	**310 j**	**1.7**
	8/27/2018	**1.1 j**	**5,300 j**	**0.73 j**	**26,000 j**	**68 j**	**7.4 j**
	8/27/2018 D	**1.2 j**	**5,100 j**	**0.73 j**	**26,000 j**	**100 j**	**29 j**
	11/27/2018	**0.93**	**4,400**	**0.62**	**19,000**	**4,500**	**520**

LEGEND

Bold concentrations are above detection limits

Concentration exceeds NJGWQC

ug/L = micrograms per liter

PQL = Practical Quantitation Limit

D = Duplicate sample

j = Estimated value; based on TRC data review

u = TRC's data usability evaluation process has assigned a "u" data qualifier to these results indicating that the DEHP detections are not considered to be representative of site conditions.

NOTES

Low flow sampling initiated 1st quarter 2002.

(1) New Jersey Department of Environmental Protection Ground Water Quality Criteria (NJGWQC) from NJAC 7:9C GWQC last amended July 22, 2010.

TABLE 3
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Temporary Monitoring Well Groundwater Monitoring - MNA Field Data

Analytical Parameters		pH	Conduct-ivity	ORP	Dissolved Oxygen	Turbidity	Temp-erature	Ferrous Iron	Alkalinity	CO2
	Units	S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
TMW-01	6/29/2017	7.25	652	151	0.00	13.6	17.62	NM	NM	NM
	9/8/2017	7.26	729	-135	0.08	8.8	16.26	NM	NM	NM
	11/17/2017	7.01	882	-106	0.00	32.9	10.98	NM	NM	NM
	3/1/2018	7.38	501	-42	1.86	0.0	7.63	NM	NM	NM
	5/8/2018	6.90	616	-63	0.00	0.0	10.97	NM	NM	NM
	8/27/2018	7.25	537	-154	0.00	2.0	18.79	NM	NM	NM
	11/26/2018	6.99	726	-109	0.00	6.4	11.58	NM	NM	NM
TMW-02	6/30/2017	6.24	557	80	0.00	22.2	18.77	NM	NM	NM
	9/5/2017	6.67	966	-78	0.30	238	20.10	NM	NM	NM
	11/13/2017	6.73	961	-83	0.00	9.7	7.36	NM	NM	NM
	3/1/2018	7.05	439	35	0.00	2.9	7.93	NM	NM	NM
	5/8/2018	6.99	768	-39	0.00	45.0	17.90	NM	NM	NM
	8/30/2018	6.86	686	-139	0.19	2.1	32.64	NM	NM	NM
	11/26/2018	6.64	809	-52	0.00	6.9	7.06	NM	NM	NM
TMW-03	6/29/2017	6.70	551	-97	1.38	36.0	18.25	NM	NM	NM
	9/8/2017	6.88	690	-84	0.00	10.8	16.55	NM	NM	NM
	11/13/2017	6.69	758	-61	0.00	17.0	9.33	NM	NM	NM
	3/1/2018	6.89	365	63	1.47	42.5	6.83	NM	NM	NM
	5/8/2018	6.75	549	-5	0.00	57.8	22.23	NM	NM	NM
	8/30/2018	6.64	507	-73	0.00	6.1	23.60	NM	NM	NM
	11/26/2018	6.51	782	-50	0.00	9.1	7.51	NM	NM	NM
TMW-04	6/29/2017	6.67	1,430	-84	0.00	11.7	18.41	NM	NM	NM
	9/7/2017	7.01	1,010	-92	0.00	14.2	21.14	NM	NM	NM
	11/15/2017	6.74	1,570	-98	0.00	13.4	11.29	NM	NM	NM
	2/28/2018	7.01	930	18	0.00	7.3	7.83	NM	NM	NM
	5/10/2018	7.15	936	-39	0.00	0.0	12.73	NM	NM	NM
	8/28/2018	6.71	713	-93	0.00	7.9	25.68	NM	NM	NM
	11/27/2018	6.98	1,080	-72	0.00	4.9	7.10	NM	NM	NM
TMW-05	6/29/2017	6.75	618	-113	0.00	24.2	21.86	NM	NM	NM
	9/7/2017	7.10	782	-94	0.00	13.7	17.16	NM	NM	NM
	11/15/2017	6.76	1,390	-80	0.00	10.3	9.76	NM	NM	NM
	2/28/2018	7.18	433	13	0.00	29.1	11.47	NM	NM	NM
	5/10/2018	7.12	656	-5	1.68	0.0	13.55	NM	NM	NM
	8/28/2018	6.88	643	-92	0.00	8.1	29.12	NM	NM	NM
	11/27/2018	7.00	760	-39	0.00	3.6	6.74	NM	NM	NM
TMW-06	6/30/2017	6.81	601	-120	0.00	8.5	20.30	NM	NM	NM
	9/5/2017	6.86	568	-64	0.39	176	22.61	NM	NM	NM
	11/14/2017	6.34	411	-139	0.00	14.9	8.71	NM	NM	NM
	2/27/2018	6.70	424	82	0.00	15.5	5.55	NM	NM	NM
	5/9/2018	7.08	664	-46	0.00	0.0	11.50	NM	NM	NM
	8/29/2018	6.81	550	-109	0.00	7.1	23.95	NM	NM	NM
	11/28/2018	7.31	611	-54	0.00	0.0	6.09	NM	NM	NM

LEGEND

S.U. = Standard Units
uS/cm = microSiemens per centimer
mV = millivolts
mg/L = milligrams per liter
NTU = Nephelometric Turbidity Units
ORP = Oxidation Reduction Potential
CO2 = Carbon Dioxide
NM = Not Measured

TABLE 3
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Temporary Monitoring Well Groundwater Monitoring - MNA Field Data

Analytical Parameters		pH	Conduct-ivity	ORP	Dissolved Oxygen	Turbidity	Temp-erature	Ferrous Iron	Alkalinity	CO2
	Units	S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
TMW-07	6/30/2017	7.63	575	-152	1.79	37.8	21.45	NM	NM	NM
	9/5/2017	7.80	511	-128	0.08	112	22.79	NM	NM	NM
	11/14/2017	7.27	634	-40	3.16	18.9	9.40	NM	NM	NM
	2/27/2018	7.11	737	-13	1.63	8.8	8.80	NM	NM	NM
	5/9/2018	7.41	609	-43	0.00	7.7	11.79	NM	NM	NM
	8/28/2018	7.22	495	-136	0.00	0.0	28.64	NM	NM	NM
	11/28/2018	7.41	693	-68	0.00	0.0	10.92	NM	NM	NM
TMW-08	6/30/2017	6.97	666	-126	0.00	20.7	14.80	NM	NM	NM
	9/7/2017	7.37	764	-113	0.00	9.5	16.15	NM	NM	NM
	11/15/2017	6.87	858	-110	0.00	5.5	10.95	NM	NM	NM
	2/28/2018	6.46	577	-26	0.00	4.2	10.37	NM	NM	NM
	5/10/2018	7.59	562	-57	0.00	0.0	9.82	NM	NM	NM
	8/29/2018	6.93	524	-122	0.00	0.0	22.81	NM	NM	NM
	11/27/2018	7.25	686	-57	0.00	2.1	9.64	NM	NM	NM
TMW-09	6/30/2017	7.21	646	-151	0.00	5.9	13.74	NM	NM	NM
	9/7/2017	7.46	544	-112	0.44	9.9	15.60	NM	NM	NM
	11/15/2017	7.12	777	-141	0.00	8.7	11.69	NM	NM	NM
	2/28/2018	7.38	601	-54	0.00	0.0	8.10	NM	NM	NM
	5/9/2018	6.95	611	-49	0.00	0.0	10.86	NM	NM	NM
	8/29/2018	6.93	535	-137	0.71	0.0	25.25	NM	NM	NM
	11/30/2018	7.35	752	-74	0.00	0.0	10.81	NM	NM	NM
TMW-10	6/30/2017	6.80	541	73	1.43	39.6	16.73	NM	NM	NM
	9/5/2017	7.04	609	42	0.57	107	19.90	NM	NM	NM
	11/14/2017	6.93	529	137	0.00	14.0	9.83	NM	NM	NM
	2/27/2018	6.70	393	140	0.00	11.5	5.51	NM	NM	NM
	5/9/2018	7.19	703	2	0.00	0.0	15.01	NM	NM	NM
	8/29/2018	6.82	620	-98	0.00	8.9	24.27	NM	NM	NM
	11/28/2018	7.37	642	20	0.00	2.3	6.30	NM	NM	NM

LEGEND

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TABLE 3
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
MW-30 Area Quarterly Groundwater Monitoring - MNA Field Data

Analytical Parameters		pH	Conduct-ivity	ORP	Dissolved Oxygen	Turbidity	Temp-erature	Ferrous Iron	Alkalinity	CO2
	Units	S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
MW-8	2/14/2017	7.68	345	-220	0.00	329	8.23	NM	NM	NM
	6/6/2017	7.64	498	-200	0.00	3.50	10.01	16	20	30
	9/6/2017	7.55	365	-218	0.00	32.6	14.56	NM	NM	NM
	11/15/2017	6.77	345	-84	0.00	89.1	12.6	NM	NM	NM
	2/28/2018	7.47	278	-99	3.26	46.0	9.42	NM	NM	NM
	5/9/2018	7.92	470	-79	0.82	0.0	10.73	30	200	28
	8/28/2018	7.48	537	-180	0.00	3.3	18.58	NM	NM	NM
	11/29/2018	8.32	368	-147	0.00	8.9	11.15	NM	NM	NM
MW-25R	2/14/2017	7.15	260	179	0.00	4.80	3.17	NM	NM	NM
	6/6/2017	7.06	477	-36	0.00	65.9	12.42	2	70	11
	9/7/2017	7.61	515	18	6.47	21.5	15.69	NM	NM	NM
	11/15/2017	6.92	653	142	0.00	9.20	NM	2	70	11
	2/28/2018	6.87	495	137	0.66	4.50	3.92	NM	NM	NM
	5/9/2018	7.66	565	-5	0.00	13.5	11.94	2	190	18
	8/28/2018	7.35	625	-123	0.00	9.4	24.36	NM	NM	NM
	11/29/2018	8.18	458	-74	0.00	6.8	8.18	NM	NM	NM
MW-27S	2/14/2017	7.17	1,850	2.0	0.00	158	11.41	NM	NM	NM
	6/6/2017	7.33	1,010	-29.0	0.00	63.0	12.57	4	170	20
	9/6/2017	6.92	1,610	-7.0	1.58	37.0	16.29	NM	NM	NM
	11/16/2017	6.81	1,700	-64.0	0.00	22.4	12.11	NM	NM	NM
	2/26/2018	7.60	609	166	0.00	12.8	10.85	NM	NM	NM
	5/9/2018	7.65	1,170	19	0.92	41.6	12.15	NM	NM	NM
	8/28/2018	7.47	1,100	-9	1.52	3.3	21.28	NM	NM	NM
	11/27/2018	7.16	679	63	1.86	7.1	12.23	NM	NM	NM
MW-28S	2/14/2017	7.28	530	-155	0.00	10.0	9.02	NM	NM	NM
	6/8/2017	7.08	625	-111	0.00	68.6	13.91	20	275	40
	9/7/2017	7.27	727	-157	0.00	0.10	14.50	NM	NM	NM
	11/16/2017	7.19	658	-136	0.00	8.70	14.55	NM	NM	NM
	3/1/2018	7.33	642	-74	0.00	0.00	9.45	NM	NM	NM
	5/9/2018	7.74	755	-90	0.00	0.00	11.58	25	14	14
	8/31/2018	7.04	931	-139	0.00	0.0	15.25	NM	NM	NM
	11/30/2018	7.38	378	-143	0.00	0.0	12.19	NM	NM	NM
MW-28I	2/14/2017	7.20	679	-155	0.00	6.60	10.23	NM	NM	NM
	6/8/2017	7.18	577	-118	0.00	164	14.26	10	70	30
	9/7/2017	7.34	665	-156	0.00	2.20	14.52	NM	NM	NM
	11/16/2017	7.20	715	-146	0.00	0.00	13.80	NM	NM	NM
	3/1/2018	7.40	607	-77	0.00	8.20	10.91	NM	NM	NM
	5/9/2018	7.79	874	-101	0.00	0.00	12.94	30	160	13
	8/31/2018	7.05	1,060	-150	0.00	0.0	14.20	NM	NM	NM
	11/30/2018	7.39	433	-101	7.39	3.8	11.96	NM	NM	NM
MW-29S	2/14/2017	6.87	824	-138	0.00	6.90	5.89	NM	NM	NM
	6/6/2017	6.91	751	-107	0.00	46.4	13.6	30	500	70
	9/6/2017	6.74	774	-108	0.00	0.00	17.45	NM	NM	NM
	11/16/2017	6.7	914	-136	0.00	7.00	14.87	NM	NM	NM
	2/27/2018	6.94	609	-34	0.00	16.6	10.43	NM	NM	NM
	5/8/2018	7.09	717	-65	0.00	1.00	11.35	30	80	450
	8/28/2018	6.89	836	-115	0.00	0.0	22.31	NM	NM	NM
	11/29/2018	7.02	832	-53	0.00	7.3	10.86	NM	NM	NM

LEGEND

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TABLE 3
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Borough of Wharton, Morris County, New Jersey
MW-30 Area Quarterly Groundwater Monitoring - MNA Field Data

Analytical Parameters		pH	Conduct-ivity	ORP	Dissolved Oxygen	Turbidity	Temp-erature	Ferrous Iron	Alkalinity	CO2
Units		S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
MW-30S(R)	2/14/2017	7.23	674	-146	0.00	4.90	7.53	NM	NM	NM
	6/7/2017	7.76	580	-87	0.00	0.00	14.1	7	80	27
	9/6/2017	7.09	718	-142	0.00	0.00	15.96	NM	NM	NM
	11/14/2017	7.04	759	-156	0.00	8.00	12.83	NM	NM	NM
	2/28/2018	7.2	820	-62	4.18	0.00	5.70	NM	NM	NM
	5/8/2018	7.36	666	-86	0.00	0.00	9.76	30	250	45
	8/30/2018	7.15	624	-152	0.00	0.0	24.01	NM	NM	NM
	11/29/2018	7.31	808	-90	0.00	1.7	11.35	NM	NM	NM
MW-30I	2/14/2017	7.20	639	-148	0.00	16.7	9.03	NM	NM	NM
	6/7/2017	7.83	563	-85	0.58	0.00	14.1	12	50	19
	9/6/2017	7.13	687	-140	0.00	0.10	15.36	NM	NM	NM
	11/14/2017	7.07	699	-152	0.00	7.70	13.19	NM	NM	NM
	2/27/2018	7.28	520	-64	0.00	8.90	11.56	NM	NM	NM
	5/8/2018	7.47	671	-53	1.50	9.60	12.07	20	200	50
	8/30/2018	7.15	634	-158	0.00	0.0	18.81	NM	NM	NM
	11/29/2018	7.31	830	-88	0.00	9.1	10.12	NM	NM	NM
MW-30D	2/14/2017	7.6	488	-156	0.00	5.00	11.53	NM	NM	NM
	6/7/2017	8.29	473	-64	0.00	58.5	13.9	8	95	11.5
	9/6/2017	7.36	547	-124	0.00	2.90	14.2	NM	NM	NM
	11/14/2017	7.39	680	-149	0.00	3.70	12.48	NM	NM	NM
	2/27/2018	7.52	581	-44	0.00	35.5	12.82	NM	NM	NM
	5/8/2018	7.64	535	-66	0.00	19.3	12.39	3	150	17
	8/30/2018	7.17	567	-142	3.68	0.0	20.02	NM	NM	NM
	11/29/2018	7.45	648	-68	0.00	1.8	11.58	NM	NM	NM
MW-31S	2/14/2017	7.05	732	99	0.00	0.20	8.34	NM	NM	NM
	6/7/2017	8.49	340	-109	0.00	0.10	23.84	1	70	60
	9/6/2017	7.63	514	-261	0.00	20.9	16.60	NM	NM	NM
	11/14/2017	7.18	830	-88	0.00	23.4	12.60	NM	NM	NM
	2/28/2018	7.07	539	-18	0.00	9.60	6.50	NM	NM	NM
	5/9/2018	10.15	405	-125	0.00	3.80	13.70	0.1	12	0
	8/28/2018	9.40	497	-249	0.00	5.1	28.30	NM	NM	NM
	11/29/2018	9.88	345	18	0.00	7.1	6.89	NM	NM	NM
MW-32S	2/14/2017	6.74	805	-69	0.00	10.0	5.56	NM	NM	NM
	6/7/2017	6.79	647	-63	0.00	10.4	16.80	8	70	50
	9/6/2017	6.4	680	-40	0.00	19.8	17.01	NM	NM	NM
	11/14/2017	6.91	1,010	-74	0.00	25.9	9.69	NM	NM	NM
	2/27/2018	6.99	599	9	5.32	1.50	10.62	NM	NM	NM
	5/8/2018	7.33	588	-43	0.00	2.30	21.14	4.5	130	12
	8/28/2018	6.45	902	-112	1.40	3.1	24.58	NM	NM	NM
	11/27/2018	7.11	852	-87	0.00	22.9	7.27	NM	NM	NM
MW-33S	2/14/2017	6.57	324	76	0.00	7.70	1.01	NM	NM	NM
	6/8/2017	6.8	319	9	0.00	0.00	16.58	5	70	35
	9/7/2017	6.69	449	-63	0.23	3.60	18.29	NM	NM	NM
	11/15/2017	6.31	554	-43	0.00	30.2	9.11	NM	NM	NM
	3/8/2018	6.87	400	89	0.00	8.30	8.80	NM	NM	NM
	5/9/2018	6.99	387	-36	0.00	2.60	14.16	10	11	12.5
	8/30/2018	6.18	448	-65	0.78	1.3	21.03	NM	NM	NM
	11/28/2018	7.21	334	-36	0.00	0.0	7.49	NM	NM	NM

LEGEND

S.U. = Standard Units
uS/cm = microSiemens per centimer
mV = millivolts
mg/L = milligrams per liter
NTU = Nephelometric Turbidity Units
ORP = Oxidation Reduction Potential
CO2 = Carbon Dioxide
NM = Not Measured

TABLE 3
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
MW-30 Area Quarterly Groundwater Monitoring - MNA Field Data

Analytical Parameters		pH	Conduct-ivity	ORP	Dissolved Oxygen	Turbidity	Temp-erature	Ferrous Iron	Alkalinity	CO2
	Units	S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
MW-34S	2/14/2017	6.90	583	59	0.00	42.4	3.23	NM	NM	NM
	6/6/2017	7.20	769	30	0.00	0.00	12.90	2.5	60	40
	9/6/2017	6.30	708	-45	0.65	9.80	16.84	NM	NM	NM
	11/13/2017	6.67	870	-5	0.00	34.5	9.38	NM	NM	NM
	2/27/2018	6.90	535	97	7.83	9.20	8.24	NM	NM	NM
	5/8/2018	7.22	525	-38	0.00	0.00	11.69	3.5	150	12.5
	8/27/2018	6.81	894	-51	0.00	0.0	22.56	NM	NM	NM
	11/26/2018	6.59	889	8	0.00	33.4	8.58	NM	NM	NM
MW-35S	2/14/2017	7.13	579	-34	0.00	9.90	7.61	NM	NM	NM
	6/6/2017	7.56	541	-52	3.56	15.8	14.39	15	90	30
	9/6/2017	6.75	518	-87	0.00	17.9	16.5	NM	NM	NM
	11/13/2017	6.85	775	-105	0.00	25.4	11.91	NM	NM	NM
	2/27/2018	6.98	465	-34	4.49	0.00	7.77	NM	NM	NM
	5/8/2018	7.57	447	-71	0.00	9.60	13.14	20	11	14
	8/27/2018	7.08	618	-111	0.88	0.3	21.98	NM	NM	NM
	11/27/2018	6.90	507	-96	0.00	0.0	9.75	NM	NM	NM

LEGEND

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CO2 = Carbon Dioxide
NM = Not Measured

TABLE 4
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Surface Water Monitoring - BTEX and DEHP Data

	Analytical Parameters	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total bis-2-Ethylhexyl-phthalate (DEHP)	Dissolved bis-2-Ethylhexyl-phthalate (DEHP)
	Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
	Practical Quantitation Limit (PQL)(1)	**1.0**	**1.0**	**1.0**	**3**	**1.0**	**1.0**
	NJSWQC (2)	**0.15**	**530**	**1,300**	**- -**	**1.2**	**--**
	Higher of NJSWQC and PQL(1)	**1.0**	**530**	**1,300**	**- -**	**1.2**	**--**
	APPLICABLE BACKGROUND CONCENTRATION (SW-R-6). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii (1)(2)	**<1.0**	**<1.0**	**<1.0**	**<3.0**	**<0.48**	**--**
SW-D-1	2/13/2017	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0
	6/5/2017	<0.50	<0.50	<0.50	<1.5	**0.21**	<0.25
	9/5/2017	<0.50	<0.50	**0.51**	<1.5	1.3 u	<0.48
	11/13/2017	<0.50	<0.50	<0.50	<1.5	<0.25	0.41 u
	2/26/2018	<0.50	<0.50	<0.50	<1.5	<0.24	<0.24
	5/7/2018	<1.0	<1.0	<1.0	<3.0	**0.2**	**0.23**
	9/7/2018	<0.50	<0.50	<0.50	<1.5	0.40 J u	0.63 u
	11/26/2018	<0.50	<0.50	<0.50	<1.5	<0.49	<0.48
SW-D-2	2/13/2017	<0.50	**1.4**	<0.50	**3.8**	<1.0	<1.0
	2/13/2017 D	<0.50	**0.99**	<0.50	**2.4**	**1.8**	**3.1**
	6/5/2017	<0.50	<0.50	<0.50	<1.5	<0.24	0.16 u
	6/5/2017 D	<0.50	<0.50	<0.50	<1.5	<0.25	<0.26
	9/5/2017	<0.50	<0.50	<0.50	<1.5	**0.25**	**0.37**
	9/5/2017 D	<0.50	<0.50	<0.50	<1.5	**0.28**	**0.64**
	11/13/2017	<0.50	<0.50	<0.50	<1.5	**11 j**	**0.37**
	11/13/2017 D	<0.50	<0.50	**0.52**	<1.5	**3.1 j**	**0.18**
	2/26/2018	<0.50	<0.50	<0.50	<1.5	<0.24	<0.24
	2/26/2018 D	<0.50	<0.50	<0.50	<1.5	<0.25	<0.24
	5/7/2018	<1.0	<1.0	<1.0	<3.0	**0.65**	**0.33**
	8/27/2018	<0.50	<0.50	<0.50	<1.5	**1.7 j**	**1.5 j**
	8/27/2018 D	<0.50	<0.50	<0.50	<1.5	**0.88 j**	**1.1 j**
	11/26/2018	<0.50	<0.50	<0.50	<1.5	0.49 u	0.37 J u
	11/26/2018 D	<0.50	<0.50	<0.50	<1.5	0.80 u	0.32 J u
SW-D-3	2/13/2017	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0
	6/5/2017	<0.50	<0.50	<0.50	<1.5	**0.13**	0.28 u
	9/5/2017	<0.50	<0.50	<0.50	<1.5	0.66 u	0.67 u
	11/13/2017	<0.50	<0.50	<0.50	<1.5	0.22 u	0.12 u
	2/26/2018	<0.50	<0.50	<0.50	<1.5	**0.53**	**0.11 J**
	5/7/2018	<1.0	<1.0	<1.0	<3.0	**0.52**	**0.81**
	9/9/2018	<0.50	<0.50	<0.50	<1.5	0.19 J u	0.27 J u
	11/26/2018	<0.50	<0.50	<0.50	<1.5	<0.48	<0.48

LEGEND

Bold concentrations are above reporting limits but below criteria.

Concentration exceeds NJSWQC

ug/L = micrograms per liter

D = Duplicate sample

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J = Estimated value; concentration above the laboratory Method Detection Limit, but below the Reporting Limit

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NOTES

(1) Per NJDEP request, along with a change in laboratories, the detection limits for site COCs were lowered.

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TABLE 4
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Surface Water Monitoring - BTEX and DEHP Data

Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	Total bis-2-Ethylhexyl-phthalate (DEHP)	Dissolved bis-2-Ethylhexyl-phthalate (DEHP)
Units		**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
Practical Quantitation Limit (PQL)(1)		**1.0**	**1.0**	**1.0**	**3**	**1.0**	**1.0**
NJSWQC (2)		**0.15**	**530**	**1,300**	**- -**	**1.2**	**--**
Higher of NJSWQC and PQL(1)		**1.0**	**530**	**1,300**	**- -**	**1.2**	**--**
APPLICABLE BACKGROUND CONCENTRATION (SW-R-6). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii (1)(2)		**<1.0**	**<1.0**	**<1.0**	**<3.0**	**<0.48**	**--**
SW-D-4	2/13/2017	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0
	6/5/2017	<0.50	<0.50	<0.50	<1.5	**0.36**	0.15 u
	9/5/2017	<0.50	<0.50	<0.50	<1.5	<0.48	0.22 u
	11/13/2017	<0.50	<0.50	<0.50	<1.5	<0.24	<0.25
	2/26/2018	<0.50	<0.50	<0.50	<1.5	<0.26	<0.24
	5/7/2018	<1.0	<1.0	<1.0	<3.0	<0.48	<0.48 uj
	9/7/2018	<0.50	<0.50	**3.9**	<1.5	**2.2**	**2.5**
	11/26/2018	<0.50	<0.50	<0.50	<1.5	0.23 J u	<0.49
SW-D-5	2/13/2017	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0
	6/5/2017	<0.50	<0.50	<0.50	<1.5	**0.17**	<0.28
	9/5/2017	<0.50	<0.50	<0.50	<1.5	0.71 u	<0.48
	11/13/2017	<0.50	<0.50	<0.50	<1.5	0.38 u	0.33 u
	2/26/2018	<0.50	<0.50	<0.50	<1.5	<0.24	0.12 u
	5/7/2018	<1.0	<1.0	<1.0	<3.0	**0.37**	**0.24**
	8/27/2018	<0.50	<0.50	<0.50	<1.5	<0.47	0.21 J u
	11/26/2018	<0.50	<0.50	<0.50	<1.5	<0.48	<0.47
DRC-2	2/13/2017	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0
	6/5/2017	<0.50	<0.50	<0.50	<1.5	<0.24	0.13 u
	9/5/2017	<0.50	<0.50	<0.50	<1.5	0.83 u	3.2 u
	11/13/2017	<0.50	<0.50	<0.50	<1.5	**0.73**	0.096 u
	2/26/2018	<0.50	<0.50	<0.50	<1.5	<0.24	<0.24
	5/7/2018	<1.0	<1.0	<1.0	<3.0	<0.49	0.78 u
	8/27/2018	<0.50	<0.50	<0.50	<1.5	<0.48	<0.48
	11/26/2018	<0.50	<0.50	<0.50	<1.5	<0.47	<0.47
SW-R-1	2/13/2017	<0.50	<0.50	<0.50	<1.5	<1.0	1.6 u
	6/5/2017	<0.50	<0.50	<0.50	<1.5	**0.25**	0.092 u
	9/5/2017	<0.50	<0.50	<0.50	<1.5	**6.8**	0.60 u
	11/13/2017	<0.50	<0.50	<0.50	<1.5	0.23 u	0.90 u
	2/26/2018	<0.50	<0.50	<0.50	<1.5	<0.24	<0.24
	5/7/2018	<1.0	<1.0	<1.0	<3.0	<0.48	**0.34**
	9/7/2018	<0.50	<0.50	<0.50	<1.5	<0.49	0.74 u
	11/26/2018	<0.50	<0.50	<0.50	<1.5	0.95 u	<0.48

LEGEND

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Concentration exceeds NJSWQC

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TABLE 4
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Surface Water Monitoring - BTEX and DEHP Data

	Analytical Parameters	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total bis-2-Ethylhexyl-phthalate (DEHP)	Dissolved bis-2-Ethylhexyl-phthalate (DEHP)
	Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
	Practical Quantitation Limit (PQL)(1)	**1.0**	**1.0**	**1.0**	**3**	**1.0**	**1.0**
	NJSWQC (2)	**0.15**	**530**	**1,300**	**- -**	**1.2**	**--**
	Higher of NJSWQC and PQL(1)	**1.0**	**530**	**1,300**	**- -**	**1.2**	**--**
	APPLICABLE BACKGROUND CONCENTRATION (SW-R-6). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii (1)(2)	**<1.0**	**<1.0**	**<1.0**	**<3.0**	**<0.48**	**--**
SW-R-2	2/13/2017	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0
	6/5/2017	<0.50	<0.50	<0.50	<1.5	<0.24	<0.24
	9/5/2017	<0.50	<0.50	<0.50	<1.5	0.26 u	1.4 u
	11/13/2017	<0.50	<0.50	<0.50	<1.5	0.61 u	0.50 u
	2/26/2018	<0.50	<0.50	<0.50	<1.5	<0.24	<0.24
	5/7/2018	<1.0	<1.0	<1.0	<3.0	<0.47	**0.33**
	9/7/2018	<0.50	<0.50	<0.50	<1.5	<0.49	<0.48
	11/26/2018	<0.50	<0.50	<0.50	<1.5	0.37 J u	0.42 J u
SW-R-3	2/13/2017	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0
	6/5/2017	<0.50	<0.50	<0.50	<1.5	**3.9**	1.3 u
	9/5/2017	<0.50	<0.50	<0.50	<1.5	1.9 u	0.51 u
	11/13/2017	<0.50	<0.50	<0.50	<1.5	**1.5 j**	**0.31**
	2/26/2018	<0.50	<0.50	<0.50	<1.5	**0.15 J**	<0.24
	5/7/2018	<1.0	<1.0	<1.0	<3.0	<0.48	<0.48
	9/7/2018	<0.50	<0.50	<0.50	<1.5	<0.48	0.5 u
	11/26/2018	<0.50	<0.50	<0.50	<1.5	<0.47	<0.48
SW-R-4	2/13/2017	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0
	6/5/2017	<0.50	<0.50	<0.50	<1.5	**0.13**	<0.24
	9/5/2017	<0.50	<0.50	<0.50	<1.5	0.33 u	0.50 u
	11/13/2017	<0.50	<0.50	<0.50	<1.5	0.21 u	1.5 u
	2/26/2018	<0.50	<0.50	<0.50	<1.5	**0.17 J**	<0.24
	5/7/2018	<1.0	<1.0	<1.0	<3.0	**0.63**	<0.49
	9/7/2018	<0.50	<0.50	<0.50	<1.5	<0.48	<0.48
	11/26/2018	<0.50	<0.50	<0.50	<1.5	<0.47	0.41 J u
SW-R-6	2/13/2017	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0
	6/5/2017	<0.50	<0.50	<0.50	<1.5	**0.32**	<0.24
	9/5/2017	<0.50	<0.50	<0.50	<1.5	<0.48	<0.47
	11/13/2017	<0.50	<0.50	<0.50	<1.5	0.30 u	0.31 u
	2/26/2018	<0.50	<0.50	<0.50	<1.5	<0.24	<0.24
	5/7/2018	<1.0	<1.0	<1.0	<3.0	<0.48	<0.47
	5/7/2018 D	<1.0	<1.0	<1.0	<3.0	<0.48	<0.48
	9/7/2018	<0.50	<0.50	<0.50	<1.5	<0.48	0.25 J u
	11/26/2018	<0.50	<0.50	<0.50	<1.5	<0.48	<0.49

LEGEND

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NOTES

(1) Per NJDEP request, along with a change in laboratories, the detection limits for site COCs were lowered.

(2) New Jersey Department of Environmental Protection Surface Water Quality Criteria (NJSWQC) from NJAC 7:9B. Last Amended - January 18, 2011 (43 N.J.R. 174(b)). Numerical Surface Water Quality Criteria (NJSWQC) re-adopted: October 17, 2016

TABLE 5
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Temporary Monitoring Well Groundwater Data - BTEX and DEHP Data

Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)	Dissolved bis-2-Ethylhexyl phthalate (DEHP)
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Solubility Limit[1]		1,700,000	152,000	515,000	175,000	334	334
Practical Quantitation Limit (PQL)[1]		1	2	1	2	3	3
NJGWQC Class IIA[1]		0.2	700	600	1,000	2	--
Higher of NJGWQC and PQL[1]		1	700	600	1,000	3	--
TMW-01	6/29/2017	<0.50 uj	**1.5 j**	<0.50 uj	**4.1 j**	**130**	**1.7**
	9/8/2017	<0.50	**1.2**	<0.50	**3.6**	**98**	<0.95
	11/13/2017	**0.81**	**1.2**	<0.50	**5.2**	**51**	<0.98
	3/1/2018	<0.50	**12**	<0.50	**27**	**52**	<0.94
	5/8/2018	<1	**41**	<1	**140**	**14 j**	<0.95
	5/8/2018 D	<1	**47**	<1	**160**	**26 j**	<0.95
	8/27/2018	<0.50	**23 j**	<0.50	**69 j**	**2.1**	<0.97
	11/26/2018	<0.50	**5.2**	<0.50	**7.6**	1.2 u	<0.94
TMW-02	6/30/2017	**18**	**8,500**	**3.6**	**38,000**	**1,200**	**570**
	9/5-6/2017	**14**	**6,100**	**1.5**	**23,000**	**1,000**	**1.4**
	11/13/2017	**6.3**	**7,400**	**1.5**	**32,000**	**1,500**	<0.95
	3/1/2018	**0.52**	**780**	<0.50	**2,800**	**130**	<0.96
	5/8/2018	**2.4**	**3,100**	**1.4**	**11,000**	**62**	<0.97
	8/30/2018	**6.3**	**7,500**	**2.6**	**33,000**	**3,100**	**1.1**
	11/26/2018	**0.72**	**1,300**	<0.50	**4,700**	**98**	<0.94
TMW-03	6/29/2017	**1.5 j**	**2,300 j**	**4.0 j**	**7,400 j**	**110,000**	**1.7**
	9/8/2017	**4.5**	**4,100**	**4.0**	**16,000**	**1,800**	<0.95
	11/13/2017	**0.5**	**2,700**	**1.1**	**11,000**	**3,500**	**6.8**
	3/1/2018	<0.50	**1,000**	<0.50	**4,100**	**2,200**	3.5 u
	5/8/2018	**1.3**	**5,400**	**3.3**	**20,000**	**990**	**3.9**
	8/30/2018	**1.5**	**9,700**	**2.5**	**39,000**	**21,000**	**1.3**
	11/26/2018	**3.3**	**9,600**	**3.6**	**34,000**	**5,500**	<0.95
	11/26/2018 D	**3.4**	**10,000**	**3.8**	**39,000**	**5,900**	**14 j**
TMW-04	6/29/2017	**3.7 j**	**2,700 j**	**2.9 j**	**8,500 j**	**210**	**2.6**
	9/7/2017	**5.2**	**2,700**	**0.51**	**11,000**	**21,000**	**2.0**
	11/15/2017	**1.9**	**5,000**	<0.50	**18,000**	**240**	<0.99
	2/28/2018	<0.50	**540**	<0.50	**1,500**	2.1 u	2.2 u
	5/10/2018	**1.4**	**2,900**	<1	**9,700**	**110**	<0.95
	8/28/2018	**3.8**	**7,500**	<0.50	**29,000**	**270**	<0.96
	11/27/2018	**3.0**	**7,900**	<0.50	**28,000**	**310**	**57**
TMW-05	6/29/2017	<0.50 uj	**13 j**	<0.50 uj	**57 j**	**97**	**4.2 j**
	6/29/2017 D	<0.50 uj	**15 j**	<0.50 uj	**66 j**	**95**	**1.6 j**
	9/7/2017	<0.50	**0.65**	<0.50	**7.4**	**1,600**	<0.95
	11/15/2017	<0.50	**0.66**	<0.50	**3.6**	**49**	**2.0**
	2/28/2018	<0.50	**7**	<0.50	**35**	**20**	14 u
	5/10/2018	**1.2**	**96**	<1	**450**	**15**	<0.96
	8/28/2018	<0.50	**11**	<0.50	**150**	**11**	**2.8**
	8/28/2018 D	<0.50	**13**	<0.50	**190**	**12**	<0.96
	11/27/2018	<0.50	**250**	<0.50	**1,300**	**28**	<0.95

LEGEND

Bold concentrations are above detection limits

Concentration exceeds NJGWQC

ug/L = micrograms per liter

PQL = Practical Quantitation Limit

D = Duplicate sample

u = TRC's data usability evaluation process has assigned a "u" data qualifier to these results indicating that the DEHP detections are not considered to be representative of site conditions.

j = Estimated value; based on TRC data review

NOTES

(1) New Jersey Department of Environmental Protection Ground Water Quality Criteria (NJGWQC) from NJAC 7:9C GWQC last amended July 22, 2010.

TABLE 5
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Temporary Monitoring Well Groundwater Data - BTEX and DEHP Data

	Analytical Parameters	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)	Dissolved bis-2-Ethylhexyl phthalate (DEHP)
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
	Solubility Limit(1)	1,700,000	152,000	515,000	175,000	334	334
	Practical Quantitation Limit (PQL)(1)	1	2	1	2	3	3
	NJGWQC Class IIA(1)	0.2	700	600	1,000	2	--
	Higher of NJGWQC and PQL(1)	1	700	600	1,000	3	--
TMW-06	6/30/2017	<0.50	**2.7**	<0.50	**8.4**	**180**	**1.6**
	9/5/2017	<0.50	**0.5**	<0.50	**2.1**	**150 j**	**2.3**
	9/5/2017 D	<0.50	<0.50	<0.50	**1.9**	**84 j**	**78**
	11/14/2017	<0.50	<0.50	<0.50	<1.5	**10**	**1.3**
	11/14/2017 D	<0.50	<0.50	<0.50	<1.5	**12**	**1.6**
	2/27/2018	<0.50	<0.50	<0.50	<1.5	**54 j**	**3.9**
	2/27/2018 D	<0.50	<0.50	<0.50	<1.5	**270 j**	1.2 u
	5/9/2018	<1	<1	<1	<3	**12**	<0.96
	8/29/2018	<0.50	<0.50	<0.50	<1.5	**3.0**	<0.97
	11/28/2018	<0.50	<0.50	<0.50	<1.5	**16**	<0.95
TMW-07	6/30/2017	<0.50	**1.2**	<0.50	**4.1**	**10**	<0.95
	9/5/2017	<0.50	<0.50	<0.50	<1.5	**28**	<0.96
	11/14/2017	<0.50	<0.50	<0.50	<1.5	**5**	<0.96
	2/27/2018	<0.50	<0.50	<0.50	<1.5	2.1 u	<0.99
	5/9/2018	<1	<1	<1	<3	**11**	<0.97
	8/28/2018	<0.50	**0.77**	<0.50	**2.4**	**14**	<0.96
	11/28/2018	<0.50	<0.50	<0.50	<1.5	**12**	<0.95
TMW-08	6/30/2017	**3.9**	**7,100**	**79**	**40,000**	**1,600**	**14**
	9/7/2017	**4.3**	**6,300**	**33**	**33,000**	**640**	<0.95
	11/15/2017	**3.1**	**9,100**	**58**	**48,000**	**680**	<1.0
	2/28/2018	<0.50	**1,500**	**5.9**	**7,100**	**150**	<0.99
	5/10/2018	<1	**2,000**	**4.3**	**9,900**	**54**	<0.95
	8/29/2018	<0.50	**1,100**	**1.2**	**4,700**	**300**	<0.96
	11/27/2018	<0.50	**1,700**	**2.0**	**6,100**	**520**	**20**
TMW-09	6/30/2017	<0.50	**760**	<0.50	**3,200**	**400**	**2.0**
	9/7/2017	<0.50	**420**	<0.50	**1,900**	**380**	**1.3**
	11/15/2017	<0.50	**460**	<0.50	**1,600**	**200**	<0.98
	2/28/2018	<0.50	**620**	**1.5**	**2,700**	**130**	1.2 u
	5/9/2018	<1	**430**	<1	**1,400**	**7**	<0.97
	8/29/2018	<0.50	**180**	<0.50	**680**	**13**	**1.2**
	11/30/2018	<0.50	**140**	<0.50	**550**	**14**	<0.95
TMW-10	6/30/2017	<0.50	<0.50	<0.50	<1.5	**14**	**1.7**
	9/5/2017	<0.50	**2.4**	<0.50	**9.9**	**3.2**	<0.95
	11/14/2017	<0.50	<0.50	<0.50	<1.5	**1.2**	**1.9**
	2/27/2018	<0.50	<0.50	<0.50	<1.5	<0.99	<0.95
	5/9/2018	<1	<1	<1	<3	**1.7**	<0.98
	8/29/2018	<0.50	<0.50	**0.59**	<1.5	**2.2**	<0.95
	11/28/2018	<0.50	<0.50	<0.50	<1.5	**3.2**	<0.94

LEGEND

Bold concentrations are above detection limits

Concentration exceeds NJGWQC

ug/L = micrograms per liter

PQL = Practical Quantitation Limit

D = Duplicate sample

u = TRC's data usability evaluation process has assigned a "u" data qualifier to these results indicating that the DEHP detections are not considered to be representative of site conditions.

j = Estimated value; based on TRC data review

NOTES

(1) New Jersey Department of Environmental Protection Ground Water Quality Criteria (NJGWQC) from NJAC 7:9C GWQC last amended July 22, 2010.

TABLE 6
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Ditch Pore Water Monitoring Data - DEHP Monitoring Data

Analytical Parameters		Total bis-2-Ethylhexyl-phthalate (DEHP)	Dissolved bis-2-Ethylhexyl-phthalate (DEHP)
Units		**ug/l**	**ug/l**
Solubility Limit[1]		**334**	**334**
Practical Quantitation Limit (PQL)[1]		**3**	**3**
NJGWQC Class IIA[1]		**2**	**--**
Higher of NJGWQC and PQL[1]		**3**	**--**
NJSWQC [2]		**1.2**	**--**
Applicable Background Concentration (SW-R-6). Concentration at or Below Detection Limti. N.J.A.C. 7:9B-1.5 (d)6iii [1][3]		**0.95**	**--**
PW-D-1	2/17/2017	**1.9**	<1.1
	6/8/2017	**2.8**	<0.24
	9/8/2017	0.49 u	0.63 u
	11/16/2017	**15**	<0.25
	8/29/2018	**0.80**	**0.28 J**
	11/27/2018	2.0 u	0.91 u
PW-D-2	2/17/2017	**1.9**	<1.0
	6/7/2017	**2.1**	<0.48 uj
	9/8/2017	1.8 u	0.83 u
	11/16/2017	**0.46**	**0.097**
	8/29/2018	<0.49	<0.47
	11/28/2018	0.95 u	0.53 u
PW-D-3	2/17/2017	**1.4**	<1.0
	6/8/2017	**0.23**	0.092 u
	6/8/2017 D	**0.2**	0.11 u
	9/8/2017	**60**	1.3 u
	11/16/2017	**0.36**	**0.15**
	8/29/2018	<0.49	0.2 J u
	11/27/2018	0.36 J u	0.45 J u
PW-D-4	2/17/2017	<1.2	<1.0
	6/7/2017	**1.7**	**3.5**
	9/8/2017	**2.3**	2.4 u
	11/16/2017	**5.9**	**0.26**
	8/29/2018	**12**	**0.33 J**
	11/27/2018	0.78 u	0.46 J u

LEGEND

Bold concentrations are above detection limits

Concentration exceeds NJSWQC
Concentration exceeds NJGWQC and NJSWQC

ug/L = micrograms per liter
PQL = Practical Quantitation Limit
D = Duplicate sample
u = TRC's data usability evaluation process has assigned a "u" data qualifier to these results indicating that the DEHP detections are not considered to be representative of site conditions.
j = Estimated value; based on TRC data review
J = Estimated value; concentration above the laboratory Method Detection Limit, but below the Reporting Limit

Notes

[1] New Jersey Department of Environmental Protection Ground Water Quality Criteria (NJGWQC) from NJAC 7:9C GWQC Last amended - July 22, 2010.

[2] New Jersey Department of Environmental Protection Surface Water Quality Criteria (NJSWQC) from NJAC 7:9B. Last Amended - January 18, 2011 (43 N.J.R. 174(b)). Numerical Surface Water Quality Criteria (NJSWQC) re-adopted: October 17, 2016

TABLE 7

Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Rockaway River Pore Water Monitoring Data - DEHP Monitoring Data

Analytical Parameters		Total bis-2-Ethylhexyl-phthalate (DEHP)	Dissolved bis-2-Ethylhexyl-phthalate (DEHP)
Units		**ug/l**	**ug/l**
Solubility Limit[1]		**334**	**334**
Practical Quantitation Limit (PQL)[1]		**3**	**3**
NJGWQC Class IIA[1]		**2**	**--**
Higher of NJGWQC and PQL[1]		**3**	**--**
NJSWQC [2]		**1.2**	**--**
Applicable Background Concentration (SW-R-6). Concentration at or Below Detection Limti. N.J.A.C. 7:9B-1.5 (d)6iii [1][3]		**0.95**	**--**
PW-RR-TF-MC	6/5/2017	**2.2**	0.30 u
	11/15/2017	<0.24	**0.16**
	8/30/2018	<0.48	<0.48
	11/29/2018	NS	NS
PW-RR-TG-LB	6/5/2017	**27,000**	**91**
	11/14/2017	**110**	**0.87**
	8/30/2018	**1700 j**	**170**
	8/30/2018 D	**2500 j**	**170**
	11/29/2018	**2.6**	0.23 J u
PW-RR-TH-LB	6/6/2017	**9,200**	**96**
	11/15/2017	**1.6 j**	0.090 u
	11/15/2017 D	**0.88 j**	**0.3**
	8/30/2018	<0.49	2.0 u
	11/28/2018	**4.3**	<0.48 uj

LEGEND

Bold concentrations are above detection limits

Concentration exceeds NJSWQC
Concentration exceeds NJGWQC and NJSWQC

ug/L = micrograms per liter

PQL = Practical Quantitation Limit

NS = Not Sampled

D = Duplicate sample

u = TRC's data usability evaluation process has assigned a "u" data qualifier to these results indicating that the DEHP detections are not considered to be representative of site conditions.

j = Estimated value; based on TRC data review

J = Estimated value; concentration above the laboratory Method Detection Limit, but below the Reporting Limit

Notes

[1] New Jersey Department of Environmental Protection Ground Water Quality Criteria (NJGWQC) from NJAC 7:9C GWQC Last amended - July 22, 2010.

[2] New Jersey Department of Environmental Protection Surface Water Quality Criteria (NJSWQC) from NJAC 7:9B. Last Amended - January 18, 2011 (43 N.J.R. 174(b)). Numerical Surface Water Quality Criteria (NJSWQC) re-adopted: October 17, 2016

TABLE 7

Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Rockaway River Pore Water Monitoring Data - DEHP Monitoring Data

Analytical Parameters		Total bis-2-Ethylhexyl-phthalate (DEHP)	Dissolved bis-2-Ethylhexyl-phthalate (DEHP)
Units		**ug/l**	**ug/l**
Solubility Limit[1]		**334**	**334**
Practical Quantitation Limit (PQL)[1]		**3**	**3**
NJGWQC Class IIA[1]		**2**	**--**
Higher of NJGWQC and PQL[1]		**3**	**--**
NJSWQC [2]		**1.2**	**--**
Applicable Background Concentration (SW-R-6). Concentration at or Below Detection Limti. N.J.A.C. 7:9B-1.5 (d)6iii [1][3]		**0.95**	**--**
PW-RR-TH-RMC	6/5/2017	**3.2**	1.3 u
	11/15/2017	**0.17**	<0.25
	8/30/2018	<0.48	<0.48
	11/29/2018	0.23 J u	0.50 u
PW-RR-TI-LB-30	6/6/2017	<0.24	0.71 u
	11/15/2017	1.4 u	0.60 u
	8/29/2018	<0.50	0.32 J u
	11/28/2018	0.36 J u	0.63 u
PW-RR-TJ-LB	6/6/2017	0.090 u	0.18 u
	11/15/2017	0.31 u	0.14 u
	8/29/2018	<0.48	<0.49
	11/28/2018	0.48 u	<0.48
PW-RR-TJ-MC	6/6/2017	0.46 u	1.1 u
	11/15/2017	0.24 u	0.47 u
	8/29/2018	**0.28 J**	<0.49
	11/28/2018	<0.48	0.72 u
	11/28/2018 [D]	0.28 J u	0.96 u

LEGEND

Bold concentrations are above detection limits

Concentration exceeds NJSWQC
Concentration exceeds NJGWQC and NJSWQC

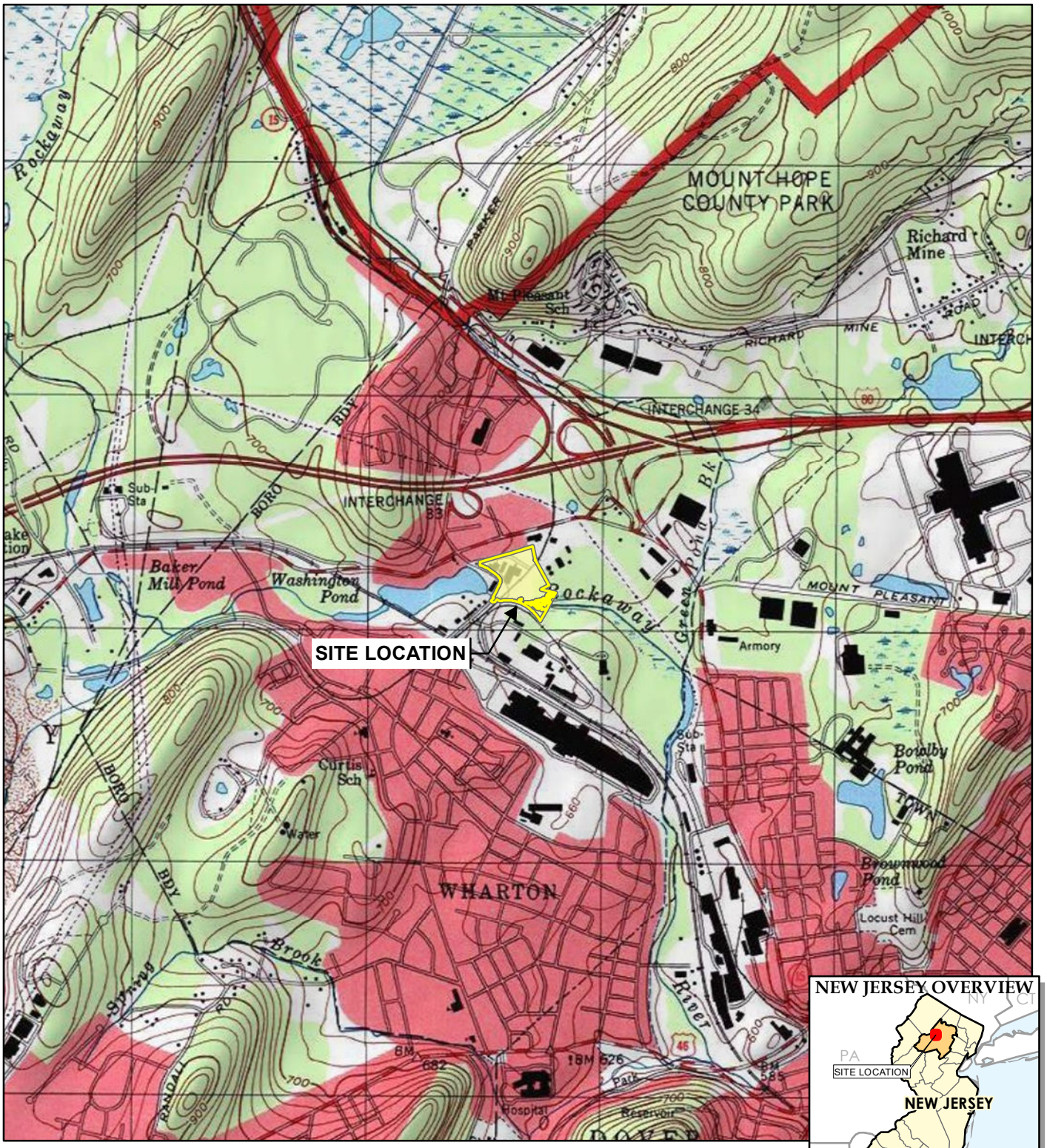
ug/L = micrograms per liter
PQL = Practical Quantitation Limit
NS = Not Sampled
D = Duplicate sample
u = TRC's data usability evaluation process has assigned a "u" data qualifier to these results indicating that the DEHP detections are not considered to be representative of site conditions.
j = Estimated value; based on TRC data review
J = Estimated value; concentration above the laboratory Method Detection Limit, but below the Reporting Limit

Notes

[1] New Jersey Department of Environmental Protection Ground Water Quality Criteria (NJGWQC) from NJAC 7:9C GWQC
Last amended - July 22, 2010.

[2] New Jersey Department of Environmental Protection Surface Water Quality Criteria (NJSWQC) from NJAC 7:9B.
Last Amended - January 18, 2011 (43 N.J.R. 174(b)). Numerical Surface Water Quality Criteria (NJSWQC) re-adopted: October 17, 2016

Figures



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.

N

1 " = 2,000 '
1:24,000

0 2,000 4,000 FEET

TRC

660 Cascade West Parkway SE
Suite 105
Grand Rapids, MI 49546
Phone: 616.975.5415

TRC - GIS

PROJECT:

DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY

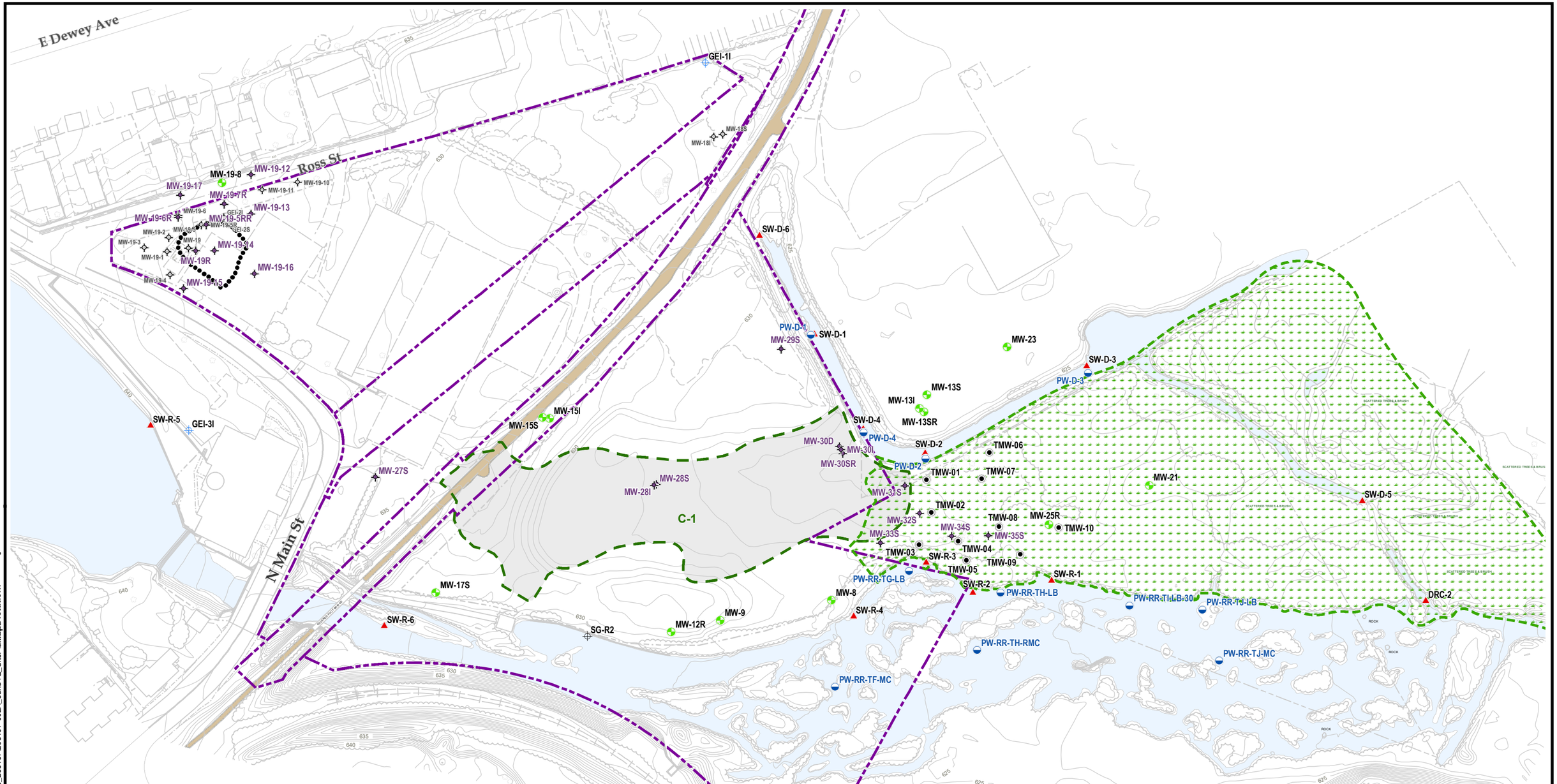
TITLE:

SITE LOCATION MAP

DRAWN BY:	A. REIS
CHECKED BY:	B. CULP
APPROVED BY:	K. SAUCIER
DATE:	JANUARY 2019
PROJ. NO.:	293107.0000
FILE:	293107-001slm.mxd

FIGURE 1

S:\1-PROJECTS\LE_CarpenterCo\WhartonNJ\2018_293107\293107-001slm.mxd -- Saved By: SMAJOR on 1/15/2019, 12:07:19 PM



LEGEND

- MW-19-1 — ABANDONED MONITORING WELL
- MW-25R — GROUNDWATER ELEVATION MONITORING WELL
- MW-29S — PRMP MONITORING WELL
- SW-R-1 — SURFACE WATER SAMPLE
- SG-R2 — RIVER POINT SURFACE WATER ELEVATION
- GEI-2I — PIEZOMETER
- TMW-01 — TEMPORARY WELL
- PW-D-1 — PORE WATER SAMPLE
- FENCE LINE
- POST-REMEDIATION GROUND SURFACE ELEVATIONS
- APPROXIMATE PROPERTY LINE
- OFF-SITE PROPERTY LINE
- OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH
- LIMIT OF 2010 SOIL EXCAVATION TO DEPTH OF WATER TABLE (~ 10 FEET)
- WETLAND

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
2. FORMER BUILDING OPERATIONS
   - BUILDING 8: LAMINATION
   - BUILDING 15 AND 17: INSPECTION, STORAGE, AND DISTRIBUTION
   - BUILDING 16: OFFICES
3. MW-19 HOT SPOT ONE WELL ABANDONMENTS OCCURRED ON OCTOBER 13 – 15, 2009.
4. MW-30 AREA MONITORING WELLS WERE RE-SURVEYED IN 2011 DURING SURVEY OF INVESTIGATIONSOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.
5. TEMPORARY WELLS INSTALLED DURING THE 2ND QUARTER 2017.
6. MW-19-5R ABANDONED ON APRIL 2, 2018 AND REPLACED WITH MW-19-5RR.
7. MW-19-5RR LOCATION APPROXIMATE.

N

0 120 240 Feet

1 " = 120 '

1:1,440

PROJECT:

DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY

TITLE:

SITE PLAN WITH SAMPLING LOCATIONS 3RD AND 4TH QUARTERS 2018

DRAWN BY:	A. REIS	PROJ. NO.:	293107.0000
CHECKED BY:	B. CULP		
APPROVED BY:	K. SAUCIER		**FIGURE 2**
DATE:	JANUARY 2019		

TRC
660 Cascade West Parkway SE, Suite 105
Grand Rapids, MI 49546
Phone: 616.975.5415
www.trcsolutions.com

FILE NO.: 293107-002A_3and4Q_SitePlan.mxd

TRC - GIS
Plot Date: 1/18/2019, 09:16:15 AM by SMAJOR – LAYOUT: ANSI B(11"x17")
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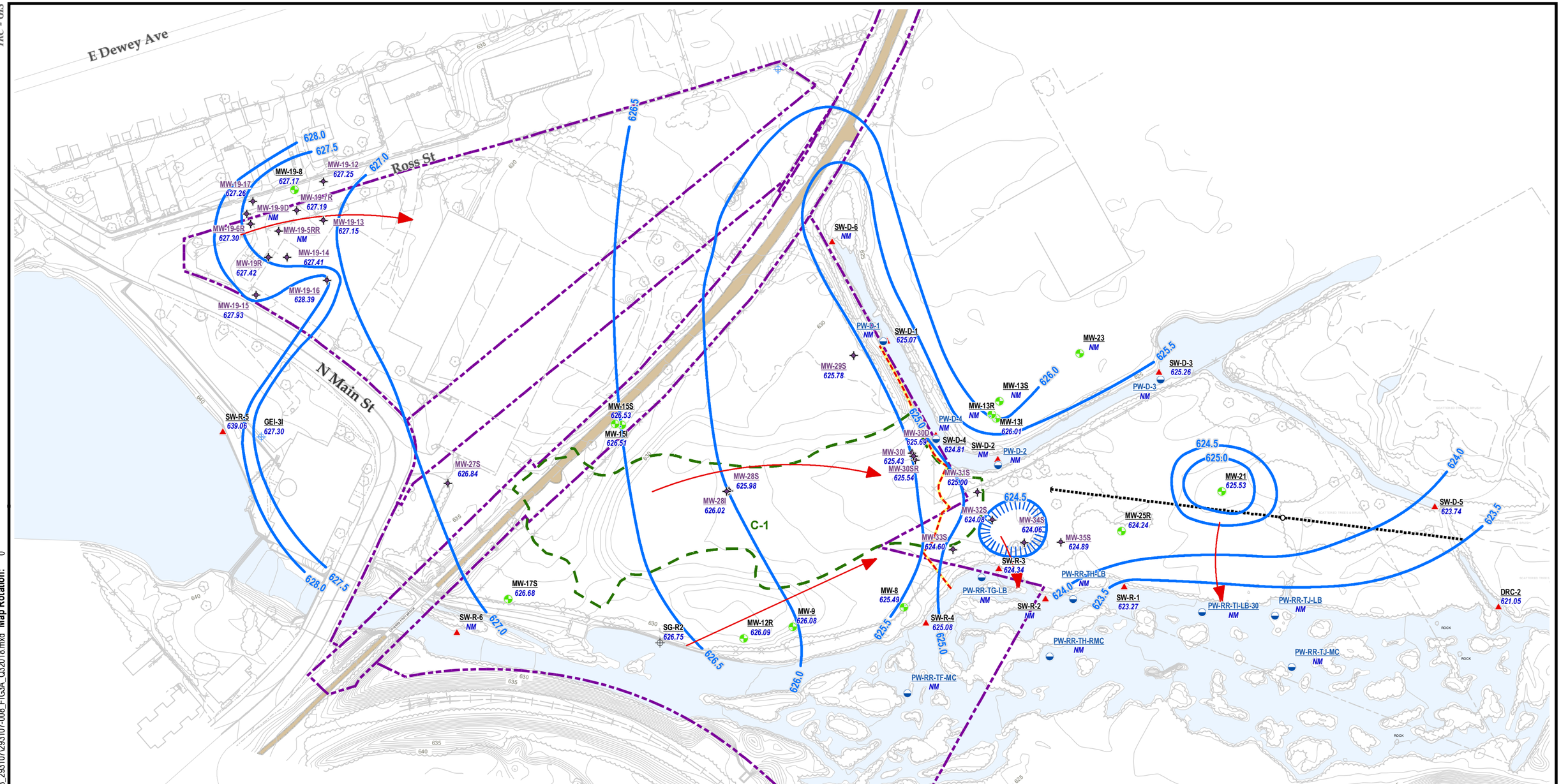
Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet (Foot US)
Map Rotation: 0



LEGEND

- MW-25R — GROUNDWATER ELEVATION MONITORING WELL
- MW-29S — PRMP MONITORING WELL
- SW-R-1 — SURFACE WATER SAMPLE
- SG-R2 — RIVER POINT SURFACE WATER ELEVATION
- GEI-2I — PIEZOMETER
- PW-D-1 — PORE WATER SAMPLE
- TREES
- WESTERN BOUNDARY OF REGULATED WETLAND
- ROCKAWAY VALLEY SANITARY SEWER
- FENCE LINE
- POST-REMEDIATION GROUND SURFACE ELEVATIONS
- APPROXIMATE PROPERTY LINE
- OFF-SITE PROPERTY LINE
- GROUNDWATER ELEVATION CONTOURS
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- 625.88 — GROUNDWATER ELEVATION
- NM — NOT MEASURED
- OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
2. FORMER BUILDING OPERATIONS
   - BUILDING 8: LAMINATION
   - BUILDING 15 AND 17: INSPECTION, STORAGE, AND DISTRIBUTION
   - BUILDING 16: OFFICES
3. AS DESCRIBED IN THE NOVEMBER 2005 RAR (SEE FIGURE 9 IN THAT REPORT), THE SLURRY MONOLITH AT AND PARALLEL TO THE DRAINAGE CHANNEL DITCH ENDS APPROXIMATELY 10 FEET WEST OF THE ACTUAL WATERS EDGE.
4. MW-30 AREA MONITORING WELLS WERE RE-SURVEYED IN 2011 DURING SURVEY OF INVESTIGATION SOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.
5. SURFACE WATER GAUGES SW-02 AND SW-03 APPEAR TO HAVE BEEN MOVED, POSSIBLY DUE TO WINTER FREEZE-THAW EVENT, AND WILL NEED TO BE RE-SURVEYED.
6. MW-19-5R ABANDONED ON APRIL 2, 2018 AND REPLACED WITH MW-19-5RR.

N

0 120 240 Feet

1 " = 120 '

1:1,440

PROJECT:

DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY

TITLE:

SITE-WIDE SHALLOW AQUIFER GROUNDWATER CONTOUR MAP 3RD QUARTER 2018

DRAWN BY:	A. REIS	PROJ. NO.:	293107.0000
CHECKED BY:	S. PAWLUKIEWICZ		
APPROVED BY:	B. CULP		**FIGURE 3A**
DATE:	JANUARY 2019		

TRC

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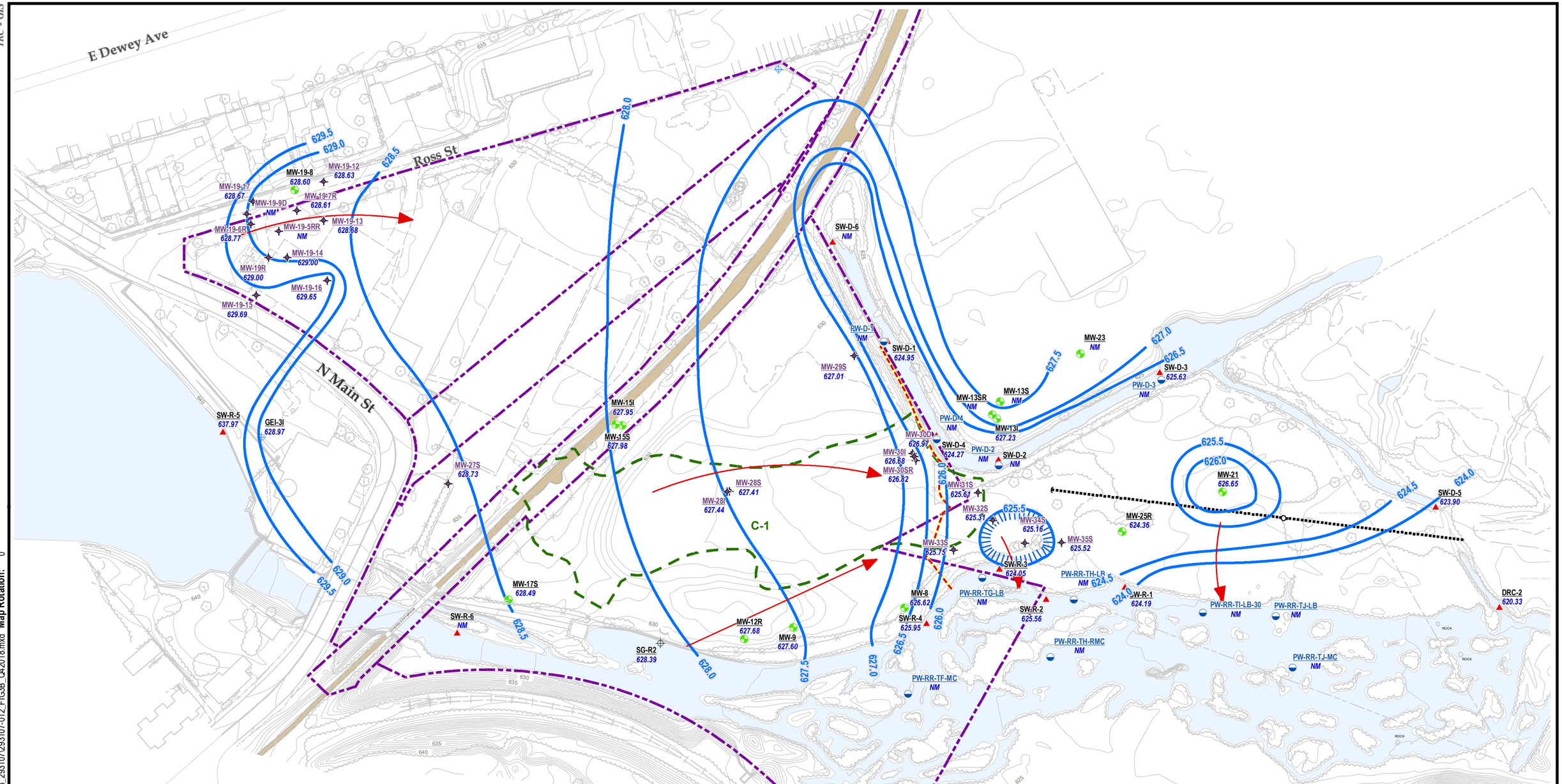
FILE NO.: 293107-008_FIG3A_Q32018.mxd

Plot Date: 1/30/2019, 15:12:54 PM by SMAJOR -- LAYOUT: ANSI B (11"x17")
Path: S:\1-PROJECTS\LE_Carpenter Co\Wharton NJ\2018_293107\293107-008_FIG3A_Q32018.mxd
Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet (Foot US)
Map Rotation: 0

TRC - GIS



LEGEND

- MW-25R — GROUNDWATER ELEVATION MONITORING WELL
- MW-29S — PRMP MONITORING WELL
- SW-R-1 — SURFACE WATER SAMPLE
- SG-R2 — RIVER POINT SURFACE WATER ELEVATION
- GEI-2I — PIEZOMETER
- PW-D-1 — PORE WATER SAMPLE
- TREES
- WESTERN BOUNDARY OF REGULATED WETLAND
- ROCKAWAY VALLEY SANITARY SEWER
- FENCE LINE
- POST-REMEDIATION GROUND SURFACE ELEVATIONS
- APPROXIMATE PROPERTY LINE
- OFF-SITE PROPERTY LINE
- GROUNDWATER ELEVATION CONTOURS
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- 625.88 — GROUNDWATER ELEVATION
- NM — NOT MEASURED
- OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
2. FORMER BUILDING OPERATIONS
   - BUILDING 8: LAMINATION
   - BUILDING 15 AND 17: INSPECTION, STORAGE, AND DISTRIBUTION
   - BUILDING 16: OFFICES
3. AS DESCRIBED IN THE NOVEMBER 2005 RAR (SEE FIGURE 9 IN THAT REPORT), THE SLURRY MONOLITH AT AND PARALLEL TO THE DRAINAGE CHANNEL DITCH ENDS APPROXIMATELY 10 FEET WEST OF THE ACTUAL WATERS EDGE.
4. MW-30 AREA MONITORING WELLS WERE RE-SURVEYED IN 2011 DURING SURVEY OF INVESTIGATION SOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.
5. SURFACE WATER GAUGES SW-02 AND SW-03 APPEAR TO HAVE BEEN MOVED, POSSIBLY DUE TO WINTER FREEZE-THAW EVENT, AND WILL NEED TO BE RE-SURVEYED.
6. MW-19-5R ABANDONED ON APRIL 2, 2018 AND REPLACED WITH MW-19-5RR.

N

0 120 240 Feet

1 " = 120 '

1:1,440

PROJECT:

DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY

TITLE:

SITE-WIDE SHALLOW AQUIFER GROUNDWATER CONTOUR MAP 4TH QUARTER 2018

DRAWN BY:	A. REIS	PROJ. NO.:	293107.0000
CHECKED BY:	S. PAWLUKIEWICZ		
APPROVED BY:	B. CULP		**FIGURE 3B**
DATE:	JANUARY 2019		

TRC

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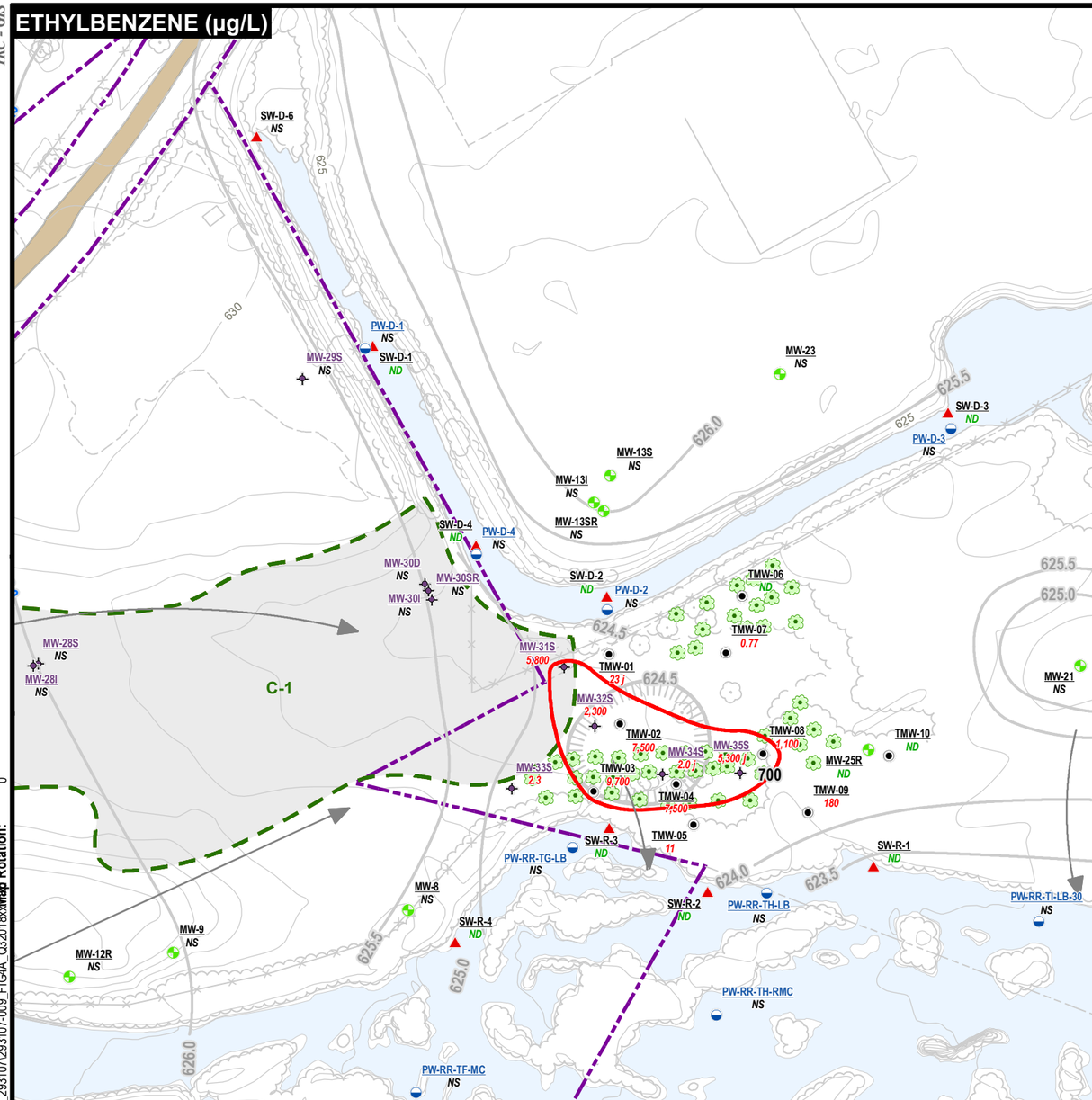
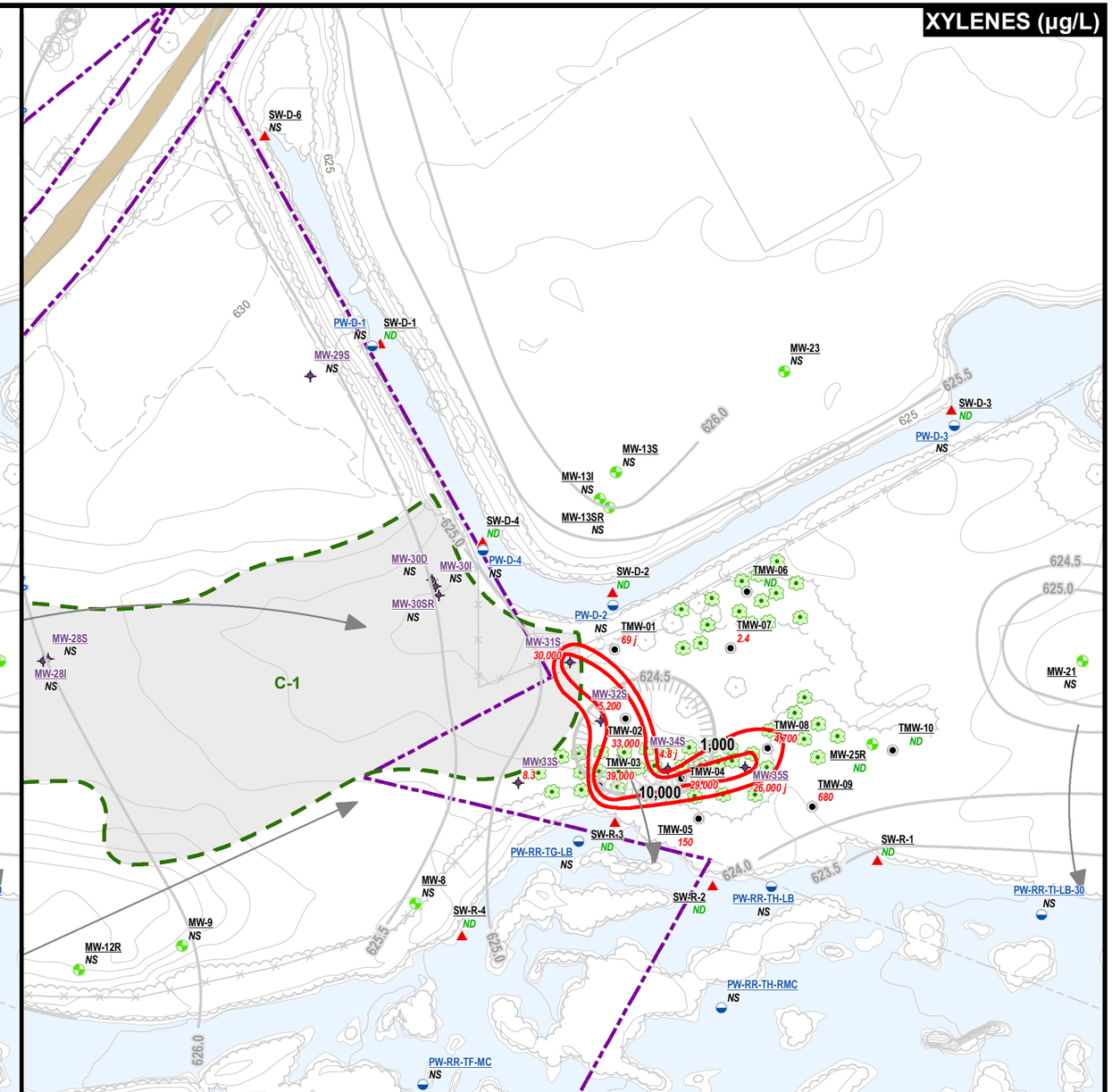
FILE NO.: 293107-012_FIG3B_Q42018.mxd

Plot Date: 1/30/2019, 15:35:20 PM by SMAJOR -- LAYOUT: ANSI B(11"x17")
Path: S:\1-PROJECTS\LE_Carpenter\Co\Wharton\NJ\2018_293107\293107-012_FIG3B_Q42018.mxd
Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet (Foot US)
Map Rotation: 0

TRC - GIS





LEGEND

- MW-25R — GROUNDWATER ELEVATION MONITORING WELL
- MW-29S — PRMP MONITORING WELL
- SW-R-1 — SURFACE WATER SAMPLE
- TMW-01 — TEMPORARY WELL
- PW-D-1 — PORE WATER SAMPLE
- PHYTOREMEDIATION TREE LOCATION
- TREES
- OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH
- GROUNDWATER ELEVATION CONTOURS
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- FENCE LINE
- POST-REMEDIATION GROUND SURFACE ELEVATIONS
- APPROXIMATE PROPERTY LINE
- OFF-SITE PROPERTY LINE
- ISOCONCENTRATION CONTOURS (µG/L)
- 540 — INDIVIDUAL CONSTITUENT CONCENTRATION (µg/L)
- ND — NOT DETECTED
- NS — NOT SAMPLED

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
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3. MW-30 AREA MONITORING WELLS WERE RE-SURVEYED IN 2011 DURING SURVEY OF INVESTIGATION SOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.
4. TEMPORARY WELLS INSTALLED DURING THE 2 ND QUARTER 2017.

N

0 80 160 Feet

1 " = 80 '

1:960

PROJECT: DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY

TITLE: ETHYLBENZENE AND TOTAL XYLENES ISOCONCENTRATION CONTOURS (µg/L) FOR THE MW-30 AREA 3RD QUARTER 2018

DRAWN BY:	S. MAJOR	PROJ. NO.:	293107.0000
CHECKED BY:	S. PAWLUKIEWICZ		
APPROVED BY:	B. CULP		FIGURE 4A
DATE:	JANUARY 2019		

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FILE NO.: 293107-009_FIG4A_Q32018xx.mxd

TRC - GIS
Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet (Foot US)
Map Rotation: 0
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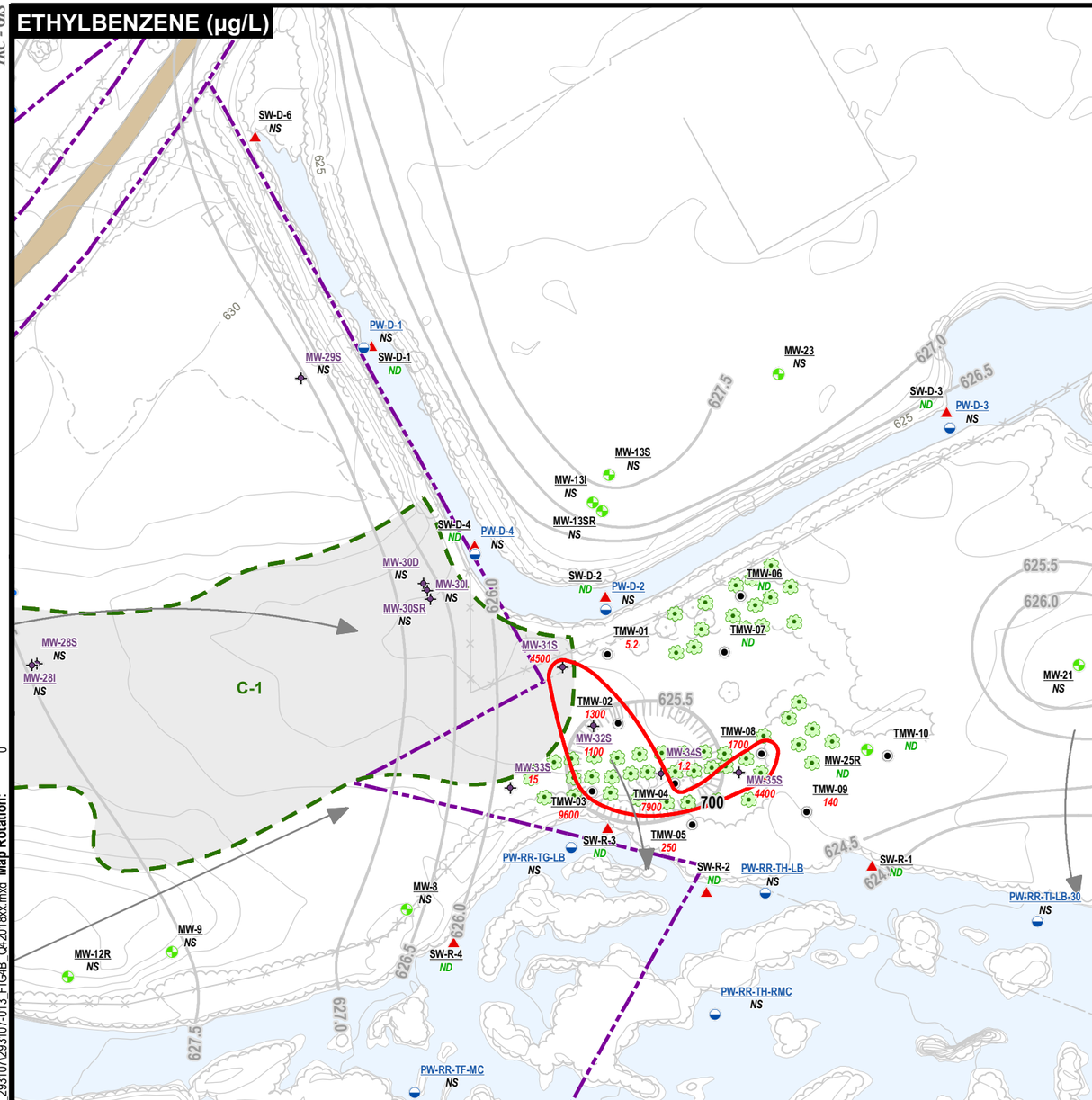

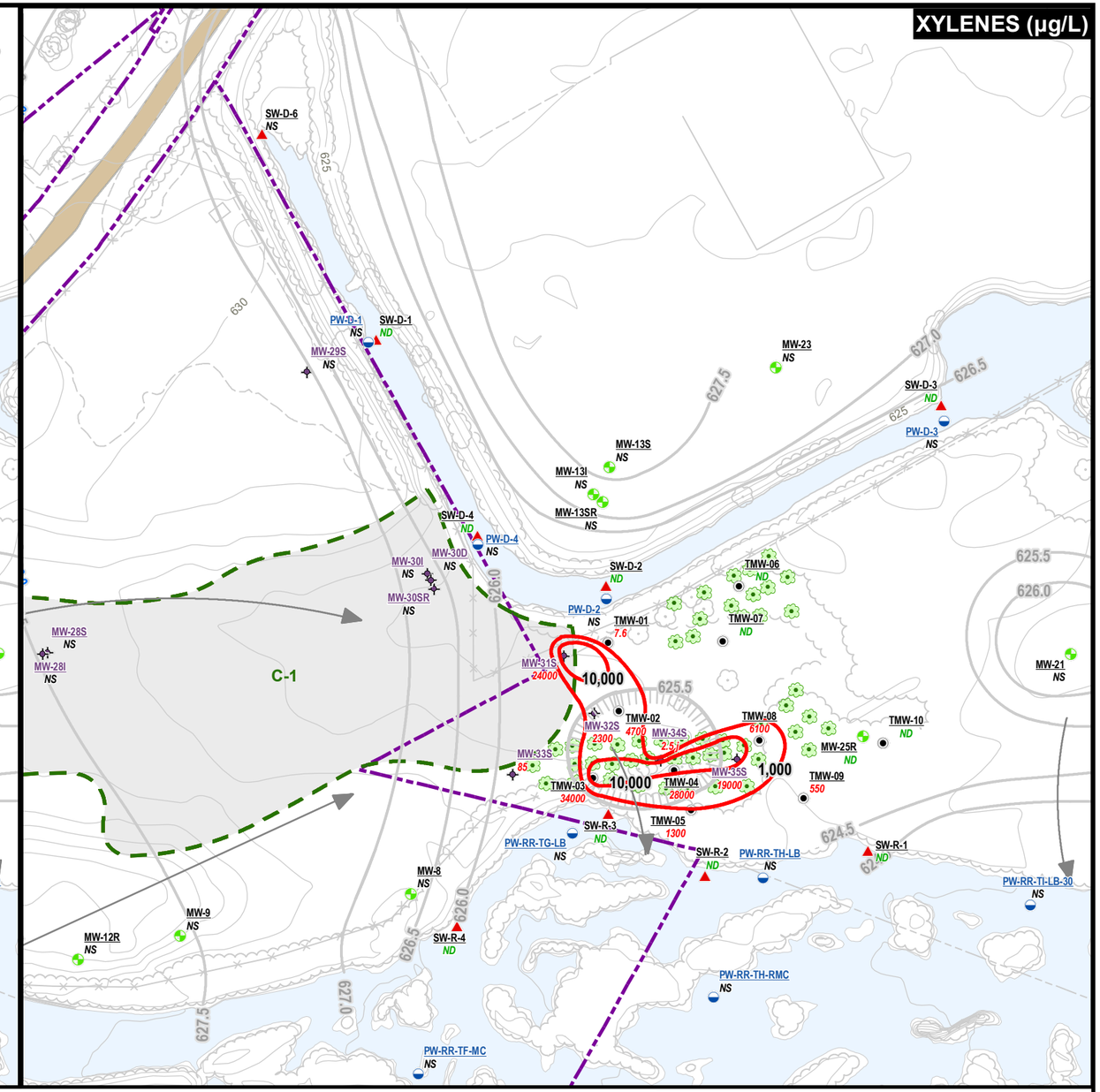

LEGEND

- MW-25R — GROUNDWATER ELEVATION MONITORING WELL
- MW-29S — PRMP MONITORING WELL
- SW-R-1 — SURFACE WATER SAMPLE
- TMW-01 — TEMPORARY WELL
- PW-D-1 — PORE WATER SAMPLE
- PHYTOREMEDIATION TREE LOCATION
- TREES
- OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH
- GROUNDWATER ELEVATION CONTOURS
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- FENCE LINE
- POST-REMEDIATION GROUND SURFACE ELEVATIONS
- APPROXIMATE PROPERTY LINE
- OFF-SITE PROPERTY LINE
- ISOCONCENTRATION CONTOURS (µG/L)
- 540 — INDIVIDUAL CONSTITUENT CONCENTRATION (µg/L)
- ND — NOT DETECTED
- NS — NOT SAMPLED

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
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3. MW-30 AREA MONITORING WELLS WERE RE-SURVEYED IN 2011 DURING SURVEY OF INVESTIGATION SOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.
4. TEMPORARY WELLS INSTALLED DURING THE 2ND QUARTER 2017.

N

0 80 160 Feet

1 " = 80 '
1:960

PROJECT:
DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY

TITLE:
ETHYLBENZENE AND TOTAL XYLENES ISOCONCENTRATION CONTOURS (µg/L) FOR THE MW-30 AREA 4TH QUARTER 2018

DRAWN BY:	S. MAJOR	PROJ. NO.:	293107.0000
CHECKED BY:	S. PAWLUKIEWICZ		
APPROVED BY:	B. CULP		**FIGURE 4B**
DATE:	JANUARY 2019		

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FILE NO.: 293107-013_FIG4B_Q42018xx.mxd

TRC - GIS
Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet (Foot US)
Map Rotation: 0
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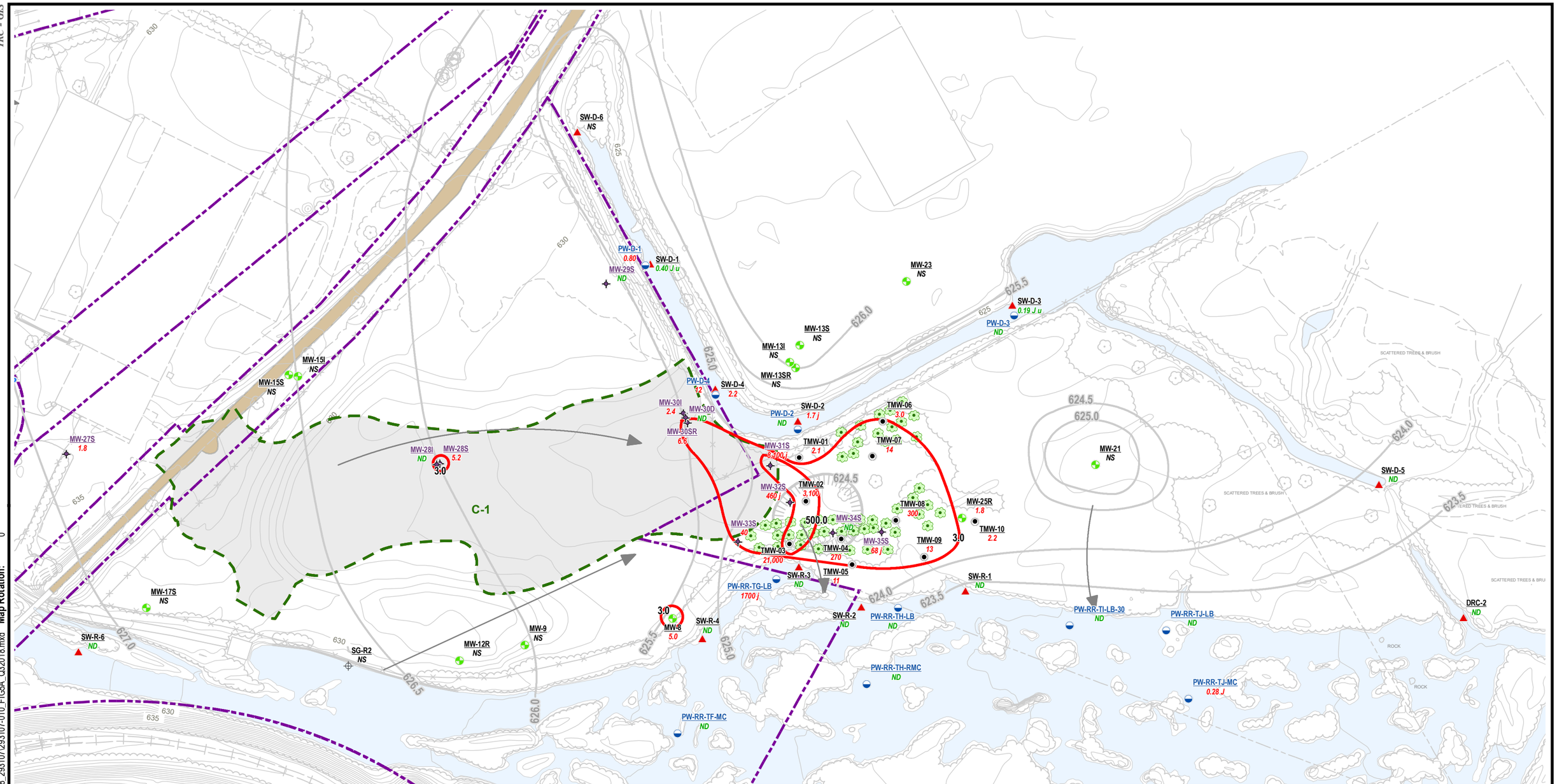

LEGEND

MW-25R		GROUNDWATER ELEVATION MONITORING WELL
MW-29S		PRMP MONITORING WELL
SW-R-1		SURFACE WATER SAMPLE
SG-R2		RIVER POINT SURFACE WATER ELEVATION
GEI-2I		PIEZOMETER
TMW-01		TEMPORARY WELL
PW-D-1		PORE WATER SAMPLE
		PHYTOREMEDIATION TREE LOCATION
		TREES
		OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH
		GROUNDWATER ELEVATION CONTOURS
		APPROXIMATE GROUNDWATER FLOW DIRECTION
		FENCE LINE
		POST-REMEDIATION GROUND SURFACE ELEVATIONS
		APPROXIMATE PROPERTY LINE
		OFF-SITE PROPERTY LINE
		ISOCONCENTRATION CONTOUR (µg/L)
780		INDIVIDUAL CONSTITUENT CONCENTRATION (µg/L)
ND		NOT DETECTED
NS		NOT SAMPLED

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793 -03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
2. AS DESCRIBED IN THE NOVEMBER 2005 RAR (SEE FIGURE 9 IN THAT REPORT), THE SLURRY MONOLITH AT AND PARALLEL TO THE DRAINAGE CHANNEL DITCH ENDS APPROXIMATELY 10 FEET WEST OF THE ACTUAL WATERS EDGE.
3. MW-30 AREA MONITORING WELLS WERE RE -SURVEYED IN 2011 DURING SURVEY OF INVESTIGATION SOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.
4. TEMPORARY WELLS INSTALLED DURING THE 2ND QUARTER 2017.

N

0 90 180 Feet

1 " = 90 '
1:1,080

PROJECT:
DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY

TITLE:
TOTAL DEHP ISOCONCENTRATION CONTOURS (µg/L) FOR THE MW-30 AREA 3RD QUARTER 2018

DRAWN BY:	S. MAJOR	PROJ. NO.:	293107.0000
CHECKED BY:	S. PAWLUKIEWICZ		
APPROVED BY:	B. CULP		**FIGURE 5A**
DATE:	JANUARY 2019		

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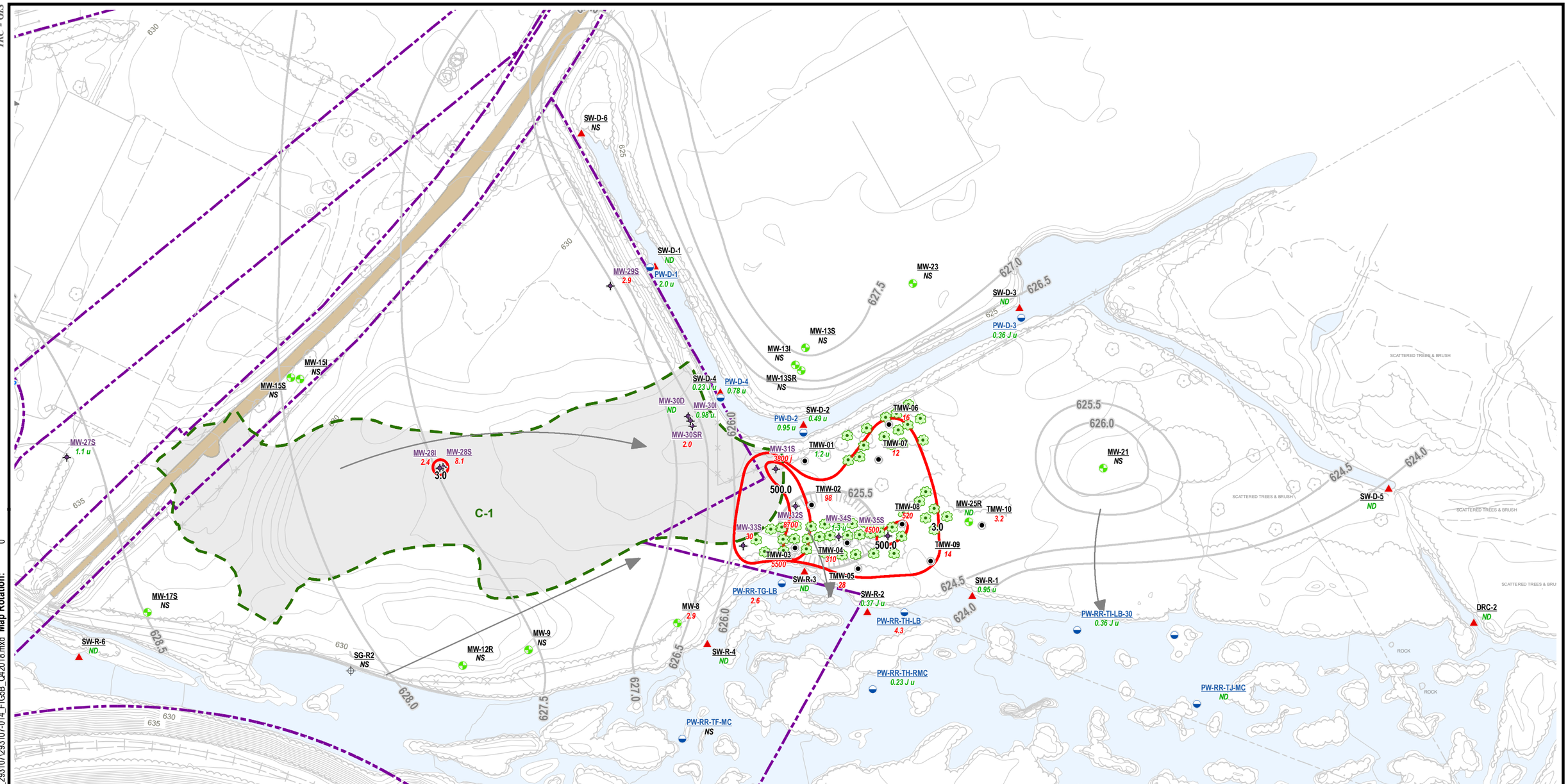
FILE NO.: 293107-010_FIG5A_Q32018.mxd

Plot Date: 1/30/2019, 15:20:45 PM by SMAJOR -- LAYOUT: ANSI B(11"x17")
Path: S:\1-PROJECTS\LE_CarpenterCo\WhartonNJ\2018_2931\07\293107-010_FIG5A_Q32018.mxd
Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet (Foot US)
Map Rotation: 0

TRC - GIS



LEGEND

MW-25R	GROUNDWATER ELEVATION MONITORING WELL
MW-29S	PRMP MONITORING WELL
SW-R-1	SURFACE WATER SAMPLE
SG-R2	RIVER POINT SURFACE WATER ELEVATION
GEI-2I	PIEZOMETER
TMW-01	TEMPORARY WELL
PW-D-1	PORE WATER SAMPLE
	PHYTOREMEDIATION TREE LOCATION
	TREES
	OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH
	GROUNDWATER ELEVATION CONTOURS
	APPROXIMATE GROUNDWATER FLOW DIRECTION
	FENCE LINE
	POST-REMEDIATION GROUND SURFACE ELEVATIONS
	APPROXIMATE PROPERTY LINE
	OFF-SITE PROPERTY LINE
	ISOCONCENTRATION CONTOUR (µg/L)
780	INDIVIDUAL CONSTITUENT CONCENTRATION (µg/L)
ND	NOT DETECTED
NS	NOT SAMPLED

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793 -03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
2. AS DESCRIBED IN THE NOVEMBER 2005 RAR (SEE FIGURE 9 IN THAT REPORT), THE SLURRY MONOLITH AT AND PARALLEL TO THE DRAINAGE CHANNEL DITCH ENDS APPROXIMATELY 10 FEET WEST OF THE ACTUAL WATERS EDGE.
3. MW-30 AREA MONITORING WELLS WERE RE -SURVEYED IN 2011 DURING SURVEY OF INVESTIGATION SOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.
4. TEMPORARY WELLS INSTALLED DURING THE 2ND QUARTER 2017.

N

0 90 180 Feet

1 " = 90 '
1:1,080

PROJECT:
DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY

TITLE:
TOTAL DEHP ISOCONCENTRATION CONTOURS (µg/L) FOR THE MW-30 AREA 4TH QUARTER 2018

DRAWN BY:	S. MAJOR	PROJ. NO.:	293107.0000
CHECKED BY:	S. PAWLUKIEWICZ		
APPROVED BY:	B. CULP		**FIGURE 5B**
DATE:	JANUARY 2019		

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FILE NO.: 293107-014_FIG5B_Q42018.mxd

Plot Date: 1/30/2019, 15:48:23 PM by SMAJOR -- LAYOUT: ANSI B(11"x17")
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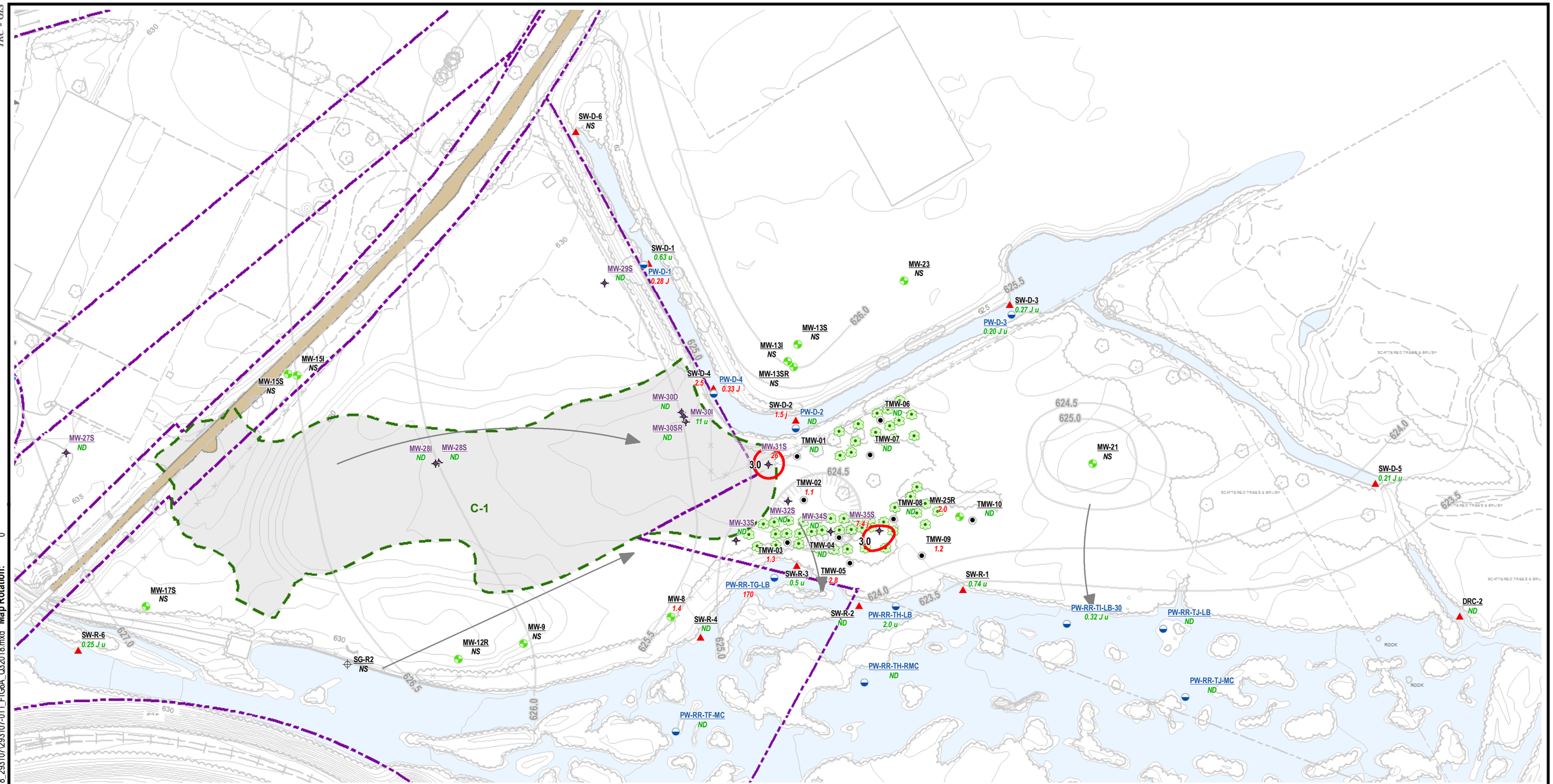
Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet (Foot US)
Map Rotation: 0

TRC - GIS



LEGEND

MW-25R	GROUNDWATER ELEVATION MONITORING WELL		GROUNDWATER ELEVATION CONTOURS
MW-29S	PRMP MONITORING WELL		APPROXIMATE GROUNDWATER FLOW DIRECTION
SW-R-1	SURFACE WATER SAMPLE		FENCE LINE
SG-R2	RIVER POINT SURFACE WATER ELEVATION		POST-REMEDIATION GROUND SURFACE ELEVATIONS
GEI-2I	PIEZOMETER		APPROXIMATE PROPERTY LINE
TMW-01	TEMPORARY WELL		OFF-SITE PROPERTY LINE
PW-D-1	PORE WATER SAMPLE		ISOCONCENTRATION CONTOUR (µg/L)
	PHYTOREMEDIATION TREE LOCATION	780	INDIVIDUAL CONSTITUENT CONCENTRATION (µg/L)
	TREES	ND	NOT DETECTED
	OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH	NS	NOT SAMPLED

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
2. AS DESCRIBED IN THE NOVEMBER 2005 RAR (SEE FIGURE 9 IN THAT REPORT), THE SLURRY MONOLITH AT AND PARALLEL TO THE DRAINAGE CHANNEL DITCH ENDS APPROXIMATELY 10 FEET WEST OF THE ACTUAL WATERS EDGE.
3. MW-30 AREA MONITORING WELLS WERE RE-SURVEYED IN 2011 DURING SURVEY OF INVESTIGATION SOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.
4. TEMPORARY WELLS INSTALLED DURING THE 2ND QUARTER 2017.

N

0 90 180 Feet

1 " = 90 '

1:1,080

PROJECT:

DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY

TITLE:

DISSOLVED DEHP ISOCONCENTRATION CONTOURS (µg/L) FOR THE MW-30 AREA 3RD QUARTER 2018

DRAWN BY:	S. MAJOR	PROJ. NO.:	293107.0000
CHECKED BY:	S. PAWLUKIEWICZ		
APPROVED BY:	B. CULP		**FIGURE 6A**
DATE:	JANUARY 2019		

TRC

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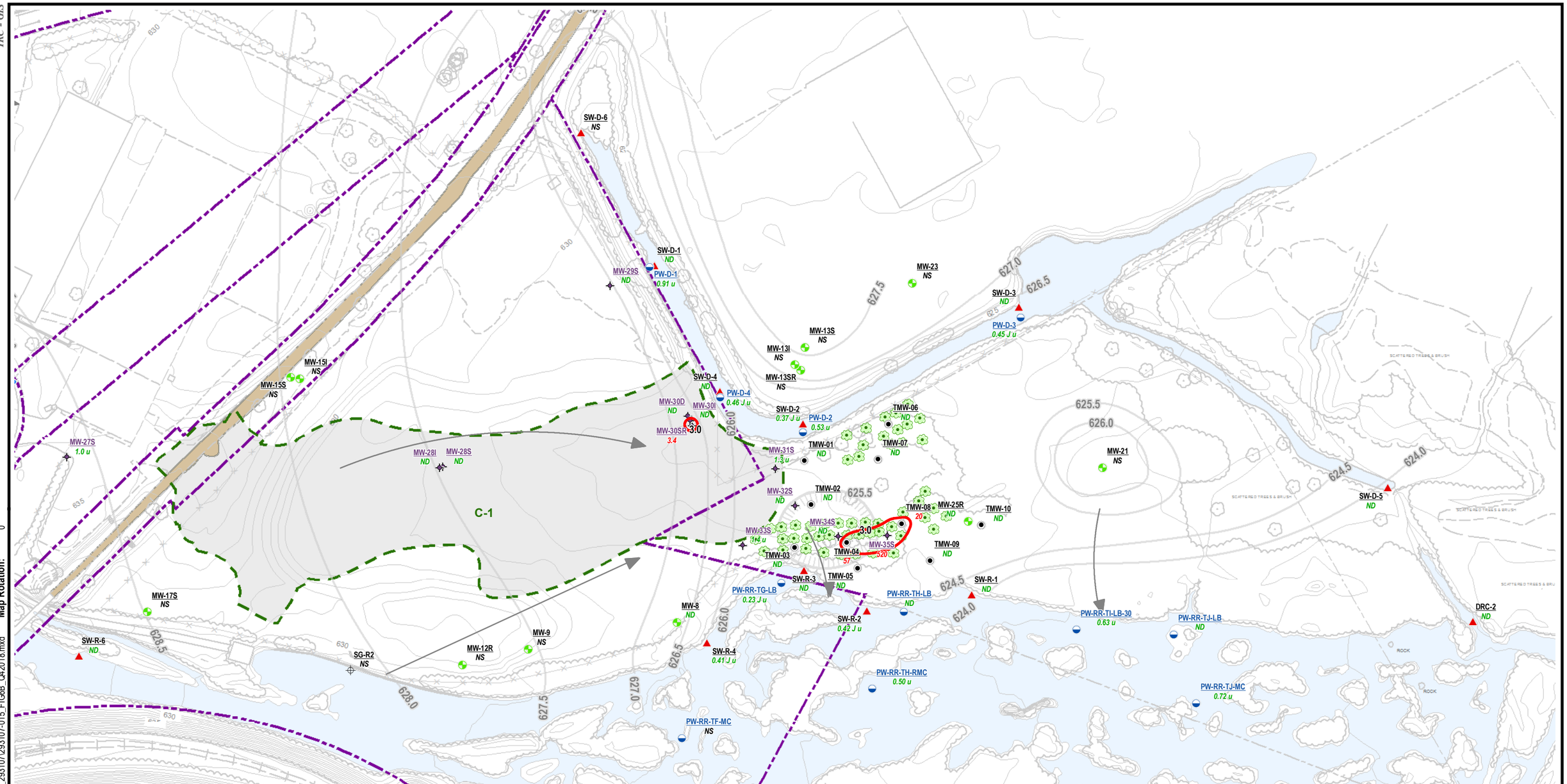
FILE NO.: 293107-011_FIG6A_Q32018.mxd

Plot Date: 1/30/2019, 15:27:08 PM by SMAJOR -- LAYOUT: ANSI B(11"x17")
Path: S:\1-PROJECTS\LE_Carpenter\CoWharton\NJ\2018_2931\07\293107-011_FIG6A_Q32018.mxd
Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet (Foot US)
Map Rotation: 0

TRC - GIS



LEGEND

MW-25R	GROUNDWATER ELEVATION MONITORING WELL		GROUNDWATER ELEVATION CONTOURS
MW-29S	PRMP MONITORING WELL		APPROXIMATE GROUNDWATER FLOW DIRECTION
SW-R-1	SURFACE WATER SAMPLE		FENCE LINE
GEI-2I	PIEZOMETER		POST-REMEDIATION GROUND SURFACE ELEVATIONS
TMW-01	TEMPORARY WELL		APPROXIMATE PROPERTY LINE
PW-D-1	PORE WATER SAMPLE		OFF-SITE PROPERTY LINE
	PHYTOREMEDIATION TREE LOCATION		ISOCONCENTRATION CONTOUR (µg/L)
	TREES	780	INDIVIDUAL CONSTITUENT CONCENTRATION (µg/L)
	OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH	ND	NOT DETECTED
		NS	NOT SAMPLED

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
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3. MW-30 AREA MONITORING WELLS WERE RE-SURVEYED IN 2011 DURING SURVEY OF INVESTIGATION SOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.
4. TEMPORARY WELLS INSTALLED DURING THE 2ND QUARTER 2017.

N

0 90 180 Feet

1 " = 90 '

1:1,080

PROJECT:

DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY

TITLE: **DISSOLVED DEHP ISOCONCENTRATION CONTOURS (µg/L) FOR THE MW-30 AREA 4th QUARTER 2018**

DRAWN BY:	S. MAJOR	PROJ. NO.:	293107.0000
CHECKED BY:	S. PAWLUKIEWICZ		
APPROVED BY:	B. CULP		**FIGURE 6B**
DATE:	JANUARY 2019		

TRC
660 Cascade West Parkway SE, Suite 105
Grand Rapids, MI 49546
Phone: 616.975.5415
www.trcsolutions.com

FILE NO.: 293107-015_FIG6B_Q42018.mxd

Plot Date: 1/30/2019, 15:44:19 PM by SMAJOR -- LAYOUT: ANSI B (11"x17")
Path: S:\1-PROJECTS\LE_CarpenterCo\WhartonNJ\2018_293107\293107-015_FIG6B_Q42018.mxd
Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet (Foot US)
Map Rotation: 0

TRC - GIS

Appendix A
Field Data Forms

TRC

PROJECT NAME: LE Carpenter & Co.

PROJECT NUMBER: 293107.0000.0000

PROJECT MANAGER: B. Culp

SITE LOCATION: 170 N. Main Street
Wharton, NJ 07885

DATES OF FIELDWORK: 8/27/2018 TO 8/31/2018

PURPOSE OF FIELDWORK: Q3 2018 Site Monitoring Event

WORK PERFORMED BY: D. Zielke, J. Crapella, E. O'Connor, J. Lenik

SIGNED — DATE 9/12/18

CHECKED BY — DATE 9/12/18

REVISED 06/2011

TRC

GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: 8/27/18	TIME ARRIVED: 0715
PROJECT NUMBER: 293107.0000.0000	AUTHOR: DZ, JC, EO, JML	TIME LEFT: 1800

WEATHER

TEMPERATURE: 88 °F WIND: 5 MPH VISIBILITY: Clear

WORK / SAMPLING PERFORMED

- Sitewide Synoptic completed
- all Surface water points sampled
- MW34S, MW35S, TMW01 sampled
- DUP-01, DUP-02

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
• TMW02, 03 ran dry before stabilizing	• sample tomorrow

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS

INVESTIGATION DERIVED WASTE SUMMARY

WASTE MATRIX	QUANTITY	COMMENTS

Jennifer Crapella 8/27/18
SIGNED DATE

9/12/18
CHECKED BY DATE

TRC

GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: 8/28/18	TIME ARRIVED: 0700
PROJECT NUMBER: 293107.0000.0000	AUTHOR: DZ, JC, EO, JML	TIME LEFT: 1745

WEATHER

TEMPERATURE: 95 °F WIND: 5 MPH VISIBILITY: Clear

WORK / SAMPLING PERFORMED

MW-31S, MW-32S sampled.
TMW-04, TMW-05, TMW-07 sampled.
DUP-03, DUP-04 collected.
MW-25R MS/MSD collected.
MW-08, MW-29S sampled.
BTEX + Total DEHP collected at MW-27S – Dissolved DEHP to be collected tomorrow.

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
TMW-03 turbidity very high.	Purge at high rate tomorrow to clear screen.

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS

INVESTIGATION DERIVED WASTE SUMMARY

WASTE MATRIX	QUANTITY	COMMENTS

Jenifer Capella 8/28/18
SIGNED DATE

9/12/18
CHECKED BY DATE

TRC

GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: 8/29/18	TIME ARRIVED: 0730
PROJECT NUMBER: 293107.0000.0000	AUTHOR: DZ, JC, EO, JML	TIME LEFT: 1750

WEATHER

TEMPERATURE: 95 °F WIND: 10 MPH VISIBILITY: Clear

WORK / SAMPLING PERFORMED

PW-D-1, PW-D-2, PW-D-3, PW-D-4, PW-RR-TU-MC, PW-RR-TU-LB, PW-RR-TI-LB collected.
TMW-06, TMW-08, TMW-09, TMW-10 collected

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS

INVESTIGATION DERIVED WASTE SUMMARY

WASTE MATRIX	QUANTITY	COMMENTS

Jennifer Capella 8/29/18
SIGNED DATE

CHECKED BY 9/12/18
DATE

TRC

GENERAL NOTES

PROJECT NAME:	LE Carpenter & Co.	DATE:	8/30/18	TIME ARRIVED:	0715
PROJECT NUMBER:	293107.0000.0000	AUTHOR:	DZ, JC, EO, JML	TIME LEFT:	1640

WEATHER

TEMPERATURE: 88 °F WIND: 5 MPH VISIBILITY: Clear

WORK / SAMPLING PERFORMED

PW-RR-TH-RMC, PW-RR-TH-LB, PW-RR-TF-MC, PW-RR-TG-LB sampled.
DUP-05 collected.
mw-33s sampled.
TMW02, TMW03 sampled.
mw-30d, mw-30i sampled.

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS

INVESTIGATION DERIVED WASTE SUMMARY

WASTE MATRIX	QUANTITY	COMMENTS

Jemby Cupella 8/30/18
SIGNED DATE

CHECKED BY 9/12/18
DATE

TRC

GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: 8/31/18	TIME ARRIVED: 0730
PROJECT NUMBER: 293107.0000.0000	AUTHOR: DZ, JC, EO, JML	TIME LEFT: 1400

WEATHER

TEMPERATURE: 70 °F WIND: 15 MPH VISIBILITY: Cloudy/Light Rain

WORK / SAMPLING PERFORMED

- MW 28S & MW28I Sampled
- Blanks collected ATM-01, RB-01, RB-02, RB-03
- Miscellaneous activities:
  - Boom replaced, site photos taken, poly tank ~450 gallons
  - Drum inventory: 8 drums, 2 for MW-19-5RR development water, 2 for MW-19-5RR soil cuttings, 4 for used booms } all full
  - cooler inventory 8 coolers, ~90 ambers

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
• 2 coolers from 8/27 lost by FedEx,	• DMark to resample

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS

INVESTIGATION DERIVED WASTE SUMMARY

WASTE MATRIX	QUANTITY	COMMENTS

SIGNED [signature] DATE 8/31/18

CHECKED BY [signature] DATE 9/12/18

TRC

EQUIPMENT SUMMARY

PROJECT NAME:	LE Carpenter & Co.	SAMPLER NAME:	D. Zielke, J. Crapella, E. O'Connor, J. Lenik
PROJECT NO.:	293107.0000.0000		

WATER LEVEL MEASUREMENTS COLLECTED WITH:

QED	RENTAL
NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)

PRODUCT LEVEL MEASUREMENTS COLLECTED WITH:

QED	PROJECT DEDICATED
NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)

DEPTH TO BOTTOM OF WELL MEASUREMENTS COLLECTED WITH:

QED	RENTAL
NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)

PURGING METHOD

BLADDER PUMP (QED SAMPLE PRO)	RENTAL
NAME AND MODEL OF PUMP OR TYPE OF BAILER	SERIAL NUMBER (IF APPLICABLE)

SAMPLING METHOD

BLADDER PUMP (QED SAMPLE PRO)	RENTAL
NAME AND MODEL OF PUMP OR TYPE OF BAILER	SERIAL NUMBER (IF APPLICABLE)
GEOTECH DISPOSABLE FILTER	0.45 MICRON
NAME AND MODEL OF FILTERATION DEVICE	FILTER TYPE AND SIZE
DISPOSABLE POLY TUBING	☑ LOW-FLOW SAMPLING EVENT
TUBING TYPE	

PURGE WATER DISPOSAL METHOD

☐ GROUND ☐ DRUM ☐ POTW ☑ POLYTANK ☐ OTHER _____

DECONTAMINATION AND FIELD BLANK WATER SOURCE

STORE BOUGHT	STORE BOUGHT
POTABLE WATER SOURCE	DI WATER SOURCE
SIGNED 9/12/18 DATE	CHECKED BY 9/12/18 DATE

REVISED 06/2011

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WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 8/27/18

PH CALIBRATION CHECK

pH 7 (LOT #): 8GB386 (EXP. DATE): 2/29/20 POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): 7GI837 (EXP. DATE): 9/30/19 POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.00 / 7.00	4.00 / 4.00	☒ WITHIN RANGE	0730
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): 17502171 (EXP. DATE): 1/19/19	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES (1)**
☒ pH 4.00	pH: +/- 0.2 S.U.
☒ COND 4.49	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☐ D.O.	D.O.: VARIES
☒ TURB 0.0	TURB: +/- 5% OF CAL. STANDARD
☐	(1) CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐	

NOTES

Probe: 41036

Meter: 41035

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

Jennifer Crapella — SIGNED — 8/27/18 DATE

CHECKED BY — 9/12/18 DATE

REVISED 06/2011

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WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 8/27/18

PH CALIBRATION CHECK

pH 7 (LOT #): 86B386 (EXP. DATE): 2/29/20 POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): 76I837 (EXP. DATE): 9/30/19 POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.00 / 7.00	4.00 / 4.00	☒ WITHIN RANGE	0750
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): 17502171 (EXP. DATE): 1/19/19

☐ STANDARD SOLUTION (S)

LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK

CALIBRATED PARAMETERS		CALIBRATION RANGES (1)	
☒	pH 3.99	pH:	+/- 0.2 S.U.
☒	COND 4.49	COND:	+/- 1% OF CAL. STANDARD
☐	ORP	ORP:	+/- 25 mV
☐	D.O.	D.O.:	VARIES
☒	TURB 0.0	TURB:	+/- 5% OF CAL. STANDARD
☐			
☐			

(1) CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER

NOTES

Probe: 41074

Meter: 41073

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

Jennifer Cupella 8/27/18

SIGNED DATE

CHECKED BY 9/12/18 DATE

REVISED 06/2011

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WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, (JC) EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 8/28/18

PH CALIBRATION CHECK

pH 7 (LOT #): 86B386 (EXP. DATE): 2/29/20	(pH 4) / 10 (LOT #): 767837 (EXP. DATE): 9/30/19	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
7.00 / 7.00	4.00 / 4.00	☒ WITHIN RANGE	0705
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE):	(LOT #): (EXP. DATE):	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): 17502171 (EXP. DATE): 1/19/19		☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK	
CALIBRATED PARAMETERS		CALIBRATION RANGES [1]	
☒	pH 4.00	pH:	+/- 0.2 S.U.
☒	COND 4.50	COND:	+/- 1% OF CAL. STANDARD
☐	ORP	ORP:	+/- 25 mV
☒	D.O.	D.O.:	VARIES
☒	TURB 0.0	TURB:	+/- 5% OF CAL. STANDARD
☐		[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER	
☐			

NOTES

Probe: 21233

Meter: 24741

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED: [signature] DATE: 8/28/18

CHECKED BY: [signature] DATE: 9/12/18

REVISED 06/2011

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WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 8/28/18

PH CALIBRATION CHECK

pH 7 (LOT #): 8GB386 (EXP. DATE): 2/29/20 POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): 7GJ837 (EXP. DATE): 9/30/19 POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.00 / 7.00	4.00 / 4.00	☐ WITHIN RANGE	0715
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION
(LOT #): 17502171
(EXP. DATE): 1/19/19

☐ STANDARD SOLUTION (S)
LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK

CALIBRATED PARAMETERS	CALIBRATION RANGES [1]	
☒ pH 4.00	pH:	+/- 0.2 S.U.
☒ COND 4.49	COND:	+/- 1% OF CAL. STANDARD
☐ ORP	ORP:	+/- 25 mV
☐ D.O.	D.O.:	VARIES
☒ TURB 0.0	TURB:	+/- 5% OF CAL. STANDARD
☐ _____	[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER	
☐ _____		

NOTES

Probe: 41074
Meter: 41073

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED: [signature] DATE: 8/28/18

CHECKED BY: [signature] DATE: 9/12/18

REVISED 06/2011

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WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 8/28/18

PH CALIBRATION CHECK

pH 7 (LOT #): 8GB386 (EXP. DATE): 2/29/20 POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): 7GI837 (EXP. DATE): 9/30/19 POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.00 / 7.00	4.00 / 4.00	☒ WITHIN RANGE	0725
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): 17502171 (EXP. DATE): 1/19/19	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES [1]**
☒ pH 4.01	pH: +/- 0.2 S.U.
☒ COND 4.49	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☒ D.O.	D.O.: VARIES
☒ TURB 0.0	TURB: +/- 5% OF CAL. STANDARD
☐	[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐	

NOTES

Probe: 41036

Meter: 41035

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS
41036 41035	

SIGNED: [signature] DATE: 8/28/18

CHECKED BY: [signature] DATE: 9/12/18

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML	
PROJECT NO.: 293107.0000.0000	SERIAL #: RENTAL	DATE: 8/29/18	

PH CALIBRATION CHECK

pH 7 (LOT #): 8GB386 (EXP. DATE): 2/29/20 POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): 7GI837 (EXP. DATE): 9/30/19 POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.00 / 7.00	4.00 / 4.00	☒ WITHIN RANGE	0740
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): 17502171 (EXP. DATE): 1/19/19

☐ STANDARD SOLUTION (S)

LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK

CALIBRATED PARAMETERS		CALIBRATION RANGES (1)	
☒	pH 4.00	pH:	+/- 0.2 S.U.
☒	COND 4.49	COND:	+/- 1% OF CAL. STANDARD
☐	ORP	ORP:	+/- 25 mV
☐	D.O.	D.O.:	VARIES
☒	TURB 0.00	TURB:	+/- 5% OF CAL. STANDARD
☐			
☐			

(1) CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER

NOTES

Probe: 41074

Meter: 41073

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

Jennifer Capella 8/29/18

SIGNED DATE

CHECKED BY 9/12/18 DATE

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 8/29/18

PH CALIBRATION CHECK

pH 7 (LOT #): 8GB386 (EXP. DATE): 2/29/20 POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): 76I837 (EXP. DATE): 9/30/19 POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.00 / 7.00	4.00 / 4.00	☒ WITHIN RANGE	0750
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION
(LOT #): 17502171
(EXP. DATE): 1/19/19

☐ STANDARD SOLUTION (S)
LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK

CALIBRATED PARAMETERS	CALIBRATION RANGES [1]	
☒ pH 4.00	pH:	+/- 0.2 S.U.
☒ COND 4.49	COND:	+/- 1% OF CAL. STANDARD
☐ ORP	ORP:	+/- 25 mV
☒ D.O.	D.O.:	VARIES
☒ TURB 0.0	TURB:	+/- 5% OF CAL. STANDARD
☐	[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER	
☐		

NOTES

Probe: 21233
Meter: 247411

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED: [signature] DATE: 8/29/18

CHECKED BY: [signature] DATE: 9/12/18

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 8/30/18

PH CALIBRATION CHECK

pH 7 (LOT #): 8GB386 (EXP. DATE): 2/29/20 POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): 7GI837 (EXP. DATE): 9/30/19 POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.00 / 7.00	4.00 / 4.00	☒ WITHIN RANGE	0720
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): 17502171 (EXP. DATE): 1/19/19	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES (1)**
☒ pH 3.99	pH: +/- 0.2 S.U.
☒ COND 4.51	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☐ D.O.	D.O.: VARIES
☒ TURB 0.0	TURB: +/- 5% OF CAL. STANDARD
☐	(1) CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐	

NOTES

Probe: 21233

Meter: 24741

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

Jennifer Crapella 8/30/18

SIGNED DATE

CHECKED BY 9/12/18 DATE

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 8/30/18

PH CALIBRATION CHECK

pH 7 (LOT #): 8GB386 (EXP. DATE): 2/29/20 POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): 7GI837 (EXP. DATE): 9/30/19 POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.00 / 7.00	4.00 / 4.00	☒ WITHIN RANGE	0730
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): 17502171 (EXP. DATE): 1/19/19

☐ STANDARD SOLUTION (S)

LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK

CALIBRATED PARAMETERS		CALIBRATION RANGES (1)	
☒	pH 3.96	pH:	+/- 0.2 S.U.
☒	COND 4.50	COND:	+/- 1% OF CAL. STANDARD
☐	ORP	ORP:	+/- 25 mV
☐	D.O.	D.O.:	VARIES
☒	TURB 0.00	TURB:	+/- 5% OF CAL. STANDARD
☐			
☐			

(1) CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER

NOTES

Probe: 41074

Meter: 41073

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

Jenifer Capella — SIGNED — 8/30/18 DATE

CHECKED BY — 9/12/18 DATE

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 8/30/18

PH CALIBRATION CHECK

pH 7 (LOT #): 86B386 (EXP. DATE): 2/29/20	pH 4 / 10 (LOT #): 76I837 (EXP. DATE): 9/30/19	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
7.00 / 7.00	4.00 / 4.00	☒ WITHIN RANGE	0750
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE):	(LOT #): (EXP. DATE):	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ **AUTOCAL SOLUTION**
(LOT #): 17502171
(EXP. DATE): 1/19/19

☐ **STANDARD SOLUTION (S)**
LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK

CALIBRATED PARAMETERS	CALIBRATION RANGES [1]	
☒ pH 3.97	pH:	+/- 0.2 S.U.
☒ COND 4.51	COND:	+/- 1% OF CAL. STANDARD
☐ ORP	ORP:	+/- 25 mV
☐ D.O.	D.O.:	VARIES
☒ TURB 0.0	TURB:	+/- 5% OF CAL. STANDARD
☐ _____	[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER	
☐ _____		

NOTES

Probe: 41036
Meter: 41035

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED: [signature] DATE: 8/30/18

CHECKED BY: [signature] DATE: 9/12/18

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, (JC), EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 8/31/18

PH CALIBRATION CHECK

pH 7 (LOT #): 86B386 (EXP. DATE): 2/29/20	pH 4 / 10 (LOT #): 76I837 (EXP. DATE): 9/30/19	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
7.00 / 7.00	4.00 / 4.00	☒ WITHIN RANGE	0750
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE):	(LOT #): (EXP. DATE):	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ **AUTOCAL SOLUTION**
(LOT #): 17502171
(EXP. DATE): 1/19/19

☐ **STANDARD SOLUTION (S)**
LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK

CALIBRATED PARAMETERS		CALIBRATION RANGES [1]	
☒	pH 3.99	pH:	+/- 0.2 S.U.
☒	COND 4.50	COND:	+/- 1% OF CAL. STANDARD
☐	ORP	ORP:	+/- 25 mV
☐	D.O.	D.O.:	VARIES
☒	TURB 0.0	TURB:	+/- 5% OF CAL. STANDARD
☐		[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER	
☐			

NOTES

Probe: 41074
Meter: 41073

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED: [signature] DATE: 8/31/18

CHECKED BY: [signature] DATE: 9/12/18

REVISED 06/2011

TRC

WATER LEVEL DATA

PROJECT NAME:	LE Carpenter & Co.	DATE:	8/27/2018
PROJECT NUMBER:	293107.0000.0000	AUTHOR:	DZ, JC, EO, JML

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
TMW-01	0920	TOSC	2.88	9.25	NM	
TMW-02	0923	TOSC	4.64	9.30	NM	
TMW-03	0926	TOSC	5.70	9.19	NM	
TMW-04	0930	TOSC	4.71	9.10	NM	
TMW-05 DUP-D3	0934	TOSC	3.68	9.10	NM	
TMW-06	0939	TOSC	3.37	9.05	NM	
TMW-07	0942	TOSC	3.41	8.99	NM	
TMW-08	0945	TOSC	2.35	9.11	NM	
TMW-09	0950	TOSC	2.60	9.12	NM	
TMW-10	0955	TOSC	3.16	9.10	NM	

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

SIGNED 9/12/18 DATE

CHECKED 9/12/18 DATE

TRC

WATER LEVEL DATA

PROJECT NAME:	LE Carpenter & Co.	DATE:	8/27/2018
PROJECT NUMBER:	293107.0000.0000	AUTHOR:	DZ, JC, EO, JML

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION	Bottom
MW-19R	0954	TOC	7.53	15.46	NM		F
MW-19-5RR	0937	TOC	7.95	16.10	NM		H
MW-19-6R	1011	TOC	8.16	15.70	NM		H
MW-19-7R	1007	TOC	7.78	15.65	NM		S
MW-19-8	1003	TOC	7.94	19.45	NM		S
MW-19-12	1004	TOC	7.21	16.81	NM		F
MW-19-13	0942	TOC	7.18	15.15	NM		S
MW-19-14	0956	TOC	7.41	16.08	NM		S
MW-19-15	0950	TOC	7.33	15.63	NM		S
MW-19-16	0947	TOC	5.96	15.05	NM		S
MW-19-17	1002	TOC	8.59	15.69	NM		H
GEI-3I	1015	TOC	11.95	NA	NM		
~~MW-19-9D~~							
MW-25R	1415	TOC	2.38	8.59	NM		
MW-21	1410	TOC	2.67	18.21	NM		
MW-27S	1020	TOC	8.23	13.17	NM		H
MW-28S	1744	TOC	5.16	17.75	NM		
MW-28I	1748	TOC	5.02	22.93	NM		
MW-29S	1752	TOC	6.88	14.68	NM		
MW-30S(R)	1749	TOC	2.40	13.03	NM		
MW-30I	1748	TOC	2.58	18.21	NM		

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

Jennifer Capella — SIGNED — 8/27/18 DATE

CHECKED — 9/12/18 DATE

TRC

WATER LEVEL DATA

PROJECT NAME:	LE Carpenter & Co.	DATE:	8/27/2018
PROJECT NUMBER:	293107.0000.0000	AUTHOR:	DZ, JC, EO, JML

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-30D	~~0747~~	TOC	2.33	NA	NM	
MW-31s 0942	~~0930~~	TOC	4.78	10.32	ND	
MW-32s 0939	~~0935~~	TOC	6.07	10.42	ND	
MW-33s 0950	~~0939~~	TOC	6.26	10.34	ND	
MW-34s 0930	~~0942~~	TOC	5.85	10.33	ND	
MW-35s	0935	TOC	4.28	10.29	ND	
SW-D-1	1114	STAKE	~~1144~~ 0.68	NA	NA	
SW-D-2	1300	NO STAKE	NA	NA	NA	
SW-D-3	1034	STAKE ~~NO STAKE~~	~~1034~~ 0.44	NA	NA	
SW-D-4	1054	STAKE	~~1054~~ 0.21	NA	NA	
SW-D-5	1330	STAKE	3.12	NA	NA	
SW-R-1	1430	STAKE	2.60	NA	NA	
SW-R-2	1450	STAKE	DRY	NA	NA	
SW-R-3	1510	STAKE	1.91	NA	NA	
SW-R-4	1530	STAKE	2.49	NA	NA	
SW-R-5	1016	STAKE	1.60	NA	NA	
SW-R-6	1229	NO STAKE	NA	NA	NA	
DRC-2	1400	STAKE	2.24	NA	NA	
SG-R2	1738	STAKE	2.66	NA	NA	

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

Jennifer Capella 8/27/18
SIGNED DATE

CHECKED 9/12/18
DATE

TRC

WATER LEVEL DATA

PROJECT NAME:	LE Carpenter & Co.	DATE:	8/27/2018
PROJECT NUMBER:	293107.0000.0000	AUTHOR:	DZ, JC, EO, JML

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION	Bottom
MW-15S	1022	TOC	9.64	19.47	NM		S
MW-15I	1023	TOC	9.55	40.13	NM		S
MW-17S	1740	TOC	7.51	NA	NM		
MW-12R	1728	TOC	7.64	NA	NM		
MW-9	1724	TOC	3.50	NA	NM		
MW-8	1718	TOC	2.70	20.00	NM		
MW-13S	-	-	NM (No Key for Lock)	-	-		
MW-13I	1050	TOC	4.05	NA	NM		
MW-13S (R)	-	-	NM (No Key for Lock)	-	-		

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

Jennifer Cupella 8/27/18
SIGNED DATE

9/12/18
CHECKED DATE

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML DATE: 8/27/18	BY: DZ DATE: 9/12/18

SAMPLE ID: SW-D-1

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD:	☐ PUMP ☐ BAILER	
DEPTH TO WATER:	T/ PVC	
DEPTH TO BOTTOM	T/ PVC	
WELL VOLUME:	☐ LITERS ☐ GALLONS	
VOLUME REMOVED:	☐ LITERS ☐ GALLONS	
COLOR:	ODOR:	
TURBIDITY	☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	
DISPOSAL METHOD	☐ GROUND ☐ DRUM ☐ OTHER	

SAMPLE	TIME: 1115	DATE: 8/27/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES	☑ NO	
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or <= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED: 8/27/18	AIRBILL NUMBER:
COC NUMBER:	NA	SIGNATURE: Jennifer Cipolla	DATE SIGNED: 8/27/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML DATE: 8/27/18	BY: DZ DATE: 9/12/18

SAMPLE ID: SW-D-2

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD:	☐ PUMP ☐ BAILER	
DEPTH TO WATER:	T/ PVC	
DEPTH TO BOTTOM	T/ PVC	
WELL VOLUME:	☐ LITERS ☐ GALLONS	
VOLUME REMOVED:	☐ LITERS ☐ GALLONS	
COLOR:	ODOR:	
TURBIDITY	☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	
DISPOSAL METHOD	☐ GROUND ☐ DRUM ☐ OTHER	

SAMPLE	TIME: 1300	DATE: 8/27/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES	☑ NO	
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☑ DUP-01 1305	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED: 8/27/18	AIRBILL NUMBER:
COC NUMBER:	NA	SIGNATURE: Jennifer Capella	DATE SIGNED: 8/27/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/27/18	BY: DZ DATE 9/12/18

SAMPLE ID: SW-D-3 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1035	DATE: 8/27/18
PURGE METHOD: ☐ PUMP ☐ BAILER			PH: SU	CONDUCTIVITY: umhos/cm	
			ORP: mV	DO: mg/L	
DEPTH TO WATER: T/ PVC			TURBIDITY: NTU		
DEPTH TO BOTTOM T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ☐ LITERS ☐ GALLONS			TEMPERATURE: °C	OTHER:	
VOLUME REMOVED: ☐ LITERS ☐ GALLONS			COLOR:	ODOR:	
COLOR: ODOR:			FILTRATE (0.45 um) ☐ YES ☑ NO		
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR:	FILTRATE ODOR:	
			QC SAMPLE: ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/27/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE: Jennifer Cipolla	DATE SIGNED: 8/27/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER:	293107.0000	BY: DZ JC EO, JML DATE: 8/27/18	BY: DZ DATE: 9/12/18

SAMPLE ID: SW-D-4

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD:	☐ PUMP ☐ BAILER	
DEPTH TO WATER:	T/ PVC	
DEPTH TO BOTTOM:	T/ PVC	
WELL VOLUME:	☐ LITERS ☐ GALLONS	
VOLUME REMOVED:	☐ LITERS ☐ GALLONS	
COLOR:	ODOR:	
TURBIDITY	☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	
DISPOSAL METHOD	☐ GROUND ☐ DRUM ☐ OTHER	

SAMPLE	TIME: 1055	DATE: 8/27/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um)	☐ YES	☑ NO
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE:	☐ MS/MSD	☐ DUP-
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED: 8/27/18	AIRBILL NUMBER:
COC NUMBER:	NA	SIGNATURE: Jenifer Capella	DATE SIGNED: 8/27/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML	DATE: 8/27/18	BY: DZ	DATE: 9/12/18

SAMPLE ID:	**SW-D-5**	WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6"	☑ OTHER	NA	
WELL MATERIAL:	☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL		☑ OTHER	NA	
SAMPLE TYPE:	☐ GW ☐ WW ☑ SW ☐ DI	☐ LEACHATE	☐ OTHER		

PURGING	TIME:	DATE:	SAMPLE	TIME: 1330	DATE: 8/27/18
PURGE METHOD:	☐ PUMP ☐ BAILER		PH: SU	CONDUCTIVITY: umhos/cm	
			ORP: mV	DO: mg/L	
DEPTH TO WATER: T/ PVC			TURBIDITY: NTU		
DEPTH TO BOTTOM T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ☐ LITERS ☐ GALLONS			TEMPERATURE: °C	OTHER:	
VOLUME REMOVED: ☐ LITERS ☐ GALLONS			COLOR:	ODOR:	
COLOR: ODOR:			FILTRATE (0.45 um) ☐ YES	☑ NO	
TURBIDITY			FILTRATE COLOR:	FILTRATE ODOR:	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD	☒ DUP- ~~1330~~ 1330	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or <= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	8/27/18	AIRBILL NUMBER:	
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	8/27/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML DATE: 8/27/18	BY: DZ DATE: 9/12/18

SAMPLE ID: **DRC-02**

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:

PURGE METHOD: ☐ PUMP ☐ BAILER

DEPTH TO WATER: _____ T/ PVC

DEPTH TO BOTTOM: _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS

COLOR: _____ ODOR: _____

TURBIDITY

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME: 1400	DATE: 8/27/18

PH: _____ SU CONDUCTIVITY: _____ umhos/cm

ORP: _____ mV DO: _____ mg/L

TURBIDITY: _____ NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: _____ °C OTHER: _____

COLOR: _____ ODOR: _____

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: _____ FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED: 8/27/18	AIRBILL NUMBER:
COC NUMBER:	NA	SIGNATURE: [signature]	DATE SIGNED: 8/27/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML DATE: 8/27/18	BY: DZ DATE: 9/12/18

SAMPLE ID: **SW-R-1**	WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA
WELL MATERIAL:	☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA
SAMPLE TYPE:	☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD:	☐ PUMP ☐ BAILER	
DEPTH TO WATER:	T/ PVC	
DEPTH TO BOTTOM	T/ PVC	
WELL VOLUME:	☐ LITERS ☐ GALLONS	
VOLUME REMOVED:	☐ LITERS ☐ GALLONS	
COLOR:	ODOR:	
TURBIDITY	☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	
DISPOSAL METHOD	☐ GROUND ☐ DRUM ☐ OTHER	

SAMPLE	TIME: 1430	DATE: 8/27/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES	☑ NO	
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or <= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	8/27/18	AIRBILL NUMBER:	
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	8/27/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER:	293107.0000	BY: DZ JC EO, JML DATE: 8/27/18	BY: DZ DATE: 9/12/18

SAMPLE ID:	**SW-R-2**	WELL DIAMETER:	☐ 2"	☐ 4"	☐ 6"	☑ OTHER NA
WELL MATERIAL:	☐ PVC	☐ SS	☐ IRON	☐ GALVANIZED STEEL		☑ OTHER NA
SAMPLE TYPE:	☐ GW	☐ WW	☑ SW	☐ DI	☐ LEACHATE	☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1450	DATE: 8/27/18
PURGE METHOD:	☐ PUMP ☐ BAILER		PH: SU	CONDUCTIVITY: umhos/cm	
			ORP: mV	DO: mg/L	
DEPTH TO WATER: T/ PVC			TURBIDITY: NTU		
DEPTH TO BOTTOM T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ☐ LITERS ☐ GALLONS			TEMPERATURE: °C	OTHER:	
VOLUME REMOVED: ☐ LITERS ☐ GALLONS			COLOR:	ODOR:	
COLOR: ODOR:			FILTRATE (0.45 um) ☐ YES	☑ NO	
TURBIDITY			FILTRATE COLOR:	FILTRATE ODOR:	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	8/27/18	AIRBILL NUMBER:	
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	8/27/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/27/18	BY: DZ DATE: 9/12/18

SAMPLE ID: SW-R-3 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD:	☐ PUMP ☐ BAILER	
DEPTH TO WATER:	T/ PVC	
DEPTH TO BOTTOM	T/ PVC	
WELL VOLUME:	☐ LITERS ☐ GALLONS	
VOLUME REMOVED:	☐ LITERS ☐ GALLONS	
COLOR:	ODOR:	
TURBIDITY	☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	
DISPOSAL METHOD	☐ GROUND ☐ DRUM ☐ OTHER	

SAMPLE	TIME: 1510	DATE: 8/27/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES	☑ NO	
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/27/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 8/27/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML	DATE: 8/27/18	BY: DZ	DATE: 9/12/18

SAMPLE ID:	**SW-R-4**	WELL DIAMETER:	☐ 2"	☐ 4"	☐ 6"	☑ OTHER NA
WELL MATERIAL:	☐ PVC	☐ SS	☐ IRON	☐ GALVANIZED STEEL		☑ OTHER NA
SAMPLE TYPE:	☐ GW	☐ WW	☑ SW	☐ DI	☐ LEACHATE	☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1530	DATE: 8/27/18
PURGE METHOD:	☐ PUMP		PH: SU	CONDUCTIVITY: umhos/cm	
	☐ BAILER		ORP: mV	DO: mg/L	
DEPTH TO WATER: T/ PVC			TURBIDITY: NTU		
DEPTH TO BOTTOM T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME:	☐ LITERS	☐ GALLONS	TEMPERATURE: °C	OTHER:	
VOLUME REMOVED:	☐ LITERS	☐ GALLONS	COLOR:	ODOR:	
COLOR:	ODOR:		FILTRATE (0.45 um)	☐ YES	☑ NO
TURBIDITY			FILTRATE COLOR:	FILTRATE ODOR:	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE:	☐ MS/MSD	☐ DUP-
DISPOSAL METHOD	☐ GROUND	☐ DRUM ☐ OTHER	COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	8/27/18	AIRBILL NUMBER:	
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	8/27/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML DATE: 8/27/18	BY: DZ DATE: 9/12/18

SAMPLE ID: SW-R-6	WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA
WELL MATERIAL:	☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA
SAMPLE TYPE:	☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD:	☐ PUMP ☐ BAILER	
DEPTH TO WATER:	T/ PVC	
DEPTH TO BOTTOM	T/ PVC	
WELL VOLUME:	☐ LITERS ☐ GALLONS	
VOLUME REMOVED:	☐ LITERS ☐ GALLONS	
COLOR:	ODOR:	
TURBIDITY	☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	
DISPOSAL METHOD	☐ GROUND ☐ DRUM ☐ OTHER	

SAMPLE	TIME: 1230	DATE: 8/27/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES	☑ NO	
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☑ DUP-01	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	8/27/18	AIRBILL NUMBER:	
COC NUMBER:	NA	SIGNATURE:	Jenifer Cipelli	DATE SIGNED:	8/27/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML DATE: 8/29/18	BY: DZ DATE: 9/12/18

SAMPLE ID: PW-D-1

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:

PURGE METHOD: ☐ PUMP ☐ BAILER

DEPTH TO WATER: T/ PVC

DEPTH TO BOTTOM T/ PVC

WELL VOLUME: ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ☐ LITERS ☐ GALLONS

COLOR: ODOR:

TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME: 0930	DATE: 8/29/18

PH: SU CONDUCTIVITY: umhos/cm

ORP: mV DO: mg/L

TURBIDITY: NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: °C OTHER:

COLOR: ODOR:

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	0930	—	7.07	618	-105	1.83	129	25.02	—	INITIAL
Post sample	0940	—	6.93	647	-77	1.05	80.8	22.35	—	—
surface	0945	—	7.00	832	-48	0.00	223	24.06	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED: 8/29/18	AIRBILL NUMBER:
COC NUMBER:	NA	SIGNATURE: [signature]	DATE SIGNED: 8/29/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC EO, JML DATE: 8/29/18	BY: DZ DATE: 9/12/18

SAMPLE ID: PW-D-2 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD: ☐ PUMP ☐ BAILER		
DEPTH TO WATER: T/ PVC		
DEPTH TO BOTTOM T/ PVC		
WELL VOLUME: ☐ LITERS ☐ GALLONS		
VOLUME REMOVED: ☐ LITERS ☐ GALLONS		
COLOR: ODOR:		
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER		

SAMPLE	TIME: 1020	DATE: 8/29/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES ☑ NO		
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD ☑ DUP-01		
COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1020	—	6.73	879	-115	0.52	>1000	24.40	—	INITIAL
Post Sample	1030	—	6.77	851	-113	0.86	186	24.79	—	—
Surface	1035	—	6.99	818	-117	0.46	194	23.97	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or <= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	8/29/18	AIRBILL NUMBER:	
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	8/29/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/29/18	BY: DZ DATE: 9/12/18

SAMPLE ID: PW-D-4 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD: ☐ PUMP ☐ BAILER		
DEPTH TO WATER: T/ PVC		
DEPTH TO BOTTOM: T/ PVC		
WELL VOLUME: ☐ LITERS ☐ GALLONS		
VOLUME REMOVED: ☐ LITERS ☐ GALLONS		
COLOR: ODOR:		
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☐ OTHER		

SAMPLE	TIME: 1000	DATE: 8/29/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES ☑ NO		
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1000	—	6.54	1370	-123	2.41	166	26.88	—	~~INITIAL~~
Post Sample	1010	—	6.54	1170	-96	9.65	122	24.38	—	—
Surface	1015	—	6.73	827	-99	0.55	133	23.61	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or <= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	8/29/18	AIRBILL NUMBER:	
COC NUMBER:	NA	SIGNATURE:	Justin Crellin	DATE SIGNED:	8/29/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ JC EO, JML DATE: 8/29/18	BY: DZ DATE: 9/12/18

SAMPLE ID: PW-D-3	WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA
WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL	☑ OTHER NA
SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE	☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD: ☐ PUMP ☐ BAILER		
DEPTH TO WATER: T/ PVC		
DEPTH TO BOTTOM: T/ PVC		
WELL VOLUME: ☐ LITERS ☐ GALLONS		
VOLUME REMOVED: ☐ LITERS ☐ GALLONS		
COLOR: ODOR:		
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☐ OTHER		

SAMPLE	TIME: 1050	DATE: 8/29/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES	☑ NO	
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1050	—	6.72	1120	-99	3.27	367	28.56	—	INITIAL
Post sample	1100	—	6.72	1140	-103	2.84	283	27.11	—	—
Surface	1105	—	6.99	815	-80	1.32	325	28.37	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or <= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/29/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 8/29/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML	DATE: 8/29/18	BY: DZ	DATE: 9/12/18

SAMPLE ID:	**PW-RR-TJ-LB**	WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6"	☑ OTHER **NA**		
WELL MATERIAL:	☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL		☑ OTHER **NA**		
SAMPLE TYPE:	☐ GW ☐ WW ☑ SW ☐ DI	☐ LEACHATE	☐ OTHER		

PURGING	TIME:	DATE:	SAMPLE	TIME: 1250	DATE: 8/29/18
PURGE METHOD:	☐ PUMP ☐ BAILER		PH: SU	CONDUCTIVITY: umhos/cm	
			ORP: mV	DO: mg/L	
DEPTH TO WATER: T/ PVC			TURBIDITY: NTU		
DEPTH TO BOTTOM: T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ☐ LITERS ☐ GALLONS			TEMPERATURE: °C	OTHER:	
VOLUME REMOVED: ☐ LITERS ☐ GALLONS			COLOR:	ODOR:	
COLOR: ODOR:			FILTRATE (0.45 um) ☐ YES ☑ NO		
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR:	FILTRATE ODOR:	
			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1250	—	6.66	273	-56	1.23	43.0	26.85	—	INITIAL
Post Sample	1300	—	6.56	276	-45	0.65	3.2	27.20	—	—
Surface	1305	—	6.97	268	-54	5.21	1.0	26.59	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or <= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	8/29/18	AIRBILL NUMBER:	
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	8/29/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/29/18	BY: DZ DATE: 9/12/18

SAMPLE ID: **PW-RR-TJ-MC**

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD:	☐ PUMP ☐ BAILER	
DEPTH TO WATER:	T/ PVC	
DEPTH TO BOTTOM:	T/ PVC	
WELL VOLUME:	☐ LITERS ☐ GALLONS	
VOLUME REMOVED:	☐ LITERS ☐ GALLONS	
COLOR:	ODOR:	
TURBIDITY	☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	
DISPOSAL METHOD	☐ GROUND ☐ DRUM ☐ OTHER	

SAMPLE	TIME: 1230	DATE: 8/29/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES	☑ NO	
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1230	—	7.22	255	-113	1.07	2.7	26.07	—	INITIAL
Post Sample	1240	—	6.94	255	-77	0.78	0.9	25.40	—	—
Surface	1245	—	7.15	266	-71	4.61	0.7	25.73	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED				PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -					
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED: 8/29/18	AIRBILL NUMBER:
COC NUMBER:	NA	SIGNATURE: [signature]	DATE SIGNED: 8/29/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/ 29 /18	BY: DZ DATE: 9/12/18

SAMPLE ID: PW-RR-TI-LB WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD: ☐ PUMP ☐ BAILER		
DEPTH TO WATER: T/ PVC		
DEPTH TO BOTTOM T/ PVC		
WELL VOLUME: ☐ LITERS ☐ GALLONS		
VOLUME REMOVED: ☐ LITERS ☐ GALLONS		
COLOR: ODOR:		
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER		

SAMPLE	TIME: 1330	DATE: 8/ 29 /18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES ☑ NO		
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1330	—	6.74	266	-75	1.16	2.8	27.98	—	INITIAL
Post sample	1340	—	7.16	264	-53	0.93	0.4	26.02	—	—
Surface	1345	—	7.32	267	-61	5.07	1.1	26.89	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/29/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 8/29/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML DATE: 8/30/18	BY: DZ DATE: 9/12/18

SAMPLE ID: PW-RR-TH-RMC	WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA
WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL	☑ OTHER NA
SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE	☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1010	DATE: 8/30/18
PURGE METHOD: ☐ PUMP ☐ BAILER			PH: SU	CONDUCTIVITY: umhos/cm	
			ORP: mV	DO: mg/L	
DEPTH TO WATER: T/ PVC			TURBIDITY: NTU		
DEPTH TO BOTTOM T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ☐ LITERS ☐ GALLONS			TEMPERATURE: °C	OTHER:	
VOLUME REMOVED: ☐ LITERS ☐ GALLONS			COLOR:	ODOR:	
COLOR: ODOR:			FILTRATE (0.45 um) ☐ YES ☑ NO		
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR:	FILTRATE ODOR:	
			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1010	—	7.15	297	71	1.86	3.0	26.53	—	INITIAL
								25.84	—	—
Post sample	1020	—	7.03	296	0	1.69	0.0		—	—
Surface	1025	—	7.27	299	46	4.85	0.0	25.45	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or <= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED: 8/30/18	AIRBILL NUMBER:
COC NUMBER:	NA	SIGNATURE: [signature]	DATE SIGNED: 8/30/18

REVISED 06/2011

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/30/18	BY: DZ DATE: 9/12/18

SAMPLE ID: PW-RR-TH-LB WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD: ☐ PUMP ☐ BAILER		
DEPTH TO WATER: T/ PVC		
DEPTH TO BOTTOM: T/ PVC		
WELL VOLUME: ☐ LITERS ☐ GALLONS		
VOLUME REMOVED: ☐ LITERS ☐ GALLONS		
COLOR: ODOR:		
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER		

SAMPLE	TIME: 1105	DATE: 8/30/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES ☑ NO		
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1105	—	7.32	313	-92	1.47	0.0	25.88	—	INITIAL
									—	—
Post Sample	1115	—	7.33	318	-75	0.71	0.0	25.20	—	—
Surface	1120	—	7.47	302	-24	4.76	0.0	25.45	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or <= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/30/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 8/30/18

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WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML	DATE: 8/30/18	BY: DZ	DATE: 9/12/18

SAMPLE ID:	**PW-RR-TF-MC**	WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6"	☑ OTHER	NA	
WELL MATERIAL:	☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL		☑ OTHER	NA	
SAMPLE TYPE:	☐ GW ☐ WW ☑ SW ☐ DI	☐ LEACHATE	☐ OTHER		

PURGING	TIME:	DATE:	SAMPLE	TIME: 1315	DATE: 8/30/18
PURGE METHOD:	☐ PUMP ☐ BAILER		PH: SU	CONDUCTIVITY: umhos/cm	
			ORP: mV	DO: mg/L	
DEPTH TO WATER: T/ PVC			TURBIDITY: NTU		
DEPTH TO BOTTOM: T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ☐ LITERS ☐ GALLONS			TEMPERATURE: °C	OTHER:	
VOLUME REMOVED: ☐ LITERS ☐ GALLONS			COLOR:	ODOR:	
COLOR: ODOR:			FILTRATE (0.45 um) ☐ YES ☑ NO		
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR:	FILTRATE ODOR:	
			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1315	—	6.85	315	-86	1.68	0.4	29.74	—	INITIAL
Post Sample	1325	—	6.69	291	-68	1.61	0.0	27.09	—	—
Surface	1330	—	6.97	296	-47	4.56	0.0	26.68	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or <= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	8/30/18	AIRBILL NUMBER:	
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	8/30/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/30/18	BY: DZ DATE: 9/12/18

SAMPLE ID: PW-RR-TG-LB WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1415	DATE: 8/30/18
PURGE METHOD: ☐ PUMP ☐ BAILER			PH: SU	CONDUCTIVITY: umhos/cm	
			ORP: mV	DO: mg/L	
DEPTH TO WATER: T/ PVC			TURBIDITY: NTU		
DEPTH TO BOTTOM T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ☐ LITERS ☐ GALLONS			TEMPERATURE: °C	OTHER:	
VOLUME REMOVED: ☐ LITERS ☐ GALLONS			COLOR:	ODOR:	
COLOR: ODOR:			FILTRATE (0.45 um) ☐ YES ☑ NO		
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR:	FILTRATE ODOR:	
			QC SAMPLE: ☐ MS/MSD	☐ DUP- 05 1430	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1415	—	7.12	293	-54	2.21	1.0	26.33	—	INITIAL
Post sample	1440	—	7.03	297	-63	1.78	0.0	25.34	—	—
Surface	1445	—	7.24	302	-43	4.62	0.0	25.76	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/30/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 8/30/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ JC, EO, JML DATE: 8/28/18	BY: DZ DATE: 9/12/18

SAMPLE ID: MW-08 WELL DIAMETER: ☐ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1520	DATE: 8/28/18	SAMPLE	TIME: 1550	DATE: 8/28/18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 7.48 SU	CONDUCTIVITY: 537 umhos/cm	
			ORP: -180 mV	DO: 0.00 mg/L	
DEPTH TO WATER: 27.3 T/ PVC			TURBIDITY: 3.3 NTU		
DEPTH TO BOTTOM 70.00 T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 11.5 ☐ LITERS ☒ GALLONS			TEMPERATURE: 18.58 °C	OTHER:	
VOLUME REMOVED: 6 ☒ LITERS ☐ GALLONS			COLOR: clear	ODOR: NA	
COLOR: clear	ODOR: NA		FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY			FILTRATE COLOR: clear	FILTRATE ODOR: NA	
☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1520	200	7.39	511	-169	2.63	4.37	26.22	2.80	INITIAL
1525	200	7.31	501	-162	0.94	3.3	24.32	2.91	1
1530	200	7.36	519	-174	0.00	2.4	20.52	3.08	2
1535	200	7.43	527	-179	0.00	2.6	19.38	3.26	3
1540	200	7.46	534	-178	0.00	2.8	18.96	3.34	4
1545	200	7.47	536	-179	0.00	3.0	18.88	3.34	5
1550	200	7.48	537	-180	0.00	3.3	18.58	3.34	6

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☑ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☑ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	8/28/18	AIRBILL NUMBER:	
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	8/28/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/28 /18	BY: DZ DATE 9/12/18

SAMPLE ID: MW-25(R) WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1300	DATE: 8/ 28 /18	SAMPLE	TIME: 1345	DATE: 8/ 28 /18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 7.35 SU	CONDUCTIVITY: 625 umhos/cm	
			ORP: -123 mV	DO: 0.00 mg/L	
DEPTH TO WATER: 2.57 T/ PVC			TURBIDITY: 9.4 NTU		
DEPTH TO BOTTOM: 8.59 T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 1	☐ LITERS ☒ GALLONS		TEMPERATURE: 24.36 °C	OTHER:	
VOLUME REMOVED: 9	☒ LITERS ☐ GALLONS		COLOR: clear	ODOR: NA	
COLOR: Clear	ODOR: NA		FILTRATE (0.45 um) ☑ YES	☐ NO	
TURBIDITY			FILTRATE COLOR: Clear	FILTRATE ODOR: NA	
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY			QC SAMPLE: ☒ MS/MSD	☐ DUP-	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1300	200	7.42	566	-95	2.19	62.4	30.55	2.40	INITIAL
1305	200	7.37	587	-98	0.30	54.5	27.66	2.46	1
1310	200	7.35	596	-100	0.00	52.3	25.90	2.47	2
1315	200	7.35	600	-104	0.00	50.1	25.12	2.49	3
1320	200	7.35	607	-106	0.00	44.8	24.62	2.49	4
1325	200	7.35	611	-110	0.00	39.0	24.49	2.50	5
1330	200	7.34	614	-113	0.00	36.9	24.51	2.51	6
1335	200	7.34	620	-117	0.00	9.9	24.58	2.52	7
1340	200	7.35	624	-121	0.00	9.8	24.31	2.54	8
1345	200	7.35	625	-123	0.00	9.4	24.36	2.56	9

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
24	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
25	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
12	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	8/28/18	AIRBILL NUMBER:	
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	8/28/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/29 /18	BY: DZ DATE: 9/12/18

SAMPLE ID: MW-27s WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0920	DATE: 8/ 28 /18	SAMPLE	TIME: 0950	DATE: 8/ 28 /18 8/30/18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 7.47 SU	CONDUCTIVITY: 1100 umhos/cm	
			ORP: -9 mV	DO: 1.52 mg/L	
DEPTH TO WATER: 8.30 T/ PVC			TURBIDITY: 3.3 NTU		
DEPTH TO BOTTOM 13.17 T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 0.8 ☐ LITERS ☒ GALLONS			TEMPERATURE: 21.28 °C	OTHER:	
VOLUME REMOVED: 3 ☒ LITERS ☐ GALLONS			COLOR: clear	ODOR: NA	
COLOR: clear	ODOR: NA		FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY ☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR:	FILTRATE ODOR:	
			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS: BTEX + total DEHP collected 8/28/18, diss DEHP collected		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0920	100	6.39	1370	166	2.64	135	27.18	8.68	INITIAL 0
0925	100	6.92	1340	0	0.92	140	24.83	8.90	0.5
0930	100	7.19	1280	-33	0.42	76.3	21.59	9.28	1.0
0935	100	7.45	1100	-40	0.40	10.0	20.79	9.85	1.5
0940	100	7.47	1080	-8	1.46	4.9	20.83	10.45	2.0
0945	100	7.48	1100	-5	1.58	3.8	21.15	10.81	2.5
0950	100	7.47	1100	-9	1.52	3.3	21.28	11.10	3.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

8/28/18 0950 8/30/18

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/28/18 8/30/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 8/28/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JG, EO, JML DATE: 8/ 31 /18	BY: DZ DATE: 9/12/18

SAMPLE ID: MW-28i WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0855	DATE: 8/ 31 /18	SAMPLE	TIME: 0925	DATE: 8/ 31 /18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 7.05 SU	CONDUCTIVITY: 1060 umhos/cm	
			ORP: -150 mV	DO: 0.00 mg/L	
DEPTH TO WATER: 5.31 T/ PVC			TURBIDITY: 0.0 NTU		
DEPTH TO BOTTOM: 22.93 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 24 ☐ LITERS ☒ GALLONS			TEMPERATURE: 14.20 °C	OTHER:	
VOLUME REMOVED: 10.5 ☒ LITERS ☐ GALLONS			COLOR: Clear	ODOR: ND	
COLOR: Clear ODOR: ND			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY			FILTRATE COLOR: Clear	FILTRATE ODOR: NA	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0855	350	7.41	904	-121	2.00	0.6	16.50	5.31	INITIAL
0900	350	7.06	942	-129	0.09	0.0	15.08	5.31	1.75
0905	350	7.02	980	-135	0.00	0.0	14.61	5.31	3.5
0910	350	7.02	1020	-140	0.00	0.0	14.51	5.31	5.25
0915	350	7.04	1050	-145	0.00	0.0	14.40	5.31	7
0920	350	7.05	1060	-149	0.00	0.0	14.29	5.31	8.75
0925	350	7.05	1060	-150	0.00	0.0	14.20	5.31	10.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☑ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☑ N
				☐ Y ☑ N					☐ Y ☐ N
				☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/31/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE: Jeff Cipella	DATE SIGNED: 8/31/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/31/18	BY: DZ DATE: 9/12/18

SAMPLE ID: MW-28s WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0955	DATE: 8/31/18	SAMPLE	TIME: 1025	DATE: 8/31/18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 7.04 SU	CONDUCTIVITY: 931 umhos/cm	
			ORP: -139 mV	DO: 0.00 mg/L	
DEPTH TO WATER: 5.44 T/ PVC			TURBIDITY: 0.0 NTU		
DEPTH TO BOTTOM 17.75 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 2 ☐ LITERS ☒ GALLONS			TEMPERATURE: 15.25 °C	OTHER:	
VOLUME REMOVED: 10.5 ☒ LITERS ☐ GALLONS			COLOR: Clear	ODOR: ND	
COLOR: Clear ODOR: ND			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY			FILTRATE COLOR: Clear	FILTRATE ODOR: ND	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0955	350	6.91	941	-79	0.51	4.2	17.06	5.44	INITIAL
1000	350	6.98	931	-120	0.00	2.8	15.68	5.44	1.75
1005	350	7.00	930	-132	0.00	0.4	15.44	5.44	3.5
1010	350	7.02	931	-134	0.00	0.1	15.36	5.44	5.25
1015	350	7.02	931	-137	0.00	0.0	15.34	5.44	7
1020	350	7.03	931	-137	0.00	0.0	15.30	5.44	8.75
1025	350	7.04	931	-139	0.00	0.0	15.25	5.44	10.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or </= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☑ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☑ N
				☐ Y ☑ N					☐ Y ☐ N
				☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/31/18	AIRBILL NUMBER:			
COC NUMBER: NA	SIGNATURE: Jenifer Capella	DATE SIGNED: 8/31/18			

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML	DATE: 8/28/18	BY: DZ	DATE: 9/12/18

SAMPLE ID: MW-29s WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1105	DATE: 8/28/18	SAMPLE	TIME: 1135	DATE: 8/28/18
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER			PH: 6.89 SU	CONDUCTIVITY: 836 umhos/cm	
			ORP: -115 mV	DO: 0.00 mg/L	
DEPTH TO WATER: 6.93 T/ PVC			TURBIDITY: 0.0 NTU		
DEPTH TO BOTTOM 14.68 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 1.26 ☐ LITERS ☒ GALLONS			TEMPERATURE: 22.31 °C	OTHER:	
VOLUME REMOVED: 6 ☒ LITERS ☐ GALLONS			COLOR: clear	ODOR: NA	
COLOR: clear	ODOR: NA		FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR: clear	FILTRATE ODOR: NA	
			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1105	200	6.87	779	-109	4.89	0.7	25.17	7.00	INITIAL
1110	200	6.84	829	-109	0.19	0.0	23.83	6.93	1
1115	200	6.85	832	-112	0.00	0.0	23.19	6.98	2
1120	200	6.86	829	-113	0.00	0.0	23.23	7.00	3
1125	200	6.86	832	-115	0.00	0.0	22.37	7.00	4
1130	200	6.87	836	-115	0.00	0.0	22.22	7.00	5
1135	200	6.89	836	-115	0.00	0.0	22.31	7.00	6

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☑ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☑ N
				☐ Y ☑ N					☐ Y ☐ N
				☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/28/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 8/28/18

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/30/18	BY: DZ DATE: 9/12/18

SAMPLE ID: MW-30d — WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1112	DATE: 8/30/18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 2.55 T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 8 ☒ LITERS ☐ GALLONS

COLOR: Clear ODOR: None

TURBIDITY: ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

SAMPLE	TIME: 1200	DATE: 8/30/18

PH: 7.17 SU CONDUCTIVITY: 567 umhos/cm

ORP: -142 mV DO: 3.66 mg/L

TURBIDITY: 0.0 NTU (3p)

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 20.02 °C OTHER:

COLOR: Clear ODOR: None

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: None

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1120	200	7.40	544	-170	6.72	34.1	27.94	2.55	INITIAL
1125	200	7.17	554	-149	1.45	27.8	21.22	2.56	1
1130	200	7.16	564	-145	1.25	5.3	20.87	2.55	2
1135	200	7.17	566	-145	4.71	5.6	20.59	2.55	3
1140	200	7.16	565	-144	4.41	0.9	20.83	2.55	4
1145	200	7.17	565	-143	4.24	0.5	20.51	2.55	5
1150	200	7.16	564	-143	3.90	0.3	20.29	2.55	6
1155	200	7.16	567	-143	3.82	0.0	20.19	2.55	7
1200	200	7.17	567	-142	3.66	0.0	20.02	2.55	8
Samples									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10 % or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☑ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☑ N
				☐ Y ☑ N					☐ Y ☐ N
				☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/30/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 8/30/18

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/30/18	BY: DZ DATE: 9/12/18

SAMPLE ID: MW-30i WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1240	DATE: 8/30/18	SAMPLE	TIME: 1310	DATE: 8/30/18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 2.98 T/ PVC

DEPTH TO BOTTOM 18.21 T/ PVC

WELL VOLUME: 6 ☒ LITERS ☐ GALLONS

VOLUME REMOVED: 7.5 ☐ LITERS ☒ GALLONS

COLOR: ODOR:

TURBIDITY ☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 7.15 SU CONDUCTIVITY: 634 umhos/cm

ORP: -158 mV DO: 0.00 mg/L

TURBIDITY: 0.0 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 18.81 °C OTHER:

COLOR: Clear ODOR: NA

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: NA

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1240	200	7.32	534	-126	2.09	15.8	32.23	2.78	INITIAL
1245	200	7.16	585	-131	0.98	12.3	29.01	2.81	1
1250	200	7.15	628	-153	0.00	1.9	20.07	2.79	2
1255	200	7.14	633	-156	0.00	0.0	19.57	2.79	3
1300	200	7.11	633	-158	0.00	0.0	19.30	2.80	4
1305	200	7.15	634	-159	0.00	0.0	19.11	2.79	5
1310	200	7.15	634	-158	0.00	0.0	18.81	2.79	6

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☑ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☑ N
				☐ Y ☑ N					☐ Y ☐ N
				☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/30/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 8/30/18

REVISED 06/2011

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/ 30 /18	BY: DZ DATE: 9/12/18

SAMPLE ID: MW-30s(R) WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1355	DATE: 8/ 30 /18	SAMPLE	TIME: 1440	DATE: 8/ 30 /18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 7.15 SU	CONDUCTIVITY: 624 umhos/cm	
			ORP: -152 mV	DO: 0.00 mg/L	
DEPTH TO WATER: 2.81 T/ PVC			TURBIDITY: 0.0 NTU		
DEPTH TO BOTTOM 13.03 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 16	☐ LITERS	☒ GALLONS	TEMPERATURE: 24.01 °C	OTHER:	
VOLUME REMOVED: 11.25	☒ LITERS	☐ GALLONS	COLOR: NONE	ODOR: NONE	
COLOR: NONE	ODOR: NONE		FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR: clear	FILTRATE ODOR: NO	
			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1355	250	7.15	577	-129	2.77	10.6	24.05	2.81	INITIAL
1400	250	7.13	603	-139	0.36	12.0	21.89	2.82	1.25
1405	250	7.13	606	-143	0.00	14.1	20.64	2.61	2.5
1410	250	7.13	563	-148	0.00	10.7	24.04	2.61	3.75
1415	250	7.11	551	-151	0.00	13.5	24.34	2.61	5
1420	250	7.15	543	-150	0.00	6.9	24.32	2.61	6.25
1425	250	7.11	534	-152	0.00	4.2	24.70	2.62	7.5
1430	250	7.14	624	-152	0.00	0.0	24.49	2.63	8.75
1435	250	7.13	624	-152	0.00	0.0	24.34	2.63	10.0
1440	250	7.15	624	-152	0.00	0.0	24.01	2.63	11.25

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☑ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☑ N
				☐ Y ☑ N					☐ Y ☐ N
				☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/30/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 8/30/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML	DATE: 8/ 28 /18	BY: DZ	DATE: 9/12/18

SAMPLE ID: MW-31s WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1240	DATE: 8/ 28 /18	SAMPLE	TIME: 1310	DATE: 8/ 28 /18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 9.40 SU	CONDUCTIVITY: 497 umhos/cm	
			ORP: -249 mV	DO: 0.00 mg/L	
DEPTH TO WATER: 4.51 T/ PVC			TURBIDITY: 5.1 NTU		
DEPTH TO BOTTOM 10.32 T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 1	☐ LITERS ☒ GALLONS		TEMPERATURE: 28.30 °C	OTHER:	
VOLUME REMOVED: 3	☒ LITERS ☐ GALLONS		COLOR: Clear	ODOR: ND	
COLOR: Clear	ODOR: ND		FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY			FILTRATE COLOR: Clear	FILTRATE ODOR: ND	
☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1240	100	9.31	476	-220	1.25	6.1	25.49	5.07	INITIAL
1245	100	9.47	477	-226	0.92	5.4	26.43	5.67	0.5
1250	100	9.47	480	-225	0.40	5.0	27.94	5.99	1.0
1255	100	9.42	499	-240	0.13	5.1	28.13	6.26	1.5
1300	100	9.42	497	-243	0.08	5.0	28.36	6.51	2.0
1305	100	9.40	496	-246	0.00	5.3	28.34	6.78	2.5
1310	100	9.40	497	-249	0.00	5.1	28.30	6.93	3.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☑ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☑ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☑ N
				☐ Y ☑ N					☐ Y ☐ N
				☑ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/28/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE: Jenifer Cipella	DATE SIGNED: 8/28/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/ 28 /18	BY: DZ DATE: 9/12/18

SAMPLE ID: MW-32s WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0916	DATE: 8/ 28 /18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER	
DEPTH TO WATER: 5.96 T/ PVC		
DEPTH TO BOTTOM 10.42 T/ PVC		
WELL VOLUME: 0.7	☐ LITERS ☒ GALLONS	
VOLUME REMOVED: 3	☒ LITERS ☐ GALLONS	
COLOR: Clear	ODOR: ND	
TURBIDITY		
☐ NONE ☒ SLIGHT	☐ MODERATE ☐ VERY	
DISPOSAL METHOD	☐ GROUND ☐ DRUM ☑ OTHER	

SAMPLE	TIME: 0946	DATE: 8/ 28 /18
PH: 6.45 SU	CONDUCTIVITY: 902 umhos/cm	
ORP: -112 mV	DO: 1.40 mg/L	
TURBIDITY: 3.1 NTU		
☐ NONE ☒ SLIGHT	☐ MODERATE ☐ VERY	
TEMPERATURE: 24.58 °C	OTHER:	
COLOR: Clear	ODOR: ND	
FILTRATE (0.45 um) ☑ YES	☐ NO	
FILTRATE COLOR: Clear	FILTRATE ODOR: NA	
QC SAMPLE: ☐ MS/MSD	☒ DUP- 04 0950	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0916	100	6.63	899	-129	5.38	5.3	24.53	6.79	INITIAL
0921	100	6.45	897	-115	2.88	3.9	23.91	6.92	0.5
0926	100	6.44	896	-112	2.62	3.5	24.11	7.25	1.0
0931	100	6.45	897	-111	2.22	3.3	24.10	7.38	1.5
0936	100	6.45	897	-111	1.97	3.1	24.32	7.54	2.0
0941	100	6.45	899	-111	1.73	3.1	24.49	7.63	2.5
0946	100	6.45	902	-112	1.40	3.1	24.58	7.79	3.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☑ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☑ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☑ N
				☐ Y ☑ N					☐ Y ☐ N
				☑ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/28/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 8/28/18

REVISED 06/2011

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EC, JML DATE: 8/ 30 /18	BY: DZ DATE: 9/12/18

SAMPLE ID: MW-33s WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0910	DATE: 8/ 30 /18	SAMPLE	TIME: 0950	DATE: 8/ 30 /18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 6.18 SU	CONDUCTIVITY: 448 umhos/cm	
			ORP: -65 mV	DO: 0.76 mg/L	
DEPTH TO WATER: 6.34 T/ PVC			TURBIDITY: 1.3 NTU		
DEPTH TO BOTTOM 10.34 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 0.65 ☐ LITERS ☒ GALLONS			TEMPERATURE: 21.03 °C	OTHER:	
VOLUME REMOVED: 3.5 ☒ LITERS ☐ GALLONS			COLOR: Clear	ODOR: Slight	
COLOR: Light brown ODOR: Slight			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY ☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY			FILTRATE COLOR: Clear	FILTRATE ODOR: Slight	
			QC SAMPLE: ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0915	100	6.12	440	-85	10.47	112	22.90	6.82	INITIAL
0920	100	6.10	442	-75	2.03	96.5	21.33	7.15	0.5
0925	100	6.09	440	-69	1.60	55.6	21.14	7.23	1.0
0930	100	6.11	444	-65	1.29	32.3	20.96	7.36	1.5
0935	100	6.11	445	-62	1.07	6.3	20.99	7.44	2.0
0940	100	6.13	446	-62	0.99	4.0	21.05	7.52	2.5
0945	100	6.16	448	-62	0.86	3.0	21.09	7.63	3.0
0950	100	6.18	448	-65	0.76	1.3	21.03	7.75	3.5
				Samples					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☑ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☑ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☑ N
				☐ Y ☑ N					☐ Y ☐ N
				☑ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/30/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 8/30/18

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MW-34S

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/27/18	BY: DZ DATE: 9/12/18

SAMPLE ID: MW-34s WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1038	DATE: 8/27/18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER	
DEPTH TO WATER: 5.85 T/ PVC		
DEPTH TO BOTTOM: 10.33 T/ PVC		
WELL VOLUME: 0.73 ☐ LITERS ☒ GALLONS		
VOLUME REMOVED: 5 ☒ LITERS ☐ GALLONS		
COLOR: Clear	ODOR: None	
TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER		

SAMPLE	TIME: 1128	DATE: 8/27/18
PH: 6.81 SU	CONDUCTIVITY: 894 umhos/cm	
ORP: -51 mV	DO: 0.0 mg/L	
TURBIDITY: 0.0 NTU		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: 22.56 °C	OTHER: -51	
COLOR: Clear	ODOR: None	
FILTRATE (0.45 um) ☑ YES ☐ NO		
FILTRATE COLOR: Clear	FILTRATE ODOR: None	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1036	100	6.64	753	-114	4.25	4.9	22.30	6.45	INITIAL
1043	100	6.63	767	-94	1.13	4.5	21.42	6.44	0.5 L
1048	100	6.73	~~744~~ 794	-83	0.85	2.4	22.25	6.38	1.0 L
1053	100	6.76	809	-80	0.75	1.7	22.20	6.33	1.5 L
1056	100	6.79	830	-75	0.49	0.9	22.22	6.33	2.0 L
1103	100	6.80	851	-69	0.35	0.5	22.35	6.32	2.5 L
1106	100	6.81	861	-64	0.25	0.3	22.37	6.32	3.0 L
1113	100	6.81	878	-61	0.12	0.2	22.45	6.31	3.5 L
1118	100	6.81	890	-57	0.01	0.1	22.47	6.32	4.0 L
1123	100	6.81	892	-53	0.00	0.0	22.53	6.32	4.5 L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☑ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☑ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☑ N
				☐ Y ☑ N					☐ Y ☐ N
				☑ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/27/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 8/27/18

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WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: LE Carpenter & Co.	PREPARED		CHECKED	
PROJECT NUMBER: 293107.00	BY: JML	DATE: 8/27/18	BY: DL	DATE: 9/12/18

SAMPLE ID: MW-345

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
JML 1148 ~~1428~~	1000	6.81	894	-51	0.00	0.0	22.56	6.32	1.39 ~~5000~~ JML 5L
~~Ø~~				~~Samples~~			~~22.36~~		

SIGNATURE: [signature]

DATE SIGNED: 8/27/18

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/ 27/18	BY: DZ DATE: 9/12/18

SAMPLE ID: MW-35s WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1302	DATE: 8/ 27 /18	SAMPLE	TIME: 1427	DATE: 8/ 27 /18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 7.09 SU	CONDUCTIVITY: 618 umhos/cm	
			ORP: -111 mV	DO: 0.88 mg/L	
DEPTH TO WATER: 4.28 T/ PVC			TURBIDITY: 0.3 NTU		
DEPTH TO BOTTOM 10.29 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 1	☐ LITERS ☒ GALLONS		TEMPERATURE: 21.98 °C	OTHER:	
VOLUME REMOVED: 8.5	☒ LITERS ☐ GALLONS		COLOR: Clear	ODOR: NA	
COLOR: clear	ODOR: NA		FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY			FILTRATE COLOR: Clear	FILTRATE ODOR: NA	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD	☒ DUP- 02	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1302	100	7.23	564	-128	6.21	4.4	26.55	5.17	INITIAL
1307	100	7.04	586	-108	6.45	3.7	24.66	5.22	0.5
1312	100	7.03	600	-106	6.16	3.5	24.44	5.16	1.0
1317	100	7.04	601	-106	5.69	2.8	23.73	5.19	1.5
1322	100	7.06	606	-105	6.21	2.4	23.35	5.19	2.0
1327	100	7.08	608	-105	5.61	1.8	22.91	5.21	2.5
1332	100	7.07	609	-105	5.23	1.5	22.61	5.22	3.0
1337	100	7.09	614	-106	5.01	1.6	22.57	5.22	3.5
1342	100	7.07	615	-107	3.86	1.4	22.17	5.23	4.0
1347	100	7.08	616	-107	3.27	1.4	22.37	5.24	4.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☑ N
4	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☑ N
2	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☑ N
				☐ Y ☑ N					☐ Y ☐ N
				☑ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/27/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 8/27/18

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WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LE Carpenter & Co.	PREPARED		CHECKED	
PROJECT NUMBER:	293107.00	BY: JML	DATE: 8/27/18	BY: DZ	DATE: 9/12/18

SAMPLE ID: MW-35S

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1352	100	7.07	~~618~~ 619	-106	2.61	1.4	22.49	5.23	5.0
1357	100	7.07	617	-110	2.24	1.4	22.35	5.24	5.5
1402	100	7.06	619	-110	1.95	0.8	22.23	5.26	6.0
1407	100	7.07	619	-110	1.66	0.7	22.13	5.28	6.5
1412	100	7.07	620	-111	1.34	0.6	21.97	5.30	7.0
1417	100	7.07	619	-110	1.15	0.5	21.92	5.31	7.5
1422	100	7.08	620	-111	0.99	0.5	21.93	5.33	8.0
1427	100	7.06	618	-111	0.88	0.3	21.98	5.35	8.5

Samples

SIGNATURE: [signature]

DATE SIGNED: 8/27/18

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/27/18	BY: ~~EO~~ DZ DATE: 9/12/18

SAMPLE ID: TMW-01 WELL DIAMETER: ☐ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1035	DATE: 8/27/18	SAMPLE	TIME: 1105	DATE: 8/27/18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 2.88 T/ PVC

DEPTH TO BOTTOM 9.25 T/ PVC

WELL VOLUME: 1 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 3 ☒ LITERS ☐ GALLONS

COLOR: CLEAR/COLORLESS ODOR: NONE

TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 7.25 SU CONDUCTIVITY: 537 umhos/cm

ORP: -154 mV DO: 0.00 mg/L

TURBIDITY: ~~2.1~~ NTU 2.0 3p.

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 18.83 °C OTHER:

COLOR: NONE ODOR: NONE

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: NONE FILTRATE ODOR: NONE

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1035	375	7.19	536	-151	3.86	49.1	21.39	3.58	INITIAL
1040	375	7.17	533	-150	0.98	13.6	18.30	4.25	0.5
1045	375	7.19	535	-148	0.19	7.2	18.19	4.19	1.0
1050	375	7.19	536	-153	0.11	3.7	17.96	4.20	1.5
1055	375	7.23	537	-153	0.06	2.2	18.94	3.72	2.0
1100	375	7.24	537	-153	0.00	1.6	18.69	3.60	2.5
1105	375	7.25	537	-154	0.00	2.0	18.79	3.62	3

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10 % or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/27/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 8/27/18

REVISED 06/2011

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/ 27 /18	BY: DZ DATE: 9/12/18

SAMPLE ID: TMW-02 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1245	DATE: 8/ 27 /18	SAMPLE	TIME: 1130	DATE: 8/ 30 /18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 6.86 SU	CONDUCTIVITY: 686 umhos/cm	
			ORP: -139 mV	DO: 0.19 mg/L	
DEPTH TO WATER: 4.64 T/ PVC			TURBIDITY: 2.1 NTU		
DEPTH TO BOTTOM 9.30 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 0.76 ☐ LITERS ☒ GALLONS			TEMPERATURE: 32.64 °C	OTHER:	
VOLUME REMOVED: 4 ☒ LITERS ☐ GALLONS			COLOR: NONE	ODOR: SL. CHEM-LIKE	
COLOR: NONE	ODOR: SL. CHEM-LIKE		FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY ☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR: NONE	FILTRATE ODOR: SL. CHEM-LIKE	
			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS: SLIGHLY CHEMICAL-LIKE ODOR		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1245		7.20	794	-131	1.93	127	26.55	4.70	INITIAL
1250		6.91	764	-116	0.78	148	22.81	5.20	0.25
1255		6.91	760	-114	0.36	102	21.82	5.58	0.5
1300		6.93	765	-116	0.15	72.5	21.58	6.08	0.75
1305		6.92	782	-119	0.05	62.9	22.48	6.53	0.80
1310		6.90	796	-118	0.00	63.3	22.40	6.82	0.90
1315		6.89	795	-120	0.00	74.1	23.80	6.85	0.95
1320		6.92	789	-121	0.00	72.2	23.39	7.01	1.0
1325		6.92	780	-122	0.00	71.3	23.41	7.25	1.15
1330		6.94	773	-123	0.00	87.0	23.07	7.60	1.25

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/30/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 8/30/18

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WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LE Carpenter & Co.	PREPARED		CHECKED	
PROJECT NUMBER:	293107.00	BY: EO	DATE: 8/27/18	BY: DL	DATE: 9/12/18

SAMPLE ID: TMW-02

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1335		6.94	777	-123	0.00	98.8	22.82	7.75	
1340		6.95	787	-122	0.00	110	22.32	7.81	
1345		6.96	784	-122	0.00	150	21.73	8.00	
1350		6.97	780	-124	0.00	162	22.06	BELOW TOP OF PUMP	
1050	100	7.09	683	-129	0.20	32.0	29.76	5.20	—
1055	100	6.90	681	-130	0.88	37.4	29.88	5.88	0.5
1100	100	6.89	684	-133	0.52	20.1	30.33	5.95	1.0
1105	100	6.88	685	-135	0.36	14.5	30.91	6.00	1.5
1110	100	6.89	685	-136	0.28	6.1	31.21	6.03	2.0
1115	100	6.88	685	-136	0.23	5.5	31.49	6.08	2.5
1120	100	6.88	685	-138	0.20	4.6	32.50	6.13	3.0
1125	100	6.87	686	-139	0.19	3.5	32.58	6.15	3.5
1130	100	6.86	686	-139	0.19	2.1	32.64	6.18	4.0

SIGNATURE: [signature] DATE SIGNED: 8/30/18

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/27 /18	BY: DZ DATE: 9/12/18

SAMPLE ID: TMW-03 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1410	DATE: 8/30 /18	SAMPLE	TIME: 0950	DATE: 8/30 /18

PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER	PH: 6.64 SU	CONDUCTIVITY: 507 umhos/cm
		ORP: -73 mV	DO: 0.00 mg/L
DEPTH TO WATER: 3.70 T/ PVC		TURBIDITY: 6.1 NTU	
DEPTH TO BOTTOM 9.19 T/ PVC		☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	
WELL VOLUME: 0.9 ☐ LITERS ☒ GALLONS		TEMPERATURE: 23.60 °C	OTHER:
VOLUME REMOVED: 5 ☒ LITERS ☐ GALLONS		COLOR: NONE	ODOR: CHEMICAL-LIKE
COLOR: BLACK	ODOR: CHEM-LIKE	FILTRATE (0.45 um) ☑ YES ☐ NO	
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY		FILTRATE COLOR: NONE	FILTRATE ODOR: CHEMICAL-LIKE
		QC SAMPLE: ☐ MS/MSD	☐ DUP-
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER		COMMENTS: STRONG ODOR, SHEEN ON TOP OF WATER	

BEGAN PURGE ON 8/27, DEVELOPED ON 8/29, SAMPLED ON 8/30

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1410		6.88	682	-109	0.85	0.0	21.88	4.70	INITIAL
1415		6.87	679	-110	0.57	>1000	21.42	5.00	
1420		6.86	678	-111	0.28	747	21.12	5.21	
1425		6.99	673	-96	0.30	691	21.67	5.43	
1430		6.89	654	-97	0.27	824	21.24	5.60	
1435		6.87	647	-107	0.00	0.0	20.77	6.30	
1440		6.88	636	-107	0.00	>1000	20.73	6.49	
1445		6.85	623	-109	0.00	718	20.71	7.01	
1450		6.91	626	-105	0.62	0.0	21.22	7.20	
1455		6.95	688	-114	0.12	>1000	20.82	7.74	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	8/30/18	AIRBILL NUMBER:	
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	8/30/18

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WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: LE Carpenter & Co.	PREPARED		CHECKED	
PROJECT NUMBER: 293107.00	BY: EO	DATE: 8/28/18 8/30/18	BY:	DATE:

SAMPLE ID: TMW-03

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
8/28	0915	150	7.22	660	-139	1.15	>1000	24.21	4.90	
	0920	150	7.00	608	-121	0.60	803	24.00	5.28	
	0925	150	6.90	582	-100	0.41	732	23.95	5.62	
	0930	150	6.84	526	-96	0.19	112	23.55	5.85	
	0935	150	6.76	510	-86	0.00	97.2	23.05	6.10	
	0940	150	6.75	500	-82	0.00	114	23.10	6.59	
	0945	150	6.79	499	-87	0.00	249	23.62	7.03	
	0950	150	6.74	509	-95	0.00	259	23.56	7.41	
					LET WELL RECHARGE					
8/28	1015	150	6.74	506	-85	0.00	400	24.48	7.19	
	1020	150	6.74	505	-84	0.00	627	24.51	7.43	
8/30	0900	100	6.88	484	-64	1.05	153	24.23	5.00	N/A
	0905	100	6.72	487	-76	0.32	140	23.96	5.17	0.5
	0910	100	6.69	494	-79	0.00	43.0	23.61	5.25	1.0
	0915	100	6.68	497	-80	0.00	42.1	23.44	5.30	1.5
	0920	100	6.68	498	-80	0.00	40.0	23.40	5.33	2.0
	0925	100	6.72	506	-77	0.00	12.1	23.04	5.45	2.5
	0930	100	6.70	505	-75	0.00	9.3	23.04	5.49	3.0
	0935	100	6.66	502	-72	0.00	15.2	23.04	5.60	3.5
	0940	100	6.66	503	-75	0.00	9.9	23.42	5.64	4.0
	0945	100	6.65	507	-77	0.00	8.3	23.55	5.70	4.5
	0950	100	6.64	507	-73	0.00	6.1	23.60	5.72	5.0

SIGNATURE: [signature] DATE SIGNED: 8/30/18

REVISED 06/2011

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/28 /18	BY: DZ DATE: 9/12/18

SAMPLE ID: TMW-04 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1100	DATE: 8/ 28 /18	SAMPLE	TIME: 1130	DATE: 8/ 28 /18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 6.71 SU	CONDUCTIVITY: 713 umhos/cm	
			ORP: -93 mV	DO: 0.00 mg/L	
DEPTH TO WATER: 4.91 T/ PVC			TURBIDITY: 7.9 NTU		
DEPTH TO BOTTOM 9.10 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 0.7 ☐ LITERS ☒ GALLONS			TEMPERATURE: 25.68 °C	OTHER:	
VOLUME REMOVED: 3.75 ☒ LITERS ☐ GALLONS			COLOR: COLORLESS	ODOR: NONE	
COLOR: COLORLESS	ODOR: NONE		FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY			FILTRATE COLOR: COLORLESS	FILTRATE ODOR:	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
1100	125	6.84	692	-85	1.49	6.0	25.39	4.91	INITIAL	
1105	125	6.72	693	-92	0.57	7.0	25.07	4.83	~~0.1~~	0.625
1110	125	6.71	707	-95	0.00	7.8	24.94	4.85	~~0.15~~	1.25
1115	125	6.71	~~710~~	-95	0.00	8.1	25.33	4.86	~~0.25~~	1.875
1120	125	6.71	712	-93	0.00	7.4	25.33	4.90	~~0.3~~	2.5
1125	125	6.70	712	-93	0.00	7.7	25.57	4.91	~~0.4~~	3.125
1130	125	6.71	713	-93	0.00	7.9	25.68	4.92	~~0.5~~	3.75

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/28/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 8/28/18

REVISED 06/2011

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, (EO) JML DATE: 8/ /18	BY: DZ DATE: 9/12/18

SAMPLE ID: TMW-05 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1215	DATE: 8/ 28 /18	SAMPLE	TIME: 1310	DATE: 8/ 28 /18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 6.88 SU	CONDUCTIVITY: 643 umhos/cm	
			ORP: -92 mV	DO: 0.00 mg/L	
DEPTH TO WATER: 3.81 T/ PVC			TURBIDITY: 8.1 NTU		
DEPTH TO BOTTOM 9.10 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 0.86 ☐ LITERS ☒ GALLONS			TEMPERATURE: 29.12 °C	OTHER:	
VOLUME REMOVED: 5.5 ☒ LITERS ☐ GALLONS			COLOR: NONE	ODOR: NONE	
COLOR: COLORLESS	ODOR: NONE		FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY			FILTRATE COLOR: NONE	FILTRATE ODOR: NONE	
☒ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD	☒ DUP- 03	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1215	100	6.92	680	-105	1.71	>1000	26.76	3.81	INITIAL
1220	100	6.92	679	-106	0.66	>1000	26.77	3.81	~~0.1~~ 0.5
1225	100	6.92	682	-104	0.33	738	26.00	3.81	~~0.2~~ 1
1230	100	6.92	681	-102	0.19	543	25.79	3.82	~~0.3~~ 1.5
1235	100	6.93	653	-98	0.22	114	26.61	3.83	~~0.4~~ 2
1240	100	6.95	650	-91	0.36	76.8	28.63	3.85	~~0.5~~ 2.5
1245	100	6.90	652	-97	0.58	56.4	28.45	3.84	~~0.6~~ 3
1250	100	6.89	647	-97	0.00	26.2	28.71	3.80	~~0.7~~ 3.5
1255	100	6.89	644	-96	0.00	10.3	28.80	3.81	~~0.8~~ 4
1300	100	6.88	645	-95	0.00	6.7	28.99	3.81	~~0.9~~ 4.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or </= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/28/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 8/28/18

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WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LE Carpenter & Co.	PREPARED		CHECKED	
PROJECT NUMBER:	293107.00	BY: EO	DATE: 8/28/18	BY: DZ	DATE: 9/12/18

SAMPLE ID: TMW-05 | DUP-03

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1305	100	6.88	643	-92	0.00	7.7	29.36	3.82	TD 5
1310	100	6.88	643	-92	0.00	8.1	29.12	3.82	5.5

SIGNATURE: [signature]

DATE SIGNED: 8/28/18

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, (EO) JML DATE: 8/29 /18	BY: DZ DATE: 9/12/18

SAMPLE ID: TMW-06 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0920	DATE: 8/ 29 /18	SAMPLE	TIME: 0955	DATE: 8/ 29 /18
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER			PH: 6.81 SU	CONDUCTIVITY: 560 umhos/cm	
			ORP: ~~550~~ -109 mV	DO: 0.00 mg/L	
DEPTH TO WATER: 3.45 T/ PVC			TURBIDITY: 7.1 NTU		
DEPTH TO BOTTOM 9.05 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 0.9 ☐ LITERS ☒ GALLONS			TEMPERATURE: 23.95 °C	OTHER:	
VOLUME REMOVED: 3.5 ☒ LITERS ☐ GALLONS			COLOR: NONE	ODOR: NONE	
COLOR: NONE ODOR: NONE			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR: NONE	FILTRATE ODOR: NONE	
			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0920	100	6.50	534	-47	4.85	93.1	24.70	3.45	INITIAL
0925	100	6.35	524	-26	3.73	92.9	25.21	3.50	0.5
0930	100	6.75	540	-89	0.28	55.7	24.63	3.49	1.0
0935	100	6.82	546	-107	0.00	15.9	24.34	3.50	1.5
0940	100	6.83	548	-108	0.00	10.1	24.26	3.50	2.0
0945	100	6.82	549	-109	0.00	7.9	24.17	3.50	2.5
0950	100	6.82	549	-109	0.00	8.6	24.08	3.48	3.0
0955	100	6.81	550	-109	0.00	7.1	23.95	3.50	3.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/29/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 8/29/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/28/18	BY: DZ DATE: 9/12/18

SAMPLE ID: TMW-007 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1455	DATE: 8/28/18	SAMPLE	TIME: 1525	DATE: 8/28/18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 3.00 T/ PVC

DEPTH TO BOTTOM 8.99 T/ PVC

WELL VOLUME: ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 4.5 ☒ LITERS ☐ GALLONS

COLOR: NONE ODOR: NONE

TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: ~~1525~~ 4.22 SU CONDUCTIVITY: 495 umhos/cm SP

ORP: -136 mV DO: 0.00 mg/L

TURBIDITY: 0.0 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 28.64 °C OTHER:

COLOR: NONE ODOR: NONE

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ~~☑ DUP-02~~ NONE

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1455	150	7.54	506	-127	3.19	13.5	29.33	3.00	INITIAL
1500	150	7.32	496	-127	1.51	6.3	30.27	3.25	.750
1505	150	7.29	496	-130	0.12	4.4	29.52	3.18	1.5
1510	150	7.28	497	-131	0.00	3.2	29.50	3.10	2.25
1515	150	7.26	497	-136	0.00	0.0	29.13	3.01	3.0
1520	150	7.25	496	-136	0.00	0.0	28.79	3.04	3.75
1525	150	7.22	495	-136	0.00	0.0	28.64	3.02	4.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10 % or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/28/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 8/28/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML DATE: 8/ 29 /18	BY: DZ DATE: 9/12/18

SAMPLE ID: TMW-08

WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1100	DATE: 8/ 29 /18	SAMPLE	TIME: 1130	DATE: 8/ 29 /18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 2.44 T/ PVC

DEPTH TO BOTTOM: 9.11 T/ PVC

WELL VOLUME: 1 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 3.0 ☒ LITERS ☐ GALLONS

COLOR: NONE ODOR: NONE

TURBIDITY: ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 6.93 SU CONDUCTIVITY: 524 umhos/cm

ORP: -122 mV DO: 0.00 mg/L

TURBIDITY: 0.0 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 22.81 °C OTHER:

COLOR: NONE ODOR: NONE

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: NONE FILTRATE ODOR: NONE

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1100	100	7.01	488	-106	2.39	18.3	25.04	2.44	INITIAL
1105	100	6.94	511	-112	1.31	11.0	23.82	2.49	0.5
1110	100	6.92	521	-114	0.00	3.1	23.36	2.50	1.0
1115	100	6.93	523	-117	0.00	0.0	23.10	2.52	1.5
1120	100	6.93	524	-119	0.00	0.0	22.95	2.52	2.0
1125	100	6.93	524	-121	0.00	0.0	22.87	2.53	2.5
1130	100	6.93	524	-122	0.00	0.0	22.81	2.53	3.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/29/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 8/29/18

REVISED 06/2011

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/ 29 /18	BY: DZ DATE: 9/12/18

SAMPLE ID: TMW-09 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1220	DATE: 8/ 29 /18	SAMPLE	TIME: 1250	DATE: 8/ 29 /18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 6.93 SU	CONDUCTIVITY: 535 umhos/cm	
			ORP: -137 mV	DO: 0.71 mg/L	
DEPTH TO WATER: 2.24 T/ PVC			TURBIDITY: 0.0 NTU		
DEPTH TO BOTTOM 9.12 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 1 ☐ LITERS ☒ GALLONS			TEMPERATURE: 25.25 °C	OTHER:	
VOLUME REMOVED: 3.0 ☒ LITERS ☐ GALLONS			COLOR: NONE	ODOR: NONE	
COLOR: NONE ODOR: NONE			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY			FILTRATE COLOR: NONE	FILTRATE ODOR: NONE	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1220	100	6.93	511	-112	10.09	2.7	22.60	2.24	INITIAL
1225	100	6.91	527	-123	7.15	0.0	22.88	2.75	0.5
1230	100	6.91	531	-127	3.06	0.0	23.74	2.74	1.0
1235	100	6.92	533	-132	1.19	0.0	24.63	2.70	1.5
1240	100	6.93	534	-134	0.89	0.0	25.11	2.71	2.0
1245	100	6.93	534	-136	0.79	0.0	25.17	2.70	2.5
1250	100	6.93	535	-137	0.71	0.0	25.25	2.71	3.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or </= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/29/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 8/29/18

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TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 8/ 29 /18	BY: DZ DATE: 9/12/18

SAMPLE ID: TMW-10 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1405	DATE: 8/ 29 /18	SAMPLE	TIME: 1440	DATE: 8/ 29 /18
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER			PH: 6.82 SU	CONDUCTIVITY: 620 umhos/cm	
			ORP: -98 mV	DO: 0.00 mg/L	
DEPTH TO WATER: 3.41 T/ PVC			TURBIDITY: 8.9 NTU		
DEPTH TO BOTTOM 9.10 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 1 ☐ LITERS ☒ GALLONS			TEMPERATURE: 24.27 °C	OTHER:	
VOLUME REMOVED: 3.5 ☒ LITERS ☐ GALLONS			COLOR: NONE	ODOR: NONE	
COLOR: NONE ODOR: NONE			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR: NONE	FILTRATE ODOR: NONE	
			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1405	100	7.25	496	-88	4.41	137	29.31	3.41	INITIAL
1410	100	7.08	520	-93	0.34	74.2	26.57	3.57	0.5
1415	100	7.00	535	-86	0.16	16.4	24.32	3.71	1.0
1420	100	6.91	576	-92	0.00	9.2	23.69	3.90	1.5
1425	100	6.90	613	-96	0.00	6.0	23.52	4.10	2.0
1430	100	6.85	619	-98	0.00	9.1	24.39	4.08	2.5
1435	100	6.83	621	-99	0.00	9.8	24.57	4.00	3.0
1440	100	6.82	620	-98	0.00	8.9	24.27	3.95	3.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 8/29/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 8/29/18

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DKG199

74/8487

PINE

ORDER CONFIRMATION

RENTAL

Pine Environmental Services LLC
92 North Main St. - Building #20
Windsor, NJ - 08561
Main: (609) 371-9663 Toll Free: (800) 301-9663
Fax: (609) 371-1663
www.pine-environmental.com

Order Date
08/23/18

Order #
C382794

Ship Date
08/24/18

Requested Date

Begin Date
08/27/18

Requested Time

Customer
TRC
Attn.: Accounts Payable, 21 Griffin Road North
WINDSOR, CT - 06095
United States

Ship To
TRC
41 SPRING STREET
SUITE 102
NEW PROVIDENCE, NJ - 07974
United States
Attn: Jen Crapella
Phone: 973-248-7453

Prepared By
Martin Diaz

Email:jcrapella@trcsolutions.com

Customer #
23700006

Project #

Payment Terms
Net 30 Days

Ordered By
JEN CRAPELLA
973-248-7453

Currency
USD US Dollar

Purchase Order #
120167

Delivery Method
Pine Driver

Item #	Type	Description	Qty	U/M	Whse
51666	RENTAL	Horiba U52-2 Water Quality Meter Sonde	1	EA	R01
61206	RENTAL	Horiba U-50 Series Handset	1	EA	R01
90142	RENTAL	Flow Cell; Complete U/W-50	1	EA	R01
NJCERT	SALES	NJCERT	1.00	EA	R01
51666	RENTAL	Horiba U52-2 Water Quality Meter Sonde	1	EA	R01
61206	RENTAL	Horiba U-50 Series Handset	1	EA	R01
90142	RENTAL	Flow Cell; Complete U/W-50	1	EA	R01
NJCERT	SALES	NJCERT	1.00	EA	R01
51666	RENTAL	Horiba U52-2 Water Quality Meter Sonde	1	EA	R01
61206	RENTAL	Horiba U-50 Series Handset	1	EA	R01
90142	RENTAL	Flow Cell; Complete U/W-50	1	EA	R01
NJCERT	SALES	NJCERT	1.00	EA	R01

~~72~~ 75 | ~~84~~ 87

PINE

ORDER CONFIRMATION

RENTAL

Pine Environmental Services LLC
92 North Main St. - Building #20
Windsor, NJ - 08561
Main: (609) 371-9663 Toll Free: (800) 301-9663
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Order Date
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08/27/18

Order #
C382794
Requested Date

Requested Time

Customer
TRC
Attn.: Accounts Payable, 21 Griffin Road North
WINDSOR, CT - 06095
United States

Ship To
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SUITE 102
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Email:jcrapella@trcsolutions.com

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120167

Payment Terms
Net 30 Days
Delivery Method
Pine Driver

Ordered By
JEN CRAPELLA
973-248-7453

Item #	Type	Description	Qty	U/M	Whse
51701	RENTAL	WLM- 100'- Solinst Model 101 P2/M2	1	EA	R01
51701	RENTAL	WLM- 100'- Solinst Model 101 P2/M2	1	EA	R01
51860	RENTAL	PINE Peri-Pump (DC Only)	1	EA	R01
90238	RENTAL	12V Rechargeable Battery (small in bag)	1	EA	R01
61223	RENTAL	QED SampPro Bladder Pump 1.75"	1	EA	R01
61223	RENTAL	QED SampPro Bladder Pump 1.75"	1	EA	R01
61223	RENTAL	QED SampPro Bladder Pump 1.75"	1	EA	R01
61159	RENTAL	12V Marine Battery	1	EA	R01
61160	RENTAL	12V Marine Battery Charger	1	EA	R01
61159	RENTAL	12V Marine Battery	1	EA	R01
61160	RENTAL	12V Marine Battery Charger	1	EA	R01
61159	RENTAL	12V Marine Battery	1	EA	R01

76
~~73~~ 84 87

PINE

ORDER CONFIRMATION

RENTAL

Pine Environmental Services LLC
92 North Main St. - Building #20
Windsor, NJ - 08561
Main: (609) 371-9663 Toll Free: (800) 301-9663
Fax: (609) 371-1663
www.pine-environmental.com

Order Date
08/23/18
Ship Date
08/24/18
Begin Date
08/27/18

Order #
C382794
Requested Date

Requested Time

Customer
TRC
Attn.: Accounts Payable, 21 Griffin Road North
WINDSOR, CT - 06095
United States

Ship To
TRC
41 SPRING STREET
SUITE 102
NEW PROVIDENCE, NJ - 07974
United States
Attn: Jen Crapella
Phone: 973-248-7453

Prepared By
Martin Diaz

Email:jcrapella@trcsolutions.com

Customer #
23700006
Currency
USD US Dollar

Project #

Purchase Order #
120167

Payment Terms
Net 30 Days
Delivery Method
Pine Driver

Ordered By
JEN CRAPELLA
973-248-7453

Item #	Type	Description	Qty	U/M	Whse
61160	RENTAL	12V Marine Battery Charger	1	EA	R01
51882	RENTAL	Controller/Compressor QED MP50	1	EA	R01
51882	RENTAL	Controller/Compressor QED MP50	1	EA	R01
51882	RENTAL	Controller/Compressor QED MP50	1	EA	R01

74/84

PINE

ORDER CONFIRMATION

SALES

77/87

Pine Environmental Services LLC
92 North Main St. - Building #20
Windsor, NJ - 08561
Main: (609) 371-9663 Toll Free: (800) 301-9663
Fax: (609) 371-1663
www.pine-environmental.com

Order Date
08/23/18

Ship Date
08/24/18

Order #
C382794

Requested Date

Requested Time

Customer
TRC
Attn.: Accounts Payable, 21 Griffin Road North
WINDSOR, CT - 06095
United States

Ship To
TRC
41 SPRING STREET
SUITE 102
NEW PROVIDENCE, NJ - 07974
United States
Attn: Jen Crapella
Phone: 973-248-7453

Prepared By
Martin Diaz

Email:jcrapella@trcsolutions.com

Customer #
23700006

Project #

Payment Terms
Net 30 Days

Ordered By
JEN CRAPELLA
973-248-7453

Currency
USD US Dollar

Purchase Order #
120167

Delivery Method
Pine Driver

Item #	Type	Description	Qty	U/M	Whse
74101	SALES	Tubing Silicone 3/16 IDX3/8 OD	10.00	FT	S01
15125	SALES	Bladder-Teflon SamplePro 1.75"	30	EA	S01
15361	SALES	Grab Plate SS 1/4" X 1/4"	30	EA	S01
NS0050	SALES	O-Ring -SampleProPump 1.75"	30.00	EA	S01
74181	SALES	Tubing TLPE .17" x 1/4" LDPE .17" x 1/4"	500	FT	S01
71237	SALES	Water - Deionized UF 2.5G / 10L	1	EA	S01

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No.:

Report Results To:

Company Name: TRC Environmental Corp.
Report To: Scott Pawlukiewicz
Mailing Address: 2025 East Belt Line Ave., Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Office Phone:
Cell Phone:
Email Address: SPawlukiewicz@TRCSolutions.com

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By:
Checked By:
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293107
Sampled By: DZ

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP - Total	DEHP - Diss. (Lab Filtered)									Remarks	Possible Health Hazards?
	8/27/18	1035	SW-D-3		SW	5	3	2					X	X	X										
		1055	SW-D-4										X	X	X										
		1115	SW-D-1										X	X	X										
		1230	SW-R-6										X	X	X										
		1300	SW-D-2										X	X	X										
		1305	DUP-01										X	X	X										
		1330	SW-D-5										X	X	X										
		1400	DRC-02										X	X	X										
		1430	SW-R-1										X	X	X										
		1450	SW-R-7										X	X	X										

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) [signature]		8/27/18	1730	2)			
3)			1730	4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

[ ] Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No.

Report Results To:

Company Name: TRC Environmental Corp.
Report To: Scott Pawlukiewicz
Mailing Address: 2025 East Beltline Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Office Phone:
Cell Phone:
Email Address: SPawlukiewicz@TRCsolutions.com

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By:
Checked By:
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293107
Sampled By: DZ

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. – Lab Filtered)									Remarks	Possible Health Hazards?
	8/27/18	1510	SW-R-3		SW	5	3	2					X	X	X										
	↓	1530	SW-R-4		↓	↓	↓	↓					X	X	X										

Analysis Requested

Please Sign	Released By	Received By	Date	Time	Released By	Received By	Date	Time
	1) Jennifer Cupulla		8/27/18	1730	2)			
	3)			1730	4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

- [ ] Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No.

Report Results To:

Company Name: TRC Environmental Corp.
Report To: Scott Pawlukiewicz
Mailing Address: 2025 East Beltline Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Office Phone:
Cell Phone:
Email Address: SPawlukiewicz@TRCsolutions.com

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By:
Checked By:
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293107
Sampled By:

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - field filtered)									Remarks	Possible Health Hazards?
	8/28/18	0946	MW-32S	Y	GW	5		2				3	X	X	X										
		0950	MW-27S		GW	4		2				2	X	X											
		0950	DUP-04	Y	GW	5		2				2	X	X	X										
		1130	TMW-04		GW	5		2				3	X	X	X										
		1135	MW-29S		GW	5		2				3	X	X	X										
		1310	MW-31S		GW	5		2				3	X	X	X										
		1310	TMW-05		GW	5		2				3	X	X	X										
		1325	DUP-03		GW	5		2				3	X	X	X										
		1345	MW-25(R) MS/MSD		GW	11		4				7	X	X	X										
		1525	TMW-07		GW	5		2				3	X	X	X										

Please Sign

	Released By	Received By	Date	Time	Released By	Received By	Date	Time
1)	[signature]		8/28/18	1730	2)			
3)					4)			

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TRACE
the science of compliance

phone 231.773.5998
toll-free 800.733.5998
fax 231.773.6537

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673
www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

TRACE ID NO.

Report Results To:

Company Name: TRC
Report to: Scott Paulukewicz
Mailing Address: 2025 East Belfine Ave St 402
City, State, Zip Code: Grand Rapids MI 49546
Phone: Fax:
Email Address: SPaulukewicz@TRCsolutions.com
Cell #: Sampled by: DZ, JC, EO
Project Name & #:

Bill To:

Billing Address (if different)
City, State, Zip Code
Attn: Phone: PO #:

TRACE USE ONLY

Logged By: Checked By:
Received on ice: Yes No Preservative Checked: Yes No N/A
Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Regulatory Requirements		Turnaround Requirements		Matrix Key	
MERA TMDL's	☐	Standard	☐	S = Soil/Solid	WI = Wipes
Drinking Water	☐	3 Day* ☐	4 Day* ☐	W = Water	LW = Liquid Waste
NPDES	☐	48 Hour* ☐	24 Hour* ☐	SL = Sludge	A = Air
Special	☐	* Requires Prior Approval		OI = Oil	D = Drinking Water

Request for Analytical Services

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	CLIENT SAMPLE ID	METALS FIELD FILTERED	MATRIX	NUMBER OF CONTAINERS	COOL	HCL	HNO3	H_2SO_4	NaOH	Other	Total DEHP	Diss DEHP (field filter)								REMARKS	Possible Health Hazards
	8/28/18	1550	MW-08		GW	3						3	X	X									

Please Sign

RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME
1) [signature]		8/28/18	1730	2)				3)			
4)				5)				6)			

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/cocterms.php

7/8/18

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No.

Report Results To:

Company Name: TRC Environmental Corp.
Report To: Scott Pawlukiewicz
Mailing Address: 2025 East Beltline Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Office Phone:
Cell Phone:
Email Address: SPawlukiewicz@TRCSolutions.com

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By:
Checked By:
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes
W = Water, LW = Liquid Waste
SL = Sludge, A = Air
OI = Oil, D = Drinking Water

Project Name: LEC 293107
Sampled By: DZ

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	DEHP (Total)	DEHP (Diss. - Field Filtered)									Remarks	Possible Health Hazards?
	8/29/18	0930	PW-D-1		PW	3	3						X	X										
		1000	PW-D-4										X	X										
		1020	PW-D-2										X	X										
		1050	PW-D-3										X	X										
		1230	PW-RR-TJ-MC										X	X										
		1250	PW-RR-TJ-LB										X	X										
		1330	PW-RR-TI-LB										X	X										

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) [signature]		8/29/18	1745	2)			
3)				4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

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Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By:
Checked By:
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293107
Sampled By: EO, JML

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Filtered) Field									Remarks	Possible Health Hazards?
	8/27/18	1105	TMW-01		GW	5	3	2					X	X	X										
		1128	MW-34S										X	X	X										
		1427	MW-35S										X	X	X										
		1500	DUP-02										X	X	X										

Please Sign	Released By	Received By	Date	Time	Released By	Received By	Date	Time
	1) [signature]		8/27/18	1730	2)			
	3)				4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

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Trace ID No.

Report Results To:

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Report To: Scott Pawlukiewicz
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Office Phone:
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Email Address: SPawlukiewicz@TRCSolutions.com

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By:
Checked By:
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid
W = Water
SL = Sludge
OI = Oil
WI = Wipes
LW = Liquid Waste
A = Air
D = Drinking Water

Project Name: LEC 293107
Sampled By: EO

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - field filtered)									Remarks	Possible Health Hazards?
	8/29/18	0955	TMW-06		GW	5	3	2					X	X	X										
		1130	TMW-08										X	X	X										
		1250	TMW-09										X	X	X										
		1440	TMW-10										X	X	X										

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) Jennifer Capella		8/29/18	1745	2)			
3)				4)			

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8/29/18

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

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2241 Black Creek Road
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PO #:
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Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By:
Checked By:
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293107
Sampled By: EO, JML

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Field Filtered)								Remarks	Possible Health Hazards?
	8/30/18	0950	MW-33s		GW	5	3	2					X	X	X									
		0950	TMW-03			5	3	2					X	X	X									
		1130	TMW-02			5	3	2					X	X	X									
		1200	MW-30d			3	3							X	X									
		1310	MW-30i			3	3							X	X									
		1440	MW-30s(R)			3	3							X	X									
		1540	MW-27s			1	1								X									

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) Jenifer Cipella		8/30/18	1630	2)			
3)				4)			

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Logged By:
Checked By:
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293107
Sampled By: DZ

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	DEHP (Total)	DEHP (Diss. - Field Filtered)										Remarks	Possible Health Hazards?
	8/30/18	1010	PW-RR-TH-RMC		SW	3	3						X	X											
		1105	PW-RR-TH-LB										X	X											
		1315	PW-RR-TF-MC										X	X											
		1415	PW-RR-TG-LB										X	X											
		1430	DUP-05										X	X											

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) [signature]		8/30/18	1630	2)			
3)				4)			

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TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

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PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By:
Checked By:
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LFC 293107
Sampled By: JC, DZ

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	DEHP (Total)	DEHP (Diss. - field filtered)	BTEX	DEHP (Diss. - lab filtered)							Remarks	Possible Health Hazards?
	8/31/18	0925	MW-28i		GW	3	3						X	X										
		1025	MW-28s			3	3						X	X										
		1200	ATM-01		BLANK	5	3	2					X		X	X								
		1220	RB-01										X		X	X								
		1240	RB-02										X		X	X								
		1300	RB-03										X		X	X								
	8/31/18	1310	TRIP BLANK		RGW	2		2							X									
		1315	TRIP BLANK												X									
		1320	TRIP BLANK												X									

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) Jennifer Cipolla		8/31/18	1350	2)			
3)				4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

☐ Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

TRC

PROJECT NAME:	LE Carpenter & Co.
PROJECT NUMBER:	293107.0000.0000
PROJECT MANAGER:	B. Culp
SITE LOCATION:	170 N. Main Street Wharton, NJ 07885
DATES OF FIELDWORK:	11/26/2018 TO 11/30/2018
PURPOSE OF FIELDWORK:	Q4 2018 Site Monitoring Event
WORK PERFORMED BY:	D. Zielke, J. Crapella, E. O'Connor, J. Lenik

12/3/18
SIGNED DATE

(Jeff Lenik) 12/3/18
CHECKED BY DATE

REVISED 06/2011

TRC

GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: 11/26/18	TIME ARRIVED: 0700
PROJECT NUMBER: 293107.0000.0000	AUTHOR: DZ, JC, EO, JML	TIME LEFT: 1700

WEATHER

TEMPERATURE: 45 °F WIND: 10 MPH VISIBILITY: Rain

WORK / SAMPLING PERFORMED

Completed Synoptic of 23 MWs, 10 TMWs, + 13 SW locations.
Completed surface water samples [BTEX; DEHP (Tot. + Diss.)]
Completed TMW-01, TMW-02, TMW-03 [BTEX, DEHP (Tot. + Diss.)]
Completed MW-34S [BTEX, DEHP (Tot. + Diss.)]
Completed DUP-01, DUP-02, DUP-03

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
Control box issues.	Pin replacements ordered

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS

INVESTIGATION DERIVED WASTE SUMMARY

WASTE MATRIX	QUANTITY	COMMENTS

Jenifer Cipella 11/26/18
SIGNED DATE

(Jeff Lenik) 12/3/18
CHECKED BY DATE

TRC

GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: 11/27/18	TIME ARRIVED: 0700
PROJECT NUMBER: 293107.0000.0000	AUTHOR: DZ, JC, EO, JML	TIME LEFT: 1650

WEATHER		
TEMPERATURE: 40 °F	WIND: 15 MPH	VISIBILITY: mostly cloudy

WORK / SAMPLING PERFORMED

Sampled Pore waters: PW-D-1, PW-D-3, PW-D-4 [Tot/Diss. DEHP]
Sampled MWs: TMW04, TMW-05, TMW-08; MW-27S, MW-32S, MW-35S [BTEX, Tot./Diss. DEHP]

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS

INVESTIGATION DERIVED WASTE SUMMARY

WASTE MATRIX	QUANTITY	COMMENTS

SIGNED 11/27/18 DATE

CHECKED BY (Jeff Lentz) 12/3/18 DATE

TRC

GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: 11/28/18	TIME ARRIVED: 0700
PROJECT NUMBER: 293107.0000.0000	AUTHOR: DZ, JC, EO, JML	TIME LEFT: ~~[illegible]~~ 1630

WEATHER		
TEMPERATURE: 30 °F	WIND: 20 MPH	VISIBILITY: Mostly Cloudy

WORK / SAMPLING PERFORMED

Sampled pore water locations: PW-RR-TU-MC, PW-RR-TU-LB, PW-RR-TI-LB, PW-RR-TH-LB, PW-A-2
Sampled TMWs: TMW-06, TMW-07, TMW10
Sampled MWs: MW31S, MW-33S
Collected DUP-04 + DUP-05

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS

INVESTIGATION DERIVED WASTE SUMMARY

WASTE MATRIX	QUANTITY	COMMENTS

[signature] 11/28/18
SIGNED DATE

[signature] Jeff Lenik 12/3/18
CHECKED BY DATE

TRC

GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: 11/29/18	TIME ARRIVED: 0700
PROJECT NUMBER: 293107.0000.0000	AUTHOR: DZ, JC, EO, JML	TIME LEFT:

WEATHER		
TEMPERATURE: 40 °F	WIND: 20 MPH	VISIBILITY: partly cloudy

WORK / SAMPLING PERFORMED

Sampled PW-RR-TG-CB + PW-RR-TH-RMC
Sampled MW-29S, MW-25(R), MW-30d, MW-30i, MW-30s(R), MW-08
Collected MS/MSD)

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS

INVESTIGATION DERIVED WASTE SUMMARY

WASTE MATRIX	QUANTITY	COMMENTS

SIGNED — DATE 11/29/18

CHECKED BY (Jeff Lenik) — DATE 11/3/18

TRC

GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: 11/30/18	TIME ARRIVED: 0730
PROJECT NUMBER: 293107.0000.0000	AUTHOR: DZ, JC, EO, JML	TIME LEFT:

WEATHER		
TEMPERATURE: 40 °F	WIND: 10 MPH	VISIBILITY: mostly cloudy

WORK / SAMPLING PERFORMED

Sampled TMW-09, MW-28i, MW28s
Replaced Boom
Bottle/cooler inventory
Site photos
Blanks

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS

INVESTIGATION DERIVED WASTE SUMMARY

WASTE MATRIX	QUANTITY	COMMENTS

SIGNED 11/30/18 DATE

CHECKED BY (Jeff Lenik) 12/3/18 DATE

TRC

EQUIPMENT SUMMARY

PROJECT NAME:	LE Carpenter & Co.	SAMPLER NAME:	D. Zielke, J. Crapella, E. O'Connor, J. Lenik
PROJECT NO.:	293107.0000.0000		

WATER LEVEL MEASUREMENTS COLLECTED WITH:

QED	RENTAL
NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)

PRODUCT LEVEL MEASUREMENTS COLLECTED WITH:

QED	PROJECT DEDICATED
NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)

DEPTH TO BOTTOM OF WELL MEASUREMENTS COLLECTED WITH:

QED	RENTAL
NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)

PURGING METHOD

BLADDER PUMP (QED SAMPLE PRO)	RENTAL
NAME AND MODEL OF PUMP OR TYPE OF BAILER	SERIAL NUMBER (IF APPLICABLE)

SAMPLING METHOD

BLADDER PUMP (QED SAMPLE PRO)	RENTAL
NAME AND MODEL OF PUMP OR TYPE OF BAILER	SERIAL NUMBER (IF APPLICABLE)
GEOTECH DISPOSABLE FILTER	0.45 MICRON
NAME AND MODEL OF FILTERATION DEVICE	FILTER TYPE AND SIZE
DISPOSABLE POLY TUBING	☑ LOW-FLOW SAMPLING EVENT
TUBING TYPE	

PURGE WATER DISPOSAL METHOD

☐ GROUND ☐ DRUM ☐ POTW ☑ POLYTANK ☐ OTHER _____

DECONTAMINATION AND FIELD BLANK WATER SOURCE

STORE BOUGHT	STORE BOUGHT
POTABLE WATER SOURCE	DI WATER SOURCE
SIGNED 12/3/18 DATE	CHECKED BY 12/3/18 DATE

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 11/26/18

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.00 / 7.00	10.0 / 10.0	☒ WITHIN RANGE	0730
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): (EXP. DATE):	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES [1]**
☒ pH	pH: +/- 0.2 S.U.
☒ COND	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☐ D.O.	D.O.: VARIES
☒ TURB	TURB: +/- 5% OF CAL. STANDARD
☐ _____	[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐ _____	

NOTES

Probe:

Meter:

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

Jennifer Capella 11/26/18
SIGNED DATE

(Jeff Lenik) 12/3/18
CHECKED BY DATE

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 11/26/18

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.0 / 7.0	10.0 / 10.0	☒ WITHIN RANGE	0740
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): (EXP. DATE):	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES [1]**
☒ pH	pH: +/- 0.2 S.U.
☒ COND	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☐ D.O.	D.O.: VARIES
☒ TURB	TURB: +/- 5% OF CAL. STANDARD
☐ _____	[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐ _____	

NOTES

Probe:

Meter:

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

Jennifer Cipella 11/26/18
SIGNED DATE

(Jeff Lenik) 12/3/18
CHECKED BY DATE

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 11/27/18

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.0 / 7.0	10.0 / 10.0	☒ WITHIN RANGE	0740
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): (EXP. DATE):	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES [1]**
☒ pH	pH: +/- 0.2 S.U.
☒ COND	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☐ D.O.	D.O.: VARIES
☒ TURB	TURB: +/- 5% OF CAL. STANDARD
☐ _____	[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐ _____	

NOTES

Probe:

Meter:

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED: [signature] DATE: 11/27/18

CHECKED BY: [signature] (Jeff Lenz) DATE: 12/3/18

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 11/27/18

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.0 / 7.0	10.0 / 10.0	☒ WITHIN RANGE	0750
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): (EXP. DATE):	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES [1]**
☒ pH	pH: +/- 0.2 S.U.
☒ COND	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☐ D.O.	D.O.: VARIES
☒ TURB	TURB: +/- 5% OF CAL. STANDARD
☐ _____	[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐ _____	

NOTES

Probe:

Meter:

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED [signature] DATE 11/27/18

CHECKED BY [signature] (Jeff Lenik) DATE 12/3/18

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 11/27/18

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.0 / 7.0	10.0 / 10.0	☒ WITHIN RANGE	0800
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): (EXP. DATE):	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES (1)**
☒ pH	pH: +/- 0.2 S.U.
☒ COND	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☐ D.O.	D.O.: VARIES
☒ TURB	TURB: +/- 5% OF CAL. STANDARD
☐ _____	(1) CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐ _____	

NOTES

Probe:

Meter:

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED: [signature] DATE: 11/27/18

CHECKED BY: [signature] (Jeff Lenik) DATE: 12/3/18

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 11/28/18

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.0 / 7.0	10.0 / 10.0	☒ WITHIN RANGE	0710
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): (EXP. DATE):	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES [1]**
☒ pH	pH: +/- 0.2 S.U.
☒ COND	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☐ D.O.	D.O.: VARIES
☒ TURB	TURB: +/- 5% OF CAL. STANDARD
☐ _____	[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐ _____	

NOTES

Probe:

Meter:

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED [signature] DATE 11/28/18

CHECKED BY [signature] DATE 12/3/18

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 11/28/18

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.0 / 7.0	10.0 / 10.0	☒ WITHIN RANGE	0720
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): (EXP. DATE):	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES (1)**
☒ pH	pH: +/- 0.2 S.U.
☒ COND	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☐ D.O.	D.O.: VARIES
☒ TURB	TURB: +/- 5% OF CAL. STANDARD
☐ _____	(1) CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐ _____	

NOTES

Probe:

Meter:

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED [signature] DATE 11/28/18

CHECKED BY [signature] (Jeff Lenik) DATE 12/3/18

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 11/28/18

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.0 / 7.0	10.0 / 10.0	☒ WITHIN RANGE	0730
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): (EXP. DATE):	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES [1]**
☒ pH	pH: +/- 0.2 S.U.
☒ COND	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☐ D.O.	D.O.: VARIES
☒ TURB	TURB: +/- 5% OF CAL. STANDARD
☐ _____	[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐ _____	

NOTES

Probe:

Meter:

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED: [signature] DATE: 11/28/18

CHECKED BY: [signature] DATE: 12/3/18

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 11/29/18

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.0 / 7.0	10.0 / 10.0	☒ WITHIN RANGE	0730
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): (EXP. DATE):	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES (1)**
☒ pH	pH: +/- 0.2 S.U.
☒ COND	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☐ D.O.	D.O.: VARIES
☒ TURB	TURB: +/- 5% OF CAL. STANDARD
☐ _____	(1) CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐ _____	

NOTES

Probe:

Meter:

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED: [signature] DATE: 11/29/18

CHECKED BY: [signature] (Jeff Lenik) DATE: 12/3/18

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 11/29/18

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.0 / 7.0	10.0 / 10.0	☒ WITHIN RANGE	0730
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): (EXP. DATE):	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES (1)**
☒ pH	pH: +/- 0.2 S.U.
☐ COND	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☒ D.O.	D.O.: VARIES
☒ TURB	TURB: +/- 5% OF CAL. STANDARD
☐ _____	(1) CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐ _____	

NOTES

Probe:

Meter:

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED [signature] DATE 11/29/18

CHECKED BY [signature] (Jeff Lenz) DATE 12/3/18

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 11/29/18

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.0 / 7.0	10.0 / 10.0	☐ WITHIN RANGE	0750
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): (EXP. DATE):	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES [1]**
☒ pH	pH: +/- 0.2 S.U.
☒ COND	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☐ D.O.	D.O.: VARIES
☒ TURB	TURB: +/- 5% OF CAL. STANDARD
☐ _____	[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐ _____	

NOTES

Probe:

Meter:

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED: [signature] DATE: 11/29/18

CHECKED BY: [signature] (Jeff Lenik) DATE: 12/3/18

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, (JC), EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 11/30/18

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.0 / 7.0	10.0 / 10.0	☒ WITHIN RANGE	0740
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): (EXP. DATE):	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES [1]**
☒ pH	pH: +/- 0.2 S.U.
☒ COND	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☐ D.O.	D.O.: VARIES
☒ TURB	TURB: +/- 5% OF CAL. STANDARD
☐ _____	[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐ _____	

NOTES

Probe:

Meter:

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED [signature] DATE 11/30/18

CHECKED BY [signature] (Jeff Lenitz) DATE 12/3/18

REVISED 06/2011

TRC

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DZ, JC, EO, JML
PROJECT NO.:	293107.0000.0000	SERIAL #: RENTAL	DATE: 11/30/18

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	pH 4 / 10 (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
7.0 / 7.0	10.0 / 10.0	☐ WITHIN RANGE	0750
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	
/		☐ WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	
	☐ WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	(LOT #): (EXP. DATE): POST-CAL. READING / STANDARD	CAL. RANGE	TIME
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	
/	/	☐ WITHIN RANGE	

COMMENTS

☒ AUTOCAL SOLUTION (LOT #): (EXP. DATE):	☐ STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	**CALIBRATION RANGES [1]**
☒ pH	pH: +/- 0.2 S.U.
☒ COND	COND: +/- 1% OF CAL. STANDARD
☐ ORP	ORP: +/- 25 mV
☐ D.O.	D.O.: VARIES
☒ TURB	TURB: +/- 5% OF CAL. STANDARD
☐ _____	[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
☐ _____	

NOTES

Probe:

Meter:

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED: [signature] DATE: 11/30/18

CHECKED BY: [signature] (Jeff Kenz) DATE: 12/3/18

REVISED 06/2011

TRC

WATER LEVEL DATA

PROJECT NAME:	LE Carpenter & Co.	DATE:	11/26/2018
PROJECT NUMBER:	293107.0000.0000	AUTHOR:	DZ, JC, EO, JML

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION	
MW-19R	0816	TOC	5.95	15.48	NM		
MW-19-5RR	0805	TOC	6.51	16.10	NM		
MW-19-6R	0826	TOC	6.69	15.69	NM		
MW-19-7R	0832	TOC	6.36	15.66	NM		
MW-19-8	0829	TOC	6.51	19.09	NM		needs new gripper plug
MW-19-12	0830	TOC	5.83	16.83	NM		
MW-19-13	0810	TOC	5.65	15.15	NM		
MW-19-14	0818	TOC	5.82	16.10	NM		
MW-19-15	0814	TOC	5.57	15.68	NM		
MW-19-16	0824	TOC	4.70	14.88	NM		
MW-19-17	0827	TOC	7.18	15.71	NM		
GEI-3I	0838	TOC	10.28	NA	NM		
MW-25R	1301	TOC	2.26	8.63	NM		
MW-21	1256	TOC	1.55	18.22	NM		
MW-27S	0845	TOC	6.34	13.18	NM		
MW-28S	1322	TOC	3.73	17.76	NM		
MW-28I	1321	TOC	3.60	22.94	NM		
MW-29S	1327	TOC	5.65	14.70	NM		
MW-30S(R)	1331	TOC	1.12	1304	NM		
MW-30I	1330	TOC	1.33	18.20	NM		

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

Denise Capella 11/26/18
SIGNED DATE

(Jeff Lenik) 12/3/18
CHECKED DATE

TRC

WATER LEVEL DATA

PROJECT NAME:	LE Carpenter & Co.	DATE:	11/26/2018
PROJECT NUMBER:	293107.0000.0000	AUTHOR:	DZ, JC, EO, JML

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-30D	1329	TOC	1.05	NA	NM	
MW-31s	0917	TOC	4.17	10.34	ND	
MW-32s	0914	TOC	4.84	10.43	ND	
MW-33s	0919	TOC	5.11	10.35	ND	
MW-34s	0908	TOC	4.75	10.35	ND	
MW-35s	0910	TOC	3.65	10.32	ND	
SW-D-1	1025	STAKE	0.80	NA	NA	
SW-D-2	1520	NO STAKE	NA	NA	NA	
SW-D-3	0935	STAKE	0.07	NA	NA	
SW-D-4	1000	STAKE	0.75	NA	NA	
SW-D-5	1220	STAKE	2.96	NA	NA	
SW-R-1	1500	STAKE	1.68	NA	NA	
SW-R-2	1445	STAKE	0.98	NA	NA	
SW-R-3	1430	STAKE	2.20	NA	NA	
SW-R-4	1415	STAKE	1.62	NA	NA	
SW-R-5	0840	STAKE	2.69	NA	NA	
SW-R-6	1100	NO STAKE	NA	NA	NA	
DRC-2	1250	STAKE	2.96	NA	NA	
SG-R2	1314	STAKE	1.02	NA	NA	

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

Jenifer Cypella 11/26/18
SIGNED DATE

(Jeff Lenik) 12/3/18
CHECKED DATE

TRC

WATER LEVEL DATA

PROJECT NAME:	LE Carpenter & Co.	DATE:	11/26/2018
PROJECT NUMBER:	293107.0000.0000	AUTHOR:	DZ, JC, EO, JML

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-15S	0848	TOC	8.19	19.55	NM	
MW-15I	0849	TOC	8.11	40.15	NM	
MW-17S	1316	TOC	5.70	NA	NM	
MW-12R	1312	TOC	6.05	NA	NM	
MW-9	1310	TOC	1.98	NA	NM	
MW-8	1306	TOC	1.57	20.00	NM	
MW-13S	-	-	NM (No Key for Lock)	-	-	
MW-13I	1020	TOC	2.83	NA	NM	
MW-13S (R)	-	-	NM (No Key for Lock)	-	-	

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

Jenifer Cipolla 11/26/18
SIGNED DATE

(Jeff Lenik) 12/3/18
CHECKED DATE

TRC

WATER LEVEL DATA

PROJECT NAME:	LE Carpenter & Co.	DATE:	11/26/2018
PROJECT NUMBER:	293107.0000.0000	AUTHOR:	DZ, JC, EO, JML

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
TMW-01	0836	TOSC	2.47	9.27	NM	
TMW-02	0837	TOSC	3.70	9.29	NM	
TMW-03	0838	TOSC	4.15	9.19	NM	
TMW-04	0842	TOSC	3.56	~~9.24~~ 9.14	NM	
TMW-05	0843	TOSC	2.78	9.09	NM	
TMW-06	0841	TOSC	3.12	9.05	NM	
TMW-07	0840	TOSC	2.82	9.98	NM	
TMW-08	0847	TOSC	2.49	9.11	NM	
TMW-09	0846	TOSC	~~2.30~~ 2.30	~~9.27~~ 9.11	NM	
TMW-10	0850	TOSC	3.01	9.12	NM	
MW-31S	0917	TOSC	4.17	10.34	ND	
MW-32S	0914	TOSC	4.84	10.43	ND	
MW-33S	0919	TOSC	5.11	10.35	ND	
MW-34S	0908	TOSC	4.75	10.35	ND	
MW-35S	0910	TOSC	3.65	10.32	ND	

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

SIGNED 11/26/18 DATE

CHECKED (Jeff Lenz) 12/3/18 DATE

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML DATE: 11/26 /18	BY: JML DATE: 12/3/18

SAMPLE ID: SW-D-1

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:

PURGE METHOD: ☐ PUMP ☐ BAILER

DEPTH TO WATER: T/ PVC

DEPTH TO BOTTOM: T/ PVC

WELL VOLUME: ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ☐ LITERS ☐ GALLONS

COLOR: ODOR:

TURBIDITY

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME: 1025	DATE: 11/26 /18

PH: SU CONDUCTIVITY: umhos/cm

ORP: mV DO: mg/L

TURBIDITY: NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: °C OTHER:

COLOR: ODOR:

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED: 11/26/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER:	NA	SIGNATURE:	DATE SIGNED: 11/26/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/26/18	BY: JML DATE: 12/3/18

SAMPLE ID: SW-D-2

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:

PURGE METHOD: ☐ PUMP ☐ BAILER

DEPTH TO WATER: T/ PVC

DEPTH TO BOTTOM T/ PVC

WELL VOLUME: ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ☐ LITERS ☐ GALLONS

COLOR: ODOR:

TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME: 1520	DATE: 11/26/18

PH: SU CONDUCTIVITY: umhos/cm

ORP: mV DO: mg/L

TURBIDITY: NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: °C OTHER:

COLOR: ODOR:

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☑ DUP-01 1530

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/26/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 11/26/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/26/18	BY: JML DATE: 12/3/18

SAMPLE ID: SW-D-3

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD: ☐ PUMP ☐ BAILER		
DEPTH TO WATER: T/ PVC		
DEPTH TO BOTTOM T/ PVC		
WELL VOLUME: ☐ LITERS ☐ GALLONS		
VOLUME REMOVED: ☐ LITERS ☐ GALLONS		
COLOR: ODOR:		
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER		

SAMPLE	TIME: 0935	DATE: 11/26/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES ☑ NO		
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/26/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 11/26/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER:	293107.0000	BY: DZ, (JC) EO, JML DATE: 11/26/1	BY: JML DATE: 12/3/18

SAMPLE ID: SW-D-4

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:

PURGE METHOD: ☐ PUMP ☐ BAILER

DEPTH TO WATER: T/ PVC

DEPTH TO BOTTOM: T/ PVC

WELL VOLUME: ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ☐ LITERS ☐ GALLONS

COLOR: ODOR:

TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME: ~~0945~~ 1000	DATE: 11/26/18

PH: SU CONDUCTIVITY: umhos/cm

ORP: mV DO: mg/L

TURBIDITY: NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: °C OTHER:

COLOR: ODOR:

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED: 11/26/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER:	NA	SIGNATURE: Jenifer Cole	DATE SIGNED: 11/26/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML DATE: 11/26 /18	BY: JML DATE: 12/3/18

SAMPLE ID: SW-D-5	WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA
WELL MATERIAL:	☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA
SAMPLE TYPE:	☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD:	☐ PUMP ☐ BAILER	
DEPTH TO WATER:	T/ PVC	
DEPTH TO BOTTOM	T/ PVC	
WELL VOLUME:	☐ LITERS ☐ GALLONS	
VOLUME REMOVED:	☐ LITERS ☐ GALLONS	
COLOR:	ODOR:	
TURBIDITY	☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	
DISPOSAL METHOD	☐ GROUND ☐ DRUM ☐ OTHER	

SAMPLE	TIME: 1220	DATE: 11/26 /18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES	☑ NO	
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED: 11/26/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER:	NA	SIGNATURE:	DATE SIGNED: 11/26/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/26/18	BY: JML DATE: 12/3/18

SAMPLE ID: DRC-02	WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA
WELL MATERIAL:	☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA
SAMPLE TYPE:	☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD:	☐ PUMP ☐ BAILER	
DEPTH TO WATER:	T/ PVC	
DEPTH TO BOTTOM	T/ PVC	
WELL VOLUME:	☐ LITERS ☐ GALLONS	
VOLUME REMOVED:	☐ LITERS ☐ GALLONS	
COLOR:	ODOR:	
TURBIDITY	☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	
DISPOSAL METHOD	☐ GROUND ☐ DRUM ☐ OTHER	

SAMPLE	TIME: 1250	DATE: 11/26/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES	☑ NO	
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/26/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	11/26/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/26 /18	BY: JML DATE: 12/3/18

SAMPLE ID: SW-R-1

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD:	☐ PUMP ☐ BAILER	
DEPTH TO WATER:	T/ PVC	
DEPTH TO BOTTOM	T/ PVC	
WELL VOLUME:	☐ LITERS ☐ GALLONS	
VOLUME REMOVED:	☐ LITERS ☐ GALLONS	
COLOR:	ODOR:	
TURBIDITY	☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	
DISPOSAL METHOD	☐ GROUND ☐ DRUM ☐ OTHER	

SAMPLE	TIME: 1500	DATE: 11/26/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES	☑ NO	
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/26/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 11/26/18

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TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/26/18	BY: JML DATE: 12/3/18

SAMPLE ID: SW-R-2

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:

PURGE METHOD: ☐ PUMP ☐ BAILER

DEPTH TO WATER: T/ PVC

DEPTH TO BOTTOM T/ PVC

WELL VOLUME: ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ☐ LITERS ☐ GALLONS

COLOR: ODOR:

TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME: 1445	DATE: 11/26/18

PH: SU CONDUCTIVITY: umhos/cm

ORP: mV DO: mg/L

TURBIDITY: NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: °C OTHER:

COLOR: ODOR:

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED: 11/26/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER:	NA	SIGNATURE:	DATE SIGNED: 11/26/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC EO, JML DATE: 11/ 26 /18	BY: JML DATE: 12/3/18

SAMPLE ID: SW-R-3	WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA					
WELL MATERIAL:	☐ PVC	☐ SS	☐ IRON	☐ GALVANIZED STEEL	☑ OTHER NA	
SAMPLE TYPE:	☐ GW	☐ WW	☑ SW	☐ DI	☐ LEACHATE	☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1430	DATE: 11/ 26 /18
PURGE METHOD:	☐ PUMP ☐ BAILER		PH: SU	CONDUCTIVITY: umhos/cm	
			ORP: mV	DO: mg/L	
DEPTH TO WATER: T/ PVC			TURBIDITY: NTU		
DEPTH TO BOTTOM T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ☐ LITERS ☐ GALLONS			TEMPERATURE: °C	OTHER:	
VOLUME REMOVED: ☐ LITERS ☐ GALLONS			COLOR:	ODOR:	
COLOR: ODOR:			FILTRATE (0.45 um) ☐ YES ☑ NO		
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR:	FILTRATE ODOR:	
			QC SAMPLE: ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/26/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	11/26/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ JC EO, JML DATE: 11/26/1	BY: JML DATE: 12/3/18

SAMPLE ID: SW-R-4

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:

PURGE METHOD: ☐ PUMP ☐ BAILER

DEPTH TO WATER: T/ PVC

DEPTH TO BOTTOM T/ PVC

WELL VOLUME: ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ☐ LITERS ☐ GALLONS

COLOR: ODOR:

TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME: 1415	DATE: 11/26/18

PH: SU CONDUCTIVITY: umhos/cm

ORP: mV DO: mg/L

TURBIDITY: NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: °C OTHER:

COLOR: ODOR:

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/26/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 11/26/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/26 /18	BY: JML DATE: 12/3/18

SAMPLE ID: SW-R-6

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:

PURGE METHOD: ☐ PUMP ☐ BAILER

DEPTH TO WATER: _____ T/ PVC

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS

COLOR: _____ ODOR: _____

TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME: 1100	DATE: 11/ 26 /18

PH: _____ SU CONDUCTIVITY: _____ umhos/cm

ORP: _____ mV DO: _____ mg/L

TURBIDITY: _____ NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: _____ °C OTHER: _____

COLOR: _____ ODOR: _____

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: _____ FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ~~☑ DUP-01~~ ~~1530~~ JML

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
3	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/26/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 11/26/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/27/18	BY: JML DATE: 12/3/18

SAMPLE ID: PW-D-1

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD:	☐ PUMP ☐ BAILER	
DEPTH TO WATER: T/ PVC		
DEPTH TO BOTTOM: T/ PVC		
WELL VOLUME:	☐ LITERS ☐ GALLONS	
VOLUME REMOVED:	☐ LITERS ☐ GALLONS	
COLOR:	ODOR:	
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☐ OTHER		

SAMPLE	TIME: 1420	DATE: 11/27/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES ☑ NO		
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1420	—	6.94	423	-83	1.25	7.7	15.71	—	INITIAL
Post-Samp	1440	—	6.53	448	-50	2.50	3.6	11.60	—	—
Surface	1442	—	7.00	480	-60	2.10	19.0	12.54	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/27/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:		DATE SIGNED:	11/27/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ JC EO, JML DATE: 11/28 /1	BY: JML DATE: 12/3/18

SAMPLE ID: PW-D-2	WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA				
WELL MATERIAL:	☐ PVC	☐ SS	☐ IRON	☐ GALVANIZED STEEL	☑ OTHER NA
SAMPLE TYPE:	☐ GW	☐ WW	☑ SW	☐ DI	☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD:	☐ PUMP ☐ BAILER	
DEPTH TO WATER:	T/ PVC	
DEPTH TO BOTTOM:	T/ PVC	
WELL VOLUME:	☐ LITERS	☐ GALLONS
VOLUME REMOVED:	☐ LITERS	☐ GALLONS
COLOR:	ODOR:	
TURBIDITY	☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	
DISPOSAL METHOD	☐ GROUND ☐ DRUM ☐ OTHER	

SAMPLE	TIME: 0900	DATE: 11/ 28 /18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES	☑ NO	
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☑ ~~DUP 01~~ JML	
COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	0900	—	7.42	603	-182	2.66	265	6.71	—	INITIAL
Post Samp	0925	—	6.88	564	-84	2.09	31.4	4.90	—	—
Surface	0927	—	7.14	466	-20	4.49	153	4.95	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or <= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/28/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	11/28/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML	DATE: 11/27/1	BY: JML	DATE: 12/3/18

SAMPLE ID: PW-D-3 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1140	DATE: 11/27/18

PURGE METHOD: ☐ PUMP ☐ BAILER

DEPTH TO WATER: _____ T/ PVC

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS

COLOR: _____ ODOR: _____

TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

PH: _____ SU CONDUCTIVITY: _____ umhos/cm

ORP: _____ mV DO: _____ mg/L

TURBIDITY: _____ NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: _____ °C OTHER: _____

COLOR: _____ ODOR: _____

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: _____ FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1140		6.77	638	-124	3.00	96.7	7.49	NA	INITIAL
Post-Samp	1225		6.81	511	-85	2.86	19.9	7.46	NA	NA
Surface water	1227	NA	6.99	381	-46	3.89	104	7.47	NA	NA

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/27/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 11/27/18

REVISED 06/2011

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/27/18	BY: JML DATE: 12/3/18

SAMPLE ID: PW-D-4

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:

PURGE METHOD: ☐ PUMP ☐ BAILER

DEPTH TO WATER: T/ PVC

DEPTH TO BOTTOM T/ PVC

WELL VOLUME: ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ☐ LITERS ☐ GALLONS

COLOR: ODOR:

TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME: 1340	DATE: 11/27/18

PH: SU CONDUCTIVITY: umhos/cm

ORP: mV DO: mg/L

TURBIDITY: NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: °C OTHER:

COLOR: ODOR:

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1340	—	6.56	1440	-85	4.06	3.3	9.39	—	INITIAL
Post-samp	1350	—	6.50	2390	-79	2.20	7.9	7.71	—	—
Surface	1352	—	6.93	471	-50	5.75	14.9	7.14	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/27/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	11/27/18

REVISED 06/2011

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/29/18	BY: JML DATE: 12/3/18

SAMPLE ID: PW-RR-TG-LB WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1100	DATE: 11/29/18
PURGE METHOD: ☐ PUMP ☐ BAILER		
DEPTH TO WATER: T/ PVC		
DEPTH TO BOTTOM: T/ PVC		
WELL VOLUME: ☐ LITERS ☐ GALLONS		
VOLUME REMOVED: ☐ LITERS ☐ GALLONS		
COLOR: ODOR:		
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER		

SAMPLE	TIME: 1100	DATE: 11/29/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES ☑ NO		
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
initial	1100	—	7.55	230	-159	1.87	0.0	7.14	—	INITIAL
post-samp	1120	—	6.96	173	-63	1.70	0.0	5.35	—	—
surface	1123	—	~~5.75~~ 7.58	124	-77	8.83	0.0	5.75	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/29/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:		DATE SIGNED:	11/29/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML	DATE: 11/28 /18	BY: JML	DATE: 12/3/18

SAMPLE ID: PW-RR-TH-LB	WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA
WELL MATERIAL:	☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA
SAMPLE TYPE:	☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1430	DATE: 11/ 28 /18
PURGE METHOD:	☐ PUMP ☐ BAILER		PH: SU	CONDUCTIVITY: umhos/cm	
			ORP: mV	DO: mg/L	
DEPTH TO WATER: T/ PVC			TURBIDITY: NTU		
DEPTH TO BOTTOM T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ☐ LITERS ☐ GALLONS			TEMPERATURE: °C	OTHER:	
VOLUME REMOVED: ☐ LITERS ☐ GALLONS			COLOR:	ODOR:	
COLOR: ODOR:			FILTRATE (0.45 um) ☐ YES ☑ NO		
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR:	FILTRATE ODOR:	
			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1430	–	7.41	280	-81	1.87	1.9	5.57	—	INITIAL
Post-Samp	1450	–	7.37	288	-84	1.14	0.0	4.56	—	—
Surface	1452	–	7.62	113	-14	9.19	0.0	4.03	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or <= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/28/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 11/28/18

REVISED 06/2011

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/ 29 /18	BY: JML DATE: 12/3/18

SAMPLE ID: PW-RR-TH-RMC

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:

PURGE METHOD: ☐ PUMP ☐ BAILER

DEPTH TO WATER: T/ PVC

DEPTH TO BOTTOM T/ PVC

WELL VOLUME: ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ☐ LITERS ☐ GALLONS

COLOR: ODOR:

TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME: 1400	DATE: 11/ 29 /18

PH: SU CONDUCTIVITY: umhos/cm

ORP: mV DO: mg/L

TURBIDITY: NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: °C OTHER:

COLOR: ODOR:

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
initial	1400	—	7.55	138	-84	1.49	2.3	5.87	—	INITIAL
Post Samp	1410	—	7.47	135	-56	2.27	0.0	5.28	—	—
Surface	1412	—	7.66	116	-59	8.85	0.0	5.32	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or <= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/29/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:		DATE SIGNED:	11/29/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/28/18	BY: JML DATE: 11/3/18

SAMPLE ID: PW-RR-TI-LB WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD:	☐ PUMP ☐ BAILER	
DEPTH TO WATER:	T/ PVC	
DEPTH TO BOTTOM	T/ PVC	
WELL VOLUME:	☐ LITERS ☐ GALLONS	
VOLUME REMOVED:	☐ LITERS ☐ GALLONS	
COLOR:	ODOR:	
TURBIDITY	☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	
DISPOSAL METHOD	☐ GROUND ☐ DRUM ☐ OTHER	

SAMPLE	TIME: 1230	DATE: 11/28/18
PH: SU	CONDUCTIVITY: umhos/cm	
ORP: mV	DO: mg/L	
TURBIDITY: NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☐ YES	☑ NO	
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1230	—	6.65	118	25	4.26	5.0	4.32	—	INITIAL
Post Samp	1245	—	6.80	116	44	4.43	0.0	4.25	—	—
Surface	1247	—	7.04	112	30	8.85	0.0	4.02	—	—

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/28/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:		DATE SIGNED:	11/28/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/28/18	BY: JML DATE: 12/3/18

SAMPLE ID: PW-RR-TJ-LB

WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☑ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:

PURGE METHOD: ☐ PUMP ☐ BAILER

DEPTH TO WATER: T/ PVC

DEPTH TO BOTTOM: T/ PVC

WELL VOLUME: ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ☐ LITERS ☐ GALLONS

COLOR: ODOR:

TURBIDITY: ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME: 1130	DATE: 11/28/18

PH: SU CONDUCTIVITY: umhos/cm

ORP: mV DO: mg/L

TURBIDITY: NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: °C OTHER:

COLOR: ODOR:

FILTRATE (0.45 um) ☐ YES ☑ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
initial	1130	–	6.71	134	-25	1.47	6.6	5.51	–	INITIAL
post-samp	1140	–	6.58	127	-9	1.97	0.0	4.67	–	–
Surface	1142	–	7.01	109	-8	8.11	0.0	4.58	–	–

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/28/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	11/28/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML	DATE: 11/ 28 /18	BY: JML	DATE: 12/3/18

SAMPLE ID: PW-RR-TJ-MC	WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☑ OTHER NA
WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL	☑ OTHER NA
SAMPLE TYPE: ☐ GW ☐ WW ☑ SW ☐ DI ☐ LEACHATE	☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1030	DATE: 11/ 28 /18
PURGE METHOD: ☐ PUMP ☐ BAILER			PH: SU	CONDUCTIVITY: umhos/cm	
			ORP: mV	DO: mg/L	
DEPTH TO WATER: T/ PVC			TURBIDITY: NTU		
DEPTH TO BOTTOM T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ☐ LITERS ☐ GALLONS			TEMPERATURE: °C	OTHER:	
VOLUME REMOVED: ☐ LITERS ☐ GALLONS			COLOR:	ODOR:	
COLOR: ODOR:			FILTRATE (0.45 um) ☐ YES	☑ NO	
TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR:	FILTRATE ODOR:	
			QC SAMPLE: ☐ MS/MSD	☒ DUP- 05 1040	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Initial	1030	–	7.41	159	-152	1.29	0.0	7.60	–	INITIAL
post-samp	1040	–	7.04	152	-70	1.13	0.0	5.53	–	–
Surface	1042	–	7.42	107	-24	8.11	0.0	5.09	–	–

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **10 %** COND.: +/- **10 %** ORP: +/- **10 %** D.O.: +/- **10 %** TURB: +/- **10 %** or </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/28/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 11/28/18

REVISED 06/2011

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/29/18	BY: JML DATE: 12/3/18

SAMPLE ID: MW-08 WELL DIAMETER: ☐ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1144	DATE: 11/29/18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 1.48 T/ PVC

DEPTH TO BOTTOM: 20.00 T/ PVC (from me 4" casing)

WELL VOLUME: 12.09 ☐ LITERS ☒ GALLONS 0.5248

VOLUME REMOVED: 23 ☒ LITERS ☐ GALLONS

COLOR: Clear ODOR: –

TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

SAMPLE	TIME: 1340	DATE: 11/29/18

PH: 8.32 SU CONDUCTIVITY: 366 umhos/cm

ORP: -147 mV DO: 0.00 mg/L

TURBIDITY: 8.9 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.15 °C OTHER:

COLOR: Clear ODOR: –

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: –

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1147	200	8.22	342	-51	7.85	24.4	10.21	1.52	INITIAL
1152	200	8.21	366	-122	0.00	60.3	11.42	2.01	1.0
1157	200	8.25	365	-134	0.00	77.3	11.23	2.12	2.0
1202	200	8.26	365	-139	0.00	52.1	11.17	2.29	3.0
1207	200	8.30	364	-143	0.00	43.0	11.29	2.44	4.0
1212	200	8.30	364	-145	0.00	29.0	11.20	2.45	5.00
1217	200	8.30	364	-146	0.00	27.4	11.20	2.46	6.0
1222	200	8.31	364	-147	0.00	26.0	11.25	2.46	7.0
1227	200	8.30	363	-147	0.00	20.1	11.21	2.46	8.0
1232	200	8.30	363	-148	0.00	17.1	11.15	2.44	9.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☑ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☑ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/29/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 11/29/18

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WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LE Carpenter & Co.	PREPARED		CHECKED	
PROJECT NUMBER:	293107.00	BY: JML	DATE: 11/29/18	BY: JML	DATE: 12/3/18

SAMPLE ID: MW-06

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1232	200	8.31	363	-148	0.00	18.4	11.13	2.44	10.0
1242	200	8.30	363	-148	0.00	16.0	11.10	2.44	11.0
1247	200	8.30	363	-149	0.00	14.9	11.16	2.44	12.0
1252	200	8.32	364	-148	0.00	14.6	11.15	2.44	13.0
1257	200	8.31	364	-148	0.00	13.8	11.14	2.44	14.0
1302	200	8.31	364	-148	0.00	13.1	11.15	2.44	15.0
1307	200	8.31	365	-146	0.00	11.7	11.09	2.44	16.0
1312	200	8.31	365	-146	0.00	11.2	11.17	2.44	17.0
1317	200	8.31	365	-146	0.00	11.1	11.18	2.44	18.0
1322	200	8.31	366	-148	0.00	10.7	11.15	2.44	19.0
1327	200	8.31	367	-148	0.00	10.4	11.14	2.44	20.0
1332	200	8.32	367	-148	0.00	9.7	11.09	2.44	21.0
1337	200	8.32	368	-148	0.00	9.4	11.09	2.44	22.0
1342	200	8.32	368	-147	0.00	8.9	11.15	2.44	23.0

SIGNATURE: [signature]

DATE SIGNED: 11/29/18

REVISED 06/2011

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML	DATE: 11/29/18	BY: JML	DATE: 12/3/18

SAMPLE ID: MW-25(R) WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0850	DATE: 11/29/18	SAMPLE	TIME: 0952	DATE: 11/29/18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 2.30 T/ PVC

DEPTH TO BOTTOM: 8.63 T/ PVC

WELL VOLUME: 1.03 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 12.0 ☒ LITERS ☐ GALLONS

COLOR: Light brown ODOR: –

TURBIDITY: ☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 8.18 SU CONDUCTIVITY: 4.58 umhos/cm

ORP: -74 mV DO: 0.00 mg/L

TURBIDITY: 6.6 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 8.18 °C OTHER:

COLOR: clear ODOR: –

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: –

QC SAMPLE: ☒ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0852	200	10.11	491	-103	11.74	29.8	8.74	2.33	INITIAL
0857	200	8.55	474	-85	0.41	34.5	9.24	2.35	1.0
0902	200	8.31	472	-79	0.00	18.3	9.49	2.35	2.0
0907	200	8.25	473	-79	0.00	10.0	9.50	2.35	3.0
0912	200	8.23	470	-76	0.00	50.4	9.41	2.35	4.0
0917	200	8.23	466	-78	0.00	30.8	9.35	2.35	5.0
0922	200	8.22	464	-78	0.00	23.7	9.32	2.35	6.0
0927	200	8.26	462	-76	0.00	18.0	9.28	2.35	7.0
0932	200	8.23	461	-76	0.00	12.6	9.30	2.35	8.0
0937	200	8.22	460	-76	0.00	10.7	9.16	2.35	9.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or </= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
5	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/29/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 11/29/18

REVISED 06/2011

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WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LE Carpenter & Co.	PREPARED		CHECKED	
PROJECT NUMBER:	293107.00	BY: JML	DATE: 11/29/18	BY: JML	DATE: 12/3/18

SAMPLE ID: MW-25(R)

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR (L))
0942	200.	8.21	458	-75	0.00	8.7	8.21	2.35	10.0
0947	200	8.21	458	-75	0.00	8.1	8.21	2.35	11.0
0952	200	8.16	458	-74	0.00	6.8	8.16	2.35	12.0

SIGNATURE: [signature]

DATE SIGNED: 11/29/18

REVISED 06/2011

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/ 27 /1	BY: JML DATE: 12/3/18

SAMPLE ID: MW-27s WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0850	DATE: 11/ 27 /18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 5.89 T/ PVC

DEPTH TO BOTTOM: 13.18 T/ PVC

WELL VOLUME: 1.19 ☐ LITERS ☑ GALLONS

VOLUME REMOVED: 12 ☑ LITERS ☐ GALLONS

COLOR: Clear ODOR: ND

TURBIDITY ☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER

SAMPLE	TIME: 1010	DATE: 11/ 27 /1

PH: 7.16 SU CONDUCTIVITY: 679 umhos/cm

ORP: 63 mV DO: 1.86 mg/L

TURBIDITY: 7.1 NTU

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 12.23 °C OTHER:

COLOR: Clear ODOR: ND

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: ND FILTRATE ODOR: ND

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0850	100	7.33	670	159	2.14	207	13.30	6.45	INITIAL
0855	100	7.21	662	132	1.60	189	13.20	6.98	0.75
0900	100	7.19	655	92	1.24	122	12.96	7.47	1.5
0905	100	7.19	655	91	1.22	109	12.64	8.03	2.25
0910	100	7.19	652	97	1.13	91.0	12.34	8.65	3.0
0915	100	7.19	651	100	1.11	90.4	12.25	8.90	3.75
0920	100	7.18	651	105	1.16	64.1	12.17	9.01	4.5
0925	100	7.18	651	102	1.27	56.4	12.14	9.12	5.25
0930	100	7.18	648	44	1.55	43.8	12.15	9.29	6.0
0935	100	7.15	650	27	1.58	36.6	12.17	9.44	6.75

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/27/18	AIRBILL NUMBER: 1999-8059-9	
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 11/27/18	

REVISED 06/2011

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WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER: 239107.0000.0000	BY: Z, JC, EO, JN	DATE: 11/27/18	BY: JML	DATE: 12/3/18

SAMPLE ID: MW-275

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0940	100	7.15	652	28	1.51	30.1	12.15	9.59	7.5
0945	100	7.17	655	38	1.57	27.1	12.04	9.73	8.25
0950	100	7.17	658	43	1.73	26.4	11.98	10.02	9.0
0955	100	7.15	663	48	1.80	20.5	12.05	10.45	9.75
1000	100	7.16	677	51	1.78	7.6	12.16	10.60	10.5
1005	100	7.16	680	56	1.86	7.7	12.22	10.72	11.25
1010	100	7.16	679	63	1.86	7.1	12.23	10.94	12.0

SIGNATURE: [signature] DATE SIGNED: 11/27/18

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML	DATE: 11/30 /18	BY: JML	DATE: 12/3/18

SAMPLE ID: MW-28i WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1015	DATE: 11/ 30 /18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 3.64 T/ PVC

DEPTH TO BOTTOM: 22.94 T/ PVC

WELL VOLUME: 3.15 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 9.75 ☒ LITERS ☐ GALLONS

COLOR: none ODOR: ND

TURBIDITY ☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER

SAMPLE	TIME: 1045	DATE: 11/ 30 /18

PH: 7.39 SU CONDUCTIVITY: 433 umhos/cm

ORP: -101 mV DO: 7.39 mg/L

TURBIDITY: 3.8 NTU

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.96 °C OTHER:

COLOR: none ODOR: ND

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: none FILTRATE ODOR: ND

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1015	325	7.36	385	-97	7.21	126	11.50	3.64	INITIAL
1020	325	7.39	368	-97	9.78	43.2	11.68	3.64	1.625
1025	325	7.38	385	-95	6.65	33.6	11.85	3.64	3.250
1030	325	7.38	416	-97	6.50	20.8	11.83	3.64	4.875
1035	325	7.39	428	-101	7.42	5.0	11.94	3.64	6.500
1040	325	7.39	436	-101	7.45	4.2	11.92	3.64	8.125
1045	325	7.39	433	-101	7.39	3.8	11.96	3.64	9.750

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/30/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: Jenny Cipella	DATE SIGNED: 11/30/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML	DATE: 11/ 30 /18	BY: JML	DATE: 12/3/18

SAMPLE ID: MW-28s WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0930	DATE: 11/ 30 /18	SAMPLE	TIME: 1000	DATE: 11/ 30 /18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 3.76 T/ PVC

DEPTH TO BOTTOM: 17.76 T/ PVC

WELL VOLUME: 2.28 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 2.5 ☐ LITERS ☒ GALLONS

COLOR: Clear ODOR: ND

TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 7.38 SU CONDUCTIVITY: 378 umhos/cm

ORP: -143 mV DO: 0.00 mg/L

TURBIDITY: 0.0 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 12.19 °C OTHER:

COLOR: Clear ODOR: ND

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: none FILTRATE ODOR: ND

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0930	325	7.49	409	-146	1.35	1.7	11.11	3.76	INITIAL
0935	325	7.39	394	-134	0.22	0.0	11.77	3.76	~~375~~ 1.625
0940	325	7.38	385	-138	0.00	0.0	12.01	3.76	~~650~~ 3.250
0945	325	7.39	382	-140	0.00	0.0	12.08	3.76	~~975~~ 4.875
0950	325	7.39	381	-142	0.00	0.0	12.13	3.76	~~1300~~ 6.50
0955	325	7.39	379	-143	0.00	0.0	12.18	3.76	~~1625~~ 8.125
1000	325	7.38	378	-143	0.00	0.0	12.19	3.76	~~1950~~ 9.750

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/30/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 11/30/18

REVISED 06/2011

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML	DATE: 11/29 /18	BY: JML	DATE: 12/3/18

SAMPLE ID: MW-29s WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0845	DATE: 11/29/18	SAMPLE	TIME: 0950	DATE: 11/29/18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 5.57 T/ PVC

DEPTH TO BOTTOM: 14.70 T/ PVC

WELL VOLUME: 1.49 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 6.5 ☒ LITERS ☐ GALLONS

COLOR: NONE ODOR: NONE

TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 7.02 SU CONDUCTIVITY: 832 umhos/cm

ORP: -53 mV DO: 0.00 mg/L

TURBIDITY: 7.3 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 10.86 °C OTHER:

COLOR: NONE ODOR: NONE

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: NONE FILTRATE ODOR: NONE

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0845	100	6.05	637	145	7.94	158	8.30	5.65	INITIAL
0850	100	6.79	830	-28	1.83	126	9.51	5.62	0.5
0855	100	6.96	831	-54	0.36	80.4	10.82	5.60	1.0
0900	100	6.98	833	-56	0.00	81.0	10.64	5.60	1.5
0905	100	6.98	837	-48	0.00	54.6	11.55	5.60	2.0
0910	100	6.99	835	-52	0.00	41.9	11.88	5.66	2.5
0915	100	7.00	836	-54	0.00	34.9	11.14	5.58	3.0
0920	100	7.00	834	-49	0.00	29.0	11.86	5.58	3.5
0925	100	7.01	834	-50	0.00	30.4	11.65	5.59	4.0
0930	100	7.01	834	-51	0.00	26.3	11.09	5.60	4.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/29/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 11/29/18

REVISED 06/2011

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER: 293107.0000	BY: EO	DATE: 11/29/18	BY: JML	DATE: 12/3/18

SAMPLE ID: MW-29S

WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME:	DATE:

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: T/ PVC

DEPTH TO BOTTOM: T/ PVC

WELL VOLUME: ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ☐ LITERS ☐ GALLONS

COLOR: ODOR:

TURBIDITY ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: SU CONDUCTIVITY: umhos/cm

ORP: mV DO: mg/L

TURBIDITY: NTU ☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: °C OTHER:

COLOR: ODOR:

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

★ SEE 1st PAGE ★

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0935	100	7.01	834	-51	0.00	12.4	11.13	5.62	5.0 ~~INITIAL~~
0940	100	7.02	833	-51	0.00	8.4	10.89	5.58	5.5
0945	100	7.02	833	-51	0.00	5.5	10.85	5.58	6.0
0950	100	7.02	832	-53	0.00	7.3	10.86	5.59	6.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☑ N
				☐ Y ☐ N					☐ Y ☑ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

★ SEE 1st PAGE ★

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/29/18	AIRBILL NUMBER:
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 11/29/18

REVISED 06/2011

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/29/18	BY: JML DATE: 12/3/18

SAMPLE ID: MW-30d	WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER
WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL	☐ OTHER
SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE	☐ OTHER

PURGING	TIME: 1015	DATE: 11/29/18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER	
DEPTH TO WATER: NM T/ PVC *		
DEPTH TO BOTTOM: — T/ PVC		
WELL VOLUME: NA	☐ LITERS ☐ GALLONS	
VOLUME REMOVED: 6.0	☒ LITERS ☐ GALLONS	
COLOR: NONE	ODOR: NONE	
TURBIDITY		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER		

SAMPLE	TIME: 1045	DATE: 11/ /1
PH: 7.45 SU	CONDUCTIVITY: 648 umhos/cm	
ORP: -68 mV	DO: 0.00 mg/L	
TURBIDITY: 1.8 NTU		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: 11.56 °C	OTHER:	
COLOR: NONE	ODOR: NONE	
FILTRATE (0.45 um) ☑ YES ☐ NO		
FILTRATE COLOR: NONE	FILTRATE ODOR: NONE	
QC SAMPLE: ☐ MS/MSD ☐ DUP-		
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)*	CUMULATIVE PURGE VOLUME (GAL OR L)
1015	200	7.46	599	-53	6.57	33.7	10.26	NM	INITIAL
1020	200	7.47	624	-56	0.00	16.7	11.02	↓	1.0
1025	200	7.47	634	-61	0.00	8.9	11.36	↓	2.0
1030	200	7.46	636	-63	0.00	7.1	11.60	↓	3.0
1035	200	7.45	647	-65	0.00	5.6	11.56	↓	4.0
1040	200	7.45	647	-66	0.00	2.3	11.60	↓	5.0
1045	200	7.45	648	-68	0.00	1.8	11.58	↓	6.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

* PROBE DOES NOT FIT DOWN WELL *

BOTTLES FILLED	PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/29/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 11/29/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML	DATE: 11/29 /1	BY: JML	DATE: 12/3/14

SAMPLE ID: MW-30i WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1055	DATE: 11/ 29 /18	SAMPLE	TIME: 1125	DATE: 11/ 29 /1

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 1.23 T/ PVC

DEPTH TO BOTTOM 18.20 T/ PVC

WELL VOLUME: 2.77 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 3.0 ☐ LITERS ☐ GALLONS

COLOR: NONE ODOR: NONE

TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 7.31 SU CONDUCTIVITY: 830 umhos/cm

ORP: -88 mV DO: 0.00 mg/L

TURBIDITY: 9.1 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 10.12 °C OTHER:

COLOR: NONE ODOR: NONE

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: NONE FILTRATE ODOR: NONE

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1055	100	7.32	697	-62	5.60	34.5	12.24	1.23	INITIAL
1100	100	7.27	821	-72	0.77	30.9	10.71	1.23	0.5
1105	100	7.28	827	-80	0.00	16.3	10.84	1.23	1.0
1110	100	7.30	828	-84	0.00	9.8	10.37	1.23	1.5
1115	100	7.30	829	-86	0.00	9.2	10.18	1.23	2.0
1120	100	7.31	830	-87	0.00	9.7	10.15	1.23	2.5
1125	100	7.31	830	-88	0.00	9.1	10.12	1.23	3.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or </= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/29/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 11/29/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/29/18	BY: JML DATE: 12/3/18

SAMPLE ID: MW-30s(R) WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1225	DATE: 11/29/18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 1.04 T/ PVC

DEPTH TO BOTTOM: 13.04 T/ PVC

WELL VOLUME: 1.96 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 4.5 ☒ LITERS ☐ GALLONS

COLOR: NONE ODOR: NONE

TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

SAMPLE	TIME: 1310	DATE: 11/29/18

PH: 7.31 SU CONDUCTIVITY: 808 umhos/cm

ORP: -90 mV DO: 0.00 mg/L

TURBIDITY: 1.7 NTU

☑ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.35 °C OTHER:

COLOR: NONE ODOR: NONE

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: NONE FILTRATE ODOR: NONE

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1225	100	7.23	796	-68	9.76	34.3	10.92	1.02	INITIAL
1230	100	7.28	810	-83	6.57	39.5	11.35	1.06	0.5
1235	100	7.29	807	-84	3.02	37.9	11.06	1.07	1.0
1240	100	7.30	808	-87	1.00	22.3	11.00	1.06	1.5
1245	100	7.31	808	-90	0.00	14.1	10.90	1.04	2.0
1250	100	7.31	809	-91	0.00	20.2	10.94	1.05	2.5
1255	100	7.29	809	-86	0.00	13.6	11.51	1.05	3.0
1300	100	7.30	808	-89	0.00	8.4	11.48	1.05	3.5
1305	100	7.30	808	-90	0.00	2.3	11.38	1.06	4.0
1310	100	7.31	808	-90	0.00	1.7	11.35	1.05	4.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/29/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 11/29/18

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WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML DATE: 11/28/18	BY: JML DATE: 12/3/18

SAMPLE ID: ~~MW-34s~~ JML MW-31s

WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING		SAMPLE	
TIME: ~~0910~~ 0925	DATE: 11/28/18	TIME: 1210	DATE: 11/28/18
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 9.88 SU	CONDUCTIVITY: 345 umhos/cm
		ORP: 18 mV	DO: 0.10 mg/L
DEPTH TO WATER: 3.57 T/ PVC		TURBIDITY: 7.1 NTU	
DEPTH TO BOTTOM 10.34 T/ PVC		☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	
WELL VOLUME: 16.0 ☒ LITERS ☐ GALLONS		TEMPERATURE: 6.89 °C	OTHER:
VOLUME REMOVED: 1.10 ☐ LITERS ☒ GALLONS		COLOR: clear	ODOR: chemical like
COLOR: Brown	ODOR: chemical like	FILTRATE (0.45 um) ☑ YES	☐ NO
TURBIDITY ☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY		FILTRATE COLOR: clear	FILTRATE ODOR: chemical like
		QC SAMPLE: ☐ MS/MSD	☒ DUP- 04 1240
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER		COMMENTS:	

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0930	100	8.40	424	21	12.89	252	5.02	4.75	INITIAL
0935 ~~0920~~	100	10.22	395	-39	5.30	872	6.67	5.18	0.5
0940	100	10.51	390	-42	4.20	860	7.44	5.67	1.0
0945	100	10.61	390	-43	2.91	709	7.13	5.83	1.5
0950	100	10.75	387	-41	1.38	557	6.86	5.99	2.0
0955	100	10.77	389	-40	0.54	475	6.66	6.10	2.5
1000	100	10.80	388	-41	0.00	401	6.55	6.24	3.0
1005	100	10.80	387	-41	0.00	355	6.61	6.33	3.5
1010	100	10.78	385	-41	0.00	285	6.61	6.41	4.0
1015	100	10.71	383	-40	0.00	210	6.75	6.50	4.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED:	AIRBILL NUMBER: 1999-8059-9	
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 11/28/18	

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WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LE Carpenter & Co.	PREPARED		CHECKED	
PROJECT NUMBER:	293107.00	BY: JML	DATE: 11/28/14	BY: JML	DATE: 12/3/14

SAMPLE ID: MW-31s

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1020	100	10.62	360	-36	0.00	175	6.77	6.78	5.0
1025	100	10.56	381	-36	0.00	149	6.51	6.45	5.5
1030	100	10.53	361	-33	0.00	135	6.24	6.35	6.0
1035	100	10.48	378	-29	0.00	123	6.21	6.18	6.5
1040	100	10.43	377	-25	0.00	103	6.17	6.05	7.0
1045	100	10.41	375	-21	0.00	87.9	6.15	5.98	7.5
1050	100	10.39	372	-18	0.00	75.9	6.26	5.90	8.0
1055	100	10.37	370	-15	0.00	66.6	6.46	5.85	8.5
1100	100	10.35	367	-12	0.00	61.5	6.73	5.81	9.0
1105	100	10.31	364	-8	0.00	55.4	7.17	5.80	9.5
1110	100	10.28	363	-4	0.00	48.5	7.24	5.79	10.0
1115	100	10.20	359	-2	0.00	42.0	7.39	5.77	10.5
1120	100	10.15	356	6	0.00	36.8	7.56	5.77	11.0
1125	100	10.09	354	10	0.00	32.6	7.75	5.76	11.5
1130	100	10.05	353	12	0.00	31.2	7.80	5.75	12.0
1135	100	10.01	351	14	0.00	28.1	7.96	5.73	12.5
1140	100	9.98	352	16	0.00	25.8	7.67	5.72	13.0
1145	100	9.96	352	17	0.00	21.5	7.58	5.71	13.5
1150	100	9.94	350	18	0.00	18.1	7.25	5.71	14.0
1155	100	9.93	350	16	0.00	12.7	7.10	5.70	14.5
1200	100	9.91	348	18	0.00	8.9	7.19	5.20	15.0
1205	100	9.89	346	18	0.00	7.5	7.08	5.69	15.5
1210	100	9.88	345	18	0.00	7.1	6.89	5.69	16.0

SIGNATURE: [signature] DATE SIGNED: 11/28/14

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/27/18	BY: JML DATE: 12/3/18

SAMPLE ID: MW-32s WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1149	DATE: 11/27/18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER	
DEPTH TO WATER: 4.80 T/ PVC		
DEPTH TO BOTTOM 10.43 T/ PVC		
WELL VOLUME: 0.92 ☐ LITERS ☒ GALLONS		
VOLUME REMOVED: 15.5 ☒ LITERS ☐ GALLONS		
COLOR: Slight brown	ODOR: chemical like	
TURBIDITY ☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER		

SAMPLE	TIME: 1430	DATE: 11/27/18
PH: 7.11 SU	CONDUCTIVITY: 852 umhos/cm	
ORP: -87 mV	DO: 0.00 mg/L	
TURBIDITY: 22.9 NTU		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: 7.27 °C	OTHER:	
COLOR: Clear	ODOR: chemical like	
FILTRATE (0.45 um) ☑ YES ☐ NO		
FILTRATE COLOR: Clear	FILTRATE ODOR: chemical like	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1155	100	6.96	716	-6	9.33	50.9	7.62	5.05	INITIAL
1200	100	6.97	732	-39	0.75	42.7	7.86	5.12	0.5
1205	100	7.01	735	-52	0.00	34.5	7.85	5.18	1.0
1210	100	7.04	733	-56	0.00	32.5	7.77	5.22	1.5
1215	100	7.06	730	-62	0.00	33.9	7.76	5.26	2.0
1220	100	7.11	725	-63	0.00	28.4	7.71	5.30	2.5
1225	100	7.13	721	-64	0.00	26.7	7.67	5.35	3.0
1230	100	7.14	716	-64	0.00	27.9	7.63	5.38	3.5
1235	100	7.15	714	-64	0.00	26.1	7.63	5.42	4.0
1240	100	7.15	714	-63	0.00	25.5	7.58	5.45	4.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/27/18	AIRBILL NUMBER: 1999-8059-9	
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 11/27/18	

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WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER:	239107.0000.0000	BY: Z, JC, EO, JM	DATE: 11/27/18	BY: JML	DATE: 12/3/18

SAMPLE ID: MW-32s

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1245	100	7.14	716	-62	0.00	27.7	7.54	5.48	5.0
1250	100	7.13	721	-61	0.00	24.9	7.53	5.51	5.5
1255	100	7.12	734	JM -59	0.00	24.4	7.53	5.52	6.0
1300	100	7.11	746	-58	0.00	23.7	7.55	5.52	6.5
1305	100	7.11	762	-56	0.00	24.9	7.56	5.53	7.0
1310	100	7.11	787	-56	0.00	23.1	7.88	5.55	7.5
1315	100	7.15	803	-61	0.00	22.1	7.91	5.58	8.0
1320	100	7.18	809	-65	0.00	21.4	7.70	5.61	8.5
1325	100	7.15	820	-70	0.00	22.7	7.64	5.59	9.0
1330	100	7.14	835	-75	0.00	22.9	7.63	5.57	9.5
1335	100	7.14	845	-79	0.00	23.2	7.65	5.55	10.0
1340	100	7.14	850	-80	0.00	23.1	7.61	5.58	10.5
1345	100	7.14	856	-82	0.00	23.3	7.55	5.63	11.0
1350	100	7.14	858	-84	0.00	23.2	7.48	5.66	11.5
1355	100	7.13	859	-84	0.00	22.9	7.45	5.68	12.0
1400	100	7.13	859	-85	0.00	22.7	7.43	5.71	12.5
1405	100	7.12	859	-85	0.00	22.9	7.44	5.74	13.0
1410	100	7.11	857	-85	0.00	22.6	7.42	5.77	13.5
1415	100	7.11	856	-86	0.00	22.8	7.41	5.81	14.0
1420	100	7.11	855	-86	0.00	22.8	7.40	5.83	14.5
1425	100	7.11	854	-87	0.00	23.0	7.28	5.86	15.0
1430	100	7.11	852	-87	0.00	22.9	7.27	5.89	15.5

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DATE SIGNED: 11/27/18

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/28/18	BY: JML DATE: 12/3/18

SAMPLE ID: MW-33s WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1343	DATE: 11/28/18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER	
DEPTH TO WATER: 5.15 T/ PVC		
DEPTH TO BOTTOM 10.35 T/ PVC		
WELL VOLUME: 0.88 ☐ LITERS ☒ GALLONS		
VOLUME REMOVED: 6.0 ☒ LITERS ☐ GALLONS		
COLOR: —	ODOR: Slight chemical	
TURBIDITY ☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER		

SAMPLE	TIME: 1448	DATE: 11/28/18
PH: 7.21 SU	CONDUCTIVITY: 334 umhos/cm	
ORP: -36 mV	DO: 0.00 mg/L	
TURBIDITY: 0.0 NTU		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: 7.49 °C	OTHER:	
COLOR: Clear	ODOR: Slight chemical	
FILTRATE (0.45 um) ☑ YES ☐ NO		
FILTRATE COLOR: Clear	FILTRATE ODOR: Slight chemical	
QC SAMPLE: ☐ MS/MSD ☐ DUP-		
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1348	100	9.16	282	107	5.70	81.3	6.62	5.50	INITIAL
1353	100	8.06	280	87	0.00	97.1	7.90	6.25	0.5
1358	100	7.74	282	76	0.00	87.9	7.52	6.40	1.0
1403	100	7.50	287	50	0.00	69.5	7.28	6.54	1.5
1408	100	7.42	301	11	0.00	50.3	7.38	6.65	2.0
1413	100	7.34	307	-3	0.00	33.7	7.52	6.75	2.5
1418	100	7.31	314	-13	0.00	20.2	7.36	6.88	3.0
1423	100	7.29	319	-21	0.00	13.9	7.36	6.94	3.5
1428	100	7.27	323	-25	0.00	10.7	7.36	7.00	4.0
1433	100	7.25	326	-28	0.00	7.1	7.41	7.04	4.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or </= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/28/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	11/28/18

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WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER:	239107.0000.0000	BY: Z, JC, EO, JN	DATE: 11/28/18	BY: JM	DATE: 12/3/18

SAMPLE ID: MW-335

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1438	100	7.23	330	-33	0.00	2.3	7.44	7.11	5.0
1443	100	7.22	332	-34	0.00	1.4	7.51	7.17	5.5
1448	100	7.21	334	-36	0.00	0.0	7.49	7.12	6.0

SIGNATURE: [signature]

DATE SIGNED: 11/28/18

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/26 /18	BY: DATE:

SAMPLE ID: MW-~~34D~~ 34S — WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING		SAMPLE	
TIME: 1032	DATE: 11/26 /18	TIME: 1420	DATE: 11/26 /18
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 6.55 SU	CONDUCTIVITY: ~~8.66~~ 8.49 umhos/cm
		ORP: 8 mV	DO: 0.00 mg/L
DEPTH TO WATER: 4.75 T/ PVC		TURBIDITY: 33.4 NTU	
DEPTH TO BOTTOM 10.35 T/ PVC		☒ NONE ~~☒ SLIGHT~~ (JML) ☐ MODERATE ☐ VERY	
WELL VOLUME: 5.91 ☐ LITERS ☒ GALLONS		TEMPERATURE: 8.58 °C	OTHER: —
VOLUME REMOVED: 16.5 ☒ LITERS ☐ GALLONS		COLOR: Clear	ODOR: —
COLOR: Brown	ODOR: —	FILTRATE (0.45 um) ☑ YES ☐ NO	
TURBIDITY ☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY		FILTRATE COLOR: Clear	FILTRATE ODOR: —
		QC SAMPLE: ☐ MS/MSD	☒ DUP- 02 1600
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER		COMMENTS:	

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1035	100	6.01	452	115	5.36	142	10.52	5.41	INITIAL
1040				Control box/pump issue					
1140 ~~1045~~	100	6.56	362	150	1.14	76.1	9.27	5.11	0.5
1145 ~~1050~~	100	6.62	358	135	0.00	72.5	9.22	5.21	1.0
1150 ~~1055~~	100	6.63	386	124	0.00	65.5	9.17	5.21	1.5
1155 ~~1100~~	100	6.61	417	110	0.00	68.2	9.16	5.24	2.00
1200 ~~1105~~	100	6.61	433	102	0.00	66.6	9.14	5.26	2.5
1205	100	6.60	467	85	0.00	63.9	9.12	5.29	3.0
1210	100	6.59	484	76	0.00	64.4	9.12	5.31	3.5
1215	100	6.56	501	65	0.00	55.7	9.11	5.34	4.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or </= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED — PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/26/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	11/26/18

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TRC

WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 239107.0000.0000	BY: Z, JC, EO, JM DATE: 11/26/18	BY: JMB DATE: 12/3/14

SAMPLE ID: MW-345

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1220	100	6.58	516	57	0.00	57.0	9.10	5.31	4.5
1225	100	6.56	526	53	0.00	56.5	9.07	5.32	5.0
1230	100	6.58	531	48	0.00	53.5	9.07	5.32	5.5
1235	100	6.58	539	43	0.00	52.2	9.07	5.32	6.0
1240	100	6.58	547	39	0.00	52.0	9.05	5.32	6.5
1245	100	6.58	555	33	0.00	53.0	9.05	5.32	7.0
1250	100	6.59	559	30	0.00	52.3	9.03	5.32	7.5
1255	100	6.58	562	28	0.00	49.5	9.01	5.32	8.0
1300	100	6.59	564	27	0.00	48.0	8.99	5.32	8.5
1305	100	6.59	568	25	0.00	46.4	8.97	5.32	9.0
1310	100	6.59	570	24	0.00	45.6	8.96	5.32	9.5
1315	100	6.60	570	23	0.00	42.4	8.94	5.32	10.0
1320	100	6.60	572	21	0.00	41.1	8.93	5.32	10.5
1325	100	6.59	574	19	0.00	38.8	8.91	5.32	11.0
1330	100	6.60	576	17	0.00	37.1	8.87	5.32	11.5
1335	100	6.59	578	16	0.00	38.5	8.84	5.32	12.0
1340	100	6.60	580	16	0.00	37.9	8.81	5.32	12.5
1345	100	6.60	582	14	0.00	36.9	8.78	5.32	13.0
1350	100	6.59	584	13	0.00	36.4	8.75	5.32	13.5
1355	100	6.59	586	11	0.00	37.6	8.74	5.33	14.0
1400	100	6.59	589	10	0.00	35.4	8.71	5.34	14.5
1405	100	6.59	586	10	0.00	36.1	8.66	5.35	15.0
1410	100	6.59	587	9	0.00	34.7	8.66	5.36	15.5
1415	100	6.59	6884	8	0.00	33.2	8.61	5.36	16.0
1420	100	6.59	8589	8	0.00	33.4	8.58	5.37	16.5

SIGNATURE: [signature] DATE SIGNED: 11/26/18

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TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/27/18	BY: JML DATE: 12/5/18

SAMPLE ID: MW-35s WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0954	DATE: 11/27/18
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER		
DEPTH TO WATER: 3.46 T/ PVC		
DEPTH TO BOTTOM 10.32 T/ PVC		
WELL VOLUME: 1.12 ☐ LITERS ☒ GALLONS		
VOLUME REMOVED: 3.0 ☒ LITERS ☐ GALLONS		
COLOR: Clear	ODOR: Chemical-like	
TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER		

SAMPLE	TIME: 1026	DATE: 11/27/18
PH: 6.90 SU	CONDUCTIVITY: 507 umhos/cm	
ORP: -96 mV	DO: 0.00 mg/L	
TURBIDITY: 0.0 NTU		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: 9.75 °C	OTHER:	
COLOR: Clear	ODOR: chemical like	
FILTRATE (0.45 um) ☑ YES ☐ NO		
FILTRATE COLOR: clear	FILTRATE ODOR: chemical like	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0956	100	6.19	532	41	7.50	0.0	10.14	4.25	INITIAL
1001	100	6.66	513	-47	0.00	0.0	10.12	4.52	0.5
1006	100	6.81	506	-74	0.00	0.0	9.92	4.55	1.0
1011	100	6.85	506	-84	0.00	0.0	9.78	4.50	1.5
1016	100	6.87	507	-90	0.00	0.0	9.76	4.48	2.0
1021	100	6.89	506	-93	0.00	0.0	9.73	4.45	2.5
1026	100	6.90	507	-96	0.00	0.0	9.75	4.45	3.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/27/18	AIRBILL NUMBER: 1999-8059-9	
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 11/27/18	

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TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/26/18	BY: JML DATE: 12/3/18

SAMPLE ID: TMW-01 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1030	DATE: 11/26/18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 2.47 T/ PVC

DEPTH TO BOTTOM: 9.27 T/ PVC

WELL VOLUME: 1.11 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 7.5 ☒ LITERS ☐ GALLONS

COLOR: NONE ODOR: NONE

TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

SAMPLE	TIME: 1120	DATE: 11/26/18

PH: 6.99 SU CONDUCTIVITY: 726 umhos/cm

ORP: -109 mV DO: 0.00 mg/L

TURBIDITY: 6.4 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.58 °C OTHER:

COLOR: NONE ODOR: NONE

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: NONE FILTRATE ODOR: NONE

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1030	150	6.56	735	-68	9.30	170	11.49	2.80	INITIAL
1035	150	6.87	729	-94	0.77	113	11.58	2.78	0.75
1040	150	6.92	727	-100	0.00	78.2	11.56	2.76	1.5
1045	150	6.98	726	-105	0.00	36.9	11.55	2.75	2.25
1050	150	6.98	726	-106	0.00	28.7	11.57	2.71	3.0
1055	150	6.98	726	-107	0.00	23.8	11.54	2.73	3.75
1100	150	6.99	726	-108	0.00	16.9	11.54	2.76	4.5
1105	150	6.98	726	-109	0.00	12.3	11.59	2.75	5.25
1110	150	6.99	726	-109	0.00	6.3	11.59	2.74	6.0
1115	150	6.99	726	-109	0.00	6.4	11.60	2.75	6.75

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/26/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 11/26/18

TRC

WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER:	239107.0000.0000	BY: Z, JC, EO, JN	DATE: 11/26/18	BY: JML	DATE: 12/3/18

SAMPLE ID: TMW-01

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1120	150	6.99	726	-109	0.00	6.4	11.58	2.78	7.5

SIGNATURE: [signature]

DATE SIGNED: 11/26/18

C414500

170 N Main St
Wharton, NJ

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/26 /18	BY: JML DATE: 12/3/18

SAMPLE ID: TMW-02 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1210	DATE: 11/26/18	SAMPLE	TIME: 1255	DATE: 11/26/18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 3.70 T/ PVC

DEPTH TO BOTTOM: 9.29 T/ PVC

WELL VOLUME: 0.91 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 6.75 ☒ LITERS ☐ GALLONS

COLOR: NONE ODOR: NONE

TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 6.64 SU CONDUCTIVITY: 809 umhos/cm

ORP: -52 mV DO: 0.00 mg/L

TURBIDITY: 6.9 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 7.06 °C OTHER:

COLOR: NONE ODOR: NONE

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: NONE FILTRATE ODOR: NONE

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1210	150	6.66	862	-39	11.93	19.2	9.53	3.17	INITIAL
1215	150	6.65	881	-44	0.14	18.9	8.36	3.65	0.75
1220	150	6.66	879	-46	0.00	17.7	7.85	3.88	1.5
1225	150	6.65	872	-48	0.00	12.5	7.57	3.98	2.25
1230	150	6.65	864	-50	0.00	9.2	7.46	4.03	3.0
1235	150	6.65	841	-51	0.00	5.7	7.33	4.10	3.75
1240	150	6.64	817	-50	0.00	4.9	7.27	4.08	4.5
1245	150	6.65	810	-51	0.00	6.0	7.19	4.10	5.25
1250	150	6.65	810	-51	0.00	6.7	7.09	4.10	6.0
1255	150	6.64	809	-52	0.00	6.9	7.06	4.11	6.75

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/26/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE:	DATE SIGNED: 11/26/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME:	LEC Wharton	PREPARED		CHECKED	
PROJECT NUMBER:	293107.0000	BY: DZ, JC, EO, JML	DATE: 11/26/18	BY: JML	DATE: 12/3/18

SAMPLE ID: TMW-03 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1345	DATE: 11/26/18	SAMPLE	TIME: 1430	DATE: 11/26/18
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 6.51 SU	CONDUCTIVITY: 782 umhos/cm	
			ORP: -50 mV	DO: 0.00 mg/L	
DEPTH TO WATER: 4.15 T/ PVC			TURBIDITY: 9.1 NTU		
DEPTH TO BOTTOM 9.19 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 0.82 ☐ LITERS ☒ GALLONS			TEMPERATURE: 7.51 °C	OTHER:	
VOLUME REMOVED: 6.75 ☒ LITERS ☐ GALLONS			COLOR: clear	ODOR: strong chem	
COLOR: LIGHT GREY	ODOR: STRONG CHEM.		FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY			FILTRATE COLOR: clear	FILTRATE ODOR: strong chem	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD	☒ DUP- 03 1440	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1345	150	6.60	843	-32	3.68	127	8.04	3.00	INITIAL
1350	150	6.57	844	-39	1.83	107	7.90	4.50	0.75
1355	150	6.55	832	-43	0.29	99.6	7.90	4.75	1.5
1400	150	6.55	822	-44	0.10	84.2	7.81	4.83	2.25
1405	150	6.53	811	-45	0.00	71.0	7.71	4.98	3.0
1410	150	6.54	804	-46	0.00	55.5	7.63	5.05	3.75
1415	150	6.50	785	-48	0.00	18.3	7.54	5.15	4.5
1420	150	6.50	784	-49	0.00	10.4	7.51	5.18	5.25
1425	150	6.51	782	-50	0.00	9.8	7.50	5.20	6.0
1430	150	6.51	782	-50	0.00	9.1	7.51	5.23	6.75

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/26/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:		DATE SIGNED:	11/26/16

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC (EO) JML DATE: 11/27 /1	BY: JML DATE: 12/3/18

SAMPLE ID: TMW-04 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0950	DATE: 8/ /18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 3.44 T/ PVC

DEPTH TO BOTTOM 9.14 T/ PVC

WELL VOLUME: 0.93 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 3.5 ☒ LITERS ☐ GALLONS

COLOR: CLEAR/NONE ODOR: CHEMICAL-LIKE

TURBIDITY

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

SAMPLE	TIME: 1025	DATE: 11/ 27 /1

PH: 6.98 SU CONDUCTIVITY: 1080 umhos/cm

ORP: -72 mV DO: 0.00 mg/L

TURBIDITY: 4.9 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 7.10 °C OTHER:

COLOR: CLEAR/NONE ODOR: CHEMICAL-LIKE

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: CLEAR/NONE FILTRATE ODOR: CHEM-LIKE

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0950	100	6.26	991	-29	7.88	16.9	7.97	3.70	INITIAL
0955	100	6.73	987	-60	3.53	13.4	7.61	3.79	0.5
1000	100	6.89	988	-65	0.00	12.6	7.41	3.71	1.0
1005	100	6.94	1020	-67	0.00	6.3	7.20	3.75	1.5
1010	100	6.95	1030	-69	0.00	6.0	7.17	3.77	2.0
1015	100	6.97	1050	-70	0.00	5.6	7.12	3.78	2.5
1020	100	6.98	1070	-71	0.00	4.8	7.09	3.76	3.0
1025	100	6.98	1080	-72	0.00	4.9	7.10	3.78	3.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or </= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/27/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 11/27/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/27/18	BY: JML DATE: 12/3/18

SAMPLE ID: TMW-05 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1130	DATE: 11/27/18	SAMPLE	TIME: 1210	DATE: 11/27/18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 2.63 T/ PVC

DEPTH TO BOTTOM 9.09 T/ PVC

WELL VOLUME: 1.05 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 4.0 ☒ LITERS ☐ GALLONS

COLOR: NONE ODOR: NONE

TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 7.00 SU CONDUCTIVITY: 760 umhos/cm

ORP: -39 mV DO: 0.00 mg/L

TURBIDITY: 3.6 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 6.74 °C OTHER:

COLOR: NONE ODOR: NONE

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: NONE FILTRATE ODOR: NONE

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1130	100	7.22	754	-32	8.22	329	7.17	2.80	INITIAL
1135	100	7.10	756	-13	0.00	430	7.04	2.70	0.5
1140	100	7.05	756	-17	0.08	155	6.92	2.75	1.0
1145	100	7.04	757	-20	0.00	99.7	6.78	2.81	1.5
1150	100	7.04	757	-29	0.00	38.9	6.69	2.90	2.0
1155	100	7.02	759	-32	0.00	15.7	6.68	2.81	2.5
1200	100	7.01	760	-35	0.00	9.6	6.72	2.82	3.0
1205	100	7.00	760	-38	0.00	4.0	6.71	2.80	3.5
1210	100	7.00	760	-39	0.00	3.6	6.74	2.83	4.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/27/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:		DATE SIGNED:	11/27/18

REVISED 06/2011

TRC

WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/28/1	BY: JML DATE: 12/3/14

SAMPLE ID: TMW-~~08~~06

WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0920	DATE: 11/28/18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 3.10 T/ PVC

DEPTH TO BOTTOM: 9.65 T/ PVC

WELL VOLUME: 0.99 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 6.0 ☒ LITERS ☐ GALLONS

COLOR: SLIGHTLY GREY ODOR: NONE

TURBIDITY ☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

SAMPLE	TIME: 0950	DATE: 11/28/1

PH: 7.31 SU CONDUCTIVITY: 611 umhos/cm

ORP: -54 mV DO: 0.00 mg/L

TURBIDITY: 0.0 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 6.09 °C OTHER: —

COLOR: Clear ODOR: —

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: —

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0920	200	5.59	637	106	0.47	455	5.69	3.10	INITIAL
0925	200	7.19	627	-28	0.00	87.3	6.50	3.11	1.0
0930	200	7.28	616	-44	0.00	0.0	6.62	3.13	2.0
0935	200	7.30	613	-48	0.00	4.0	6.20	3.10	3.0
0940	200	7.30	612	-50	0.00	0.0	6.12	3.11	4.0
0945	200	7.31	612	-52	0.00	0.0	6.11	3.11	5.0
0950	200	7.31	611	-54	0.00	0.0	6.09	3.10	6.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/28/14	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	11/28/18

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/28/18	BY: JML DATE: 12/3/18

SAMPLE ID: TMW-07 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1025	DATE: 11/28/18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 2.71 T/ PVC

DEPTH TO BOTTOM: 8.98 T/ PVC

WELL VOLUME: 1.02 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 3.5 ☒ LITERS ☐ GALLONS

COLOR: NONE ODOR: NONE

TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☑ OTHER

SAMPLE	TIME: 1100	DATE: 11/28/18

PH: 7.41 SU CONDUCTIVITY: 693 umhos/cm

ORP: -68 mV DO: 0.00 mg/L

TURBIDITY: 0.0 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 10.92 °C OTHER:

COLOR: NONE ODOR: NONE

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: NONE FILTRATE ODOR: NONE

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1025	100	7.39	710	-20	3.69	62.3	9.80	2.73	INITIAL
1030	100	7.39	707	-51	0.00	34.6	9.47	3.10	0.5
1035	100	7.39	697	-54	0.00	237	10.90	3.12	1.0
1040	100	7.40	694	-60	0.00	34.1	11.15	3.10	1.5
1045	100	7.41	693	-61	0.00	18.4	11.10	3.11	2.0
1050	100	7.41	694	-66	0.00	9.8	10.99	3.05	2.5
1055	100	7.41	694	-66	0.00	0.0	10.93	2.94	3.0
1100	100	7.41	693	-68	0.00	0.0	10.92	2.96	3.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 11/28/18	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: E.O.	DATE SIGNED: 11/28/18

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/ 27 /1	BY: JML DATE: 12/3/18

SAMPLE ID: ~~TMW-08~~ TMW-08 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1320	DATE: 11/ 27 /18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 2.36 T/ PVC

DEPTH TO BOTTOM 9.11 T/ PVC

WELL VOLUME: 1.1 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 3.0 ☒ LITERS ☐ GALLONS

COLOR: NONE ODOR: NONE

TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

SAMPLE	TIME: 1350	DATE: 11/ 27 /1

PH: 7.25 SU CONDUCTIVITY: 686 umhos/cm

ORP: -57 mV DO: 0.00 mg/L

TURBIDITY: 2.1 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 9.64 °C OTHER:

COLOR: NONE ODOR: NONE

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: NONE FILTRATE ODOR: NONE

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1320	100	7.28	691	-25	4.92	11.3	8.07	2.56	INITIAL
1325	100	7.24	686	-35	0.00	9.8	9.49	2.52	0.5
1330	100	7.25	686	-41	0.00	6.9	9.63	2.54	1.0
1335	100	7.25	685	-48	0.00	2.7	9.73	2.50	1.5
1340	100	7.25	686	-52	0.00	3.1	9.67	2.51	2.0
1345	100	7.25	685	-55	0.00	2.3	9.61	2.53	2.5
1350	100	7.25	686	-57	0.00	2.1	9.64	2.50	3.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/27/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	11/27/18

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/30/18	BY: JML DATE: 11/5/18

SAMPLE ID: TMW-09 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0922	DATE: 11/30/18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 2.42 T/ PVC

DEPTH TO BOTTOM: 9.12 T/ PVC

WELL VOLUME: 1.09 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 6.0 ☒ LITERS ☐ GALLONS

COLOR: NONE ODOR: NONE

TURBIDITY ☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

SAMPLE	TIME: 0955	DATE: 11/30/18

PH: 7.35 SU CONDUCTIVITY: 752 umhos/cm

ORP: -74 mV DO: 0.00 mg/L

TURBIDITY: 0.0 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 10.81 °C OTHER:

COLOR: NONE ODOR: NONE

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: NONE FILTRATE ODOR: NONE

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0925	200	5.65	656	194	5.45	99.6	8.59	2.44	INITIAL
0930	200	7.24	755	-52	0.00	83.3	11.14	2.96	1.0
0935	200	7.31	752	-67	0.00	26.1	11.35	2.92	2.0
0940	200	7.33	752	-70	0.00	3.6	10.98	2.81	3.0
0945	200	7.33	752	-71	0.00	0.0	10.80	2.69	4.0
0950	200	7.35	752	-74	0.00	0.0	10.79	2.63	5.0
0955	200	7.35	752	-74	0.00	0.0	10.81	2.65	6.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/30/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	11/30/18

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WATER SAMPLE LOG

PROJECT NAME: LEC Wharton	PREPARED	CHECKED
PROJECT NUMBER: 293107.0000	BY: DZ, JC, EO, JML DATE: 11/28/18	BY: JML DATE: 12/3/18

SAMPLE ID: TMW-10 WELL DIAMETER: ☑ 2" ☑ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☑ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1145	DATE: 11/28/18

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 5.00 T/ PVC

DEPTH TO BOTTOM: 9.12 T/ PVC

WELL VOLUME: 1.04 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 5.0 ☒ LITERS ☐ GALLONS

COLOR: NONE ODOR: NONE

TURBIDITY ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

SAMPLE	TIME: 1230	DATE: 11/28/18

PH: 7.37 SU CONDUCTIVITY: 642 umhos/cm

ORP: 20 mV DO: 0.00 mg/L

TURBIDITY: 2.3 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 6.30 °C OTHER:

COLOR: NONE ODOR: NONE

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: NONE FILTRATE ODOR: NONE

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1145	100	7.47	631	87	11.03	466	7.52	3.02	INITIAL
1150	100	7.49	650	115	3.20	124	7.26	3.08	0.5
1155	100	7.47	651	73	0.32	68.3	6.92	3.09	1.0
1200	100	7.41	654	49	0.00	12.3	6.66	3.10	1.5
1205	100	7.40	654	47	0.00	7.5	6.55	3.08	2.0
1210	100	7.39	652	36	0.00	16.1	6.48	3.08	2.5
1215	100	7.37	649	27	0.00	15.5	6.31	3.06	3.0
1220	100	7.37	645	24	0.00	9.8	6.30	3.05	4.0
1225	100	7.37	643	21	0.00	3.9	6.31	3.06	4.5
1230	100	7.37	642	20	0.00	2.3	6.30	3.07	5.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- 5 (<1000), 20 (>1000) ORP: +/- **NA** D.O.: +/- **0.3** TURB: +/- **10 %** or <= **10** TEMP.: +/- **0.5°C**

BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
2	1 L	AMBER	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	AMBER	A	☑ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FEDEX	DATE SHIPPED:	11/28/18	AIRBILL NUMBER:	1999-8059-9
COC NUMBER:	NA	SIGNATURE:	[signature]	DATE SIGNED:	11/28/18

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PINE

ORDER CONFIRMATION

RENTAL

Pine Environmental Services LLC
92 North Main St. - Building #20
Windsor, NJ - 08561
Main: (609) 371-9663 Toll Free: (800) 301-9663
Fax: (609) 371-1663
www.pine-environmental.com

Order Date 11/20/18
Ship Date 11/21/18
Begin Date 11/26/18

Order # C414500
Requested Date
Requested Time 3PM

Customer
TRC
Attn.: Accounts Payable, 21 Griffin Road North
WINDSOR, CT - 06095
United States

3pm

Ship To
TRC
41 SPRING STREET
SUITE 102
NEW PROVIDENCE, NJ - 07974
United States
Attn: JEN CRAPELLA
Phone: 973-248-7453

Prepared By
Stephanie Jasman

Email:jcrapella@trcsolutions.com

Customer # 23700006
Currency USD US Dollar
Project #
Purchase Order # 120167
Payment Terms Net 30 Days
Delivery Method Pine Driver
Ordered By JEN CRAPELLA 973-248-7453

Item #	Type	Description	Qty	U/M	Whse
51666	RENTAL	Horiba U52-2 Water Quality Meter Sonde 43329 41028 21296	3 ✓	EA	R01
61206	RENTAL	Horiba U-50 Series Handset 41836 21331 16193	3 ✓	EA	R01
90142	RENTAL	Flow Cell; Complete U/W-50	3 ✓	EA	R01
51701	RENTAL	WLM- 100'- Solinst Model 101 P2/M2 A00637 A02542	2 ✓	EA	R01
51860	RENTAL	PINE Peri-Pump (DC Only) 6841	1 ✓	EA	R01
90238	RENTAL	12V Rechargeable Battery (small in bag)	1 ✓	EA	R01
61223 T 1/4 x 1/4	RENTAL	QED SampPro Bladder Pump 1.75" 22413 11741 11850	3 ✓	EA	R01
51882	RENTAL	Controller/Compressor QED MP50 27559 36756 16249	3 ✓	EA	R01
61159	RENTAL	12V Marine Battery 42368 41066 39912	3 ✓	EA	R01
61160	RENTAL	12V Marine Battery Charger 37144 31721 36171	3 ✓	EA	R01

PINE

ORDER CONFIRMATION

SALES

80/94

Pine Environmental Services LLC
92 North Main St. - Building #20
Windsor, NJ - 08561
Main: (609) 371-9663 Toll Free: (800) 301-9663
Fax: (609) 371-1663
www.pine-environmental.com

Order Date
11/20/18
Ship Date
11/21/18

Order #
C414500
Requested Date

Requested Time
3PM

Customer
TRC
Attn.: Accounts Payable, 21 Griffin Road North
WINDSOR, CT - 06095
United States

Ship To
TRC
41 SPRING STREET
SUITE 102
NEW PROVIDENCE, NJ - 07974
United States
Attn: JEN CRAPELLA
Phone: 973-248-7453

Prepared By
Stephanie Jasman

Email:jcrapella@trcsolutions.com

Customer #
23700006
Currency
USD US Dollar

Project #

Purchase Order #
120167

Payment Terms
Net 30 Days
Delivery Method
Pine Driver

Ordered By
JEN CRAPELLA
973-248-7453

Item #	Type	Description	Qty	U/M	Whse
NJCERT	SALES	NJCERT	3.00	EA	S01
74101	SALES	Tubing Silicone 3/16 IDX3/8 OD	1.00	FT	S01
74101	SALES	Tubing Silicone 3/16 IDX3/8 OD	9.00	FT	S01
15125	SALES	Bladder-Teflon SamplePro 1.75"	30	EA	S01
15361	SALES	Grab Plate SS 1/4" X 1/4"	30	EA	S01
NS0050	SALES	O-Ring -SampleProPump 1.75"	30.00	EA	S01
74181	SALES	Tubing TLPE .17" x 1/4" LDPE .17" x 1/4"	500	FT	S01
71237	SALES	Water - Deionized UF 2.5G / 10L	1	EA	S01
73900	SALES	Oil Sorbent Boom; 8"x 10 4PK	1	EA	S01

Windsor NJ U01/R01

REPLACEMENT (ONLY) FORM

81/94

8:00 AM

COMPANY: TRC

CONTRACT #: C414500

SHIP TO ADDRESS: Site
170 North main St.
Wharton, NJ

*REQUIRED FIELD FOR CSR

SHIP DATE *	SHIP METHOD*	M3 EQUIPMENT DESCRIPTION*	QTY*	PINE ID REPLACED*	PINE ID (NEW)	M3 ITEM NUMBER*	DATE RETURNED
11/29/18	Pine	Sample Pro 1.75	2		37766 9201	61223	
		teflon	2			15125	
		1/4 1/4 Grab Plate	2			15361	
		O Ring	2			N50050	

CONTACT: Jen Crupella

PHONE: 973-900-4809

PINE ORDER TAKER PRINTED FULL NAME: Donna Piano

Windsor NJ U01/R01

ADDITION (ONLY) FORM

82/94

8:00AM

COMPANY: TRC

CONTRACT #: C414500

SHIP TO ADDRESS: Site
170 North Main St.
Wharton, NJ

*REQUIRED FIELD FOR CSR

SHIP DATE *	SHIP METHOD *	M3 EQUIPMENT DESCRIPTION *	QTY *	PINE ID	M3 ITEM NUMBER *	DATE RETURNED
11/29	Pine	55gal open Drum	1		71225	

CONTACT: Jen Crapella

PHONE: 973-900-4809

PINE ORDER TAKER PRINTED FULL NAME: Donna Piano

83/94

PINE

ORDER CONFIRMATION

RENTAL

Pine Environmental Services LLC
92 North Main St. - Building #20
Windsor, NJ - 08561
Main: (609) 371-9663 Toll Free: (800) 301-9663
Fax: (609) 371-1663
www.pine-environmental.com

Order Date
11/16/18
Ship Date
11/19/18
Begin Date
11/19/18

Order #
C413481
Requested Date
111918
Requested Time
8-9A

Customer
TRC
Attn.: Accounts Payable, 21 Griffin Road North
WINDSOR, CT - 06095
United States

MD 1658
3481 11/19/18

Ship To
MONMOUTH JUNCTION, NJ - JOBSITE
21 OLD RIDGE ROAD
MONMOUTH JUNCTION, NJ - 08852
United States
Attn: DAN ZIELKE
Phone: 973-900-4809/C

Prepared By
Barry Green

Email:dzielke@trcsolutions.com

Customer #
23700006
Currency
USD US Dollar

Project #

Purchase Order #
C267756

Payment Terms
Net 30 Days
Delivery Method
Pine Driver

Ordered By
DAN ZIELKE
973-900-4809

Item #	Type	Description	Qty	U/M	Whse
55337	RENTAL	Arrow 100 GNSS Receiver 3F16R3	1	EA	R01
51701	RENTAL	WLM- 100'- Solinst Model 101 P2/M2 10293	1	EA	R01
51238	RENTAL	PID-MiniRAE3000 10.6 120V PGM-7320 Monitor Only 411654	1	EA	R01
90141	RENTAL	Cal Kit - Std - 34L Regulator/ISO 100PPM/Tedlar Bag	1	EA	R01

84/94

PINE

ORDER CONFIRMATION

SALES

Environmental Services LLC
North Main St. - Building #20
Windsor, NJ - 08561
Main: (609) 371-9663 Toll Free: (800) 301-9663
Fax: (609) 371-1663
www.pine-environmental.com

Order Date
11/16/18
Ship Date
11/19/18

Order #
C413481
Requested Date
111918
Requested Time
8-9A

Customer
TRC
Attn.: Accounts Payable, 21 Griffin Road North
WINDSOR, CT - 06095
United States

Ship To
MONMOUTH JUNCTION, NJ - JOBSITE
21 OLD RIDGE ROAD
MONMOUTH JUNCTION, NJ - 08852
United States
Attn: DAN ZIELKE
Phone: 973-900-4809/C

Prepared By
Barry Green

Email:dzielke@trcsolutions.com

Customer #
23700006
Project #

Currency
USD US Dollar

Purchase Order #
C267756

Payment Terms
Net 30 Days
Delivery Method
Pine Driver

Ordered By
DAN ZIELKE
973-900-4809

Item #	Type	Description	Qty	U/M	Whse
75447	SALES	Whale II Super Purger Pump ***NEEDS TO HAVE ALLIGATOR CLIPS***	1	EA	S01

85/94 Page 1 of 3

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No.

Report Results To:

Company Name:	TRC Environmental Corp
Report To:	Scott Pawlukiewicz
Mailing Address:	2025 East Belt Line Ave, Suite 402
City, State, Zip Code:	Grand Rapids, MI 49546
Office Phone:	Cell Phone:
Email Address:	SPaluKiewicz@TRCSolutions.com

Bill To:

PO #:	
Contact Name:	
Billing Address (if different):	
City, State, Zip Code:	Windsor, CT
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By:	
Checked By:	
Soil Volatiles Preserved (circle if applicable):	MeOH Low Level Lab
Sampling Time:	

Turnaround Requirements:

- ☑ Standard
- ☐ 48 Hour*
- ☐ 4 Day*
- ☐ 24 Hour*
- ☐ 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293107

Sampled By:

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Filtered) LAB									Remarks	Possible Health Hazards?
	11/26/18	0935	SW-D-3		SW	5	3	2					✓	✓	✓										
		1000	SW-D-4										✓	✓	✓										
		1025	SW-D-1										✓	✓	✓										
		1100	SW-R-6										✓	✓	✓										
		1220	SW-D-5										✓	✓	✓										
		1250	DRC-02										✓	✓	✓										
		1415	SW-R-4										✓	✓	✓										
		1430	SW-R-3										✓	✓	✓										
		1445	SW-R-2										✓	✓	✓										
		1500	SW-R-1										✓	✓	✓										

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) [signature]		11/26/18	1655	2)			
3)				4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

☐ Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

86/94 Page 2 of 3

CHAIN-OF-CUSTODY RECORD

TRACE ANALYTICAL LABORATORIES, INC.

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No.

Report Results To:

Company Name:	TRC Environmental
Report To:	Scott Pawlukiewicz
Mailing Address:	2025 East Belt Line Ave, Suite 402
City, State, Zip Code:	Grand Rapids, MI 49546
Office Phone:	Cell Phone:
Email Address:	SPawlukiewicz@TRCsolutions.com

Bill To:

PO #:	
Contact Name:	
Billing Address (if different):	
City, State, Zip Code:	Windsor, CT
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By:	
Checked By:	
Soil Volatiles Preserved (circle if applicable):	MeOH Low Level Lab
Sampling Time:	

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: IEC 293107

Sampled By:

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y/N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	DEHP (Total)	DEHP (Diss. - Lab Filtered)	BTEX								Remarks	Possible Health Hazards?
	11/26/18	1520	SW-D-2		SW	5	3	2					✓	✓	✓									
	⊥	1530	DUP-01		⊥	⊥	⊥	⊥					✓	✓	✓									

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) [signature]		11/26/18	1655	2)			
3)				4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

[ ] Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

87/94 Page 3 of 3

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No.

Report Results To:

Company Name: TRC Environmental Corp.
Report To: Scott Pawlukiewicz
Mailing Address: 2025 East Beltline Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Office Phone:
Cell Phone:
Email Address: SPawlukiewicz@TRCSolutions.com

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By:
Checked By:
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293107
Sampled By:

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - field filtered)								Remarks	Possible Health Hazards?
	11/26/18	1120	TMW-01		GW	5	3	2					✓	✓	✓									
		1255	TMW-02										✓	✓	✓									
		1420	MW-34S										✓	✓	✓									
		1430	TMW-03										✓	✓	✓									
		1440	DUP-03										✓	✓	✓									
		1600	DUP-02										✓	✓	✓									

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) [signature]		11/26/18	1655	2)			
3)				4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

[ ] Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

TRACE
the science of compliance

phone 231.773.5998
toll-free 800.733.5998
fax 231.773.6537

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673
www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

Page 1 of 2

TRACE ID NO. 88494

TRACE USE ONLY

Logged By: Checked By:

Received on ice: Yes No Preservative Checked: Yes No N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Regulatory Requirements		Turnaround Requirements		Matrix Key	
MERA TMDL's	☐	Standard	☒	S = Soil/Solid	WI = Wipes
Drinking Water	☐	3 Day* ☐	4 Day* ☐	W = Water	LW = Liquid Waste
NPDES	☐	48 Hour* ☐	24 Hour* ☐	SL = Sludge	A = Air
Special	☐	* Requires Prior Approval		Ol = Oil	D = Drinking Water

Report Results To:

Company Name: TRC Environmental Corp.
Report to: Scott Pawlukiewicz
Mailing Address: 2025 East Beltline Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Phone: Fax:
Email Address: SPawlukiewicz@TRCsolutions.com
Cell #: Sampled by:
Project Name & #: LEC 293107

Bill To:

Billing Address (if different)
City, State, Zip Code Windsor, CT
Attn: Phone: PO #:

Request for Analytical Services

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	CLIENT SAMPLE ID	METALS FIELD FILTERED	MATRIX	NUMBER OF CONTAINERS	PRESERVATION: COOL	HCL	HNO3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Field Filtered)								REMARKS	Possible Health Hazards
	11/27/18	1025	TMW-04		GW	5	3	2					✓	✓	✓									
		1026	MW-35s										✓	✓	✓									
		1210	TMW-05										✓	✓	✓									
		1350	TMW-08										✓	✓	✓									
		1430	MW-32s										✓	✓	✓									
		1010	MW-27s										✓	✓	✓									
	11/27/18	1030	ATM-01			5	3	2					✓	✓	✓									

Please Sign

RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME
1) [signature]		11/27/18	1630	2)				3)			
4)				5)				6)			

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/cocterms.php

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

89/94

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No.

Report Results To:

Company Name: TRC Environmental Corp.	
Report To: Scott Pawlukiewicz	
Mailing Address: 2025 East Belt Line Ave, Suite 402	
City, State, Zip Code: Grand Rapids, MI 49546	
Office Phone:	Cell Phone:
Email Address: SPawlukiewicz@TRCsolutions.com	

Bill To:

PO #:	
Contact Name:	
Billing Address (if different): Windsor, CT	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By:	
Checked By:	
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab	
Sampling Time:	

Turnaround Requirements:

- [x] Standard
- [ ] 4 Day*
- [ ] 3 Day*
- [ ] 48 Hour*
- [ ] 24 Hour*

* *Requires Prior Approval*

Matrix Key:

S = Soil / Solid
W = Water
SL = Sludge
OI = Oil
WI = Wipes
LW = Liquid Waste
A = Air
D = Drinking Water

Project Name: LEEC 293107

Sampled By: DZ

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss.-field filtered)									Remarks	Possible Health Hazards?
	11/27/18	1140	PW-D-3		PW	3	3							X	X										
	↓	1340	PW-D-4		↓	↓	↓							X	X										
	↓	1420	PW-D-1		↓	↓	↓							X	X										

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) Derek Cyrillen		11/27/18	1630	2)			
3)				4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

[ ] Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

TRACE
the science of compliance

phone 231.773.5998
toll-free 800.733.5998
fax 231.773.6537

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673
www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

90/94

TRACE ID NO.

TRACE USE ONLY

Logged By: Checked By:

Received on ice: Yes No Preservative Checked: Yes No N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Report Results To:

Company Name: TRC Environmental Corp.

Report to: Scott Pawlukiewicz

Mailing Address: 2025 East Belt Line Ave, Suite 402

City, State, Zip Code: Grand Rapids, MI 49546

Phone: Fax:

Email Address: SPawlukiewicz@TRCSolutions.com

Cell #: Sampled by: EO, JML

Project Name & #: LEC 293107

Bill To:

Billing Address (if different) ~~twin~~

City, State, Zip Code Windsor, CT

Attn: Phone: PO #:

Regulatory Requirements: MERA TMDL's ☐ Drinking Water ☐ NPDES ☐ Special ☐

Turnaround Requirements: Standard ☐ 3 Day* ☐ 4 Day* ☐ 48 Hour* ☐ 24 Hour* ☐ * Requires Prior Approval

Matrix Key: S = Soil/Solid, W = Water, SL = Sludge, OI = Oil, WI = Wipes, LW = Liquid Waste, A = Air, D = Drinking Water

Request for Analytical Services

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	CLIENT SAMPLE ID	METALS FIELD FILTERED	MATRIX	NUMBER OF CONTAINERS	PRESERVATION: COOL	HCL	HNO3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Field Filtered)								REMARKS	Possible Health Hazards
	11/28/18	0950	TMW-06		GW	5	3	2					X	X	X									
		1100	TMW-07										X	X	X									
		1210	MW-31S										X	X	X									
		1230	TMW-10										X	X	X									
		1240	~~MW~~ DUP-04										X	X	X									
		1448	MW-33S										X	X	X									
	11/28/18		Trip Blank		aqueous	2		2					X											

Please Sign

RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME
1) [signature]		11/28/18	1615	2)				3)			
4)				5)				6)			

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/cocterms.php

TRACE
the science of compliance

phone 231.773.5998
toll-free 800.733.5998
fax 231.773.6537

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673
www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

9/1/94

TRACE ID NO.

Report Results To:

Company Name: TRC Environmental Corp.
Report to: Scott Pawlukiewicz
Mailing Address: 2025 East Belt Line Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Phone:
Fax:
Email Address: SPawlukiewicz@TRCSolutions.com
Cell #:
Sampled by: DZ
Project Name & #: LEC 293107

Bill To:

Billing Address (if different)
City, State, Zip Code Windsor, CT
Attn:
Phone:
PO #:

TRACE USE ONLY

Logged By:
Checked By:
Received on ice: Yes No
Preservative Checked: Yes No N/A
Soil Volatiles Preserved: MeOH Low Level Lab
Sampling Time:

Regulatory Requirements
MERA TMDL's ☐
Drinking Water ☐
NPDES ☐
Special ☐

Turnaround Requirements
Standard ☒
3 Day* ☐ 4 Day* ☐
48 Hour* ☐ 24 Hour* ☐
* Requires Prior Approval

Matrix Key
S = Soil/Solid
W = Water
SL = Sludge
OI = Oil
WI = Wipes
LW = Liquid Waste
A = Air
D = Drinking Water

Request for Analytical Services

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	CLIENT SAMPLE ID	METALS FIELD FILTERED	MATRIX	NUMBER OF CONTAINERS	COOL	HCL	HNO3	H_2SO_4	NaOH	Other	DEHP (Total)	DEHP (Diss.-field filtered)								REMARKS	Possible Health Hazards
	11/28/18	1030	PW-RR-TJ-MC		PW	3	3						X	X									
		1040	DUP-05										X	X									
		1130	PW-RR-TJ-LB										X	X									
		1230	PW-RR-TI-LB										X	X									
		1430	PW-RR-TH-LB										X	X									
	11/28/18	0900	PW-D-2		PW	3	3						X	X									

Please Sign

RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME
1) [signature]		11/28/18	1615	2)				3)			
4)				5)				6)			

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/cocterms.php

TRACE
the science of compliance

phone 231.773.5998
toll-free 800.733.5998
fax 231.773.6537

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673
www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

12/5/14

TRACE ID NO.

TRACE USE ONLY

Logged By: Checked By:

Received on ice: Yes No Preservative Checked: Yes No N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Regulatory Requirements		Turnaround Requirements		Matrix Key	
MERA TMDL's	☐	Standard	☑	S = Soil/Solid	WI = Wipes
Drinking Water	☐	3 Day* ☐	4 Day* ☐	W = Water	LW = Liquid Waste
NPDES	☐	48 Hour* ☐	24 Hour* ☐	SL = Sludge	A = Air
Special	☐	* Requires Prior Approval		Ol = Oil	D = Drinking Water

Report Results To:

Company Name: TRC Environmental Corp.
Report to: Scott Pawlukiewicz
Mailing Address: 2025 East Beltline Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Phone: Fax:
Email Address: SPawlukiewicz@TRCsolutions.com
Cell #: Sampled by: JML, EO
Project Name & #: LEC 293107

Bill To:

Billing Address (if different)
City, State, Zip Code Windsor, CT
Attn: Phone: PO #:

Request for Analytical Services

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	CLIENT SAMPLE ID	METALS FIELD FILTERED	MATRIX	NUMBER OF CONTAINERS	PRESERVATION: COOL	HCL	HNO3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss.-Field Filtered)									REMARKS	Possible Health Hazards
	11/29/18	0950	MW-29s		GW	11	7	4					X	X	X										
		0952	MW-25(R)			3	3							X	X										
		1045	MW-30d			3	3							X	X										
		1125	MW-30I			3	3							X	X										
		1310	MW-30s(R)			3	3							X	X										
		1342	MW-08			3	3							X	X										
	11/29/18	1500	Trip Blank		Blank	2		2					X												

Please Sign

RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME
1) Jamie Cipella		11/29/18	1510	2)				3)			
4)				5)				6)			

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/cocterms.php

CHAIN-OF-CUSTODY RECORD

TRACE
the science of compliance

phone 231.773.5998
toll-free 800.733.5998
fax 231.773.6537

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673
www.trace-labs.com

TRACE ID NO. 93194

TRACE USE ONLY

Logged By: Checked By:

Received on ice: Yes No Preservative Checked: Yes No N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Regulatory Requirements		Turnaround Requirements		Matrix Key	
MERA TMDL's	☐	Standard	☑	S = Soil/Solid	WI = Wipes
Drinking Water	☐	3 Day* ☐	4 Day* ☐	W = Water	LW = Liquid Waste
NPDES	☐	48 Hour* ☐	24 Hour* ☐	SL = Sludge	A = Air
Special	☐	* Requires Prior Approval		OI = Oil	D = Drinking Water

Report Results To:

Company Name: TRC Environmental Corp
Report to: Scott Pawlukiewicz
Mailing Address: 2025 East Belt Line Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Phone: Fax:
Email Address: SPawlukiewicz@TRCEnvironmental.com
Cell #: Sampled by: DZ
Project Name & #: LEC 293107

Bill To:

Billing Address (if different)
City, State, Zip Code Windsor, CT
Attn: Phone: PO #:

Request for Analytical Services

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	CLIENT SAMPLE ID	METALS FIELD FILTERED	MATRIX	NUMBER OF CONTAINERS	PRESERVATION: COOL	HCL	HNO3	H_2SO_4	NaOH	Other	DEHP (Total)	DEHP (Diss - Field Filtered)								REMARKS	Possible Health Hazards
	11/29/15	1100	PW-RR-TG-LB		PW	3	3						X	X									
	11/29/15	1400	PW-RR-TH-RMC		PW	3	3						X	X									

Please Sign

RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME
1) [signature]		11/29/15	1540	2)				3)			
4)				5)				6)			

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/cocterms.php

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Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673
www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

TRACE ID NO. 94/94

TRACE USE ONLY

Logged By: Checked By:

Received on ice: Yes No Preservative Checked: Yes No N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Regulatory Requirements		Turnaround Requirements		Matrix Key	
MERA TMDL's	☐	Standard	☑	S = Soil/Solid	WI = Wipes
Drinking Water	☐	3 Day* ☐	4 Day* ☐	W = Water	LW = Liquid Waste
NPDES	☐	48 Hour* ☐	24 Hour* ☐	SL = Sludge	A = Air
Special	☐	* Requires Prior Approval		Ol = Oil	D = Drinking Water

Report Results To:

Company Name: TRC Environmental Corp.
Report to: Scott Pawlukiewicz
Mailing Address: 2025 East Beltline Ave. Suite 407
City, State, Zip Code: Grand Rapids, MI 49546
Phone: Fax:
Email Address: SPawlukiewicz@TRCSolutions.com
Cell #: Sampled by: JC, EO, DZ
Project Name & #: LEC 293107

Bill To:

Billing Address (if different)
City, State, Zip Code Windsor, CT
Attn: Phone: PO #:

Request for Analytical Services

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	CLIENT SAMPLE ID	METALS FIELD FILTERED	MATRIX	NUMBER OF CONTAINERS	COOL	HCL	HNO3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Field Filtered)	DEHP (Diss. - Lab Filtered)							REMARKS	Possible Health Hazards
	11/30/18	0955	TMW-09		GW	5	3	2					X	X	X									
		1000	MW-28S			3	3							X	X									
		1045	MW-28I			3	3							X	X									
	11/30/18	1030	RB-01			5	3	2					X	X		X								
		1100	RB-02			5	3	2					X	X		X								
		1130	RB-03			5	3	2					X	X		X								
	11/30/18	1230	Trip Blank			2							X											

Please Sign

RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME
1) Jennifer Capella		11/30/18	1340	2)				3)			
4)				5)				6)			

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/cocterms.php

Appendix B
Laboratory Analytical Reports

L.E. Carpenter
293107.0000.0000 Phase 1
Laboratory Data Quality Review performed for Report T18H714 by Terry Hertz of TRC Environmental Corporation on 9/27-28/2018

Sample receipt, preservation, and integrity

Forty-six groundwater/surface water/pore water samples, five field duplicates, four trip blanks, four rinsate blanks, and two atmospheric blanks were collected August 27 – September 7, 2018, and submitted to Trace Analytical Laboratories for analysis. Samples were analyzed for one or more of the following analytes: Benzene, toluene, ethylbenzene, xylenes, and bis(2-ethylhexyl)phthalate (BEHP; DEHP). BEHP was typically analyzed using total (unfiltered) and dissolved (filtered) sample volumes. Benzene, toluene, ethylbenzene, and xylenes are collectively referred to as BTEX.

Samples arrived at the laboratory correctly preserved and at an appropriate temperature (*i.e.* <6 ^{o}C) except as follows:

- Samples MW-34S, MW-35S, Dup-02, TMW-01, VOA MW-34S, VOA MW-35S, VOA Dup-02, and VOA TMW-01 were received at lab with a temperature of 14.2 ^{o}C. Bubbles were not noted in the VOA vials. No qualifiers were assigned to BEHP results. **Detected VOCs in TMW-01, MW-34S, MW-35S, and Dup-02 are assigned a "j" qualifier.**
- One cooler was received with sample temperatures at 6.3 ^{o}C. No qualifiers were assigned because the temperature was nominally (0.3 ^{o}C) above the maximum recommended temperature.
- TMW-08, TMW-06, TMW-09, TMW-10, VOA TMW-08, VOA TMW-06, VOA TMW-09, and VOA TMW-10 were received at lab with a temperature of 8.0 ^{o}C. Bubbles were not noted in the VOA vials. The temperature was only 2 degrees above the recommended limit. No qualifiers were assigned.
- PW-RR-TJ-MC, PW-RR-TJ-LB, PW-D-1, and PW-RR-TI-LB were received at lab with a temperature of 11.9 ^{o}C. VOC vials were not among the affected samples. No qualifiers were assigned.

Chains-of-Custody (CoCs) were signed. Samples were prepared and analyzed within hold times.

Analyses requested on the CoCs were reported by the laboratory. Results for m,p-xylene and o-xylene are not NELAP certified.

Laboratory QC data

Laboratory reported QC data for the various analyses were reviewed and the findings are described below.

Organic Surrogates

Organic surrogate recoveries were within QC limits (unless sample dilution occurred) with the following exceptions:

- Surrogate recoveries are not reported for BEHP analyses in MW-31S and Dup-05. These samples were diluted 100-fold. No qualifiers were assigned.

- Surrogate recoveries are not reported for BEHP analyses in TMW-03. This sample was diluted 400-fold. No qualifiers were assigned.
- Surrogate recoveries are not reported for BEHP analyses in TMW-02 and PW-RR-TG-LB. These samples were diluted 50-fold. No qualifiers were assigned.
- Nitrobenzene-d5 recovery was not reported in the BEHP analysis of Dup-05(F). This sample was diluted 10-fold. No qualifiers were assigned.
- Both nitrobenzene-d5 and 2-fluorobiphenyl in the BEHP analysis of SW-R-3(F) were recovered 3% below the lower QC limit. A "u" qualifier is assigned below to this detection. No other qualifier is assigned as a result of low surrogate recoveries.
- Nitrobenzene-d5 in the BEHP analysis of RB-01 collected on 9/7/2018 was recovered 2% below the lower QC limit. No qualifier was assigned because one base-neutral surrogate is allowed to be outside of QC limits.
- Surrogate recoveries below the lower QC limit that occurred when a sample was diluted by 10X or more were not assigned a qualifier.

Blanks

Method blanks, rinsate blanks, trip blanks, and the atmospheric blanks were free of detections of BEHP and BTEX except as follows:

- BEHP was detected at 0.22 J ug/L in the method blank for QC Batch T080021. Samples TMW-05(F), Dup-03, TMW-07, MW-25(R), MW-25(R)(F), MW-08, and MW-08(F) were associated with QC Batch T080021 and had BEHP detected, but the detected concentrations were more than five times the method blank concentration; therefore, no qualifiers were assigned.
- BEHP was detected at 0.20 J ug/L in the method blank for QC Batch T080158. Samples TMW-10, MW-33S, TMW-03, TMW-03(F), TMW-02, TMW-02(F), MW-30I, MW-30I(F), MW-30S(R), and PW-RR-TH-LB(F) were associated with QC Batch T080158 and had BEHP detected, but the detected concentrations were more than five times the method blank concentration; therefore, no qualifiers were assigned.
- BEHP was detected at 0.24 J ug/L in the method blank for QC Batch T080404. Samples SW-D-4 and SW-D-4(F) were associated with QC Batch T080404 and had BEHP detected, but the detected concentration were more than five times the method blank concentration; therefore, no qualifiers were assigned. Samples SW-R-1(F), SW-R-3(F), SW-R-6(F), SW-D-1, SW-D-1(F), SW-D-3, and SW-D-3(F) were associated with QC Batch T080404 and had BEHP detected at a concentrations less than five times the method blank concentration. **A "u" qualifier is assigned to BEHP in SW-R-1(F), SW-R-3(F), SW-R-6(F), SW-D-1, SW-D-1(F), SW-D-3, and SW-D-3(F).**
- ATM-01 had detections of m,p-xylene and total xylene at 1.6 ug/L. Comparable concentrations of m,p-xylene were detected in samples TMW-07, TMW-06, and SW-D-1. Qualifiers were not added to xylenes detected in TMW-07 because ethylbenzene was also detected. **A "u" qualifier was assigned to m,p-xylene in TMW-06 and SW-D-1.**
- ATM-01 (F) had a detection of BEHP at 10 ug/L. ATM-01 was nondetect for BEHP at <0.95 ug/L. No qualifiers were assigned because the BEHP detection in the filtered sample is not considered to be representative of atmospheric conditions because BEHP was not detected in

the unfiltered ATM-01 sample. This is considered as evidence that BEHP can be introduced to the sample as part of the filtering process.

- RB-01 collected on 8/31/2018 had m,p-xylene detected at 1.4 ug/L. Comparable concentrations of xylenes were detected in samples TMW-07, TMW-06, and SW-D-1. See the bullet above discussing xylenes in atmospheric blank ATM-01.

Other

In samples where dissolved BEHP is detected at a concentration substantially greater than the total BEHP concentration the dissolved BEHP concentration is attributed to being an artifact of the filtering procedure. **A "u" qualifier is assigned to dissolved BEHP in SW-D-5(F), PW-D-3(F), MW-30I(F), PW-RR-TI-LB(F), PW-RR-TH-LB(F), SW-R-1(F), SW-R-3(F), and SW-R-6(F) because dissolved BEHP is substantially greater than total BEHP. A "u" qualifier has already been assigned (above) to SW-R-1(F), SW-R-3(F), and SW-R-6(F) because of detections in an associated method blank. The "u" qualifier for these latter three samples is redundant and should not be assigned multiple times.**

BEHP in Dup-04 and MW-31S was quantified above the calibration range of the instrument. **A "j" qualifier is assigned to BEHP (unfiltered) in Dup-04 and MW-31S.**

Laboratory Control Samples (LCS/LCSD)

LCS recoveries for BEHP and BTEX analyses are within control limits. LCSD analyses were not performed.

Laboratory Duplicate Analyses

No laboratory duplicate analyses were peformed.

Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)

Sample MW-25(R) was used for MS/MSD analysis of BEHP and BTEX. Samples MW-31S and TMW-09 were also used for MS/MSD analyses of BTEX. MS/MSD recoveries and RPDs were within control limits.

<u>Field duplicates</u>

Calculated RPDs for field duplicates and their respective parent samples are shown in the tables below. Both the parent and duplicate need to have reported detections without an assigned "u" qualifier for the RPD to be calculated; otherwise, the RPD is not calculable (NC). RPDs <= 25% indicate acceptable precision.

Dup-01 is a field duplicate of SW-D-2. This field duplicate pair were analyzed for BEHP and BTEX. The table below shows the RPDs for these two samples. **Because the RPD is >25%, a "j" qualifier is assigned to BEHP (unfiltered) and BEHP (filtered) in SW-D-2 and Dup-01.**

Analyte	SW-D-2	Dup-01	RPD (%)
BEHP (unfiltered)	1.7	0.88	63.6
BEHP (filtered)	1.5	1.1	30.8
Benzene	<0.5	<0.5	NC
Toluene	<0.5	<0.5	NC
Ethylbenzene	<0.5	<0.5	NC
m,p-Xylenes	<1.0	<1.0	NC
o-Xylene	<0.5	<0.5	NC
Xylenes, total	<1.5	<1.5	NC

NC – Not Calculable Units are ug/L unless otherwise noted

Dup-02 is a field duplicate of MW-35S. This field duplicate pair were analyzed for BEHP and BTEX. The table below shows the RPDs for these two samples. **Because the RPD is >25%, a "j" qualifier is assigned to BEHP (unfiltered) and BEHP (filtered) in MW-35S and Dup-02.**

Analyte	MW-35S	Dup-02	RPD (%)
BEHP (unfiltered)	68	100	-38.1
BEHP (filtered)	7.4	29	-118.7
Benzene	1.1	1.2	-8.7
Toluene	0.73	0.73	0.0
Ethylbenzene	5300	5100	3.8
m,p-Xylenes	23000	23000	0.0
o-Xylene	2500	2500	0.0
Xylenes, total	26000	26000	0.0

Units are ug/L unless otherwise noted

Dup-03 is a field duplicate of TMW-05. This field duplicate pair were analyzed for BEHP and BTEX. The table below shows the RPDs for these two samples. Because the RPDs are less than or equal to 25%, no qualifiers are assigned.

Analyte	TMW-05	Dup-03	RPD (%)
BEHP (unfiltered)	11	12	-8.7
BEHP (filtered)	2.8	<0.96	NC
Benzene	<0.50	<0.50	NC
Toluene	<0.50	<0.50	NC
Ethylbenzene	11	13	-16.7
m,p-Xylenes	140	180	-25.0
o-Xylene	6.6	7.8	-16.7
Xylenes, total	150	190	-23.5

NC – Not Calculable Units are ug/L unless otherwise noted

Dup-04 is a field duplicate of MW-32S. This field duplicate pair were analyzed for BEHP and BTEX. The table below shows the RPDs for these two samples. **Because the RPD is >25%, a "j" qualifier is assigned to BEHP (unfiltered) and o-xylene in MW-32S and Dup-04.** A "j" qualifier was assigned above to BEHP (unfiltered) in Dup-04. A replicate "j" qualifier should not be assigned in the database or on summary tables (*i.e.,* only a single "j" qualifier is appropriate).

Analyte	MW-32S	Dup-04	RPD (%)
BEHP (unfiltered)	460	840	-58.5
BEHP (filtered)	<0.95	<0.95	NC
Benzene	3.1	3.3	-6.2
Toluene	44	42	4.7
Ethylbenzene	2300	2400	-4.3
m,p-Xylenes	5100	5100	0.0
o-Xylene	130	97	29.1
Xylenes, total	5200	5200	0.0

NC – Not Calculable Units are ug/L unless otherwise noted

Dup-05 is a field duplicate of PW-RR-TG-LB. This field duplicate pair were analyzed for BEHP. The table below shows the RPDs for these two samples. **Because the RPD is >25%, a "j" qualifier is assigned to BEHP (unfiltered) in PW-RR-TG-LB and Dup-05.**

Analyte	PW-RR-TG-LB	Dup-05	RPD (%)
BEHP (unfiltered)	1700	2500	-38.1
BEHP (filtered)	170	170	NC

NC – Not Calculable Units are ug/L unless otherwise noted

Corrective Action

No corrective action required.

Summary of qualifiers assigned by the data quality reviewer.

The table below does not include lab "J", "N", or other lab qualifiers that were not superseded by data reviewer qualifiers and which should therefore be considered as upheld.

Sample Name	Analyte	Qualifier assigned	Note
TMW-01	Ethylbenzene	j	
TMW-01	m,p-Xylene	j	
TMW-01	o-Xylene	j	
TMW-01	Xylenes, total	j	
MW-34S	Toluene	j	
MW-34S	Ethylbenzene	j	
MW-34S	m,p-Xylene	j	
MW-34S	Xylenes, total	j	
MW-35S	Benzene	j	
MW-35S	Toluene	j	
MW-35S	Ethylbenzene	j	
MW-35S	m,p-Xylene	j	
MW-35S	o-Xylene	j	
MW-35S	Xylenes, total	j	
Dup-02	Benzene	j	
Dup-02	Toluene	j	
Dup-02	Ethylbenzene	j	
Dup-02	m,p-Xylene	j	
Dup-02	o-Xylene	j	
Dup-02	Xylenes, total	j	
SW-R-1(F)	BEHP	u	
SW-R-3(F)	BEHP	u	
SW-R-6(F)	BEHP	u	
SW-D-1	BEHP	u	
SW-D-1(F)	BEHP	u	
SW-D-3	BEHP	u	
SW D 3(F)	BEHP	u	
TMW-06	m,p-xylene	u	
SW-D-1	m,p-xylene	u	
SW-D-5(F)	BEHP	u	
PW-D-3(F)	BEHP	u	
MW-30I(F)	BEHP	u	
PW-RR-TI-LB(F)	BEHP	u	
PW-RR-TH-LB(F)	BEHP	u	
Dup-04	BEHP	j	
MW-31S	BEHP	j	

SW-D-2	BEHP	j	
SW-D-2(F)	BEHP	j	
Dup-01	BEHP	j	
Dup-01(F)	BEHP	j	
MW-35S	BEHP	j	
MW-35S(F)	BEHP	j	
Dup-02	BEHP	j	
Dup-02(F)	BEHP	j	
MW-32S	BEHP	j	
MW-32S	o-Xylene	j	
Dup-04	BEHP	j	Note: A "j" flag is assigned to this sample and analyte above for a different reason. Only one of the "j" qualifiers is necessary. Do not apply a duplicate "J" flag in the database or on a summary table.
Dup-04	o-Xylene	j	
PW-RR-TG-LB	BEHP	j	
Dup-05	BEHP	j	

BEHP = bis(2-ethylhexyl)phthalate

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

TRACE
ANALYTICAL LABORATORIES, INC.

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www.trace-labs.com

September 26, 2018

Mr. Scott Pawlukiewicz
TRC Solutions
2025 E. Beltline Ave., SE, Ste 402
Grand Rapids, MI 49546

Phone: (616) 537-8445
Fax: (616) 975-1098

RE: Trace Project T18H714
Client Project LEC 269799.0000.0000

Dear Mr. Pawlukiewicz:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

For clients that require NELAC Accreditation, Trace certifies that these test results meet all requirements of the NELAC Standard, except for those analytes with a "N" notation. These analytes have not been evaluated by NELAC at Trace's discretion and will not be reported unless requested by client.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

Jon Mink
Senior Project Manager
Enclosures

ACCREDITED IN ACCORDANCE WITH nelac

NJDEP Accreditation No. MI008

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Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

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SAMPLE SUMMARY

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
T18H714-01	TMW-01	Ground Water	EO/JML	08/27/18 11:05	08/28/18 15:18
T18H714-02	TMW-01 (F)	Ground Water	EO/JML	08/27/18 11:05	08/28/18 15:18
T18H714-03	MW-34S	Ground Water	EO/JML	08/27/18 11:28	08/28/18 15:18
T18H714-04	MW-34S (F)	Ground Water	EO/JML	08/27/18 11:05	08/28/18 15:18
T18H714-05	MW-35S	Ground Water	EO/JML	08/27/18 14:27	08/28/18 15:18
T18H714-06	MW-35S (F)	Ground Water	EO/JML	08/27/18 14:27	08/28/18 15:18
T18H714-07	DUP-02	Ground Water	EO/JML	08/27/18 15:00	08/28/18 15:18
T18H714-08	DUP-02 (F)	Ground Water	EO/JML	08/27/18 15:00	08/28/18 15:18
T18H714-17	SW-D-2	Surface Water	DZ	08/27/18 13:00	08/28/18 15:18
T18H714-18	SW-D-2 (F)	Surface Water	DZ	08/27/18 13:00	08/28/18 15:18
T18H714-19	DUP-01	Surface Water	DZ	08/27/18 13:05	08/28/18 15:18
T18H714-20	DUP-01 (F)	Surface Water	DZ	08/27/18 13:05	08/28/18 15:18
T18H714-21	SW-D-5	Surface Water	DZ	08/27/18 13:30	08/28/18 15:18
T18H714-22	SW-D-5 (F)	Surface Water	DZ	08/27/18 13:30	08/28/18 15:18
T18H714-23	DRC-02	Surface Water	DZ	08/27/18 14:00	08/28/18 15:18
T18H714-24	DRC-02 (F)	Surface Water	DZ	08/27/18 14:00	08/28/18 15:18
T18H714-33	MW-32S	Ground Water	Client	08/28/18 09:46	08/29/18 10:45
T18H714-34	MW-32S (F)	Ground Water	Client	08/28/18 09:46	08/29/18 10:45
T18H714-35	MW-27S	Ground Water	Client	08/28/18 09:50	08/29/18 10:45
T18H714-36	Dup-04	Ground Water	Client	08/28/18 09:50	08/29/18 10:45
T18H714-37	Dup-04 (F)	Ground Water	Client	08/28/18 09:50	08/29/18 10:45
T18H714-38	TMW-04	Ground Water	Client	08/28/18 11:30	08/29/18 10:45
T18H714-39	TMW-04 (F)	Ground Water	Client	08/28/18 11:30	08/29/18 10:45
T18H714-40	MW-29S	Ground Water	Client	08/28/18 11:35	08/29/18 10:45
T18H714-41	MW-29S (F)	Ground Water	Client	08/28/18 11:35	08/29/18 10:45
T18H714-42	MW-31S	Ground Water	Client	08/28/18 13:10	08/29/18 10:45
T18H714-43	MW-31S (F)	Ground Water	Client	08/28/18 13:10	08/29/18 10:45
T18H714-44	TMW-05	Ground Water	Client	08/28/18 13:10	08/29/18 10:45
T18H714-45	TMW-05 (F)	Ground Water	Client	08/28/18 13:10	08/29/18 10:45
T18H714-46	Dup-03	Ground Water	Client	08/28/18 13:25	08/29/18 10:45
T18H714-47	Dup-03 (F)	Ground Water	Client	08/28/18 13:25	08/29/18 10:45
T18H714-48	MW-25(R)	Ground Water	Client	08/28/18 13:45	08/29/18 10:45
T18H714-49	MW-25(R) (F)	Ground Water	Client	08/28/18 13:45	08/29/18 10:45
T18H714-50	TMW-07	Ground Water	Client	08/28/18 15:25	08/29/18 10:45
T18H714-51	TMW-07 (F)	Ground Water	Client	08/28/18 15:25	08/29/18 10:45

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T18H714-52	MW-08	Ground Water	dz/jc/eo	08/28/18 15:50	08/29/18 10:45
T18H714-53	MW-08 (F)	Ground Water	Client	08/28/18 15:50	08/29/18 10:45
T18H714-54	PW-D-1	Ground Water	DZ	08/29/18 09:30	08/30/18 10:30
T18H714-55	PW-D-1 (F)	Ground Water	DZ	08/30/18 09:30	08/30/18 10:30
T18H714-56	PW-D-4	Ground Water	DZ	08/29/18 10:00	08/30/18 10:30
T18H714-57	PW-D-4 (F)	Ground Water	DZ	08/30/18 10:00	08/30/18 10:30
T18H714-58	PW-D-2	Ground Water	DZ	08/29/18 10:20	08/30/18 10:30
T18H714-59	PW-D-2 (F)	Ground Water	DZ	08/30/18 10:20	08/30/18 10:30
T18H714-60	PW-D-3	Ground Water	DZ	08/29/18 10:50	08/30/18 10:30
T18H714-61	PW-D-3 (F)	Ground Water	DZ	08/30/18 10:50	08/30/18 10:30
T18H714-62	PW-RR-TJ-MC	Ground Water	DZ	08/29/18 12:30	08/30/18 10:30
T18H714-63	PW-RR-TJ-MC (F)	Ground Water	DZ	08/30/18 12:30	08/30/18 10:30
T18H714-64	PW-RR-TJ-LB	Ground Water	DZ	08/29/18 12:50	08/30/18 10:30
T18H714-65	PW-RR-TJ-LB (F)	Ground Water	DZ	08/30/18 12:50	08/30/18 10:30
T18H714-66	PW-RR-TI-LB	Ground Water	DZ	08/29/18 13:30	08/30/18 10:30
T18H714-67	PW-RR-TI-LB (F)	Ground Water	DZ	08/30/18 13:30	08/30/18 10:30
T18H714-68	TMW-06	Ground Water	EO	08/29/18 09:55	08/30/18 10:30
T18H714-69	TMW-06 (F)	Ground Water	EO	08/29/18 09:55	08/30/18 10:30
T18H714-70	TMW-08	Ground Water	EO	08/29/18 11:30	08/30/18 10:30
T18H714-71	TMW-08 (F)	Ground Water	EO	08/29/18 11:30	08/30/18 10:30
T18H714-72	TMW-09	Ground Water	EO	08/29/18 12:50	08/30/18 10:30
T18H714-73	TMW-09 (F)	Ground Water	EO	08/29/18 12:50	08/30/18 10:30
T18H714-74	TMW-10	Ground Water	EO	08/29/18 14:40	08/30/18 10:30
T18H714-75	TMW-10 (F)	Ground Water	EO	08/29/18 14:40	08/30/18 10:30
T18H714-76	MW-33S	Ground Water	eo/jml	08/30/18 09:50	08/31/18 11:00
T18H714-77	MW-33S(F)	Ground Water	eo/jml	08/30/18 09:50	08/31/18 11:00
T18H714-78	TMW-03	Ground Water	eo/jml	08/30/18 09:50	08/31/18 11:00
T18H714-79	TMW-03(F)	Ground Water	eo/jml	08/30/18 09:50	08/31/18 11:00
T18H714-80	TMW-02	Ground Water	eo/jml	08/30/18 11:30	08/31/18 11:00
T18H714-81	TMW-02 (F)	Ground Water	eo/jml	08/30/18 11:30	08/31/18 11:00
T18H714-82	MW-30D	Ground Water	eo/jml	08/30/18 12:00	08/31/18 11:00
T18H714-83	MW-30D (F)	Ground Water	eo/jml	08/30/18 12:00	08/31/18 11:00
T18H714-84	MW-30I	Ground Water	eo/jml	08/30/18 13:10	08/31/18 11:00
T18H714-85	MW-30I (F)	Ground Water	eo/jml	08/30/18 13:10	08/31/18 11:00
T18H714-86	MW-30S(R)	Ground Water	eo/jml	08/30/18 14:40	08/31/18 11:00
T18H714-87	MW-30S(R) (F)	Ground Water	eo/jml	08/30/18 14:40	08/31/18 11:00
T18H714-88	MW-27S (F)	Ground Water	eo/jml	08/30/18 15:40	08/31/18 11:00
T18H714-89	PW-RR-TH-RMC	Ground Water	dz	08/30/18 10:10	08/31/18 11:00
T18H714-90	PW-RR-TH-RMC (F)	Ground Water	dz	08/30/18 10:10	08/31/18 11:00
T18H714-91	PW-RR-TH-LB	Ground Water	dz	08/30/18 11:05	08/31/18 11:00

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T18H714-92	PW-RR-TH-LB (F)	Ground Water	dz	08/30/18 11:05	08/31/18 11:00
T18H714-93	PW-RR-TF-MC	Ground Water	dz	08/30/18 13:15	08/31/18 11:00
T18H714-94	PW-RR-TF-MC (F)	Ground Water	dz	08/30/18 13:15	08/31/18 11:00
T18H714-95	PW-RR-TG-LB	Ground Water	dz	08/30/18 14:15	08/31/18 11:00
T18H714-96	PW-RR-TG-LB (F)	Ground Water	dz	08/30/18 14:15	08/31/18 11:00
T18H714-97	Dup-05	Ground Water	dz	08/30/18 14:30	08/31/18 11:00
T18H714-98	Dup-05(F)	Ground Water	dz	08/30/18 14:30	08/31/18 11:00
T18H714-AA	MW-28I	Ground Water	jc/dz	09/04/18 09:25	09/04/18 11:45
T18H714-AB	MW-28I (F)	Ground Water	jc/dz	08/31/18 09:25	09/04/18 11:45
T18H714-AC	MW-28S	Ground Water	jc/dz	08/31/18 10:25	09/04/18 11:45
T18H714-AD	MW-28S (F)	Ground Water	jc/dz	08/31/18 10:25	09/04/18 11:45
T18H714-AE	ATM-01	Ground Water	jc/dz	08/31/18 12:00	09/04/18 11:45
T18H714-AF	ATM-01 (F)	Ground Water	jc/dz	08/31/18 12:00	09/04/18 11:45
T18H714-AG	RB-01	Ground Water	jc/dz	08/31/18 12:20	09/04/18 11:45
T18H714-AH	RB-01 (F)	Ground Water	jc/dz	08/31/18 12:20	09/04/18 11:45
T18H714-AI	RB-02	Ground Water	jc/dz	08/31/18 12:40	09/04/18 11:45
T18H714-AJ	RB-02 (F)	Ground Water	jc/dz	08/31/18 12:20	09/04/18 11:45
T18H714-AK	RB-03	Ground Water	jc/dz	08/31/18 13:00	09/04/18 11:45
T18H714-AL	RB-03 (F)	Ground Water	jc/dz	08/31/18 13:00	09/04/18 11:45
T18H714-AM	Trip Blank	Ground Water	jc/dz	08/31/18 13:10	09/04/18 11:45
T18H714-AN	Trip Blank 2	Ground Water	jc/dz	08/31/18 13:15	09/04/18 11:45
T18H714-AO	Trip Blank 3	Ground Water	jc/dz	08/31/18 13:20	09/04/18 11:45
T18H714-AP	SW-R-1	Surface Water	dm	09/07/18 11:21	09/10/18 08:15
T18H714-AQ	SW-R-1 (F)	Surface Water	dm	09/07/18 11:21	09/10/18 08:15
T18H714-AR	SW-R-2	Surface Water	dm	09/07/18 11:39	09/10/18 08:15
T18H714-AS	SW-R-2 (F)	Surface Water	dm	09/07/18 11:39	09/10/18 08:15
T18H714-AT	SW-R-3	Surface Water	dm	09/07/18 11:53	09/10/18 08:15
T18H714-AU	SW-R-3 (F)	Surface Water	dm	09/07/18 11:53	09/10/18 08:15
T18H714-AV	SW-R-4	Surface Water	dm	09/07/18 12:11	09/10/18 08:15
T18H714-AW	SW-R-4 (F)	Surface Water	dm	09/07/18 12:11	09/10/18 08:15
T18H714-AX	SW-R-6	Surface Water	dm	09/07/18 12:34	09/10/18 08:15
T18H714-AY	SW-R-6 (F)	Surface Water	dm	09/07/18 12:34	09/10/18 08:15
T18H714-AZ	RB-01	Surface Water	dm	09/07/18 13:03	09/10/18 08:15
T18H714-BA	RB-01 (F)	Surface Water	dm	09/07/18 13:03	09/10/18 08:15
T18H714-BB	SW-D-1	Surface Water	dm	09/07/18 14:21	09/10/18 08:15
T18H714-BC	SW-D-1 (F)	Surface Water	dm	09/07/18 14:21	09/10/18 08:15
T18H714-BD	SW-D-4	Surface Water	dm	09/07/18 14:33	09/10/18 08:15
T18H714-BE	SW-D-4 (F)	Surface Water	dm	09/07/18 14:33	09/10/18 08:15
T18H714-BF	SW-D-3	Surface Water	dm	09/09/18 14:50	09/10/18 08:15
T18H714-BG	SW-D-3 (F)	Surface Water	dm	09/09/18 14:50	09/10/18 08:15

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T18H714-BH	ATM-02	Surface Water	dm	09/07/18 16:00	09/10/18 08:15
T18H714-BI	ATM-02 (F)	Surface Water	dm	09/07/18 16:00	09/10/18 08:15
T18H714-BJ	Trip Blank 4	Water	dm	09/10/18	09/10/18 08:15

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AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

DEFINITIONS

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
RDL	Reporting Detection Limit
MCL	Maximum Contamination Limit
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

NOTE: Samples for volatiles that have been extracted with a water miscible solvent were corrected for the total volume of the solvent/water mixture.
Solid matrices Method Blanks are at 100% solids as such results are the same wet or dry.

DATA QUALIFIERS

Trace ID: T18H714-36

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note 605 : The result for this analyte was quantitated from the initial calibration, but is estimated due to the amount found being above the linear range of the calibration curve.

Trace ID: T18H714-42

Analysis: EPA 8270D

2-Fluorobiphenyl	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Bis(2-ethylhexyl)phthalate	Note 605 : The result for this analyte was quantitated from the initial calibration, but is estimated due to the amount found being above the linear range of the calibration curve.
Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T18H714-78

Analysis: EPA 8270D

2-Fluorobiphenyl	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

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Terphenyl-d14	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T18H714-80

Analysis: EPA 8270D

2-Fluorobiphenyl	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T18H714-95

Analysis: EPA 8270D

2-Fluorobiphenyl	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T18H714-97

Analysis: EPA 8270D

2-Fluorobiphenyl	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T18H714-98

Analysis: EPA 8270D

Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T18H714-AU

Analysis: EPA 8270D

2-Fluorobiphenyl	Note 314 : The surrogate was out of control low when compared to the control limits. All results and reporting limits must be considered estimated.
2-Fluorobiphenyl	Note 509 : The sample was not re-extracted as the EPA specified hold time had expired.
Nitrobenzene-d5	Note 314 : The surrogate was out of control low when compared to the control limits. All results and reporting limits must be considered estimated.
Nitrobenzene-d5	Note 509 : The sample was not re-extracted as the EPA specified hold time had expired.

Trace ID: T18H714-AZ

Analysis: EPA 8270D

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Nitrobenzene-d5	Note 802 : One of the base/neutral surrogate recoveries was outside the control limits. Since the other two base/neutral surrogates were within the control limits, no data require qualification.

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-01 | Date Collected: 08/27/18 11:05 | Matrix: Ground Water
Sample ID: TMW-01 | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	**2.1**	**ug/L**	**0.98**	**1**	**08/29/18**	**kbc**	**09/04/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	64	%	36-103	1	08/29/18	kbc	09/04/18	avl		
2-Fluorobiphenyl	57	%	36-119	1	08/29/18	kbc	09/04/18	avl		
Terphenyl-d14	65	%	37-109	1	08/29/18	kbc	09/04/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080081										
Benzene	<0.50	ug/L	0.50	1	08/31/18	was	08/31/18	was		
Toluene	<0.50	ug/L	0.50	1	08/31/18	was	08/31/18	was		
Ethylbenzene	**23**	**ug/L**	**0.50**	**1**	**08/31/18**	**was**	**08/31/18**	**was**		
m,p-Xylene	**66**	**ug/L**	**1.0**	**1**	**08/31/18**	**was**	**08/31/18**	**was**	**N**	
o-Xylene	**3.2**	**ug/L**	**0.50**	**1**	**08/31/18**	**was**	**08/31/18**	**was**	**N**	
Xylenes, total	**69**	**ug/L**	**1.5**	**1**	**08/31/18**	**was**	**08/31/18**	**was**		
Surrogates:										
1,2-Dichloroethane-d4	102	%	68-133	1	08/31/18	was	08/31/18	was		
Toluene-d8	102	%	75-120	1	08/31/18	was	08/31/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-02 | Date Collected: 08/27/18 11:05 | Matrix: Ground Water
Sample ID: TMW-01 (F) | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	<0.97	ug/L	0.97	1	08/29/18	kbc	09/04/18	avl		
Surrogates:										
Nitrobenzene-d5	43	%	36-103	1	08/29/18	kbc	09/04/18	avl		
2-Fluorobiphenyl	42	%	36-119	1	08/29/18	kbc	09/04/18	avl		
Terphenyl-d14	46	%	37-109	1	08/29/18	kbc	09/04/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-03 | Date Collected: 08/27/18 11:28 | Matrix: Ground Water
Sample ID: MW-34S | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	08/29/18	kbc	09/04/18	avl		
Surrogates:										
Nitrobenzene-d5	47	%	36-103	1	08/29/18	kbc	09/04/18	avl		
2-Fluorobiphenyl	49	%	36-119	1	08/29/18	kbc	09/04/18	avl		
Terphenyl-d14	66	%	37-109	1	08/29/18	kbc	09/04/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080081										
Benzene	<0.50	ug/L	0.50	1	08/31/18	was	08/31/18	was		
Toluene	**0.93**	**ug/L**	**0.50**	**1**	**08/31/18**	**was**	**08/31/18**	**was**		
Ethylbenzene	**2.0**	**ug/L**	**0.50**	**1**	**08/31/18**	**was**	**08/31/18**	**was**		
m,p-Xylene	**4.8**	**ug/L**	**1.0**	**1**	**08/31/18**	**was**	**08/31/18**	**was**	**N**	
o-Xylene	<0.50	ug/L	0.50	1	08/31/18	was	08/31/18	was	N	
Xylenes, total	**4.8**	**ug/L**	**1.5**	**1**	**08/31/18**	**was**	**08/31/18**	**was**		
Surrogates:										
1,2-Dichloroethane-d4	100	%	68-133	1	08/31/18	was	08/31/18	was		
Toluene-d8	102	%	75-120	1	08/31/18	was	08/31/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-04 | Date Collected: 08/27/18 11:05 | Matrix: Ground Water
Sample ID: MW-34S (F) | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	<0.96	ug/L	0.96	1	08/29/18	kbc	09/04/18	avl		
Surrogates:										
Nitrobenzene-d5	57	%	36-103	1	08/29/18	kbc	09/04/18	avl		
2-Fluorobiphenyl	54	%	36-119	1	08/29/18	kbc	09/04/18	avl		
Terphenyl-d14	58	%	37-109	1	08/29/18	kbc	09/04/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-05 | Date Collected: 08/27/18 14:27 | Matrix: Ground Water
Sample ID: MW-35S | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	**68**	**ug/L**	**0.95**	**1**	**08/29/18**	**kbc**	**09/04/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	67	%	36-103	1	08/29/18	kbc	09/04/18	avl		
2-Fluorobiphenyl	65	%	36-119	1	08/29/18	kbc	09/04/18	avl		
Terphenyl-d14	62	%	37-109	1	08/29/18	kbc	09/04/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080081										
Benzene	**1.1**	**ug/L**	**0.50**	**1**	**08/31/18**	**was**	**08/31/18**	**was**		
Toluene	**0.73**	**ug/L**	**0.50**	**1**	**08/31/18**	**was**	**08/31/18**	**was**		
Ethylbenzene	**5300**	**ug/L**	**50**	**100**	**09/04/18**	**was**	**09/04/18**	**was**		
m,p-Xylene	**23000**	**ug/L**	**100**	**100**	**09/04/18**	**was**	**09/04/18**	**was**	**N**	
o-Xylene	**2500**	**ug/L**	**50**	**100**	**09/04/18**	**was**	**09/04/18**	**was**	**N**	
Xylenes, total	**26000**	**ug/L**	**150**	**100**	**09/04/18**	**was**	**09/04/18**	**was**		
Surrogates:										
1,2-Dichloroethane-d4	101	%	68-133	1	08/31/18	was	08/31/18	was		
1,2-Dichloroethane-d4	122	%	68-133	100	09/04/18	was	09/04/18	was		
Toluene-d8	98	%	75-120	1	08/31/18	was	08/31/18	was		
Toluene-d8	104	%	75-120	100	09/04/18	was	09/04/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-06 | Date Collected: 08/27/18 14:27 | Matrix: Ground Water
Sample ID: MW-35S (F) | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	**7.4**	**ug/L**	**0.97**	**1**	**08/29/18**	**kbc**	**09/04/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	64	%	36-103	1	08/29/18	kbc	09/04/18	avl		
2-Fluorobiphenyl	65	%	36-119	1	08/29/18	kbc	09/04/18	avl		
Terphenyl-d14	61	%	37-109	1	08/29/18	kbc	09/04/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-07 | Date Collected: 08/27/18 15:00 | Matrix: Ground Water
Sample ID: DUP-02 | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	**100**	**ug/L**	**1.9**	**2**	**08/29/18**	**kbc**	**09/06/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	73	%	36-103	2	08/29/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	68	%	36-119	2	08/29/18	kbc	09/06/18	avl		
Terphenyl-d14	73	%	37-109	2	08/29/18	kbc	09/06/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080081										
Benzene	**1.2**	**ug/L**	**0.50**	**1**	**08/31/18**	**was**	**08/31/18**	**was**		
Toluene	**0.73**	**ug/L**	**0.50**	**1**	**08/31/18**	**was**	**08/31/18**	**was**		
Ethylbenzene	**5100**	**ug/L**	**50**	**100**	**09/04/18**	**was**	**09/04/18**	**was**		
m,p-Xylene	**23000**	**ug/L**	**100**	**100**	**09/04/18**	**was**	**09/04/18**	**was**	**N**	
o-Xylene	**2500**	**ug/L**	**50**	**100**	**09/04/18**	**was**	**09/04/18**	**was**	**N**	
Xylenes, total	**26000**	**ug/L**	**150**	**100**	**09/04/18**	**was**	**09/04/18**	**was**		
Surrogates:										
1,2-Dichloroethane-d4	100	%	68-133	1	08/31/18	was	08/31/18	was		
1,2-Dichloroethane-d4	124	%	68-133	100	09/04/18	was	09/04/18	was		
Toluene-d8	99	%	75-120	1	08/31/18	was	08/31/18	was		
Toluene-d8	106	%	75-120	100	09/04/18	was	09/04/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-08 | Date Collected: 08/27/18 15:00 | Matrix: Ground Water
Sample ID: DUP-02 (F) | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	**29**	**ug/L**	**0.95**	**1**	**08/29/18**	**kbc**	**09/04/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	75	%	36-103	1	08/29/18	kbc	09/04/18	avl		
2-Fluorobiphenyl	66	%	36-119	1	08/29/18	kbc	09/04/18	avl		
Terphenyl-d14	63	%	37-109	1	08/29/18	kbc	09/04/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-17 | Date Collected: 08/27/18 13:00 | Matrix: Surface Water
Sample ID: SW-D-2 | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8270D									
Batch: T079993									
Bis(2-ethylhexyl)phthalate	**1.7 ug/L**	**0.48**	**1**	**08/29/18**	**kbc**	**08/31/18**	**avl**		
Surrogates:									
Nitrobenzene-d5	55 %	36-103	1	08/29/18	kbc	08/31/18	avl		
2-Fluorobiphenyl	54 %	36-119	1	08/29/18	kbc	08/31/18	avl		
Terphenyl-d14	54 %	37-109	1	08/29/18	kbc	08/31/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8260C									
Batch: T080782									
Benzene	<0.50 ug/L	0.50	1	08/31/18	was	09/04/18	was		
Toluene	<0.50 ug/L	0.50	1	08/31/18	was	09/04/18	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/31/18	was	09/04/18	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/31/18	was	09/04/18	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/31/18	was	09/04/18	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/31/18	was	09/04/18	was		
Surrogates:									
1,2-Dichloroethane-d4	129 %	68-133	1	08/31/18	was	09/04/18	was		
Toluene-d8	102 %	75-120	1	08/31/18	was	09/04/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-18 | Date Collected: 08/27/18 13:00 | Matrix: Surface Water
Sample ID: SW-D-2 (F) | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T079993										
Bis(2-ethylhexyl)phthalate	**1.5**	**ug/L**	**0.48**	**1**	**08/29/18**	**kbc**	**08/31/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	61	%	36-103	1	08/29/18	kbc	08/31/18	avl		
2-Fluorobiphenyl	54	%	36-119	1	08/29/18	kbc	08/31/18	avl		
Terphenyl-d14	52	%	37-109	1	08/29/18	kbc	08/31/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-19 | Date Collected: 08/27/18 13:05 | Matrix: Surface Water
Sample ID: DUP-01 | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T079993										
Bis(2-ethylhexyl)phthalate	**0.88**	**ug/L**	**0.47**	**1**	**08/29/18**	**kbc**	**08/31/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	49	%	36-103	1	08/29/18	kbc	08/31/18	avl		
2-Fluorobiphenyl	45	%	36-119	1	08/29/18	kbc	08/31/18	avl		
Terphenyl-d14	43	%	37-109	1	08/29/18	kbc	08/31/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080782										
Benzene	<0.50	ug/L	0.50	1	08/31/18	was	09/04/18	was		
Toluene	<0.50	ug/L	0.50	1	08/31/18	was	09/04/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	08/31/18	was	09/04/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	08/31/18	was	09/04/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	08/31/18	was	09/04/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	08/31/18	was	09/04/18	was		
Surrogates:										
1,2-Dichloroethane-d4	124	%	68-133	1	08/31/18	was	09/04/18	was		
Toluene-d8	105	%	75-120	1	08/31/18	was	09/04/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-20 | Date Collected: 08/27/18 13:05 | Matrix: Surface Water
Sample ID: DUP-01 (F) | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T079993										
Bis(2-ethylhexyl)phthalate	**1.1**	**ug/L**	**0.47**	**1**	**08/29/18**	**kbc**	**08/31/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	51	%	36-103	1	08/29/18	kbc	08/31/18	avl		
2-Fluorobiphenyl	52	%	36-119	1	08/29/18	kbc	08/31/18	avl		
Terphenyl-d14	58	%	37-109	1	08/29/18	kbc	08/31/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-21 | Date Collected: 08/27/18 13:30 | Matrix: Surface Water
Sample ID: SW-D-5 | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T079993										
Bis(2-ethylhexyl)phthalate	<0.47	ug/L	0.47	1	08/29/18	kbc	08/31/18	avl		
Surrogates:										
Nitrobenzene-d5	53	%	36-103	1	08/29/18	kbc	08/31/18	avl		
2-Fluorobiphenyl	58	%	36-119	1	08/29/18	kbc	08/31/18	avl		
Terphenyl-d14	55	%	37-109	1	08/29/18	kbc	08/31/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080782										
Benzene	<0.50	ug/L	0.50	1	08/31/18	was	09/04/18	was		
Toluene	<0.50	ug/L	0.50	1	08/31/18	was	09/04/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	08/31/18	was	09/04/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	08/31/18	was	09/04/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	08/31/18	was	09/04/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	08/31/18	was	09/04/18	was		
Surrogates:										
1,2-Dichloroethane-d4	127	%	68-133	1	08/31/18	was	09/04/18	was		
Toluene-d8	102	%	75-120	1	08/31/18	was	09/04/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-22 | Date Collected: 08/27/18 13:30 | Matrix: Surface Water
Sample ID: SW-D-5 (F) | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T079993										
Bis(2-ethylhexyl)phthalate	**0.21**	**ug/L**	**0.48**	**1**	**08/29/18**	**kbc**	**08/31/18**	**avl**	**J**	
Surrogates:										
Nitrobenzene-d5	38	%	36-103	1	08/29/18	kbc	08/31/18	avl		
2-Fluorobiphenyl	39	%	36-119	1	08/29/18	kbc	08/31/18	avl		
Terphenyl-d14	37	%	37-109	1	08/29/18	kbc	08/31/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-23 | Date Collected: 08/27/18 14:00 | Matrix: Surface Water
Sample ID: DRC-02 | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T079993										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	08/29/18	kbc	08/31/18	avl		
Surrogates:										
Nitrobenzene-d5	48	%	36-103	1	08/29/18	kbc	08/31/18	avl		
2-Fluorobiphenyl	45	%	36-119	1	08/29/18	kbc	08/31/18	avl		
Terphenyl-d14	50	%	37-109	1	08/29/18	kbc	08/31/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080782										
Benzene	<0.50	ug/L	0.50	1	08/31/18	was	09/04/18	was		
Toluene	<0.50	ug/L	0.50	1	08/31/18	was	09/04/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	08/31/18	was	09/04/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	08/31/18	was	09/04/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	08/31/18	was	09/04/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	08/31/18	was	09/04/18	was		
Surrogates:										
1,2-Dichloroethane-d4	125	%	68-133	1	08/31/18	was	09/04/18	was		
Toluene-d8	100	%	75-120	1	08/31/18	was	09/04/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-24 | Date Collected: 08/27/18 14:00 | Matrix: Surface Water
Sample ID: DRC-02 (F) | Date Received: 08/28/18 15:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T079993										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	08/29/18	kbc	08/31/18	avl		
Surrogates:										
Nitrobenzene-d5	59	%	36-103	1	08/29/18	kbc	08/31/18	avl		
2-Fluorobiphenyl	54	%	36-119	1	08/29/18	kbc	08/31/18	avl		
Terphenyl-d14	51	%	37-109	1	08/29/18	kbc	08/31/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-33 | Date Collected: 08/28/18 09:46 | Matrix: Ground Water
Sample ID: MW-32S | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	**460**	**ug/L**	**9.7**	**10**	**08/29/18**	**kbc**	**09/06/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	58	%	36-103	10	08/29/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	62	%	36-119	10	08/29/18	kbc	09/06/18	avl		
Terphenyl-d14	62	%	37-109	10	08/29/18	kbc	09/06/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080081										
Benzene	**3.1**	**ug/L**	**0.50**	**1**	**08/31/18**	**was**	**08/31/18**	**was**		
Toluene	**44**	**ug/L**	**0.50**	**1**	**08/31/18**	**was**	**08/31/18**	**was**		
Ethylbenzene	**2300**	**ug/L**	**50**	**100**	**08/31/18**	**was**	**08/31/18**	**was**		
m,p-Xylene	**5100**	**ug/L**	**100**	**100**	**08/31/18**	**was**	**08/31/18**	**was**	**N**	
o-Xylene	**130**	**ug/L**	**50**	**100**	**08/31/18**	**was**	**08/31/18**	**was**	**N**	
Xylenes, total	**5200**	**ug/L**	**150**	**100**	**08/31/18**	**was**	**08/31/18**	**was**		
Surrogates:										
1,2-Dichloroethane-d4	102	%	68-133	1	08/31/18	was	08/31/18	was		
1,2-Dichloroethane-d4	101	%	68-133	100	08/31/18	was	08/31/18	was		
Toluene-d8	104	%	75-120	1	08/31/18	was	08/31/18	was		
Toluene-d8	105	%	75-120	100	08/31/18	was	08/31/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-34 | Date Collected: 08/28/18 09:46 | Matrix: Ground Water
Sample ID: MW-32S (F) | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	08/29/18	kbc	09/04/18	avl		
Surrogates:										
Nitrobenzene-d5	53	%	36-103	1	08/29/18	kbc	09/04/18	avl		
2-Fluorobiphenyl	56	%	36-119	1	08/29/18	kbc	09/04/18	avl		
Terphenyl-d14	59	%	37-109	1	08/29/18	kbc	09/04/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-35 | Date Collected: 08/28/18 09:50 | Matrix: Ground Water
Sample ID: MW-27S | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8270D									
Batch: T080020									
Bis(2-ethylhexyl)phthalate	**1.8 ug/L**	**0.96**	**1**	**08/29/18**	**kbc**	**09/04/18**	**avl**		
Surrogates:									
Nitrobenzene-d5	64 %	36-103	1	08/29/18	kbc	09/04/18	avl		
2-Fluorobiphenyl	56 %	36-119	1	08/29/18	kbc	09/04/18	avl		
Terphenyl-d14	63 %	37-109	1	08/29/18	kbc	09/04/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8260C									
Batch: T080782									
Benzene	<0.50 ug/L	0.50	1	08/31/18	was	09/04/18	was		
Toluene	<0.50 ug/L	0.50	1	08/31/18	was	09/04/18	was		
Ethylbenzene	<0.50 ug/L	0.50	1	08/31/18	was	09/04/18	was		
m,p-Xylene	<1.0 ug/L	1.0	1	08/31/18	was	09/04/18	was	N	
o-Xylene	<0.50 ug/L	0.50	1	08/31/18	was	09/04/18	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	08/31/18	was	09/04/18	was		
Surrogates:									
1,2-Dichloroethane-d4	124 %	68-133	1	08/31/18	was	09/04/18	was		
Toluene-d8	108 %	75-120	1	08/31/18	was	09/04/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-36 | Date Collected: 08/28/18 09:50 | Matrix: Ground Water
Sample ID: Dup-04 | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	**840**	**ug/L**	**9.7**	**10**	**08/29/18**	**kbc**	**09/06/18**	**avl**	**605**	
Surrogates:										
Nitrobenzene-d5	64	%	36-103	10	08/29/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	75	%	36-119	10	08/29/18	kbc	09/06/18	avl		
Terphenyl-d14	64	%	37-109	10	08/29/18	kbc	09/06/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080378										
Benzene	**3.3**	**ug/L**	**0.50**	**1**	**09/06/18**	**was**	**09/06/18**	**was**		
Toluene	**42**	**ug/L**	**0.50**	**1**	**09/06/18**	**was**	**09/06/18**	**was**		
Ethylbenzene	**2400**	**ug/L**	**50**	**100**	**09/06/18**	**was**	**09/06/18**	**was**		
m,p-Xylene	**5100**	**ug/L**	**100**	**100**	**09/06/18**	**was**	**09/06/18**	**was**	**N**	
o-Xylene	**97**	**ug/L**	**50**	**100**	**09/06/18**	**was**	**09/06/18**	**was**	**N**	
Xylenes, total	**5200**	**ug/L**	**150**	**100**	**09/06/18**	**was**	**09/06/18**	**was**		
Surrogates:										
1,2-Dichloroethane-d4	102	%	68-133	1	09/06/18	was	09/06/18	was		
1,2-Dichloroethane-d4	102	%	68-133	100	09/06/18	was	09/06/18	was		
Toluene-d8	100	%	75-120	1	09/06/18	was	09/06/18	was		
Toluene-d8	103	%	75-120	100	09/06/18	was	09/06/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-37 | Date Collected: 08/28/18 09:50 | Matrix: Ground Water
Sample ID: Dup-04 (F) | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	08/29/18	kbc	09/04/18	avl		
Surrogates:										
Nitrobenzene-d5	51	%	36-103	1	08/29/18	kbc	09/04/18	avl		
2-Fluorobiphenyl	47	%	36-119	1	08/29/18	kbc	09/04/18	avl		
Terphenyl-d14	52	%	37-109	1	08/29/18	kbc	09/04/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-38 | Date Collected: 08/28/18 11:30 | Matrix: Ground Water
Sample ID: TMW-04 | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	**270**	**ug/L**	**4.9**	**5**	**08/29/18**	**kbc**	**09/06/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	68	%	36-103	5	08/29/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	75	%	36-119	5	08/29/18	kbc	09/06/18	avl		
Terphenyl-d14	64	%	37-109	5	08/29/18	kbc	09/06/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080378										
Benzene	**3.8**	**ug/L**	**0.50**	**1**	**09/06/18**	**was**	**09/06/18**	**was**		
Toluene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was		
Ethylbenzene	**7500**	**ug/L**	**50**	**100**	**09/06/18**	**was**	**09/06/18**	**was**		
m,p-Xylene	**28000**	**ug/L**	**100**	**100**	**09/06/18**	**was**	**09/06/18**	**was**	**N**	
o-Xylene	**710**	**ug/L**	**50**	**100**	**09/06/18**	**was**	**09/06/18**	**was**	**N**	
Xylenes, total	**29000**	**ug/L**	**150**	**100**	**09/06/18**	**was**	**09/06/18**	**was**		
Surrogates:										
1,2-Dichloroethane-d4	100	%	68-133	1	09/06/18	was	09/06/18	was		
1,2-Dichloroethane-d4	101	%	68-133	100	09/06/18	was	09/06/18	was		
Toluene-d8	98	%	75-120	1	09/06/18	was	09/06/18	was		
Toluene-d8	102	%	75-120	100	09/06/18	was	09/06/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-39 | Date Collected: 08/28/18 11:30 | Matrix: Ground Water
Sample ID: TMW-04 (F) | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	<0.96	ug/L	0.96	1	08/29/18	kbc	09/04/18	avl		
Surrogates:										
Nitrobenzene-d5	69	%	36-103	1	08/29/18	kbc	09/04/18	avl		
2-Fluorobiphenyl	62	%	36-119	1	08/29/18	kbc	09/04/18	avl		
Terphenyl-d14	66	%	37-109	1	08/29/18	kbc	09/04/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-40 | Date Collected: 08/28/18 11:35 | Matrix: Ground Water
Sample ID: MW-29S | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	08/29/18	kbc	09/05/18	avl		
Surrogates:										
Nitrobenzene-d5	54	%	36-103	1	08/29/18	kbc	09/05/18	avl		
2-Fluorobiphenyl	55	%	36-119	1	08/29/18	kbc	09/05/18	avl		
Terphenyl-d14	44	%	37-109	1	08/29/18	kbc	09/05/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-41 | Date Collected: 08/28/18 11:35 | Matrix: Ground Water
Sample ID: MW-29S (F) | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	08/29/18	kbc	09/05/18	avl		
Surrogates:										
Nitrobenzene-d5	65	%	36-103	1	08/29/18	kbc	09/05/18	avl		
2-Fluorobiphenyl	56	%	36-119	1	08/29/18	kbc	09/05/18	avl		
Terphenyl-d14	60	%	37-109	1	08/29/18	kbc	09/05/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-42 | Date Collected: 08/28/18 13:10 | Matrix: Ground Water
Sample ID: MW-31S | Date Received: 08/29/18 10:45

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T080020											
Bis(2-ethylhexyl)phthalate		**8100**	**ug/L**	**95**	**100**	**08/29/18**	**kbc**	**09/06/18**	**avl**	**605**	
Surrogates:											
Nitrobenzene-d5	*		%	36-103	100	08/29/18	kbc	09/06/18	avl	302	
2-Fluorobiphenyl	*		%	36-119	100	08/29/18	kbc	09/06/18	avl	302	
Terphenyl-d14	*		%	37-109	100	08/29/18	kbc	09/06/18	avl	302	
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T080378											
Benzene		**2.4**	**ug/L**	**0.50**	**1**	**09/06/18**	**was**	**09/07/18**	**was**		
Toluene		**7.5**	**ug/L**	**0.50**	**1**	**09/06/18**	**was**	**09/07/18**	**was**		
Ethylbenzene		**5800**	**ug/L**	**50**	**100**	**09/06/18**	**was**	**09/06/18**	**was**		
m,p-Xylene		**24000**	**ug/L**	**100**	**100**	**09/06/18**	**was**	**09/06/18**	**was**	**N**	
o-Xylene		**6000**	**ug/L**	**50**	**100**	**09/06/18**	**was**	**09/06/18**	**was**	**N**	
Xylenes, total		**30000**	**ug/L**	**150**	**100**	**09/06/18**	**was**	**09/06/18**	**was**		
Surrogates:											
1,2-Dichloroethane-d4		98	%	68-133	1	09/06/18	was	09/07/18	was		
1,2-Dichloroethane-d4		100	%	68-133	100	09/06/18	was	09/06/18	was		
Toluene-d8		101	%	75-120	1	09/06/18	was	09/07/18	was		
Toluene-d8		103	%	75-120	100	09/06/18	was	09/06/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-43 | Date Collected: 08/28/18 13:10 | Matrix: Ground Water
Sample ID: MW-31S (F) | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	**26**	**ug/L**	**0.94**	**1**	**08/29/18**	**kbc**	**09/05/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	70	%	36-103	1	08/29/18	kbc	09/05/18	avl		
2-Fluorobiphenyl	65	%	36-119	1	08/29/18	kbc	09/05/18	avl		
Terphenyl-d14	61	%	37-109	1	08/29/18	kbc	09/05/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-44 | Date Collected: 08/28/18 13:10 | Matrix: Ground Water
Sample ID: TMW-05 | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080020										
Bis(2-ethylhexyl)phthalate	**11**	**ug/L**	**0.97**	**1**	**08/29/18**	**kbc**	**09/05/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	71	%	36-103	1	08/29/18	kbc	09/05/18	avl		
2-Fluorobiphenyl	71	%	36-119	1	08/29/18	kbc	09/05/18	avl		
Terphenyl-d14	68	%	37-109	1	08/29/18	kbc	09/05/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080181										
Benzene	<0.50	ug/L	0.50	1	09/05/18	was	09/05/18	was		
Toluene	<0.50	ug/L	0.50	1	09/05/18	was	09/05/18	was		
Ethylbenzene	**11**	**ug/L**	**0.50**	**1**	**09/05/18**	**was**	**09/05/18**	**was**		
m,p-Xylene	**140**	**ug/L**	**1.0**	**1**	**09/05/18**	**was**	**09/05/18**	**was**	**N**	
o-Xylene	**6.6**	**ug/L**	**0.50**	**1**	**09/05/18**	**was**	**09/05/18**	**was**	**N**	
Xylenes, total	**150**	**ug/L**	**1.5**	**1**	**09/05/18**	**was**	**09/05/18**	**was**		
Surrogates:										
1,2-Dichloroethane-d4	101	%	68-133	1	09/05/18	was	09/05/18	was		
Toluene-d8	101	%	75-120	1	09/05/18	was	09/05/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-45 | Date Collected: 08/28/18 13:10 | Matrix: Ground Water
Sample ID: TMW-05 (F) | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080021										
Bis(2-ethylhexyl)phthalate	**2.8**	**ug/L**	**0.97**	**1**	**09/04/18**	**kbc**	**09/05/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	49	%	36-103	1	09/04/18	kbc	09/05/18	avl		
2-Fluorobiphenyl	50	%	36-119	1	09/04/18	kbc	09/05/18	avl		
Terphenyl-d14	49	%	37-109	1	09/04/18	kbc	09/05/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-46 | Date Collected: 08/28/18 13:25 | Matrix: Ground Water
Sample ID: Dup-03 | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080021										
Bis(2-ethylhexyl)phthalate	**12**	**ug/L**	**0.95**	**1**	**09/04/18**	**kbc**	**09/05/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	68	%	36-103	1	09/04/18	kbc	09/05/18	avl		
2-Fluorobiphenyl	70	%	36-119	1	09/04/18	kbc	09/05/18	avl		
Terphenyl-d14	66	%	37-109	1	09/04/18	kbc	09/05/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080181										
Benzene	<0.50	ug/L	0.50	1	09/05/18	was	09/05/18	was		
Toluene	<0.50	ug/L	0.50	1	09/05/18	was	09/05/18	was		
Ethylbenzene	**13**	**ug/L**	**0.50**	**1**	**09/05/18**	**was**	**09/05/18**	**was**		
m,p-Xylene	**180**	**ug/L**	**1.0**	**1**	**09/05/18**	**was**	**09/05/18**	**was**	**N**	
o-Xylene	**7.8**	**ug/L**	**0.50**	**1**	**09/05/18**	**was**	**09/05/18**	**was**	**N**	
Xylenes, total	**190**	**ug/L**	**1.5**	**1**	**09/05/18**	**was**	**09/05/18**	**was**		
Surrogates:										
1,2-Dichloroethane-d4	100	%	68-133	1	09/05/18	was	09/05/18	was		
Toluene-d8	102	%	75-120	1	09/05/18	was	09/05/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-47 | Date Collected: 08/28/18 13:25 | Matrix: Ground Water
Sample ID: Dup-03 (F) | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080021										
Bis(2-ethylhexyl)phthalate	<0.96	ug/L	0.96	1	09/04/18	kbc	09/05/18	avl		
Surrogates:										
Nitrobenzene-d5	72	%	36-103	1	09/04/18	kbc	09/05/18	avl		
2-Fluorobiphenyl	68	%	36-119	1	09/04/18	kbc	09/05/18	avl		
Terphenyl-d14	65	%	37-109	1	09/04/18	kbc	09/05/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-48 | Date Collected: 08/28/18 13:45 | Matrix: Ground Water
Sample ID: MW-25(R) | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8270D									
Batch: T080021									
Bis(2-ethylhexyl)phthalate	**1.8 ug/L**	**0.96**	**1**	**09/04/18**	**kbc**	**09/05/18**	**avl**		
Surrogates:									
Nitrobenzene-d5	66 %	36-103	1	09/04/18	kbc	09/05/18	avl		
2-Fluorobiphenyl	67 %	36-119	1	09/04/18	kbc	09/05/18	avl		
Terphenyl-d14	74 %	37-109	1	09/04/18	kbc	09/05/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8260C									
Batch: T080820									
Benzene	<0.50 ug/L	0.50	1	09/04/18	was	09/04/18	was		
Toluene	<0.50 ug/L	0.50	1	09/04/18	was	09/04/18	was		
Ethylbenzene	<0.50 ug/L	0.50	1	09/04/18	was	09/04/18	was		
m,p-Xylene	<1.0 ug/L	1.0	1	09/04/18	was	09/04/18	was	N	
o-Xylene	<0.50 ug/L	0.50	1	09/04/18	was	09/04/18	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/04/18	was	09/04/18	was		
Surrogates:									
1,2-Dichloroethane-d4	123 %	68-133	1	09/04/18	was	09/04/18	was		
Toluene-d8	104 %	75-120	1	09/04/18	was	09/04/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-49 | Date Collected: 08/28/18 13:45 | Matrix: Ground Water
Sample ID: MW-25(R) (F) | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080021										
Bis(2-ethylhexyl)phthalate	**2.0**	**ug/L**	**0.97**	**1**	**09/04/18**	**kbc**	**09/05/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	67	%	36-103	1	09/04/18	kbc	09/05/18	avl		
2-Fluorobiphenyl	68	%	36-119	1	09/04/18	kbc	09/05/18	avl		
Terphenyl-d14	73	%	37-109	1	09/04/18	kbc	09/05/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-50 | Date Collected: 08/28/18 15:25 | Matrix: Ground Water
Sample ID: TMW-07 | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080021										
Bis(2-ethylhexyl)phthalate	**14**	**ug/L**	**0.98**	**1**	**09/04/18**	**kbc**	**09/05/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	60	%	36-103	1	09/04/18	kbc	09/05/18	avl		
2-Fluorobiphenyl	54	%	36-119	1	09/04/18	kbc	09/05/18	avl		
Terphenyl-d14	58	%	37-109	1	09/04/18	kbc	09/05/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080136										
Benzene	<0.50	ug/L	0.50	1	09/04/18	was	09/04/18	was		
Toluene	<0.50	ug/L	0.50	1	09/04/18	was	09/04/18	was		
Ethylbenzene	**0.77**	**ug/L**	**0.50**	**1**	**09/04/18**	**was**	**09/04/18**	**was**		
m,p-Xylene	**2.4**	**ug/L**	**1.0**	**1**	**09/04/18**	**was**	**09/04/18**	**was**	**N**	
o-Xylene	<0.50	ug/L	0.50	1	09/04/18	was	09/04/18	was	N	
Xylenes, total	**2.4**	**ug/L**	**1.5**	**1**	**09/04/18**	**was**	**09/04/18**	**was**		
Surrogates:										
1,2-Dichloroethane-d4	99	%	68-133	1	09/04/18	was	09/04/18	was		
Toluene-d8	98	%	75-120	1	09/04/18	was	09/04/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-51 | Date Collected: 08/28/18 15:25 | Matrix: Ground Water
Sample ID: TMW-07 (F) | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080021										
Bis(2-ethylhexyl)phthalate	<0.96	ug/L	0.96	1	09/04/18	kbc	09/05/18	avl		
Surrogates:										
Nitrobenzene-d5	71	%	36-103	1	09/04/18	kbc	09/05/18	avl		
2-Fluorobiphenyl	71	%	36-119	1	09/04/18	kbc	09/05/18	avl		
Terphenyl-d14	67	%	37-109	1	09/04/18	kbc	09/05/18	avl		

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Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-52 | Date Collected: 08/28/18 15:50 | Matrix: Ground Water
Sample ID: MW-08 | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080021										
Bis(2-ethylhexyl)phthalate	**5.0**	**ug/L**	**0.96**	**1**	**09/04/18**	**kbc**	**09/06/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	71	%	36-103	1	09/04/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	72	%	36-119	1	09/04/18	kbc	09/06/18	avl		
Terphenyl-d14	79	%	37-109	1	09/04/18	kbc	09/06/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-53 | Date Collected: 08/28/18 15:50 | Matrix: Ground Water
Sample ID: MW-08 (F) | Date Received: 08/29/18 10:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080021										
Bis(2-ethylhexyl)phthalate	**1.4**	**ug/L**	**0.96**	**1**	**09/04/18**	**kbc**	**09/06/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	61	%	36-103	1	09/04/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	58	%	36-119	1	09/04/18	kbc	09/06/18	avl		
Terphenyl-d14	62	%	37-109	1	09/04/18	kbc	09/06/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-54 | Date Collected: 08/29/18 09:30 | Matrix: Ground Water
Sample ID: PW-D-1 | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	**0.80**	**ug/L**	**0.48**	**1**	**09/05/18**	**kbc**	**09/06/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	78	%	36-103	1	09/05/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	74	%	36-119	1	09/05/18	kbc	09/06/18	avl		
Terphenyl-d14	73	%	37-109	1	09/05/18	kbc	09/06/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-55 | Date Collected: 08/30/18 09:30 | Matrix: Ground Water
Sample ID: PW-D-1 (F) | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	**0.28**	**ug/L**	**0.48**	**1**	**09/05/18**	**kbc**	**09/06/18**	**avl**	**J**	
Surrogates:										
Nitrobenzene-d5	69	%	36-103	1	09/05/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	69	%	36-119	1	09/05/18	kbc	09/06/18	avl		
Terphenyl-d14	64	%	37-109	1	09/05/18	kbc	09/06/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-56 | Date Collected: 08/29/18 10:00 | Matrix: Ground Water
Sample ID: PW-D-4 | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	**12**	**ug/L**	**0.48**	**1**	**09/05/18**	**kbc**	**09/06/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	74	%	36-103	1	09/05/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	76	%	36-119	1	09/05/18	kbc	09/06/18	avl		
Terphenyl-d14	73	%	37-109	1	09/05/18	kbc	09/06/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-57 | Date Collected: 08/30/18 10:00 | Matrix: Ground Water
Sample ID: PW-D-4 (F) | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	**0.33**	**ug/L**	**0.49**	**1**	**09/05/18**	**kbc**	**09/06/18**	**avl**	**J**	
Surrogates:										
Nitrobenzene-d5	70	%	36-103	1	09/05/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	63	%	36-119	1	09/05/18	kbc	09/06/18	avl		
Terphenyl-d14	65	%	37-109	1	09/05/18	kbc	09/06/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-58 | Date Collected: 08/29/18 10:20 | Matrix: Ground Water
Sample ID: PW-D-2 | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	<0.49	ug/L	0.49	1	09/05/18	kbc	09/06/18	avl		
Surrogates:										
Nitrobenzene-d5	49	%	36-103	1	09/05/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	49	%	36-119	1	09/05/18	kbc	09/06/18	avl		
Terphenyl-d14	55	%	37-109	1	09/05/18	kbc	09/06/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-59 | Date Collected: 08/30/18 10:20 | Matrix: Ground Water
Sample ID: PW-D-2 (F) | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	<0.47	ug/L	0.47	1	09/05/18	kbc	09/06/18	avl		
Surrogates:										
Nitrobenzene-d5	67	%	36-103	1	09/05/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	58	%	36-119	1	09/05/18	kbc	09/06/18	avl		
Terphenyl-d14	56	%	37-109	1	09/05/18	kbc	09/06/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-60 | Date Collected: 08/29/18 10:50 | Matrix: Ground Water
Sample ID: PW-D-3 | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	<0.49	ug/L	0.49	1	09/05/18	kbc	09/06/18	avl		
Surrogates:										
Nitrobenzene-d5	54	%	36-103	1	09/05/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	50	%	36-119	1	09/05/18	kbc	09/06/18	avl		
Terphenyl-d14	46	%	37-109	1	09/05/18	kbc	09/06/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-61 | Date Collected: 08/30/18 10:50 | Matrix: Ground Water
Sample ID: PW-D-3 (F) | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	**0.20**	**ug/L**	**0.48**	**1**	**09/05/18**	**kbc**	**09/06/18**	**avl**	**J**	
Surrogates:										
Nitrobenzene-d5	76	%	36-103	1	09/05/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	72	%	36-119	1	09/05/18	kbc	09/06/18	avl		
Terphenyl-d14	68	%	37-109	1	09/05/18	kbc	09/06/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-62 | Date Collected: 08/29/18 12:30 | Matrix: Ground Water
Sample ID: PW-RR-TJ-MC | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	**0.28**	**ug/L**	**0.48**	**1**	**09/05/18**	**kbc**	**09/06/18**	**avl**	**J**	
Surrogates:										
Nitrobenzene-d5	65	%	36-103	1	09/05/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	58	%	36-119	1	09/05/18	kbc	09/06/18	avl		
Terphenyl-d14	56	%	37-109	1	09/05/18	kbc	09/06/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-63 | Date Collected: 08/30/18 12:30 | Matrix: Ground Water
Sample ID: PW-RR-TJ-MC (F) | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	<0.49	ug/L	0.49	1	09/05/18	kbc	09/06/18	avl		
Surrogates:										
Nitrobenzene-d5	72	%	36-103	1	09/05/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	64	%	36-119	1	09/05/18	kbc	09/06/18	avl		
Terphenyl-d14	68	%	37-109	1	09/05/18	kbc	09/06/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-64 | Date Collected: 08/29/18 12:50 | Matrix: Ground Water
Sample ID: PW-RR-TJ-LB | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	09/05/18	kbc	09/06/18	avl		
Surrogates:										
Nitrobenzene-d5	68	%	36-103	1	09/05/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	63	%	36-119	1	09/05/18	kbc	09/06/18	avl		
Terphenyl-d14	59	%	37-109	1	09/05/18	kbc	09/06/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-65 | Date Collected: 08/30/18 12:50 | Matrix: Ground Water
Sample ID: PW-RR-TJ-LB (F) | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	<0.49	ug/L	0.49	1	09/05/18	kbc	09/06/18	avl		
Surrogates:										
Nitrobenzene-d5	78	%	36-103	1	09/05/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	72	%	36-119	1	09/05/18	kbc	09/06/18	avl		
Terphenyl-d14	73	%	37-109	1	09/05/18	kbc	09/06/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-66 | Date Collected: 08/29/18 13:30 | Matrix: Ground Water
Sample ID: PW-RR-TI-LB | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	<0.50	ug/L	0.50	1	09/05/18	kbc	09/06/18	avl		
Surrogates:										
Nitrobenzene-d5	62	%	36-103	1	09/05/18	kbc	09/06/18	avl		
2-Fluorobiphenyl	61	%	36-119	1	09/05/18	kbc	09/06/18	avl		
Terphenyl-d14	66	%	37-109	1	09/05/18	kbc	09/06/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-67 | Date Collected: 08/30/18 13:30 | Matrix: Ground Water
Sample ID: PW-RR-TI-LB (F) | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	**0.32**	**ug/L**	**0.49**	**1**	**09/05/18**	**kbc**	**09/07/18**	**avl**	**J**	
Surrogates:										
Nitrobenzene-d5	67	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	64	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	59	%	37-109	1	09/05/18	kbc	09/07/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-68 | Date Collected: 08/29/18 09:55 | Matrix: Ground Water
Sample ID: TMW-06 | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8270D									
Batch: T080155									
Bis(2-ethylhexyl)phthalate	**3.0 ug/L**	**0.95**	**1**	**09/05/18**	**kbc**	**09/07/18**	**avl**		
Surrogates:									
Nitrobenzene-d5	71 %	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	61 %	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	61 %	37-109	1	09/05/18	kbc	09/07/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8260C									
Batch: T080181									
Benzene	<0.50 ug/L	0.50	1	09/05/18	was	09/05/18	was		
Toluene	<0.50 ug/L	0.50	1	09/05/18	was	09/05/18	was		
Ethylbenzene	<0.50 ug/L	0.50	1	09/05/18	was	09/05/18	was		
m,p-Xylene	**1.4 ug/L**	**1.0**	**1**	**09/05/18**	**was**	**09/05/18**	**was**	**N**	
o-Xylene	<0.50 ug/L	0.50	1	09/05/18	was	09/05/18	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/05/18	was	09/05/18	was		
Surrogates:									
1,2-Dichloroethane-d4	101 %	68-133	1	09/05/18	was	09/05/18	was		
Toluene-d8	100 %	75-120	1	09/05/18	was	09/05/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-69 | Date Collected: 08/29/18 09:55 | Matrix: Ground Water
Sample ID: TMW-06 (F) | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	<0.97	ug/L	0.97	1	09/05/18	kbc	09/07/18	avl		
Surrogates:										
Nitrobenzene-d5	82	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	73	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	70	%	37-109	1	09/05/18	kbc	09/07/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-70 | Date Collected: 08/29/18 11:30 | Matrix: Ground Water
Sample ID: TMW-08 | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	**300**	**ug/L**	**4.8**	**5**	**09/05/18**	**kbc**	**09/10/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	53	%	36-103	5	09/05/18	kbc	09/10/18	avl		
2-Fluorobiphenyl	52	%	36-119	5	09/05/18	kbc	09/10/18	avl		
Terphenyl-d14	56	%	37-109	5	09/05/18	kbc	09/10/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080731										
Benzene	<0.50	ug/L	0.50	1	09/07/18	was	09/12/18	was		
Toluene	**1.2**	**ug/L**	**0.50**	**1**	**09/07/18**	**was**	**09/12/18**	**was**		
Ethylbenzene	**1100**	**ug/L**	**50**	**100**	**09/07/18**	**was**	**09/12/18**	**was**		
m,p-Xylene	**3900**	**ug/L**	**100**	**100**	**09/07/18**	**was**	**09/12/18**	**was**	**N**	
o-Xylene	**830**	**ug/L**	**50**	**100**	**09/07/18**	**was**	**09/12/18**	**was**	**N**	
Xylenes, total	**4700**	**ug/L**	**150**	**100**	**09/07/18**	**was**	**09/12/18**	**was**		
Surrogates:										
1,2-Dichloroethane-d4	107	%	68-133	1	09/07/18	was	09/12/18	was		
1,2-Dichloroethane-d4	107	%	68-133	100	09/07/18	was	09/12/18	was		
Toluene-d8	102	%	75-120	1	09/07/18	was	09/12/18	was		
Toluene-d8	103	%	75-120	100	09/07/18	was	09/12/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-71 | Date Collected: 08/29/18 11:30 | Matrix: Ground Water
Sample ID: TMW-08 (F) | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	<0.96	ug/L	0.96	1	09/05/18	kbc	09/07/18	avl		
Surrogates:										
Nitrobenzene-d5	77	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	71	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	70	%	37-109	1	09/05/18	kbc	09/07/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-72 | Date Collected: 08/29/18 12:50 | Matrix: Ground Water
Sample ID: TMW-09 | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	**13**	**ug/L**	**0.95**	**1**	**09/05/18**	**kbc**	**09/07/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	76	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	68	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	73	%	37-109	1	09/05/18	kbc	09/07/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080181										
Benzene	<0.50	ug/L	0.50	1	09/05/18	was	09/05/18	was		
Toluene	<0.50	ug/L	0.50	1	09/05/18	was	09/05/18	was		
Ethylbenzene	**180**	**ug/L**	**0.50**	**1**	**09/05/18**	**was**	**09/05/18**	**was**		
m,p-Xylene	**570**	**ug/L**	**10**	**10**	**09/06/18**	**was**	**09/06/18**	**was**	**N**	
o-Xylene	**110**	**ug/L**	**5.0**	**10**	**09/06/18**	**was**	**09/06/18**	**was**	**N**	
Xylenes, total	**680**	**ug/L**	**15**	**10**	**09/06/18**	**was**	**09/06/18**	**was**		
Surrogates:										
1,2-Dichloroethane-d4	102	%	68-133	1	09/05/18	was	09/05/18	was		
1,2-Dichloroethane-d4	121	%	68-133	10	09/06/18	was	09/06/18	was		
Toluene-d8	101	%	75-120	1	09/05/18	was	09/05/18	was		
Toluene-d8	102	%	75-120	10	09/06/18	was	09/06/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-73 | Date Collected: 08/29/18 12:50 | Matrix: Ground Water
Sample ID: TMW-09 (F) | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080155										
Bis(2-ethylhexyl)phthalate	**1.2**	**ug/L**	**0.95**	**1**	**09/05/18**	**kbc**	**09/07/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	77	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	70	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	66	%	37-109	1	09/05/18	kbc	09/07/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-74 | Date Collected: 08/29/18 14:40 | Matrix: Ground Water
Sample ID: TMW-10 | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	**2.2**	**ug/L**	**0.96**	**1**	**09/05/18**	**kbc**	**09/07/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	89	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	78	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	65	%	37-109	1	09/05/18	kbc	09/07/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080136										
Benzene	<0.50	ug/L	0.50	1	09/04/18	was	09/04/18	was		
Toluene	**0.59**	**ug/L**	**0.50**	**1**	**09/04/18**	**was**	**09/04/18**	**was**		
Ethylbenzene	<0.50	ug/L	0.50	1	09/04/18	was	09/04/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	09/04/18	was	09/04/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	09/04/18	was	09/04/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	09/04/18	was	09/04/18	was		
Surrogates:										
1,2-Dichloroethane-d4	102	%	68-133	1	09/04/18	was	09/04/18	was		
Toluene-d8	102	%	75-120	1	09/04/18	was	09/04/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-75 | Date Collected: 08/29/18 14:40 | Matrix: Ground Water
Sample ID: TMW-10 (F) | Date Received: 08/30/18 10:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	09/05/18	kbc	09/07/18	avl		
Surrogates:										
Nitrobenzene-d5	79	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	70	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	63	%	37-109	1	09/05/18	kbc	09/07/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-76 | Date Collected: 08/30/18 09:50 | Matrix: Ground Water
Sample ID: MW-33S | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	**40**	**ug/L**	**0.94**	**1**	**09/05/18**	**kbc**	**09/07/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	86	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	70	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	71	%	37-109	1	09/05/18	kbc	09/07/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080218										
Benzene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was		
Toluene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was		
Ethylbenzene	**2.3**	**ug/L**	**0.50**	**1**	**09/06/18**	**was**	**09/06/18**	**was**		
m,p-Xylene	**8.3**	**ug/L**	**1.0**	**1**	**09/06/18**	**was**	**09/06/18**	**was**	**N**	
o-Xylene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was	N	
Xylenes, total	**8.3**	**ug/L**	**1.5**	**1**	**09/06/18**	**was**	**09/06/18**	**was**		
Surrogates:										
1,2-Dichloroethane-d4	102	%	68-133	1	09/06/18	was	09/06/18	was		
Toluene-d8	100	%	75-120	1	09/06/18	was	09/06/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-77 | Date Collected: 08/30/18 09:50 | Matrix: Ground Water
Sample ID: MW-33S(F) | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	09/05/18	kbc	09/07/18	avl		
Surrogates:										
Nitrobenzene-d5	70	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	66	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	72	%	37-109	1	09/05/18	kbc	09/07/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-78 | Date Collected: 08/30/18 09:50 | Matrix: Ground Water
Sample ID: TMW-03 | Date Received: 08/31/18 11:00

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T080158											
Bis(2-ethylhexyl)phthalate		**21000**	**ug/L**	**380**	**400**	**09/05/18**	**kbc**	**09/11/18**	**avl**		
Surrogates:											
Nitrobenzene-d5	*		%	36-103	400	09/05/18	kbc	09/11/18	avl	302	
2-Fluorobiphenyl	*		%	36-119	400	09/05/18	kbc	09/11/18	avl	302	
Terphenyl-d14	*		%	37-109	400	09/05/18	kbc	09/11/18	avl	302	
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T080782											
Benzene		**1.5**	**ug/L**	**0.50**	**1**	**08/31/18**	**was**	**09/04/18**	**was**		
Toluene		**2.5**	**ug/L**	**0.50**	**1**	**08/31/18**	**was**	**09/04/18**	**was**		
Ethylbenzene		**9700**	**ug/L**	**250**	**500**	**09/05/18**	**was**	**09/05/18**	**was**		
m,p-Xylene		**37000**	**ug/L**	**500**	**500**	**09/05/18**	**was**	**09/05/18**	**was**	**N**	
o-Xylene		**2400**	**ug/L**	**250**	**500**	**09/05/18**	**was**	**09/05/18**	**was**	**N**	
Xylenes, total		**39000**	**ug/L**	**750**	**500**	**09/05/18**	**was**	**09/05/18**	**was**		
Surrogates:											
1,2-Dichloroethane-d4		125	%	68-133	1	08/31/18	was	09/04/18	was		
1,2-Dichloroethane-d4		103	%	68-133	500	09/05/18	was	09/05/18	was		
Toluene-d8		109	%	75-120	1	08/31/18	was	09/04/18	was		
Toluene-d8		101	%	75-120	500	09/05/18	was	09/05/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-79 | Date Collected: 08/30/18 09:50 | Matrix: Ground Water
Sample ID: TMW-03(F) | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	**1.3**	**ug/L**	**0.96**	**1**	**09/05/18**	**kbc**	**09/07/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	79	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	69	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	76	%	37-109	1	09/05/18	kbc	09/07/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-80 | Date Collected: 08/30/18 11:30 | Matrix: Ground Water
Sample ID: TMW-02 | Date Received: 08/31/18 11:00

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T080158											
Bis(2-ethylhexyl)phthalate		**3100**	**ug/L**	**48**	**50**	**09/05/18**	**kbc**	**09/10/18**	**avl**		
Surrogates:											
Nitrobenzene-d5	*		%	36-103	50	09/05/18	kbc	09/10/18	avl	302	
2-Fluorobiphenyl	*		%	36-119	50	09/05/18	kbc	09/10/18	avl	302	
Terphenyl-d14	*		%	37-109	50	09/05/18	kbc	09/10/18	avl	302	
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T080136											
Benzene		**6.3**	**ug/L**	**0.50**	**1**	**09/04/18**	**was**	**09/04/18**	**was**		
Toluene		**2.6**	**ug/L**	**0.50**	**1**	**09/04/18**	**was**	**09/04/18**	**was**		
Ethylbenzene		**7500**	**ug/L**	**250**	**500**	**09/05/18**	**was**	**09/05/18**	**was**		
m,p-Xylene		**30000**	**ug/L**	**500**	**500**	**09/05/18**	**was**	**09/05/18**	**was**	**N**	
o-Xylene		**3100**	**ug/L**	**250**	**500**	**09/05/18**	**was**	**09/05/18**	**was**	**N**	
Xylenes, total		**33000**	**ug/L**	**750**	**500**	**09/05/18**	**was**	**09/05/18**	**was**		
Surrogates:											
1,2-Dichloroethane-d4		99	%	68-133	1	09/04/18	was	09/04/18	was		
1,2-Dichloroethane-d4		104	%	68-133	500	09/05/18	was	09/05/18	was		
Toluene-d8		99	%	75-120	1	09/04/18	was	09/04/18	was		
Toluene-d8		102	%	75-120	500	09/05/18	was	09/05/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-81 | Date Collected: 08/30/18 11:30 | Matrix: Ground Water
Sample ID: TMW-02 (F) | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	**1.1**	**ug/L**	**0.95**	**1**	**09/05/18**	**kbc**	**09/07/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	82	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	76	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	63	%	37-109	1	09/05/18	kbc	09/07/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-82 | Date Collected: 08/30/18 12:00 | Matrix: Ground Water
Sample ID: MW-30D | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	<0.98	ug/L	0.98	1	09/05/18	kbc	09/07/18	avl		
Surrogates:										
Nitrobenzene-d5	79	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	68	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	64	%	37-109	1	09/05/18	kbc	09/07/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-83 | Date Collected: 08/30/18 12:00 | Matrix: Ground Water
Sample ID: MW-30D (F) | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	09/05/18	kbc	09/07/18	avl		
Surrogates:										
Nitrobenzene-d5	63	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	60	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	54	%	37-109	1	09/05/18	kbc	09/07/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-84 | Date Collected: 08/30/18 13:10 | Matrix: Ground Water
Sample ID: MW-30I | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	**2.4**	**ug/L**	**0.95**	**1**	**09/05/18**	**kbc**	**09/07/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	79	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	69	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	76	%	37-109	1	09/05/18	kbc	09/07/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-85 | Date Collected: 08/30/18 13:10 | Matrix: Ground Water
Sample ID: MW-30I (F) | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	**11**	**ug/L**	**0.95**	**1**	**09/05/18**	**kbc**	**09/07/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	89	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	79	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	81	%	37-109	1	09/05/18	kbc	09/07/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-86 | Date Collected: 08/30/18 14:40 | Matrix: Ground Water
Sample ID: MW-30S(R) | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	**6.6**	**ug/L**	**0.95**	**1**	**09/05/18**	**kbc**	**09/07/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	83	%	36-103	1	09/05/18	kbc	09/07/18	avl		
2-Fluorobiphenyl	72	%	36-119	1	09/05/18	kbc	09/07/18	avl		
Terphenyl-d14	66	%	37-109	1	09/05/18	kbc	09/07/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-87 | Date Collected: 08/30/18 14:40 | Matrix: Ground Water
Sample ID: MW-30S(R) (F) | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	<0.97	ug/L	0.97	1	09/05/18	kbc	09/10/18	avl		
Surrogates:										
Nitrobenzene-d5	73	%	36-103	1	09/05/18	kbc	09/10/18	avl		
2-Fluorobiphenyl	74	%	36-119	1	09/05/18	kbc	09/10/18	avl		
Terphenyl-d14	74	%	37-109	1	09/05/18	kbc	09/10/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-88 | Date Collected: 08/30/18 15:40 | Matrix: Ground Water
Sample ID: MW-27S (F) | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	<0.96	ug/L	0.96	1	09/05/18	kbc	09/10/18	avl		
Surrogates:										
Nitrobenzene-d5	37	%	36-103	1	09/05/18	kbc	09/10/18	avl		
2-Fluorobiphenyl	39	%	36-119	1	09/05/18	kbc	09/10/18	avl		
Terphenyl-d14	41	%	37-109	1	09/05/18	kbc	09/10/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-89 | Date Collected: 08/30/18 10:10 | Matrix: Ground Water
Sample ID: PW-RR-TH-RMC | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	09/05/18	kbc	09/10/18	avl		
Surrogates:										
Nitrobenzene-d5	72	%	36-103	1	09/05/18	kbc	09/10/18	avl		
2-Fluorobiphenyl	72	%	36-119	1	09/05/18	kbc	09/10/18	avl		
Terphenyl-d14	68	%	37-109	1	09/05/18	kbc	09/10/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-90 | Date Collected: 08/30/18 10:10 | Matrix: Ground Water
Sample ID: PW-RR-TH-RMC (F) | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	09/05/18	kbc	09/10/18	avl		
Surrogates:										
Nitrobenzene-d5	78	%	36-103	1	09/05/18	kbc	09/10/18	avl		
2-Fluorobiphenyl	71	%	36-119	1	09/05/18	kbc	09/10/18	avl		
Terphenyl-d14	79	%	37-109	1	09/05/18	kbc	09/10/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-91 | Date Collected: 08/30/18 11:05 | Matrix: Ground Water
Sample ID: PW-RR-TH-LB | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	<0.49	ug/L	0.49	1	09/05/18	kbc	09/10/18	avl		
Surrogates:										
Nitrobenzene-d5	61	%	36-103	1	09/05/18	kbc	09/10/18	avl		
2-Fluorobiphenyl	58	%	36-119	1	09/05/18	kbc	09/10/18	avl		
Terphenyl-d14	70	%	37-109	1	09/05/18	kbc	09/10/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-92 | Date Collected: 08/30/18 11:05 | Matrix: Ground Water
Sample ID: PW-RR-TH-LB (F) | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080158										
Bis(2-ethylhexyl)phthalate	**2.0**	**ug/L**	**0.49**	**1**	**09/05/18**	**kbc**	**09/10/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	69	%	36-103	1	09/05/18	kbc	09/10/18	avl		
2-Fluorobiphenyl	65	%	36-119	1	09/05/18	kbc	09/10/18	avl		
Terphenyl-d14	78	%	37-109	1	09/05/18	kbc	09/10/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-93 | Date Collected: 08/30/18 13:15 | Matrix: Ground Water
Sample ID: PW-RR-TF-MC | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080223										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	09/06/18	kbc	09/10/18	avl		
Surrogates:										
Nitrobenzene-d5	62	%	36-103	1	09/06/18	kbc	09/10/18	avl		
2-Fluorobiphenyl	56	%	36-119	1	09/06/18	kbc	09/10/18	avl		
Terphenyl-d14	69	%	37-109	1	09/06/18	kbc	09/10/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-94 | Date Collected: 08/30/18 13:15 | Matrix: Ground Water
Sample ID: PW-RR-TF-MC (F) | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080223										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	09/06/18	kbc	09/10/18	avl		
Surrogates:										
Nitrobenzene-d5	51	%	36-103	1	09/06/18	kbc	09/10/18	avl		
2-Fluorobiphenyl	46	%	36-119	1	09/06/18	kbc	09/10/18	avl		
Terphenyl-d14	58	%	37-109	1	09/06/18	kbc	09/10/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-95 | Date Collected: 08/30/18 14:15 | Matrix: Ground Water
Sample ID: PW-RR-TG-LB | Date Received: 08/31/18 11:00

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T080223											
Bis(2-ethylhexyl)phthalate		**1700**	**ug/L**	**24**	**50**	**09/06/18**	**kbc**	**09/11/18**	**avl**		
Surrogates:											
Nitrobenzene-d5	*		%	36-103	50	09/06/18	kbc	09/11/18	avl	302	
2-Fluorobiphenyl	*		%	36-119	50	09/06/18	kbc	09/11/18	avl	302	
Terphenyl-d14	*		%	37-109	50	09/06/18	kbc	09/11/18	avl	302	

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-96 | Date Collected: 08/30/18 14:15 | Matrix: Ground Water
Sample ID: PW-RR-TG-LB (F) | Date Received: 08/31/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080223										
Bis(2-ethylhexyl)phthalate	**170**	**ug/L**	**2.4**	**5**	**09/06/18**	**kbc**	**09/11/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	52	%	36-103	5	09/06/18	kbc	09/11/18	avl		
2-Fluorobiphenyl	58	%	36-119	5	09/06/18	kbc	09/11/18	avl		
Terphenyl-d14	52	%	37-109	5	09/06/18	kbc	09/11/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-97 | Date Collected: 08/30/18 14:30 | Matrix: Ground Water
Sample ID: Dup-05 | Date Received: 08/31/18 11:00

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T080223											
Bis(2-ethylhexyl)phthalate		**2500**	**ug/L**	**48**	**100**	**09/06/18**	**kbc**	**09/11/18**	**avl**		
Surrogates:											
Nitrobenzene-d5	*		%	36-103	100	09/06/18	kbc	09/11/18	avl	302	
2-Fluorobiphenyl	*		%	36-119	100	09/06/18	kbc	09/11/18	avl	302	
Terphenyl-d14	*		%	37-109	100	09/06/18	kbc	09/11/18	avl	302	

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-98 | Date Collected: 08/30/18 14:30 | Matrix: Ground Water
Sample ID: Dup-05(F) | Date Received: 08/31/18 11:00

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T080223											
Bis(2-ethylhexyl)phthalate		**170**	**ug/L**	**4.7**	**10**	**09/06/18**	**kbc**	**09/11/18**	**avl**		
Surrogates:											
Nitrobenzene-d5	*		%	36-103	10	09/06/18	kbc	09/11/18	avl	302	
2-Fluorobiphenyl		51	%	36-119	10	09/06/18	kbc	09/11/18	avl		
Terphenyl-d14		54	%	37-109	10	09/06/18	kbc	09/11/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AA | Date Collected: 09/04/18 09:25 | Matrix: Ground Water
Sample ID: MW-28I | Date Received: 09/04/18 11:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080223										
Bis(2-ethylhexyl)phthalate	<0.96	ug/L	0.96	1	09/06/18	kbc	09/10/18	avl		
Surrogates:										
Nitrobenzene-d5	68	%	36-103	1	09/06/18	kbc	09/10/18	avl		
2-Fluorobiphenyl	75	%	36-119	1	09/06/18	kbc	09/10/18	avl		
Terphenyl-d14	70	%	37-109	1	09/06/18	kbc	09/10/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AB | Date Collected: 08/31/18 09:25 | Matrix: Ground Water
Sample ID: MW-28I (F) | Date Received: 09/04/18 11:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080223										
Bis(2-ethylhexyl)phthalate	<0.94	ug/L	0.94	1	09/06/18	kbc	09/10/18	avl		
Surrogates:										
Nitrobenzene-d5	62	%	36-103	1	09/06/18	kbc	09/10/18	avl		
2-Fluorobiphenyl	61	%	36-119	1	09/06/18	kbc	09/10/18	avl		
Terphenyl-d14	67	%	37-109	1	09/06/18	kbc	09/10/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AC | Date Collected: 08/31/18 10:25 | Matrix: Ground Water
Sample ID: MW-28S | Date Received: 09/04/18 11:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080223										
Bis(2-ethylhexyl)phthalate	**5.2**	**ug/L**	**0.95**	**1**	**09/06/18**	**kbc**	**09/11/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	67	%	36-103	1	09/06/18	kbc	09/11/18	avl		
2-Fluorobiphenyl	56	%	36-119	1	09/06/18	kbc	09/11/18	avl		
Terphenyl-d14	58	%	37-109	1	09/06/18	kbc	09/11/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AD | Date Collected: 08/31/18 10:25 | Matrix: Ground Water
Sample ID: MW-28S (F) | Date Received: 09/04/18 11:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080223										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	09/06/18	kbc	09/11/18	avl		
Surrogates:										
Nitrobenzene-d5	57	%	36-103	1	09/06/18	kbc	09/11/18	avl		
2-Fluorobiphenyl	62	%	36-119	1	09/06/18	kbc	09/11/18	avl		
Terphenyl-d14	63	%	37-109	1	09/06/18	kbc	09/11/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AE | Date Collected: 08/31/18 12:00 | Matrix: Ground Water
Sample ID: ATM-01 | Date Received: 09/04/18 11:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080223										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	09/06/18	kbc	09/11/18	avl		
Surrogates:										
Nitrobenzene-d5	54	%	36-103	1	09/06/18	kbc	09/11/18	avl		
2-Fluorobiphenyl	53	%	36-119	1	09/06/18	kbc	09/11/18	avl		
Terphenyl-d14	50	%	37-109	1	09/06/18	kbc	09/11/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080265										
Benzene	<0.50	ug/L	0.50	1	09/07/18	was	09/07/18	was		
Toluene	<0.50	ug/L	0.50	1	09/07/18	was	09/07/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	09/07/18	was	09/07/18	was		
m,p-Xylene	**1.6**	**ug/L**	**1.0**	**1**	**09/07/18**	**was**	**09/07/18**	**was**	**N**	
o-Xylene	<0.50	ug/L	0.50	1	09/07/18	was	09/07/18	was	N	
Xylenes, total	**1.6**	**ug/L**	**1.5**	**1**	**09/07/18**	**was**	**09/07/18**	**was**		
Surrogates:										
1,2-Dichloroethane-d4	101	%	68-133	1	09/07/18	was	09/07/18	was		
Toluene-d8	101	%	75-120	1	09/07/18	was	09/07/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AF | Date Collected: 08/31/18 12:00 | Matrix: Ground Water
Sample ID: ATM-01 (F) | Date Received: 09/04/18 11:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080223										
Bis(2-ethylhexyl)phthalate	**10**	**ug/L**	**0.95**	**1**	**09/06/18**	**kbc**	**09/11/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	68	%	36-103	1	09/06/18	kbc	09/11/18	avl		
2-Fluorobiphenyl	58	%	36-119	1	09/06/18	kbc	09/11/18	avl		
Terphenyl-d14	62	%	37-109	1	09/06/18	kbc	09/11/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AG | Date Collected: 08/31/18 12:20 | Matrix: Ground Water
Sample ID: RB-01 | Date Received: 09/04/18 11:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080223										
Bis(2-ethylhexyl)phthalate	<0.94	ug/L	0.94	1	09/06/18	kbc	09/11/18	avl		
Surrogates:										
Nitrobenzene-d5	66	%	36-103	1	09/06/18	kbc	09/11/18	avl		
2-Fluorobiphenyl	65	%	36-119	1	09/06/18	kbc	09/11/18	avl		
Terphenyl-d14	67	%	37-109	1	09/06/18	kbc	09/11/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080265										
Benzene	<0.50	ug/L	0.50	1	09/07/18	was	09/07/18	was		
Toluene	<0.50	ug/L	0.50	1	09/07/18	was	09/07/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	09/07/18	was	09/07/18	was		
m,p-Xylene	**1.4**	**ug/L**	**1.0**	**1**	**09/07/18**	**was**	**09/07/18**	**was**	**N**	
o-Xylene	<0.50	ug/L	0.50	1	09/07/18	was	09/07/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	09/07/18	was	09/07/18	was		
Surrogates:										
1,2-Dichloroethane-d4	103	%	68-133	1	09/07/18	was	09/07/18	was		
Toluene-d8	103	%	75-120	1	09/07/18	was	09/07/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AH | Date Collected: 08/31/18 12:20 | Matrix: Ground Water
Sample ID: RB-01 (F) | Date Received: 09/04/18 11:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080223										
Bis(2-ethylhexyl)phthalate	<0.96	ug/L	0.96	1	09/06/18	kbc	09/11/18	avl		
Surrogates:										
Nitrobenzene-d5	75	%	36-103	1	09/06/18	kbc	09/11/18	avl		
2-Fluorobiphenyl	66	%	36-119	1	09/06/18	kbc	09/11/18	avl		
Terphenyl-d14	62	%	37-109	1	09/06/18	kbc	09/11/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AI | Date Collected: 08/31/18 12:40 | Matrix: Ground Water
Sample ID: RB-02 | Date Received: 09/04/18 11:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080223										
Bis(2-ethylhexyl)phthalate	<0.97	ug/L	0.97	1	09/06/18	kbc	09/11/18	avl		
Surrogates:										
Nitrobenzene-d5	69	%	36-103	1	09/06/18	kbc	09/11/18	avl		
2-Fluorobiphenyl	63	%	36-119	1	09/06/18	kbc	09/11/18	avl		
Terphenyl-d14	65	%	37-109	1	09/06/18	kbc	09/11/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080265										
Benzene	<0.50	ug/L	0.50	1	09/07/18	was	09/07/18	was		
Toluene	<0.50	ug/L	0.50	1	09/07/18	was	09/07/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	09/07/18	was	09/07/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	09/07/18	was	09/07/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	09/07/18	was	09/07/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	09/07/18	was	09/07/18	was		
Surrogates:										
1,2-Dichloroethane-d4	102	%	68-133	1	09/07/18	was	09/07/18	was		
Toluene-d8	102	%	75-120	1	09/07/18	was	09/07/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AJ | Date Collected: 08/31/18 12:20 | Matrix: Ground Water
Sample ID: RB-02 (F) | Date Received: 09/04/18 11:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080223										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	09/06/18	kbc	09/11/18	avl		
Surrogates:										
Nitrobenzene-d5	79	%	36-103	1	09/06/18	kbc	09/11/18	avl		
2-Fluorobiphenyl	68	%	36-119	1	09/06/18	kbc	09/11/18	avl		
Terphenyl-d14	65	%	37-109	1	09/06/18	kbc	09/11/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AK | Date Collected: 08/31/18 13:00 | Matrix: Ground Water
Sample ID: RB-03 | Date Received: 09/04/18 11:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080223										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	09/06/18	kbc	09/11/18	avl		
Surrogates:										
Nitrobenzene-d5	71	%	36-103	1	09/06/18	kbc	09/11/18	avl		
2-Fluorobiphenyl	58	%	36-119	1	09/06/18	kbc	09/11/18	avl		
Terphenyl-d14	54	%	37-109	1	09/06/18	kbc	09/11/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080218										
Benzene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was		
Toluene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	09/06/18	was	09/06/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	09/06/18	was	09/06/18	was		
Surrogates:										
1,2-Dichloroethane-d4	101	%	68-133	1	09/06/18	was	09/06/18	was		
Toluene-d8	102	%	75-120	1	09/06/18	was	09/06/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AL | Date Collected: 08/31/18 13:00 | Matrix: Ground Water
Sample ID: RB-03 (F) | Date Received: 09/04/18 11:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080223										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	09/06/18	kbc	09/11/18	avl		
Surrogates:										
Nitrobenzene-d5	64	%	36-103	1	09/06/18	kbc	09/11/18	avl		
2-Fluorobiphenyl	59	%	36-119	1	09/06/18	kbc	09/11/18	avl		
Terphenyl-d14	54	%	37-109	1	09/06/18	kbc	09/11/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AM | Date Collected: 08/31/18 13:10 | Matrix: Ground Water
Sample ID: Trip Blank | Date Received: 09/04/18 11:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080218										
Benzene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was		
Toluene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	09/06/18	was	09/06/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	09/06/18	was	09/06/18	was		
Surrogates:										
1,2-Dichloroethane-d4	104	%	68-133	1	09/06/18	was	09/06/18	was		
Toluene-d8	103	%	75-120	1	09/06/18	was	09/06/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AN | Date Collected: 08/31/18 13:15 | Matrix: Ground Water
Sample ID: Trip Blank 2 | Date Received: 09/04/18 11:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080218										
Benzene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was		
Toluene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	09/06/18	was	09/06/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	09/06/18	was	09/06/18	was		
Surrogates:										
1,2-Dichloroethane-d4	102	%	68-133	1	09/06/18	was	09/06/18	was		
Toluene-d8	101	%	75-120	1	09/06/18	was	09/06/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AO | Date Collected: 08/31/18 13:20 | Matrix: Ground Water
Sample ID: Trip Blank 3 | Date Received: 09/04/18 11:45

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080218										
Benzene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was		
Toluene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	09/06/18	was	09/06/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	09/06/18	was	09/06/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	09/06/18	was	09/06/18	was		
Surrogates:										
1,2-Dichloroethane-d4	103	%	68-133	1	09/06/18	was	09/06/18	was		
Toluene-d8	102	%	75-120	1	09/06/18	was	09/06/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AP | Date Collected: 09/07/18 11:21 | Matrix: Surface Water
Sample ID: SW-R-1 | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080404										
Bis(2-ethylhexyl)phthalate	<0.49	ug/L	0.49	1	09/14/18	kbc	09/17/18	avl		
Surrogates:										
Nitrobenzene-d5	66	%	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	59	%	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	62	%	37-109	1	09/14/18	kbc	09/17/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080583										
Benzene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
Toluene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	09/11/18	was	09/11/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	09/11/18	was	09/11/18	was		
Surrogates:										
1,2-Dichloroethane-d4	104	%	68-133	1	09/11/18	was	09/11/18	was		
Toluene-d8	102	%	75-120	1	09/11/18	was	09/11/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AQ | Date Collected: 09/07/18 11:21 | Matrix: Surface Water
Sample ID: SW-R-1 (F) | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080404										
Bis(2-ethylhexyl)phthalate	**0.74**	**ug/L**	**0.48**	**1**	**09/14/18**	**kbc**	**09/17/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	70	%	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	70	%	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	72	%	37-109	1	09/14/18	kbc	09/17/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AR | Date Collected: 09/07/18 11:39 | Matrix: Surface Water
Sample ID: SW-R-2 | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080404										
Bis(2-ethylhexyl)phthalate	<0.49	ug/L	0.49	1	09/14/18	kbc	09/17/18	avl		
Surrogates:										
Nitrobenzene-d5	69	%	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	64	%	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	75	%	37-109	1	09/14/18	kbc	09/17/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080583										
Benzene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
Toluene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	09/11/18	was	09/11/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	09/11/18	was	09/11/18	was		
Surrogates:										
1,2-Dichloroethane-d4	104	%	68-133	1	09/11/18	was	09/11/18	was		
Toluene-d8	103	%	75-120	1	09/11/18	was	09/11/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AS | Date Collected: 09/07/18 11:39 | Matrix: Surface Water
Sample ID: SW-R-2 (F) | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080404										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	09/14/18	kbc	09/17/18	avl		
Surrogates:										
Nitrobenzene-d5	70	%	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	69	%	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	79	%	37-109	1	09/14/18	kbc	09/17/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AT | Date Collected: 09/07/18 11:53 | Matrix: Surface Water
Sample ID: SW-R-3 | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080404										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	09/14/18	kbc	09/17/18	avl		
Surrogates:										
Nitrobenzene-d5	42	%	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	44	%	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	40	%	37-109	1	09/14/18	kbc	09/17/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080583										
Benzene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
Toluene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	09/11/18	was	09/11/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	09/11/18	was	09/11/18	was		
Surrogates:										
1,2-Dichloroethane-d4	104	%	68-133	1	09/11/18	was	09/11/18	was		
Toluene-d8	101	%	75-120	1	09/11/18	was	09/11/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AU | Date Collected: 09/07/18 11:53 | Matrix: Surface Water
Sample ID: SW-R-3 (F) | Date Received: 09/10/18 08:15

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T080404											
Bis(2-ethylhexyl)phthalate		**0.50**	**ug/L**	**0.50**	**1**	**09/14/18**	**kbc**	**09/17/18**	**avl**		
Surrogates:											
Nitrobenzene-d5	*	**33**	%	36-103	1	09/14/18	kbc	09/17/18	avl	314, 509	
2-Fluorobiphenyl	*	**33**	%	36-119	1	09/14/18	kbc	09/17/18	avl	314, 509	
Terphenyl-d14		40	%	37-109	1	09/14/18	kbc	09/17/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AV | Date Collected: 09/07/18 12:11 | Matrix: Surface Water
Sample ID: SW-R-4 | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080404										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	09/14/18	kbc	09/17/18	avl		
Surrogates:										
Nitrobenzene-d5	58	%	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	59	%	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	51	%	37-109	1	09/14/18	kbc	09/17/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080583										
Benzene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
Toluene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	09/11/18	was	09/11/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	09/11/18	was	09/11/18	was		
Surrogates:										
1,2-Dichloroethane-d4	104	%	68-133	1	09/11/18	was	09/11/18	was		
Toluene-d8	101	%	75-120	1	09/11/18	was	09/11/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AW | Date Collected: 09/07/18 12:11 | Matrix: Surface Water
Sample ID: SW-R-4 (F) | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080404										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	09/14/18	kbc	09/17/18	avl		
Surrogates:										
Nitrobenzene-d5	72	%	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	68	%	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	73	%	37-109	1	09/14/18	kbc	09/17/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AX | Date Collected: 09/07/18 12:34 | Matrix: Surface Water
Sample ID: SW-R-6 | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080404										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	09/14/18	kbc	09/17/18	avl		
Surrogates:										
Nitrobenzene-d5	61	%	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	65	%	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	71	%	37-109	1	09/14/18	kbc	09/17/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080583										
Benzene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
Toluene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	09/11/18	was	09/11/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	09/11/18	was	09/11/18	was		
Surrogates:										
1,2-Dichloroethane-d4	102	%	68-133	1	09/11/18	was	09/11/18	was		
Toluene-d8	102	%	75-120	1	09/11/18	was	09/11/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AY | Date Collected: 09/07/18 12:34 | Matrix: Surface Water
Sample ID: SW-R-6 (F) | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080404										
Bis(2-ethylhexyl)phthalate	**0.25**	**ug/L**	**0.50**	**1**	**09/14/18**	**kbc**	**09/17/18**	**avl**	**J**	
Surrogates:										
Nitrobenzene-d5	65	%	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	69	%	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	72	%	37-109	1	09/14/18	kbc	09/17/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-AZ | Date Collected: 09/07/18 13:03 | Matrix: Surface Water
Sample ID: RB-01 | Date Received: 09/10/18 08:15

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T080404											
Bis(2-ethylhexyl)phthalate		<0.49	ug/L	0.49	1	09/14/18	kbc	09/17/18	avl		
Surrogates:											
Nitrobenzene-d5	*	**34**	%	36-103	1	09/14/18	kbc	09/17/18	avl	802	
2-Fluorobiphenyl		42	%	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14		51	%	37-109	1	09/14/18	kbc	09/17/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T080583											
Benzene		<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
Toluene		<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
Ethylbenzene		<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
m,p-Xylene		<1.0	ug/L	1.0	1	09/11/18	was	09/11/18	was	N	
o-Xylene		<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was	N	
Xylenes, total		<1.5	ug/L	1.5	1	09/11/18	was	09/11/18	was		
Surrogates:											
1,2-Dichloroethane-d4		105	%	68-133	1	09/11/18	was	09/11/18	was		
Toluene-d8		102	%	75-120	1	09/11/18	was	09/11/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-BA | Date Collected: 09/07/18 13:03 | Matrix: Surface Water
Sample ID: RB-01 (F) | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080404										
Bis(2-ethylhexyl)phthalate	<0.49	ug/L	0.49	1	09/14/18	kbc	09/17/18	avl		
Surrogates:										
Nitrobenzene-d5	68	%	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	70	%	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	72	%	37-109	1	09/14/18	kbc	09/17/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-BB | Date Collected: 09/07/18 14:21 | Matrix: Surface Water
Sample ID: SW-D-1 | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8270D									
Batch: T080404									
Bis(2-ethylhexyl)phthalate	**0.40 ug/L**	**0.49**	**1**	**09/14/18**	**kbc**	**09/17/18**	**avl**	**J**	
Surrogates:									
Nitrobenzene-d5	47 %	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	50 %	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	46 %	37-109	1	09/14/18	kbc	09/17/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8260C									
Batch: T080331									
Benzene	<0.50 ug/L	0.50	1	09/11/18	was	09/12/18	was		
Toluene	<0.50 ug/L	0.50	1	09/11/18	was	09/12/18	was		
Ethylbenzene	<0.50 ug/L	0.50	1	09/11/18	was	09/12/18	was		
m,p-Xylene	**1.2 ug/L**	**1.0**	**1**	**09/11/18**	**was**	**09/12/18**	**was**	**N**	
o-Xylene	<0.50 ug/L	0.50	1	09/11/18	was	09/12/18	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/11/18	was	09/12/18	was		
Surrogates:									
1,2-Dichloroethane-d4	108 %	68-133	1	09/11/18	was	09/12/18	was		
Toluene-d8	101 %	75-120	1	09/11/18	was	09/12/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-BC | Date Collected: 09/07/18 14:21 | Matrix: Surface Water
Sample ID: SW-D-1 (F) | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080404										
Bis(2-ethylhexyl)phthalate	**0.63**	**ug/L**	**0.48**	**1**	**09/14/18**	**kbc**	**09/17/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	60	%	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	68	%	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	64	%	37-109	1	09/14/18	kbc	09/17/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-BD | Date Collected: 09/07/18 14:33 | Matrix: Surface Water
Sample ID: SW-D-4 | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8270D									
Batch: T080404									
Bis(2-ethylhexyl)phthalate	**2.2 ug/L**	**0.49**	**1**	**09/14/18**	**kbc**	**09/19/18**	**avl**		
Surrogates:									
Nitrobenzene-d5	60 %	36-103	1	09/14/18	kbc	09/19/18	avl		
2-Fluorobiphenyl	59 %	36-119	1	09/14/18	kbc	09/19/18	avl		
Terphenyl-d14	56 %	37-109	1	09/14/18	kbc	09/19/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8260C									
Batch: T080331									
Benzene	<0.50 ug/L	0.50	1	09/11/18	was	09/12/18	was		
Toluene	**3.9 ug/L**	**0.50**	**1**	**09/11/18**	**was**	**09/12/18**	**was**		
Ethylbenzene	<0.50 ug/L	0.50	1	09/11/18	was	09/12/18	was		
m,p-Xylene	<1.0 ug/L	1.0	1	09/11/18	was	09/12/18	was	N	
o-Xylene	<0.50 ug/L	0.50	1	09/11/18	was	09/12/18	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/11/18	was	09/12/18	was		
Surrogates:									
1,2-Dichloroethane-d4	106 %	68-133	1	09/11/18	was	09/12/18	was		
Toluene-d8	104 %	75-120	1	09/11/18	was	09/12/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-BE | Date Collected: 09/07/18 14:33 | Matrix: Surface Water
Sample ID: SW-D-4 (F) | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080404										
Bis(2-ethylhexyl)phthalate	**2.5**	**ug/L**	**0.48**	**1**	**09/14/18**	**kbc**	**09/19/18**	**avl**		
Surrogates:										
Nitrobenzene-d5	49	%	36-103	1	09/14/18	kbc	09/19/18	avl		
2-Fluorobiphenyl	46	%	36-119	1	09/14/18	kbc	09/19/18	avl		
Terphenyl-d14	40	%	37-109	1	09/14/18	kbc	09/19/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-BF | Date Collected: 09/09/18 14:50 | Matrix: Surface Water
Sample ID: SW-D-3 | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8270D									
Batch: T080404									
Bis(2-ethylhexyl)phthalate	**0.19 ug/L**	**0.48**	**1**	**09/14/18**	**kbc**	**09/17/18**	**avl**	**J**	
Surrogates:									
Nitrobenzene-d5	69 %	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	69 %	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	66 %	37-109	1	09/14/18	kbc	09/17/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8260C									
Batch: T080331									
Benzene	<0.50 ug/L	0.50	1	09/11/18	was	09/12/18	was		
Toluene	<0.50 ug/L	0.50	1	09/11/18	was	09/12/18	was		
Ethylbenzene	<0.50 ug/L	0.50	1	09/11/18	was	09/12/18	was		
m,p-Xylene	<1.0 ug/L	1.0	1	09/11/18	was	09/12/18	was	N	
o-Xylene	<0.50 ug/L	0.50	1	09/11/18	was	09/12/18	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/11/18	was	09/12/18	was		
Surrogates:									
1,2-Dichloroethane-d4	106 %	68-133	1	09/11/18	was	09/12/18	was		
Toluene-d8	102 %	75-120	1	09/11/18	was	09/12/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-BG | Date Collected: 09/09/18 14:50 | Matrix: Surface Water
Sample ID: SW-D-3 (F) | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080404										
Bis(2-ethylhexyl)phthalate	**0.27**	**ug/L**	**0.50**	**1**	**09/14/18**	**kbc**	**09/17/18**	**avl**	**J**	
Surrogates:										
Nitrobenzene-d5	72	%	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	74	%	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	62	%	37-109	1	09/14/18	kbc	09/17/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-BH | Date Collected: 09/07/18 16:00 | Matrix: Surface Water
Sample ID: ATM-02 | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080404										
Bis(2-ethylhexyl)phthalate	<0.47	ug/L	0.47	1	09/14/18	kbc	09/17/18	avl		
Surrogates:										
Nitrobenzene-d5	73	%	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	68	%	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	71	%	37-109	1	09/14/18	kbc	09/17/18	avl		
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080331										
Benzene	<0.50	ug/L	0.50	1	09/11/18	was	09/12/18	was		
Toluene	<0.50	ug/L	0.50	1	09/11/18	was	09/12/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	09/11/18	was	09/12/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	09/11/18	was	09/12/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	09/11/18	was	09/12/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	09/11/18	was	09/12/18	was		
Surrogates:										
1,2-Dichloroethane-d4	106	%	68-133	1	09/11/18	was	09/12/18	was		
Toluene-d8	103	%	75-120	1	09/11/18	was	09/12/18	was		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-BI | Date Collected: 09/07/18 16:00 | Matrix: Surface Water
Sample ID: ATM-02 (F) | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T080404										
Bis(2-ethylhexyl)phthalate	<0.49	ug/L	0.49	1	09/14/18	kbc	09/17/18	avl		
Surrogates:										
Nitrobenzene-d5	59	%	36-103	1	09/14/18	kbc	09/17/18	avl		
2-Fluorobiphenyl	57	%	36-119	1	09/14/18	kbc	09/17/18	avl		
Terphenyl-d14	62	%	37-109	1	09/14/18	kbc	09/17/18	avl		

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ANALYTICAL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

Trace ID: T18H714-BJ | Date Collected: 09/10/18 | Matrix: Water
Sample ID: Trip Blank 4 | Date Received: 09/10/18 08:15

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T080583										
Benzene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
Toluene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
Ethylbenzene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was		
m,p-Xylene	<1.0	ug/L	1.0	1	09/11/18	was	09/11/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	09/11/18	was	09/11/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	09/11/18	was	09/11/18	was		
Surrogates:										
1,2-Dichloroethane-d4	102	%	68-133	1	09/11/18	was	09/11/18	was		
Toluene-d8	101	%	75-120	1	09/11/18	was	09/11/18	was		

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QUALITY CONTROL RESULTS

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T079996
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Filtration for Dissolved Analysis
Analysis Method: Dissolved Analysis

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080157
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Filtration for Dissolved Analysis
Analysis Method: Dissolved Analysis

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T079993
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Semi-volatiles, Phthalates only
Analysis Method: EPA 8270D

METHOD BLANK: T079993-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<0.50	0.50	
Nitrobenzene-d5 (S)	%	56	36-103	
2-Fluorobiphenyl (S)	%	50	36-119	
Terphenyl-d14 (S)	%	70	37-109	

LABORATORY CONTROL SAMPLE: T079993-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	65.8	66	57-107	
Nitrobenzene-d5 (S)	%	100	64.6	65	36-103	
2-Fluorobiphenyl (S)	%	100	62.0	62	36-119	
Terphenyl-d14 (S)	%	100	69.1	69	37-109	

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080020
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Semi-volatiles, Phthalates only
Analysis Method: EPA 8270D

METHOD BLANK: T080020-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<0.50	0.50	
Nitrobenzene-d5 (S)	%	55	36-103	

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METHOD BLANK: T080020-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
2-Fluorobiphenyl (S)	%	53	36-119	
Terphenyl-d14 (S)	%	61	37-109	

LABORATORY CONTROL SAMPLE: T080020-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	70.6	71	57-107	
Nitrobenzene-d5 (S)	%	100	67.8	68	36-103	
2-Fluorobiphenyl (S)	%	100	65.9	66	36-119	
Terphenyl-d14 (S)	%	100	78.5	79	37-109	

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080021
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Semi-volatiles, Phthalates only
Analysis Method: EPA 8270D

METHOD BLANK: T080021-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	**ug/L**	**0.22**	**0.50**	**J**
Nitrobenzene-d5 (S)	%	70	36-103	
2-Fluorobiphenyl (S)	%	64	36-119	
Terphenyl-d14 (S)	%	78	37-109	

LABORATORY CONTROL SAMPLE: T080021-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	76.6	77	57-107	
Nitrobenzene-d5 (S)	%	100	84.0	84	36-103	
2-Fluorobiphenyl (S)	%	100	78.9	79	36-119	
Terphenyl-d14 (S)	%	100	84.2	84	37-109	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T080021-MSD1 Original: **T18H714-48**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Bis(2-ethylhexyl)phthalate	ug/L	1.81	96.1	63.7	75.1	65	76	52-106	15	29	
Nitrobenzene-d5 (S)	%		96.1	64.7	76.2	68	79	36-103			
2-Fluorobiphenyl (S)	%		96.1	70.1	71.7	74	75	36-119			
Terphenyl-d14 (S)	%		96.1	62.8	69.5	66	72	37-109			

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Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080155
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Semi-volatiles, Phthalates only
Analysis Method: EPA 8270D

METHOD BLANK: T080155-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<0.50	0.50	
Nitrobenzene-d5 (S)	%	83	36-103	
2-Fluorobiphenyl (S)	%	75	36-119	
Terphenyl-d14 (S)	%	78	37-109	

LABORATORY CONTROL SAMPLE: T080155-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	69.7	70	57-107	
Nitrobenzene-d5 (S)	%	100	74.6	75	36-103	
2-Fluorobiphenyl (S)	%	100	66.9	67	36-119	
Terphenyl-d14 (S)	%	100	67.9	68	37-109	

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080158
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Semi-volatiles, Phthalates only
Analysis Method: EPA 8270D

METHOD BLANK: T080158-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	**ug/L**	**0.20**	**0.50**	**J**
Nitrobenzene-d5 (S)	%	69	36-103	
2-Fluorobiphenyl (S)	%	67	36-119	
Terphenyl-d14 (S)	%	71	37-109	

LABORATORY CONTROL SAMPLE: T080158-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	84.8	85	57-107	
Nitrobenzene-d5 (S)	%	100	71.9	72	36-103	
2-Fluorobiphenyl (S)	%	100	59.5	60	36-119	
Terphenyl-d14 (S)	%	100	71.2	71	37-109	

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

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QC Batch: T080223
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Semi-volatiles, Phthalates only
Analysis Method: EPA 8270D

METHOD BLANK: T080223-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<0.50	0.50	
Nitrobenzene-d5 (S)	%	58	36-103	
2-Fluorobiphenyl (S)	%	58	36-119	
Terphenyl-d14 (S)	%	75	37-109	

LABORATORY CONTROL SAMPLE: T080223-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	60.6	61	57-107	
Nitrobenzene-d5 (S)	%	100	75.0	75	36-103	
2-Fluorobiphenyl (S)	%	100	73.7	74	36-119	
Terphenyl-d14 (S)	%	100	66.5	67	37-109	

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080404
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Semi-volatiles, Phthalates only
Analysis Method: EPA 8270D

METHOD BLANK: T080404-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	**ug/L**	**0.24**	**0.50**	**J**
Nitrobenzene-d5 (S)	%	78	36-103	
2-Fluorobiphenyl (S)	%	73	36-119	
Terphenyl-d14 (S)	%	77	37-109	

LABORATORY CONTROL SAMPLE: T080404-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	68.3	68	57-107	
Nitrobenzene-d5 (S)	%	100	84.5	84	36-103	
2-Fluorobiphenyl (S)	%	100	81.3	81	36-119	
Terphenyl-d14 (S)	%	100	74.4	74	37-109	

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

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QC Batch: T080081
QC Batch Method: EPA 8260C

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T080081-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	102	68-133	
Toluene-d8 (S)	%	104	75-120	

LABORATORY CONTROL SAMPLE: T080081-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	18.5	93	80-120	
Toluene	ug/L	20.0	18.2	91	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	49.4	99	68-133	
Toluene-d8 (S)	%	50.0	47.9	96	75-120	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T080081-MSD1 Original: **T18H714-48**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Benzene	ug/L	0	20.0	20.1	20.1	100	101	78-114	0.1	11	
Toluene	ug/L	0	20.0	19.0	19.4	95	97	77-118	2	10	
1,2-Dichloroethane-d4 (S)	%		50.0	51.3	49.4	103	99	68-133			
Toluene-d8 (S)	%		50.0	46.8	47.2	94	94	75-120			

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080136
QC Batch Method: EPA 8260C

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T080136-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	

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METHOD BLANK: T080136-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	101	68-133	
Toluene-d8 (S)	%	100	75-120	

LABORATORY CONTROL SAMPLE: T080136-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	18.1	90	80-120	
Toluene	ug/L	20.0	17.2	86	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	47.8	96	68-133	
Toluene-d8 (S)	%	50.0	47.0	94	75-120	

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080181
QC Batch Method: EPA 8260C
Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T080181-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	101	68-133	
Toluene-d8 (S)	%	102	75-120	

LABORATORY CONTROL SAMPLE: T080181-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	18.8	94	80-120	
Toluene	ug/L	20.0	17.7	88	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	49.9	100	68-133	
Toluene-d8 (S)	%	50.0	46.1	92	75-120	

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

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QC Batch: T080218
QC Batch Method: EPA 8260C

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T080218-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	103	68-133	
Toluene-d8 (S)	%	101	75-120	

LABORATORY CONTROL SAMPLE: T080218-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	19.7	98	80-120	
Toluene	ug/L	20.0	18.7	94	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	50.8	102	68-133	
Toluene-d8 (S)	%	50.0	46.8	94	75-120	

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080265
QC Batch Method: EPA 8260C

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T080265-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	0.55	0.50	
m,p-Xylene	ug/L	2.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	2.0	1.5	
1,2-Dichloroethane-d4 (S)	%	104	68-133	
Toluene-d8 (S)	%	104	75-120	

LABORATORY CONTROL SAMPLE: T080265-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	19.5	98	80-120	

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LABORATORY CONTROL SAMPLE: T080265-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Toluene	ug/L	20.0	18.6	93	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	49.7	99	68-133	
Toluene-d8 (S)	%	50.0	47.1	94	75-120	

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080331
QC Batch Method: EPA 8260C
Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T080331-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	105	68-133	
Toluene-d8 (S)	%	104	75-120	

LABORATORY CONTROL SAMPLE: T080331-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	19.0	95	80-120	
Toluene	ug/L	20.0	18.2	91	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	51.1	102	68-133	
Toluene-d8 (S)	%	50.0	46.3	93	75-120	

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080378
QC Batch Method: EPA 8260C
Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T080378-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	

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METHOD BLANK: T080378-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	103	68-133	
Toluene-d8 (S)	%	101	75-120	

LABORATORY CONTROL SAMPLE: T080378-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	19.7	98	80-120	
Toluene	ug/L	20.0	18.7	94	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	50.8	102	68-133	
Toluene-d8 (S)	%	50.0	46.8	94	75-120	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T080378-MSD1 Original: **T18H714-42RE1**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Benzene	ug/L	0	2000	1910	1930	96	97	78-114	0.9	11	
Toluene	ug/L	0	2000	1780	1850	89	92	77-118	4	10	
1,2-Dichloroethane-d4 (S)	%		50.0	50.8	49.6	102	99	68-133			
Toluene-d8 (S)	%		50.0	46.6	47.6	93	95	75-120			

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080439
QC Batch Method: EPA 8260C

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T080439-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	123	68-133	
Toluene-d8 (S)	%	104	75-120	

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LABORATORY CONTROL SAMPLE: T080439-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	19.7	98	80-120	
Toluene	ug/L	20.0	18.0	90	80-120	
1,2-Dichloroethane-d4 (S)	%	30.0	34.0	113	68-133	
Toluene-d8 (S)	%	30.0	33.1	110	75-120	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T080439-MSD1 Original: **T18H714-72RE1**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Benzene	ug/L	0	200	204	206	102	103	78-114	1	11	
Toluene	ug/L	0	200	185	182	92	91	77-118	2	10	
1,2-Dichloroethane-d4 (S)	%		30.0	33.0	34.0	110	113	68-133			
Toluene-d8 (S)	%		30.0	34.3	32.4	114	108	75-120			

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080583
QC Batch Method: EPA 8260C
Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T080583-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	104	68-133	
Toluene-d8 (S)	%	101	75-120	

LABORATORY CONTROL SAMPLE: T080583-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	18.3	91	80-120	
Toluene	ug/L	20.0	17.4	87	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	49.9	100	68-133	
Toluene-d8 (S)	%	50.0	47.7	95	75-120	

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

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QC Batch: T080731
QC Batch Method: EPA 8260C

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T080731-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	105	68-133	
Toluene-d8 (S)	%	104	75-120	

LABORATORY CONTROL SAMPLE: T080731-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	19.0	95	80-120	
Toluene	ug/L	20.0	18.2	91	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	51.1	102	68-133	
Toluene-d8 (S)	%	50.0	46.3	93	75-120	

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080782
QC Batch Method: EPA 8260C

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T080782-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	120	68-133	
Toluene-d8 (S)	%	105	75-120	

LABORATORY CONTROL SAMPLE: T080782-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	19.1	95	80-120	

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Muskegon, MI 49444-2673

231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

LABORATORY CONTROL SAMPLE: T080782-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Toluene	ug/L	20.0	17.0	85	80-120	
1,2-Dichloroethane-d4 (S)	%	30.0	34.1	114	68-133	
Toluene-d8 (S)	%	30.0	31.7	106	75-120	

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080819
QC Batch Method: EPA 8260C
Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T080819-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	120	68-133	
Toluene-d8 (S)	%	105	75-120	

LABORATORY CONTROL SAMPLE: T080819-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	19.1	95	80-120	
Toluene	ug/L	20.0	17.0	85	80-120	
1,2-Dichloroethane-d4 (S)	%	30.0	34.1	114	68-133	
Toluene-d8 (S)	%	30.0	31.7	106	75-120	

Trace Project ID: T18H714
Client Project ID: LEC 269799.0000.0000

QC Batch: T080820
QC Batch Method: EPA 8260C
Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T080820-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	

CERTIFICATE OF ANALYSIS

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231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

METHOD BLANK: T080820-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	120	68-133	
Toluene-d8 (S)	%	105	75-120	

LABORATORY CONTROL SAMPLE: T080820-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	19.1	95	80-120	
Toluene	ug/L	20.0	17.0	85	80-120	
1,2-Dichloroethane-d4 (S)	%	30.0	34.1	114	68-133	
Toluene-d8 (S)	%	30.0	31.7	106	75-120	

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TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. T18H714

Report Results To:

Company Name: TRC Environmental Corp.
Report To: Scott Pawlukiewicz
Mailing Address: 2025 East Beltline Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Office Phone:
Cell Phone:
Email Address: SPawlukiewicz@TRCSolutions.com

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By: JC
Checked By: MB
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293107
Sampled By: EO, JML

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Field Filtered)								Remarks	Possible Health Hazards?
1/2	8/27/18	1105	TMW-01		GW	5	3	2					X	X	X									
3/4	↓	1128	MW-34S		↓	↓	↓	↓					X	X	X									
5/6		1427	MW-35S										X	X	X									
7/8	↓	1500	DUP-02		↓	↓	↓	↓					X	X	X									

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) Jennifer Espella	FedEx	8/27/18	1730	2) FedEx	Marsha	8-28-18	15:18
3)				4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

[ ] Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. T8H714

Report Results To:

Company Name: TRC Environmental Corp.
Report To: Scott Pawlukiewicz
Mailing Address: 2025 East Belt Line Ave., Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Office Phone:
Cell Phone:
Email Address: SPawlukiewicz@TRCSolutions.com

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By: JS
Checked By: MB
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293/07
Sampled By: DZ

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP - Total	DEHP - Diss. (Lab filtered)	Remarks	Possible Health Hazards?
9/10	8/27/18	1035	SW-D-3		SW	5	3	2					X	X	X	Not Rec.	
11/12		1055	SW-D-4										X	X	X	" "	
13/14		1115	SW-D-1										X	X	X	" "	
15/16		1230	SW-R-6										X	X	X	" "	
17/18		1300	SW-D-2										X	X	X		
19/20		1305	DUP-01										X	X	X		
21/22		1330	SW-D-5										X	X	X		
23/24		1400	DRC-02										X	X	X		
25/26		1430	SW-R-1										X	X	X	Not Rec.	
27/28		1450	SW-R-2										X	X	X	Not Rec.	

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) [signature]	Fed Ex	8/27/18	1730	2) Fed Ex	[signature]	8-28-18	15:18
3)				4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

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TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. T8H714

Report Results To:

Company Name: TRC Environmental Corp.	
Report To: Scott Pawlukiewicz	
Mailing Address: 2025 East Beltline Ave, Suite 402	
City, State, Zip Code: Grand Rapids, MI 49546	
Office Phone:	Cell Phone:
Email Address: SPawlukiewicz@TRCsolutions.com	

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By: JS
Checked By: MB
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293107

Sampled By: DZ

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Lab Filtered)								Remarks	Possible Health Hazards?
29/30	8/27/18	1510	SW-R-3		SW	5	3	2					X	X	X								Not REC	
31/32	↓	1530	SW-R-4		↓	↓	↓	↓					X	X	X								" "	

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) Jennifer Cipulla	FedEx	8/27/18	1730	2) FedEx	[signature]	8-28-18	15:18
3)				4)			

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TRACE ANALYTICAL LABORATORIES, INC.

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Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. T18H714

Report Results To:

Company Name: TRC Environmental Corp.
Report To: Scott Pawlukiewicz
Mailing Address: 2025 East Beltline Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Office Phone:
Cell Phone:
Email Address: SPawlukiewicz@TRCSolutions.com

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By: JS
Checked By: MB
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 4 Day*
- [ ] 3 Day*
- [ ] 48 Hour*
- [ ] 24 Hour*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid; W = Water; SL = Sludge; OI = Oil; WI = Wipes; LW = Liquid Waste; A = Air; D = Drinking Water

Project Name: LEC 293107
Sampled By:

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y/N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Field Filtered)								Remarks	Possible Health Hazards?
33/34	8/28/18	0946	MW-32S	Y	GW	5		2				3	X	X	X									
35		0950	MW-27S		GW	4		2				2	X	X										
36/37		0950	DUP-04	Y	GW	5		2				3	X	X	X									
38/39		1130	TMW-04		GW	5		2				3	X	X	X									
40/41		1135	MW-29S		GW	3		X				3	X	X	X									
42/43		1310	MW-31S		GW	5		2				3	X	X	X									
44/45		1310	TMW-05		GW	5		2				3	X	X	X									
46/47		1325	DUP-03		GW	5		2				3	X	X	X									
48/49		1345	MW-25(R) MS/MSD		GW	11		4				7	X	X	X									
50/51		1525	TMW-07		GW	5		2				3	X	X	X									

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) [signature]	FedEx	8/28/18	1730	2) FedEx	[signature]	8/29/18	10:45
3)				4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

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TRACE
the science of compliance

phone 231.773.5998
toll-free 800.733.5998
fax 231.773.6537

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673
www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

TRACE ID NO. T18H714

Report Results To:

Company Name: TRC
Report to: Scott Pawlukiewicz
Mailing Address: 2025 East Beltline Ave SE 402
City, State, Zip Code: Grand Rapids MI 49546
Phone: Fax:
Email Address: SPawlukiewicz@TRCsolutions.com
Cell #: Sampled by: DZ, JC, EO
Project Name & #:

Bill To:

Billing Address (if different)
City, State, Zip Code
Attn: Phone: PO #:

TRACE USE ONLY

Logged By: Checked By: MB
Received on ice: (Yes) No Preservative Checked: Yes (No) N/A
Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Regulatory Requirements		Turnaround Requirements		Matrix Key	
MERA TMDL's	☐	Standard	☐	S = Soil/Solid	WI = Wipes
Drinking Water	☐	3 Day* ☐ 4 Day*	☐	W = Water	LW = Liquid Waste
NPDES	☐	48 Hour* ☐ 24 Hour*	☐	SL = Sludge	A = Air
Special	☐	* Requires Prior Approval		Ol = Oil	D = Drinking Water

Request for Analytical Services

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	CLIENT SAMPLE ID	METALS FIELD FILTERED	MATRIX	NUMBER OF CONTAINERS	PRESERVATION: COOL	HCL	HNO3	H_2SO_4	NaOH	Other	Total DEHP	Diss DEHP (Field Filtered)	REMARKS	Possible Health Hazards
~~54~~ 53	8/28/18	1550	MW-08		GW	3						3	X	X		

Please Sign

RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME
1)	Fed Ex	8/28/18	1730	2) Fed Ex		8/29/18	10:45	3)			
4)				5)				6)			

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/cocterms.php

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. T18 H714

Report Results To:

Company Name: TRC Environmental Corp.
Report To: Scott Pawlukiewicz
Mailing Address: 2025 East Beltline Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Office Phone:
Cell Phone:
Email Address: SPawlukiewicz@TRCSolutions.com

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By: MB
Checked By: JS
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 4 Day*
- [ ] 3 Day*
- [ ] 48 Hour*
- [ ] 24 Hour*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, W = Water, SL = Sludge, OI = Oil, WI = Wipes, LW = Liquid Waste, A = Air, D = Drinking Water

Project Name: LEC 293107
Sampled By: DZ

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	DEHP (Total)	DEHP (Diss. - Field Filtered)	Remarks	Possible Health Hazards?
54/55	8/29/18	0930	PW-D-1		PW	3	3						X	X		
56/57		1000	PW-D-4										X	X		
58/59		1020	PW-D-2										X	X		
60/61		1050	PW-D-3										X	X		
62/63		1230	PW-RR-TJ-MC										X	X		
64/65		1250	PW-RR-TJ-LB										X	X		
66/67		1330	PW-RR-TI-LB										X	X		

Please Sign	Released By	Received By	Date	Time	Released By	Received By	Date	Time
1)	Jeffrey Cupella	FedEx	8/29/18	1745	2) FedEx	Marshall	8/30/18	10:30
3)					4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

[ ] Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. T18H714

Report Results To:

Company Name:	TRC Environmental Corp.
Report To:	Scott Pawlukiewicz
Mailing Address:	2025 East Beltline Ave, Suite 402
City, State, Zip Code:	Grand Rapids, MI 49546
Office Phone:	Cell Phone:
Email Address:	SPawlukiewicz@TRCSolutions.com

Bill To:

PO #:	
Contact Name:	
Billing Address (if different):	
City, State, Zip Code:	Windsor, CT
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By:	MD
Checked By:	JS
Soil Volatiles Preserved (circle if applicable):	MeOH Low Level Lab
Sampling Time:	

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid; WI = Wipes; W = Water; LW = Liquid Waste; SL = Sludge; A = Air; OI = Oil; D = Drinking Water

Project Name: LEC 293107

Sampled By: EO

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Field Filtered)									Remarks	Possible Health Hazards?
68/69	8/29/18	0955	TMW-06		GW	5	3	2					X	X	X										
70/71		1130	TMW-08										X	X	X										
72/73		1250	TMW-09										X	X	X										
74/75		1440	TMW-10										X	X	X										

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) Jennifer Capella	Fed Ex	8/29/18	1745	2) [signature]	[signature]	8/30/18	10:30
3)				4) Fed Ex			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

[ ] Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. T8H714

Report Results To:

Company Name: TRC Environmental Corp.
Report To: Scott Pawlukiewicz
Mailing Address: 2025 East Line Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
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Email Address: SPawlukiewicz@TRCSolutions.Com

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By: JS
Checked By: MB
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293107
Sampled By: EO, JMC

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Field Filtered)	Remarks	Possible Health Hazards?
76/77	8/30/18	0950	MW-33S		GW	5	3	2					X	X	X	one broken vial	
78/79		0950	TMW-03			5	3	2					X	X	X		
80/81		1130	TMW-02			5	3	2					X	X	X		
82/83		1200	MW-30d			3	3							X	X		
84/85		1310	MW-30i			3	3							X	X		
86/87		1440	MW-30S(R)			3	3							X	X		
88		1540	MW-27S			1	1								X		

Please Sign	Released By	Received By	Date	Time	Released By	Received By	Date	Time
	1) Jenifer Cipella	FedEx	8/30/18	1630	2) FedEx	[illegible]	8/30/18	11:00
	3)				4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

[ ] Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. TR8H714

Report Results To:

Company Name: TRC Environmental Corp.
Report To: Scott Pawlukiewicz
Mailing Address: 2025 East Belt Line Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Office Phone:
Cell Phone:
Email Address: SPawlukiewicz@TRCSolutions.com

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By: JS
Checked By: MB
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293107
Sampled By: DZ

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y/N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	DEHP (Total)	DEHP (Diss. - Field Filtered)									Remarks	Possible Health Hazards?
89/90	8/30/18	1010	PW-RR-TH-RMC		SW	3	3						X	X										
91/92		1105	PW-RR-TH-LB										X	X										
93/94		1315	PW-RR-TF-MC										X	X										
95/96		1415	PW-RR-TG-LB										X	X										
97/98		1430	DUP-05										X	X										

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) [signature]	FedEx	8/30/18	1630	2) FedEx	[signature]	8/30/18	11:00
3)				4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

Box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. T18A714

Report Results To:

Company Name:	TRC Environmental Corp.
Report To:	Scott Pawlukiewicz
Mailing Address:	2025 East Belt Line Ave, Suite 402
City, State, Zip Code:	Grand Rapids, MI 49546
Office Phone:	Cell Phone:
Email Address:	SPawlukiewicz@TRCsolutions.com

Bill To:

PO #:	
Contact Name:	
Billing Address (if different):	
City, State, Zip Code:	Windsor, CT
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By:	MD
Checked By:	
Soil Volatiles Preserved (circle if applicable):	MeOH Low Level Lab
Sampling Time:	

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293107

Sampled By: JC, DZ

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID		Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	DEHP (Total)	DEHP (Diss.-Filtered) field	BTEX	DEHP (Diss.-Filtered) lab							Remarks	Possible Health Hazards?
99/100	8/31/18	0925	MW-28i	AA/AB		GW	3	3						X	X										
101/102		1025	MW-28s	AC/AD			3	3						X	X										
103/104		1200	ATM-01	AE/AF		BLANK	5	3	2					X		X	X								
105/106		1220	RB-01	AG/AH										X		X	X								
107/108		1240	RB-02	AI/AJ										X		X	X								
109/110		1300	RB-03	AK/AL										X		X	X								
				AM																					
111/112	8/31/18	1310	TRIP BLANK	AM		BLANK	2		2							X									
113/114		1315	TRIP BLANK	AN												X									
113		1320	TRIP BLANK	AO												X									

Please Sign	Released By	Received By	Date	Time	Released By	Received By	Date	Time
	1) Jennifer Cipolla	Fed Ex	8/31/18	1350	2) Fed Ex	[illegible]	9/4/18	11:25
	3)				4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

- [ ] Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. T18H714

Report Results To:

Company Name: TRC Environmental Corp
Report To: Scott Pawlukiewicz
Mailing Address: 2025 East Beltline Ave Ste 402
City, State, Zip Code: Grand Rapids MI 49546
Office Phone:
Cell Phone:
Email Address: SPawlukiewicz@trcsolutions.com

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By: JS
Checked By: MB
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 4 Day*
- [ ] 3 Day*
- [ ] 48 Hour*
- [ ] 24 Hour*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, W = Water, SL = Sludge, OI = Oil, WI = Wipes, LW = Liquid Waste, A = Air, D = Drinking Water

Project Name: LER
Sampled By: Dave Mark

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	BETHP total	BETHP dissolved Lab Filter									Remarks	Possible Health Hazards?
AP/AQ	09/07/18	1121	SW-R-1		W	6	4	2					X	X	X										
AR/AS	09/07/18	1139	SW-R-2		W	6	4	2					X	X	X										
AT/AU	09/07/18	1153	SW-R-3		W	5	3	2					X	X	X										
AV/AW	09/07/18	1211	SW-R-4		W	5	3	2					X	X	X										
AX/AY	09/07/18	1234	SW-R-6		W	5	3	2					X	X	X										
AZ/BA	09/07/18	1303	RB-01		W	5	3	2					X	X	X										
BB/BC	09/07/18	1421	SW-D-1		W	5	3	2					X	X	X										
BD/BE	09/07/18	1433	SW-D-4		W	5	3	2					X	X	X										
BF/BG	09/09/18	1450	SW-D-3		W	5	3	2					X	X	X										
BH/BI	09/07/18	1600	ATM-01		W	4	2	2					X	X	X										

Please Sign

	Released By	Received By	Date	Time		Released By	Received By	Date	Time
1)	[signature]	FedEx	09/07/18	1635	2)	FedEx	[signature]	9/10/18	8:15
3)					4)				

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

[ ] Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

TRACE ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. T18H714

Report Results To:

Company Name: TRC Environmental Corp
Report To: Scott Pawlikiewicz
Mailing Address: 2025 East Beltline Ave Ste 402
City, State, Zip Code: Grand Rapids MI 49546
Office Phone:
Cell Phone:
Email Address: SPawlukiewicz@trcsolutions.com

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By: JS
Checked By: MP
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid
W = Water
SL = Sludge
OI = Oil
WI = Wipes
LW = Liquid Waste
A = Air
D = Drinking Water

Project Name: LA
Sampled By: Dave Mark

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	Remarks	Possible Health Hazards?
BT	-	-	TRIP BLANK		W	2		1					X	1 VOA	

Please Sign

Released By	Received By	Date	Time
1) [signature]	FedEX	09/07/18	1635
2) FedEx	[signature]	9/10/18	8:15
3)			
4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

[ ] Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

SAMPLE LOG IN CHECKLIST

Trace ID #: TBH714 Date: 8/28/18 Package Description: Cooler Temperature: 5.1

Client Name: TRC Time: 15:30 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Name of delivery person: _____

Tracking Number: [ ] Not Applicable

Tracking #: 7824 9947 1082

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes

Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]

Multiple bags of ice around samples? [ ]

Ice Packs/ Blue Ice : [ ]

No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C

•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 5.6 °C (check one below)

[X] Temp Blank (Stick Thermometer)

[ ] Client Sample (IR Thermometer)

Melt Water: None °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes:

*EMD pH Test Strips Used:

[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691

[ ] Other: _____

SAMPLE LOG IN CHECKLIST

Trace ID #: T18H714 Date: 8-29-18 Package Description: cooler #1 Temperature: 14.8

Client Name: TRC Time: 10:45 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ]

Hand delivered [ ] Name of delivery person: _____

Commercial courier [X] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable

Tracking #: 782499421071

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes

Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]

Multiple bags of ice around samples? [ ]

Ice Packs/ Blue Ice : [ ]

No Coolant Present: [ ]

Ice still present upon receipt (circle one):

(Yes) No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C

•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 14.2 °C (check one below)

[X] Temp Blank (Stick Thermometer)

[ ] Client Sample (IR Thermometer)

Melt Water: N/A °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?			X	

Notes: MW34S MW-35S, Dup02 TWM-01 VOA MW34S, VOA MW35 VOA Dup02 VOA TW-01

*EMD pH Test Strips Used:

[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691

[ ] Other: _____

SAMPLE LOG IN CHECKLIST

Trace ID #: T8H714 Date: 8-29-18 Package Description: Cooler #2 Temperature: 1.8

Client Name: TRC Time: 10:45 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____

Commercial courier [x] UPS [ ] FED EX [x] US Mail [ ]

Tracking Number: [ ] Not Applicable

Tracking #: 7285-2029 3063

COC Seals present and intact on cooler? [x] Not Applicable [ ] No [ ] Yes

Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [x]

Multiple bags of ice around samples? [ ]

Ice Packs/ Blue Ice : [ ]

No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes (No) N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C

•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 3.0 °C (check one below)

[x] Temp Blank (Stick Thermometer)

[ ] Client Sample (IR Thermometer)

Melt Water: N/A °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	x			
Each sample point is in a sealed plastic bag?	x			
Labels filled out completely?	x			
All bottle labels agree with Chain of Custody (COC)?	x			
Sufficient sample to run tests requested?	x			
pH checked and samples at correct pH?			x	See Below*
Correct preservative added to samples?	x			
Air bubbles absent from VOAs?	x			
COC filled out properly and signed by client?	x			
COC signed in by TRACE sample custodian?	x			
Was project manager called and samples discussed?			x	

Notes: MW31s, MW 68, TMW-07 TMW-04

VOA MW31s, VOA TMW-07, VOA TMW-04

*EMD pH Test Strips Used:

[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691

[ ] Other: _____

Form 70-A.25
Effective 7/25/18

TRACE Analytical Laboratories, Inc.

SAMPLE LOG IN CHECKLIST

Trace ID #: T18H714 Date: 8/29/18 Package Description: Cooler #3 Temperature: 2.4

Client Name: TRC Time: 10:45 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____

Commercial courier [X] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable

Tracking #: 782520293052

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes

Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]

Multiple bags of ice around samples? [ ]

Ice Packs/ Blue Ice : [ ]

No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C

•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 3.8 °C (check one below)

[X] Temp Blank (Stick Thermometer)

[ ] Client Sample (IR Thermometer)

Melt Water: N/A °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?	X			
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?			X	

Notes: MW 29s, MW25R MW-27S
VOA MW25S, VOA MW27S

*EMD pH Test Strips Used:

[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691

[ ] Other: _____

SAMPLE LOG IN CHECKLIST

Trace ID #: TRH714 Date: 8-29-18 Package Description: Cooler #4 Temperature: 1.6

Client Name: TRC Time: 10:45 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____

Commercial courier [X] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable

Tracking #: 7825 2029 3041

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes

Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]

Multiple bags of ice around samples? [ ]

Ice Packs/ Blue Ice : [ ]

No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C

•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 1.3 °C (check one below)

[ ] Temp Blank (Stick Thermometer)

[X] Client Sample (IR Thermometer)

Melt Water: N/A °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?	X			
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?			X	

Notes: VOA Dup-04 VOA Dup03
VOA MW-32S VOA TMW-05
Dup 03 TMW 05 Dup-03
Dup04 Dup TMW-05 MW32S

*EMD pH Test Strips Used:

[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691

[ ] Other: _____

SAMPLE LOG IN CHECKLIST

Trace ID #: T181714 Date: 8/30/18 Package Description: Cooler #1 Temperature: -0.4

Client Name: TRC Environmental Time: 11:00 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____

Commercial courier [X] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable

Tracking #: 782559165016

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes

Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]

Multiple bags of ice around samples? [ ]

Ice Packs/ Blue Ice : [ ]

No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C

•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 3.8 °C (check one below)

[ ] Temp Blank (Stick Thermometer)

[X] Client Sample (IR Thermometer)

Melt Water: N/A °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?		X		
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: MW-30s MW-30D MW33s MW30i, VOA33s

*EMD pH Test Strips Used:

[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691

[ ] Other: _____

SAMPLE LOG IN CHECKLIST

Trace ID #: T18H714 Date: 8-30-18 Package Description: cooler Temperature: -0.5

Client Name: TRC Time: 10:30 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____

Commercial courier [X] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable

Tracking #: 782540802836

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes

Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]

Multiple bags of ice around samples? [ ]

Ice Packs/ Blue Ice : [ ]

No Coolant Present: [ ]

Ice still present upon receipt (circle one): (Yes) No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C

•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 2.7 °C (check one below)

[X] Temp Blank (Stick Thermometer)

[ ] Client Sample (IR Thermometer)

Melt Water: W/A °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?			X	
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?			X	

Notes:

*EMD pH Test Strips Used:

[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691

[ ] Other: _____

SAMPLE LOG IN CHECKLIST

Trace ID #: T18HH4 Date: 8-31-18 Package Description: cooler #2 Temperature: -0.2

Client Name: TRC Time: 11:00 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ]

Hand delivered [ ] Name of delivery person: _____

Commercial courier [X] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable

Tracking #: 7825 5914 5038

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes

Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]

Multiple bags of ice around samples? [ ]

Ice Packs/ Blue Ice : [ ]

No Coolant Present: [ ]

Ice still present upon receipt (circle one):

(Yes) No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C

•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 3.1 °C (check one below)

[ ] Temp Blank (Stick Thermometer)

[X] Client Sample (IR Thermometer)

Melt Water: N/A °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?	X			
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?			X	

Notes: PW-RR-TFML PW-RR-TH-LB
TMW-03 TMW-02
VOA TMW-02 VOA TMW-03

*EMD pH Test Strips Used:

[X] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691

[ ] Other: _____

SAMPLE LOG IN CHECKLIST

Trace ID #: 118 H114 Date: 8/31/18 Package Description: Cooler #3 Temperature: 0.1

Client Name: TRC Time: 11:00 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [✓]

Hand delivered [ ] Name of delivery person: _____

Commercial courier [✓] UPS [ ] FED EX [✓] US Mail [ ]

Tracking Number: [ ] Not Applicable

Tracking #: 782559165027

COC Seals present and intact on cooler? [✓] Not Applicable [ ] No [ ] Yes

Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [✓]

Multiple bags of ice around samples? [ ]

Ice Packs/ Blue Ice : [ ]

No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C

•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 2.3 °C (check one below)

[ ] Temp Blank (Stick Thermometer)

[✓] Client Sample (IR Thermometer)

Melt Water: N/A °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	✓			
Each sample point is in a sealed plastic bag?	✓			
Labels filled out completely?	✓			
All bottle labels agree with Chain of Custody (COC)?	✓			
Sufficient sample to run tests requested?	✓			
pH checked and samples at correct pH?			✓	See Below*
Correct preservative added to samples?			✓	
Air bubbles absent from VOAs?	✓			
COC filled out properly and signed by client?	✓			
COC signed in by TRACE sample custodian?	✓			
Was project manager called and samples discussed?			✓	

Notes: MW-27s PW-RR-TH-RMC
PW-RR-TG-LB, DUP05

*EMD pH Test Strips Used:

[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691

[ ] Other: _____

SAMPLE LOG IN CHECKLIST

Trace ID #: TR4714 Date: 8-31-18 Package Description: Cooler #4 Temperature: 7.3

Client Name: TRC Time: 11:00 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____

Commercial courier [X] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable

Tracking #: 782540802858

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes

Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]

Multiple bags of ice around samples? [ ]

Ice Packs/ Blue Ice : [ ]

No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C

•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 8.0 °C (check one below)

[ ] Temp Blank (Stick Thermometer)

[X] Client Sample (IR Thermometer)

Melt Water: N/A °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?	X			
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?			X	

Notes: ~~TMW~~ TMW-08, TMW06 TMW09 TMW-10
VOA TMW-09 VOA TMW-10, VOA TMW-06
VOA TMW-08

*EMD pH Test Strips Used:

[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691

[ ] Other: _____

SAMPLE LOG IN CHECKLIST

Trace ID #: TBH714 Date: 8-31-18 Package Description: Cooler #5 Temperature: 6.3

Client Name: TRC Time: 11:00 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____

Commercial courier [X] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable

Tracking #: 7825 4080 2847

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes

Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]

Multiple bags of ice around samples? [ ]

Ice Packs/ Blue Ice : [ ]

No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes (No) N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C

•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 11.9 °C (check one below)

[ ] Temp Blank (Stick Thermometer)

[X] Client Sample (IR Thermometer)

Melt Water: N/A °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?	X			
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?			X	

Notes: PW-RR-TJ-MC PW-RR-TJ-LB
PW-D-1, PW-RR-TI-LB

*EMD pH Test Strips Used:

[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691

[ ] Other: _____

SAMPLE LOG IN CHECKLIST

Trace ID #: T18H714 Date: 9-4-18 Package Description: cooler #1 Temperature: 0.1

Client Name: TRC Time: 11:45 Logged in by: MB

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Commercial courier [X] UPS [ ] FED EX [X] US Mail [ ]

Name of delivery person: _____

Tracking Number: [ ] Not Applicable

Tracking #: 7825 7460 4360

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes

Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]

Multiple bags of ice around samples? [ ]

Ice Packs/ Blue Ice : [ ]

No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C

•IR Thermometer CF = -0.8°C

Representative Sample Temperature: _____ °C (check one below)

[ ] Temp Blank (Stick Thermometer)

[X] Client Sample (IR Thermometer)

Melt Water: Cell # °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?	X			See Below*
Correct preservative added to samples?	X			
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			MB 9-4-18
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?			X	

Notes: RB-02 / ATM01 RB03
VOC - RB03 VOC RB02, VOC ATM-01
Trip Blank VOC

*EMD pH Test Strips Used:

[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691

[ ] Other: _____

SAMPLE LOG IN CHECKLIST

Trace ID #: T18H714 Date: 9-4-12 Package Description: Cooler #2 Temperature: -0.4
Client Name: TRC Time: 11:45 Logged in by: MO

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ]
Hand delivered [X] Name of delivery person: _____
Commercial courier [X] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: 7825 7460 4358

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]

Ice still present upon receipt (circle one):
Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 3.7 °C (check one below)
[ ] Temp Blank (Stick Thermometer)
[X] Client Sample (IR Thermometer)

Melt Water: N/A °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?	X			See Below*
Correct preservative added to samples?	X			
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?			X	

Notes: MW28s, MW28I, RB-01
VOC Trip Blank, VOC Trip Blank
VOC RB01

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: _____

SAMPLE LOG IN CHECKLIST

Trace ID #: TBH714 Date: 9/10/18 Package Description: Cooler #1 Temperature: 3.8

Client Name: TRC Time: 8:15 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier ☐ Hand delivered ☐ Name of delivery person: _____

Commercial courier ☐ UPS ☐ FED EX ☒ US Mail ☐

Tracking Number: ☐ Not Applicable

Tracking #: 7826 8145 9881

COC Seals present and intact on cooler? ☒ Not Applicable ☐ No ☐ Yes

Custody seals signed by Client? ☐ No ☐ Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? ☒

Multiple bags of ice around samples? ☐

Ice Packs/ Blue Ice : ☐

No Coolant Present: ☐

Ice still present upon receipt (circle one): Yes (No) N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C

•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 5.4 °C (check one below)

☒ Temp Blank (Stick Thermometer)

☒ Client Sample (IR Thermometer)

JS 9/10/18

Melt Water: 4.3 °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	☒	☐	☐	
Each sample point is in a sealed plastic bag?	☒	☐	☐	
Labels filled out completely?	☒	☐	☐	
All bottle labels agree with Chain of Custody (COC)?	☒	☐	☐	
Sufficient sample to run tests requested?	☒	☐	☐	
pH checked and samples at correct pH?	☐	☐	☒	See Below*
Correct preservative added to samples?	☐	☐	☒	
Air bubbles absent from VOAs?	☐	☐	☒	
COC filled out properly and signed by client?	☒	☐	☐	
COC signed in by TRACE sample custodian?	☒	☐	☐	
Was project manager called and samples discussed?	☐	☒	☐	

Notes: SW-R-4, SW-R-2, SW-R-1, ~~SW-R-1~~ JS 9/10/18

*EMD pH Test Strips Used:

☐ pH 0-2.5 Lot: HC731452 ☐ pH 11.0-13.0 Lot: HC600691

☐ Other: _____

SAMPLE LOG IN CHECKLIST

Trace ID #: T8H714 Date: 9/10/18 Package Description: Cooler #2 Temperature: 3.1

Client Name: TRC Time: 8:15 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ]

Hand delivered [ ] Name of delivery person: _____

Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable

Tracking #: 7826 8145 9892

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes

Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]

Multiple bags of ice around samples? [ ]

Ice Packs/ Blue Ice : [ ]

No Coolant Present: [ ]

Ice still present upon receipt (circle one):

Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C

•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 3.8 °C (check one below)

[ ] Temp Blank (Stick Thermometer)

[X] Client Sample (IR Thermometer)

Melt Water: none °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?			X	
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: SW-D-1, SW-D-3, SW-R-6, RB-02, RB-01

*EMD pH Test Strips Used:

[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691

[ ] Other: _____

SAMPLE LOG IN CHECKLIST

Trace ID #: T8H714 Date: 9/10/18 Package Description: Cooler #3 Temperature: 0.2

Client Name: TRC Time: 8:15 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____

Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable

Tracking #: 7826 8145 9870

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes

Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]

Multiple bags of ice around samples? [ ]

Ice Packs/ Blue Ice : [ ]

No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C

•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 1.6 °C (check one below)

[X] Temp Blank (Stick Thermometer)

[ ] Client Sample (IR Thermometer)

Melt Water: none °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: Ambers: SW-D-4, ATM-02, SW-D-3
Voa's: SW-R-2, SW-R-4, RB-01, SW-R-1, SW-R-3
SW-R-6, SW-D-4, SW-D-3, SW-D-1, ATM-02

*EMD pH Test Strips Used:

[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691

[ ] Other: _____

L.E. Carpenter
293107.0000.0000 Phase 1
Laboratory Data Quality Review performed for Report T18K629 by Terry Hertz of TRC Environmental Corporation on 12/28/2018, 1/3/2019

Sample receipt, preservation, and integrity

Forty-three groundwater/surface water/pore water samples, five field duplicates, four trip blanks, three rinsate blanks, and one atmospheric blank were collected November 26-30, 2018, and submitted to Trace Analytical Laboratories for analysis. Samples were analyzed for one or more of the following analytes: Benzene, toluene, ethylbenzene, and xylenes and bis(2-ethylhexyl)phthalate (BEHP; DEHP). BEHP was typically analyzed using total (unfiltered) and dissolved (filtered) sample volumes. Benzene, toluene, ethylbenzene, and xylenes are collectively referred to as BTEX.

Samples arrived at the laboratory correctly preserved and at an appropriate temperature (*i.e.* <6 ^{o}C). Chains-of-Custody (CoCs) were signed. Samples were prepared and analyzed within hold times. Analyses requested on the CoCs were reported by the laboratory. Results have an "N" qualifier indicating that they are not evaluated by NELAC.

Laboratory QC data

Laboratory reported QC data for the various analyses were reviewed and the findings are described below.

Organic Surrogates

Organic surrogate recoveries were within QC limits (unless sample dilution occurred) with the following exceptions:

- Both nitrobenzene-d5 and 2-fluorobiphenyl in the BEHP analysis of SW-D-4 were recovered below the lower QC limit. The BEHP detection in sample SW-D-4 is assigned a "u" qualifier below; therefore, no qualifier is assigned as a result of the low surrogate recoveries.
- Terphenyl-d14 was recovered below the lower QC limit in samples SW-R-6, MW-33S, and MW-29S(F). A qualifier is not assigned if only one base-neutral surrogate recovery is outside of QC limits.
- Both nitrobenzene-d5 and 2-fluorobiphenyl in the BEHP analysis of PW-RR-TH-LB(F) were recovered below the lower QC limit. **Dissolved BEHP in sample PW-RR-TH-LB(F) is assigned a "uj" qualifier.**
- Trip Blank [11/30/2018] had 1,2-dichloroethane-d4 recovered above the upper QC limit. BTEX was not detected in Trip Blank [11/30/2018]. No qualifiers were assigned.
- All three base-neutral surrogates in MW-25(R)(F) MS were recovered below the lower QC limit. The Data Qualifiers section of this report notes that an extraction error occurred with this MS sample. No qualifiers were assigned, and the MS results should not be used.
- Surrogate recoveries below the lower QC limit that occurred when a sample was diluted by 10X or more were not assigned a qualifier.

Blanks

Method blanks, rinsate blanks, trip blanks, and the atmospheric blank were free of detections of BEHP and BTEX except as follows:

- BEHP was detected at 0.47 J ug/L in the method blank for QC Batch T082660. Samples TMW-04, TMW-04(F), MW-35S, MW-35S(F), TMW-05, TMW-08, TMW-08(F), and MW-32S were associated with QC Batch T082660 and had BEHP detected, but the detected concentrations were more than five times the method blank concentration; therefore, no qualifiers were assigned. Samples MW-27S, MW-27S(F), PW-D-3, PW-D-3(F), PW-D-4, PW-D-4(F), PW-D-1, and PW-D-1(F) were associated with QC Batch T082660 and had BEHP detected at a concentrations less than five times the method blank concentration. **A "u" qualifier is assigned to BEHP in MW-27S, MW-27S(F), PW-D-3, PW-D-3(F), PW-D-4, PW-D-4(F), PW-D-1, and PW-D-1(F).**
- BEHP was detected at 0.55 ug/L in the method blank for QC Batch T082692. Sample PW-RR-TH-LB was associated with QC Batch T082692 and had BEHP detected, but the detected concentration were more than five times the method blank concentration; therefore, no qualifier was assigned. Samples PW-D-2 and PW-D-2(F) were associated with QC Batch T082692 and had BEHP detected at a concentrations less than five times the method blank concentration. **A "u" qualifier is assigned to BEHP in PW-D-2 and PW-D-2(F).**
- BEHP was detected at 0.20 J ug/L in the method blank for QC Batch T082723. Samples MW-29S, MW-30S(R), MW-30S(R)(F), MW-08, and PW-RR-TG-LB were associated with QC Batch T082723 and had BEHP detected, but the detected concentration were more than five times the method blank concentration; therefore, no qualifiers were assigned. Samples MW-30I, PW-RR-TG-LB-(F), PW-RR-TH-RMC, and PW-RR-TH-RMC(F) were associated with QC Batch T082723 and had BEHP detected at a concentrations less than five times the method blank concentration. **A "u" qualifier is assigned to BEHP in MW-30I, PW-RR-TG-LB(F), PW-RR-TH-RMC, and PW-RR-TH-RMC(F).**
- BEHP was detected at 0.32 J ug/L in the method blank for QC Batch T082762. Samples TMW-09, MW-28S, and MW-28I were associated with QC Batch T082762 and had BEHP detected, but the detected concentrations were more than five times the method blank concentration; therefore, no qualifiers were assigned.
- ATM-01 had a detection of BEHP (total) at 1.0 ug/L. **Samples SW-D-4, SW-R-4(F), SW-R-2, SW-R-2(F), SW-R-1, SW-D-2, SW-D-2(F), DUP-01, DUP-01(F), TMW-01, MW-34S, MW-31S(F), MW-33S(F), PW-RR-TJ-MC(F), DUP-05, DUP-05(F), PW-RR-TJ-LB, PW-RR-TI-LB, and PW-RR-TI-LB(F) were assigned a "u" qualifier because of concentrations comparable to ATM-01.**

Other

In prior reports where samples had dissolved BEHP detected at a concentration substantially greater than the total BEHP concentration the dissolved BEHP concentration was attributed to being an artifact of the filtering procedure. In this situation, a "u" qualifier was assigned to dissolved BEHP. In this report, there were no cases where this situation resulted in the assignment of a "u" qualifier.

Laboratory Control Samples (LCS/LCSD)

LCS recoveries for BEHP and BTEX analyses are within control limits except as noted below. LCSD analyses were not performed.

- Toluene in the LCS associated with batch T082751 was recovered 1% below the lower QC limit. **Toluene in samples TMW-10, MW-33S, Trip Blank [11/28/2018], MW-25(R), TMW-09, RB-01, and RB-03 are assigned a "uj" qualifier.**

Laboratory Duplicate Analyses

No laboratory duplicate analyses were performed.

Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)

Sample MW-25(R) and MW-25(R)(F) were used for MS/MSD analysis of BEHP (total and dissolved) and BTEX. Samples TMW-02 and TMW-05 were also used for MS/MSD analyses of BTEX. MS/MSD recoveries and RPDs were within control limits except as follows:

- BEHP recovery in the MW-25(R)(F) MS analysis was below the lower QC limit. The RPD for BEHP in the MW-24(R)(F) MS/MSD was above the QC limit. The Data Qualifiers section of this report attributes these issues to an extraction error. No qualifiers were assigned.

Field duplicates

Calculated RPDs for field duplicates and their respective parent samples are shown in the tables below. Both the parent and duplicate need to have reported detections without an assigned "u" qualifier for the RPD to be calculated; otherwise, the RPD is not calculable (NC). RPDs <= 25% indicate acceptable precision.

DUP-01 is a field duplicate of SW-D-2. This field duplicate pair were analyzed for BEHP and BTEX. The table below shows that the RPDs for these two samples were not calculable.

Analyte	SW-D-2	DUP-01	RPD (%)
BEHP (unfiltered)	<0.49 u	<0.8 u	NC
BEHP (filtered)	<0.37 u	<0.32 u	NC
Benzene	<0.50	<0.50	NC
Toluene	<0.50	<0.50	NC
Ethylbenzene	<0.50	<0.50	NC
m,p-Xylenes	<1.0	<1.0	NC
o-Xylene	<0.50	<0.50	NC
Xylenes, total	<1.5	<1.5	NC

NC – Not Calculable Units are ug/L unless otherwise noted

DUP-02 is a field duplicate of MW-34S. This field duplicate pair were analyzed for BEHP and BTEX. The table below shows the RPDs for these two samples. **Because the RPD is >25%, a "j" qualifier is assigned to total xylenes in MW-34S and DUP-02.**

Analyte	MW-34S	DUP-02	RPD (%)
BEHP (unfiltered)	<1.3 u	<0.96	NC
BEHP (filtered)	<0.94	<0.95	NC
Benzene	<0.50	<0.50	NC
Toluene	<0.50	<0.50	NC
Ethylbenzene	1.2	1.4	-15.4
m,p-Xylenes	2.5	3	-18.2
o-Xylene	<0.50	0.52	NC
Xylenes, total	2.5	3.6	-36.1

Units are ug/L unless otherwise noted

DUP-03 is a field duplicate of TMW-03. This field duplicate pair were analyzed for BEHP and BTEX. The table below shows the RPDs for these two samples. Because the calculable RPDs are less than or equal to 25%, no qualifiers are assigned based upon the RPDs. **However, a "j" qualifier is assigned to filtered (dissolved) BEHP in DUP-03(F) because the detected concentration was substantially different than the nondetect result in TMW-03**.

Analyte	TMW-03	DUP-03	RPD (%)
BEHP (unfiltered)	5500	5900	-7.0
BEHP (filtered)	<0.95	14	NC
Benzene	3.3	3.4	-3.0
Toluene	3.6	3.8	-5.4
Ethylbenzene	9600	10000	-4.1
m,p-Xylenes	31000	36000	-14.9
o-Xylene	2700	2700	0.0
Xylenes, total	34000	39000	-13.7

NC – Not Calculable Units are ug/L unless otherwise noted

DUP-04 is a field duplicate of MW-31S. This field duplicate pair were analyzed for BEHP and BTEX. The table below shows the RPDs for these two samples. **Because the RPD is >25%, a "j" qualifier is assigned to BEHP (unfiltered) in MW-31S and DUP-04.**

Analyte	MW-31S	DUP-04	RPD (%)
BEHP (unfiltered)	3800	1400	92.3
BEHP (filtered)	<1.3 u	2.4	NC
Benzene	1.8	1.6	11.8
Toluene	5.7	5.1	11.1
Ethylbenzene	4500	4100	9.3
m,p-Xylenes	19000	18000	5.4
o-Xylene	4800	4400	8.7
Xylenes, total	24000	22000	8.7

NC – Not Calculable Units are ug/L unless otherwise noted

DUP-05 is a field duplicate of PW-RR-TJ-MC. This field duplicate pair were analyzed for BEHP. The table below shows that the RPDs for these two samples were not calculable.

Analyte	PW-RR-TJ-MC	DUP-05	RPD (%)
BEHP (unfiltered)	<0.48	<0.28 Ju	NC
BEHP (filtered)	<0.72 u	<0.96 u	NC

NC – Not Calculable Units are ug/L unless otherwise noted

Corrective Action

- Lab reissues report on 1/2/2019 to correct sample collection time from 9:35 to 10:00 for T18K629-04 [SW-D-4(F)].

Summary of qualifiers assigned by the data quality reviewer.

The table below does not include lab "J", "N", or other lab qualifiers that were not superseded by data reviewer qualifiers and which should therefore be considered as upheld.

Sample Name	Analyte	Qualifier assigned
PW-RR-TH-LB(F)	BEHP	uj
MW-27S	BEHP	u
MW-27S(F)	BEHP	u
PW-D-3	BEHP	u
PW-D-3(F)	BEHP	u
PW-D-4	BEHP	u
PW-D-4(F)	BEHP	u
PW-D-1	BEHP	u
PW-D-1(F)	BEHP	u
PW-D-2	BEHP	u
PW-D-2(F)	BEHP	u
MW-30I	BEHP	u
PW-RR-TG-LB(F)	BEHP	u
PW-RR-TH-RMC	BEHP	u
PW-RR-TH-RMC(F)	BEHP	u
SW-D-4	BEHP	u
SW-R-4(F)	BEHP	u
SW-R-2	BEHP	u
SW-R-2(F)	BEHP	u
SW-R-1	BEHP	u
SW-D-2	BEHP	u
SW-D-2(F)	BEHP	u
DUP-01	BEHP	u
DUP-01(F)	BEHP	u
TMW-01	BEHP	u
MW-34S	BEHP	u
MW-31S(F)	BEHP	u
MW-33S(F)	BEHP	u
PW-RR-TJ-MC(F)	BEHP	u
DUP-05	BEHP	u
DUP-05(F)	BEHP	u
PW-RR-TJ-LB	BEHP	u
PW-RR-TI-LB	BEHP	u
PW-RR-TI-LB(F)	BEHP	u
MW-34S	Total Xylenes	j
DUP-02	Total Xylenes	j

DUP-03(F)	BEHP	j
MW-31S	BEHP	j
DUP-04	BEHP	j

BEHP = bis(2-ethylhexyl)phthalate

- **Dissolved BEHP in sample PW-RR-TH-LB(F) is assigned a "uj" qualifier.**
- **A "u" qualifier is assigned to BEHP in MW-27S, MW-27S(F), PW-D-3, PW-D-3(F), PW-D-4, PW-D-4(F), PW-D-1, and PW-D-1(F).**
- **A "u" qualifier is assigned to BEHP in PW-D-2 and PW-D-2(F).**
- **A "u" qualifier is assigned to BEHP in MW-30I, PW-RR-TG-LB(F), PW-RR-TH-RMC, and PW-RR-TH-RMC(F).**
- **Samples SW-D-4, SW-R-4(F), SW-R-2, SW-R-2(F), SW-R-1, SW-D-2, SW-D-2(F), DUP-01, DUP-01(F), TMW-01, MW-34S, MW-31S(F), MW-33S(F), PW-RR-TJ-MC(F), DUP-05, DUP-05(F), PW-RR-TJ-LB, PW-RR-TI-LB, and PW-RR-TI-LB(F) were assigned a "u" qualifier because of concentrations comparable to ATM-01.**
- **Because the RPD is >25%, a "j" qualifier is assigned to total xylenes in MW-34S and DUP-02.**
- **A "j" qualifier is assigned to filtered (dissolved) BEHP in DUP-03(F) because the detected concentration was substantially different than the nondetect result in TMW-03.**
- **Because the RPD is >25%, a "j" qualifier is assigned to BEHP (unfiltered) in MW-31S and DUP-04.**

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January 14, 2019

Mr. Scott Pawlukiewicz
TRC Solutions
2025 E. Beltline Ave., SE, Ste 402
Grand Rapids, MI 49546

Phone: (616) 537-8445
Fax: (616) 975-1098

RE: Trace Project T18K629
Client Project LEC 293107.0000.0000

Dear Mr. Pawlukiewicz:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

The report was revised to correct sample name issues as outlined in the attached email.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

For clients that require NELAC Accreditation, Trace certifies that these test results meet all requirements of the NELAC Standard, except for those analytes with a "N" notation. These analytes have not been evaluated by NELAC at Trace's discretion and will not be reported unless requested by client.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

Jon Mink
Senior Project Manager
Enclosures

NJDEP Accreditation No. MI008

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SAMPLE SUMMARY

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
T18K629-01	SW-D-3	Surface Water	Client	11/26/18 09:35	11/29/18 08:30
T18K629-02	SW-D-3(F)	Surface Water	Client	11/26/18 09:35	11/29/18 08:30
T18K629-03	SW-D-4	Surface Water	Client	11/26/18 10:00	11/29/18 08:30
T18K629-04	SW-D-4(F)	Surface Water	Client	11/26/18 10:00	11/29/18 08:30
T18K629-05	SW-D-1	Surface Water	Client	11/26/18 10:25	11/29/18 08:30
T18K629-06	SW-D-1(F)	Surface Water	Client	11/26/18 10:25	11/29/18 08:30
T18K629-07	SW-R-6	Surface Water	Client	11/26/18 11:00	11/29/18 08:30
T18K629-08	SW-R-6(F)	Surface Water	Client	11/26/18 11:00	11/29/18 08:30
T18K629-09	SW-D-5	Surface Water	Client	11/26/18 12:20	11/29/18 08:30
T18K629-10	SW-D-5(F)	Surface Water	Client	11/26/18 12:20	11/29/18 08:30
T18K629-11	DRC-02	Surface Water	Client	11/26/18 12:50	11/29/18 08:30
T18K629-12	DRC-02(F)	Surface Water	Client	11/26/18 12:50	11/29/18 08:30
T18K629-13	SW-R-4	Surface Water	Client	11/26/18 14:15	11/29/18 08:30
T18K629-14	SW-R-4(F)	Surface Water	Client	11/26/18 14:15	11/29/18 08:30
T18K629-15	SW-R-3	Surface Water	Client	11/26/18 14:30	11/29/18 08:30
T18K629-16	SW-R-3(F)	Surface Water	Client	11/26/18 14:30	11/29/18 08:30
T18K629-17	SW-R-2	Surface Water	Client	11/26/18 14:45	11/29/18 08:30
T18K629-18	SW-R-2(F)	Surface Water	Client	11/26/18 14:45	11/29/18 08:30
T18K629-19	SW-R-1	Surface Water	Client	11/26/18 15:00	11/29/18 08:30
T18K629-20	SW-R-1(F)	Surface Water	Client	11/26/18 15:00	11/29/18 08:30
T18K629-21	SW-D-2	Surface Water	Client	11/26/18 15:20	11/29/18 08:30
T18K629-22	SW-D-2(F)	Surface Water	Client	11/26/18 15:20	11/29/18 08:30
T18K629-23	DUP-01	Surface Water	Client	11/26/18 15:30	11/29/18 08:30
T18K629-24	DUP-01(F)	Surface Water	Client	11/26/18 15:30	11/29/18 08:30
T18K629-25	TMW-01	Ground Water	Client	11/26/18 11:20	11/29/18 08:30
T18K629-26	TMW-01(F)	Ground Water	Client	11/26/18 11:20	11/29/18 08:30
T18K629-27	TMW-02	Ground Water	Client	11/26/18 12:55	11/29/18 08:30
T18K629-28	TMW-02(F)	Ground Water	Client	11/26/18 12:55	11/29/18 08:30
T18K629-29	MW-34S	Ground Water	Client	11/26/18 14:20	11/29/18 08:30
T18K629-30	MW-34S(F)	Ground Water	Client	11/26/18 14:20	11/29/18 08:30
T18K629-31	TMW-03	Ground Water	Client	11/26/18 14:30	11/29/18 08:30
T18K629-32	TMW-03(F)	Ground Water	Client	11/26/18 14:30	11/29/18 08:30
T18K629-33	DUP-03	Ground Water	Client	11/26/18 14:40	11/29/18 08:30
T18K629-34	DUP-03(F)	Ground Water	Client	11/26/18 14:40	11/29/18 08:30
T18K629-35	DUP-02	Ground Water	Client	11/26/18 16:00	11/29/18 08:30

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T18K629-36	DUP-02(F)	Ground Water	Client	11/26/18 16:00	11/29/18 08:30
T18K629-37	TMW-04	Ground Water	Client	11/27/18 10:25	11/29/18 08:30
T18K629-38	TMW-04(F)	Ground Water	Client	11/27/18 10:25	11/29/18 08:30
T18K629-39	MW-35S	Ground Water	Client	11/27/18 10:26	11/29/18 08:30
T18K629-40	MW-35S(F)	Ground Water	Client	11/27/18 10:26	11/29/18 08:30
T18K629-41	TMW-05	Ground Water	Client	11/27/18 12:10	11/29/18 08:30
T18K629-42	TMW-05(F)	Ground Water	Client	11/27/18 12:10	11/29/18 08:30
T18K629-43	TMW-08	Ground Water	Client	11/27/18 13:50	11/29/18 08:30
T18K629-44	TMW-08(F)	Ground Water	Client	11/27/18 13:50	11/29/18 08:30
T18K629-45	MW-32S	Ground Water	Client	11/27/18 14:30	11/29/18 08:30
T18K629-46	MW-32S(F)	Ground Water	Client	11/27/18 14:30	11/29/18 08:30
T18K629-47	MW-27S	Ground Water	Client	11/27/18 10:10	11/29/18 08:30
T18K629-48	MW-27S(F)	Ground Water	Client	11/27/18 10:10	11/29/18 08:30
T18K629-49	ATM-01	Aqueous	Client	11/27/18 10:30	11/29/18 08:30
T18K629-50	ATM-01(F)	Aqueous	Client	11/27/18 10:30	11/29/18 08:30
T18K629-51	PW-D-3	Ground Water	dz	11/27/18 11:40	11/29/18 08:30
T18K629-52	PW-D-3(F)	Ground Water	dz	11/27/18 11:40	11/29/18 08:30
T18K629-53	PW-D-4	Ground Water	dz	11/27/18 13:40	11/29/18 08:30
T18K629-54	PW-D-4(F)	Ground Water	dz	11/27/18 13:40	11/29/18 08:30
T18K629-55	PW-D-1	Ground Water	dz	11/27/18 14:20	11/29/18 08:30
T18K629-56	PW-D-1(F)	Ground Water	dz	11/27/18 14:20	11/29/18 08:30
T18K629-57	Trip Blank	Aqueous	Client	11/27/18	11/29/18 08:30
T18K629-58	TMW-06	Ground Water	eo/jml	11/28/18 09:50	11/30/18 11:00
T18K629-59	TMW-06(F)	Ground Water	eo/jml	11/28/18 09:50	11/30/18 11:00
T18K629-60	TMW-07	Ground Water	eo/jml	11/28/18 11:00	11/30/18 11:00
T18K629-61	TMW-07(F)	Ground Water	eo/jml	11/28/18 11:00	11/30/18 11:00
T18K629-62	MW-31S	Ground Water	eo/jml	11/28/18 12:10	11/30/18 11:00
T18K629-63	MW-31S(F)	Ground Water	eo/jml	11/28/18 12:10	11/30/18 11:00
T18K629-64	TMW-10	Ground Water	eo/jml	11/28/18 12:30	11/30/18 11:00
T18K629-65	TMW-10(F)	Ground Water	eo/jml	11/28/18 12:30	11/30/18 11:00
T18K629-66	DUP-04	Ground Water	eo/jml	11/28/18 12:40	11/30/18 11:00
T18K629-67	DUP-04(F)	Ground Water	eo/jml	11/28/18 12:40	11/30/18 11:00
T18K629-68	MW-33S	Ground Water	eo/jml	11/28/18 14:48	11/30/18 11:00
T18K629-69	MW-33S(F)	Ground Water	eo/jml	11/28/18 14:48	11/30/18 11:00
T18K629-70	Trip Blank	Aqueous	Client	11/28/18	11/30/18 11:00
T18K629-71	PW-RR-TJ-MC	Ground Water	dz	11/28/18 10:30	11/30/18 11:00
T18K629-72	PW-RR-TJ-MC(F)	Ground Water	dz	11/28/18 10:30	11/30/18 11:00
T18K629-73	DUP-05	Ground Water	dz	11/28/18 10:40	11/30/18 11:00
T18K629-74	DUP-05(F)	Ground Water	dz	11/28/18 10:40	11/30/18 11:00
T18K629-75	PW-RR-TJ-LB	Ground Water	dz	11/28/18 11:30	11/30/18 11:00

CERTIFICATE OF ANALYSIS

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T18K629-76	PW-RR-TJ-LB(F)	Ground Water	dz	11/28/18 11:30	11/30/18 11:00
T18K629-77	PW-RR-TI-LB-30	Ground Water	dz	11/28/18 12:30	11/30/18 11:00
T18K629-78	PW-RR-TI-LB-30(F)	Ground Water	dz	11/28/18 12:30	11/30/18 11:00
T18K629-79	PW-RR-TH-LB	Ground Water	dz	11/28/18 14:30	11/30/18 11:00
T18K629-80	PW-RR-TH-LB(F)	Ground Water	dz	11/28/18 14:30	11/30/18 11:00
T18K629-81	PW-D-2	Ground Water	dz	11/28/18 09:00	11/30/18 11:00
T18K629-82	PW-D-2(F)	Ground Water	dz	11/28/18 09:00	11/30/18 11:00
T18K629-83	MW-29S	Ground Water	jml/eo	11/29/18 09:50	12/03/18 12:20
T18K629-84	MW-29S(F)	Ground Water	jml/eo	11/29/18 09:50	12/03/18 12:20
T18K629-85	MW-25(R)	Ground Water	jml/eo	11/29/18 09:52	12/03/18 12:20
T18K629-86	MW-25(R)(F)	Ground Water	jml/eo	11/29/18 09:52	12/03/18 12:20
T18K629-87	MW-30D	Ground Water	jml/eo	11/29/18 10:45	12/03/18 12:20
T18K629-88	MW-30D(F)	Ground Water	jml/eo	11/29/18 10:45	12/03/18 12:20
T18K629-89	MW-30I	Ground Water	jml/eo	11/29/18 11:25	12/03/18 12:20
T18K629-90	MW-30I(F)	Ground Water	jml/eo	11/29/18 11:25	12/03/18 12:20
T18K629-91	MW-30S(R)	Ground Water	jml/eo	11/29/18 13:10	12/03/18 12:20
T18K629-92	MW-30S(R)(F)	Ground Water	jml/eo	11/29/18 13:10	12/03/18 12:20
T18K629-93	MW-08	Ground Water	jml/eo	11/29/18 13:42	12/03/18 12:20
T18K629-94	MW-08(F)	Ground Water	jml/eo	11/29/18 13:42	12/03/18 12:20
T18K629-95	Trip Blank	Aqueous	Client	11/29/18 15:00	12/03/18 12:20
T18K629-96	PW-RR-TG-LB	Ground Water	dz	11/29/18 11:00	12/03/18 12:20
T18K629-97	PW-RR-TG-LB(F)	Ground Water	dz	11/29/18 11:00	12/03/18 12:20
T18K629-98	PW-RR-TH-RMC	Ground Water	dz	11/29/18 14:00	12/03/18 12:20
T18K629-99	PW-RR-TH-RMC(F)	Ground Water	dz	11/29/18 14:00	12/03/18 12:20
T18K629-AA	TMW-09	Ground Water	jc/eo/dz	11/30/18 09:55	12/03/18 12:20
T18K629-AB	TMW-09(F)	Ground Water	jc/eo/dz	11/30/18 09:55	12/03/18 12:20
T18K629-AC	MW-28S	Ground Water	jc/eo/dz	11/30/18 10:00	12/03/18 12:20
T18K629-AD	MW-28S(F)	Ground Water	jc/eo/dz	11/30/18 10:00	12/03/18 12:20
T18K629-AE	MW-28I	Ground Water	jc/eo/dz	11/30/18 10:45	12/03/18 12:20
T18K629-AF	MW-28I(F)	Ground Water	jc/eo/dz	11/30/18 10:45	12/03/18 12:20
T18K629-AG	RB-01	Aqueous	jc/eo/dz	11/30/18 10:30	12/03/18 12:20
T18K629-AH	RB-01(F)	Aqueous	jc/eo/dz	11/30/18 10:30	12/03/18 12:20
T18K629-AI	RB-02	Aqueous	jc/eo/dz	11/30/18 11:00	12/03/18 12:20
T18K629-AJ	RB-02(F)	Aqueous	jc/eo/dz	11/30/18 11:00	12/03/18 12:20
T18K629-AK	RB-03	Aqueous	jc/eo/dz	11/30/18 11:30	12/03/18 12:20
T18K629-AL	RB-03(F)	Aqueous	jc/eo/dz	11/30/18 11:30	12/03/18 12:20
T18K629-AM	Trip Blank	Aqueous	jc/eo/dz	11/30/18 12:30	12/03/18 12:20

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AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

DEFINITIONS

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
RDL	Reporting Detection Limit
MCL	Maximum Contamination Limit
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

NOTE: Samples for volatiles that have been extracted with a water miscible solvent were corrected for the total volume of the solvent/water mixture.
Solid matrices Method Blanks are at 100% solids as such results are the same wet or dry.

DATA QUALIFIERS

Trace ID: T082660-BS1

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T082692-BS1

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T082723-MSD2

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note 237.5 : Due to an extraction error, the MS recoveries were below QC criteria which resulted in the RPDs also being out of control. This is not deemed a matrix problem and no data require qualification.

Trace ID: T082751-BS1

Analysis: EPA 8260C

Toluene	Note 113 : The LCS recovery was out of control low. Because the MS and MSD recoveries were within QC limits, no data require qualification.

Trace ID: T082762-BS1

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-03

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Analysis: EPA 8270D

2-Fluorobiphenyl	Note 314 : The surrogate was out of control low when compared to the control limits. All results and reporting limits must be considered estimated.
Nitrobenzene-d5	Note 314 : The surrogate was out of control low when compared to the control limits. All results and reporting limits must be considered estimated.

Trace ID: T18K629-07

Analysis: EPA 8270D

Terphenyl-d14	Note 802 : One of the base/neutral surrogate recoveries was outside the control limits. Since the other two base/neutral surrogates were within the control limits, no data require qualification.

Trace ID: T18K629-27

Analysis: EPA 8270D

2-Fluorobiphenyl	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T18K629-31

Analysis: EPA 8270D

2-Fluorobiphenyl	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T18K629-33

Analysis: EPA 8270D

2-Fluorobiphenyl	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T18K629-37

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-38

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-39

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Analysis: EPA 8270D

2-Fluorobiphenyl	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).
Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T18K629-40

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-41

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-43

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).
Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T18K629-44

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-45

Analysis: EPA 8270D

2-Fluorobiphenyl	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).
Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T18K629-47

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-48

Analysis: EPA 8270D

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Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-49

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-51

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-52

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-53

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-54

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-55

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-56

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-62

Analysis: EPA 8270D

2-Fluorobiphenyl	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T18K629-66

Analysis: EPA 8270D

2-Fluorobiphenyl	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

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Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T18K629-68

Analysis: EPA 8270D

Terphenyl-d14	Note 802 : One of the base/neutral surrogate recoveries was outside the control limits. Since the other two base/neutral surrogates were within the control limits, no data require qualification.

Trace ID: T18K629-79

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-80

Analysis: EPA 8270D

2-Fluorobiphenyl	Note 314 : The surrogate was out of control low when compared to the control limits. All results and reporting limits must be considered estimated.
Terphenyl-d14	Note 314 : The surrogate was out of control low when compared to the control limits. All results and reporting limits must be considered estimated.

Trace ID: T18K629-81

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-82

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-84

Analysis: EPA 8270D

Terphenyl-d14	Note 802 : One of the base/neutral surrogate recoveries was outside the control limits. Since the other two base/neutral surrogates were within the control limits, no data require qualification.

Trace ID: T18K629-AA

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-AB

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-AC

Analysis: EPA 8270D

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Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-AE

Analysis: EPA 8270D

Bis(2-ethylhexyl)phthalate	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Trace ID: T18K629-AM

Analysis: EPA 8260C

1,2-Dichloroethane-d4	Note 312 : The surrogate recovery was out of control high when compared to control limits. As there are no positive results, no data require qualification.

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-01 | Date Collected: 11/26/18 09:35 | Matrix: Surface Water
Sample ID: SW-D-3 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	11/30/18	kbc	12/03/18	avl	N	
Surrogates:										
Nitrobenzene-d5	69	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	65	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	55	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082587										
Benzene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Toluene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	11/30/18	was	11/30/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	11/30/18	was	11/30/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	110	%	68-133	1	11/30/18	was	11/30/18	was	N	
Toluene-d8	106	%	75-120	1	11/30/18	was	11/30/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-02 | Date Collected: 11/26/18 09:35 | Matrix: Surface Water
Sample ID: SW-D-3(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	11/30/18	kbc	12/03/18	avl	N	
Surrogates:										
Nitrobenzene-d5	63	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	62	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	66	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-03 | Date Collected: 11/26/18 10:00 | Matrix: Surface Water
Sample ID: SW-D-4 | Date Received: 11/29/18 08:30

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T082581											
Bis(2-ethylhexyl)phthalate		**0.23**	**ug/L**	**0.48**	**1**	**11/30/18**	**kbc**	**12/03/18**	**avl**	**J, N**	
Surrogates:											
Nitrobenzene-d5	*	**26**	%	36-103	1	11/30/18	kbc	12/03/18	avl	314, N	
2-Fluorobiphenyl	*	**30**	%	36-119	1	11/30/18	kbc	12/03/18	avl	314, N	
Terphenyl-d14		45	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T082587											
Benzene		<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Toluene		<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Ethylbenzene		<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
m,p-Xylene		<1.0	ug/L	1.0	1	11/30/18	was	11/30/18	was	N	
o-Xylene		<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Xylenes, total		<1.5	ug/L	1.5	1	11/30/18	was	11/30/18	was	N	
Surrogates:											
1,2-Dichloroethane-d4		112	%	68-133	1	11/30/18	was	11/30/18	was	N	
Toluene-d8		107	%	75-120	1	11/30/18	was	11/30/18	was	N	

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Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-04 | Date Collected: 11/26/18 10:00 | Matrix: Surface Water
Sample ID: SW-D-4(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	<0.49	ug/L	0.49	1	11/30/18	kbc	12/03/18	avl	N	
Surrogates:										
Nitrobenzene-d5	54	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	48	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	49	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-05 | Date Collected: 11/26/18 10:25 | Matrix: Surface Water
Sample ID: SW-D-1 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	<0.49	ug/L	0.49	1	11/30/18	kbc	12/03/18	avl	N	
Surrogates:										
Nitrobenzene-d5	55	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	52	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	55	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082587										
Benzene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Toluene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	11/30/18	was	11/30/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	11/30/18	was	11/30/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	110	%	68-133	1	11/30/18	was	11/30/18	was	N	
Toluene-d8	107	%	75-120	1	11/30/18	was	11/30/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-06 | Date Collected: 11/26/18 10:25 | Matrix: Surface Water
Sample ID: SW-D-1(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	11/30/18	kbc	12/03/18	avl	N	
Surrogates:										
Nitrobenzene-d5	72	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	66	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	57	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-07 | Date Collected: 11/26/18 11:00 | Matrix: Surface Water
Sample ID: SW-R-6 | Date Received: 11/29/18 08:30

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T082581											
Bis(2-ethylhexyl)phthalate		<0.48	ug/L	0.48	1	11/30/18	kbc	12/03/18	avl	N	
Surrogates:											
Nitrobenzene-d5		39	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl		40	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	*	**35**	%	37-109	1	11/30/18	kbc	12/03/18	avl	802, N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T082587											
Benzene		<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Toluene		<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Ethylbenzene		<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
m,p-Xylene		<1.0	ug/L	1.0	1	11/30/18	was	11/30/18	was	N	
o-Xylene		<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Xylenes, total		<1.5	ug/L	1.5	1	11/30/18	was	11/30/18	was	N	
Surrogates:											
1,2-Dichloroethane-d4		109	%	68-133	1	11/30/18	was	11/30/18	was	N	
Toluene-d8		106	%	75-120	1	11/30/18	was	11/30/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-08 | Date Collected: 11/26/18 11:00 | Matrix: Surface Water
Sample ID: SW-R-6(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	<0.49	ug/L	0.49	1	11/30/18	kbc	12/03/18	avl	N	
Surrogates:										
Nitrobenzene-d5	76	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	66	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	67	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-09 | Date Collected: 11/26/18 12:20 | Matrix: Surface Water
Sample ID: SW-D-5 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	11/30/18	kbc	12/03/18	avl	N	
Surrogates:										
Nitrobenzene-d5	70	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	66	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	62	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082587										
Benzene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Toluene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	11/30/18	was	11/30/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	11/30/18	was	11/30/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	111	%	68-133	1	11/30/18	was	11/30/18	was	N	
Toluene-d8	107	%	75-120	1	11/30/18	was	11/30/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-10 | Date Collected: 11/26/18 12:20 | Matrix: Surface Water
Sample ID: SW-D-5(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	<0.47	ug/L	0.47	1	11/30/18	kbc	12/03/18	avl	N	
Surrogates:										
Nitrobenzene-d5	64	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	58	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	54	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-11 | Date Collected: 11/26/18 12:50 | Matrix: Surface Water
Sample ID: DRC-02 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	<0.47	ug/L	0.47	1	11/30/18	kbc	12/03/18	avl	N	
Surrogates:										
Nitrobenzene-d5	64	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	63	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	58	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082587										
Benzene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Toluene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	11/30/18	was	11/30/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	11/30/18	was	11/30/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	111	%	68-133	1	11/30/18	was	11/30/18	was	N	
Toluene-d8	106	%	75-120	1	11/30/18	was	11/30/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-12 | Date Collected: 11/26/18 12:50 | Matrix: Surface Water
Sample ID: DRC-02(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	<0.47	ug/L	0.47	1	11/30/18	kbc	12/03/18	avl	N	
Surrogates:										
Nitrobenzene-d5	69	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	66	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	58	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-13 | Date Collected: 11/26/18 14:15 | Matrix: Surface Water
Sample ID: SW-R-4 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	<0.47	ug/L	0.47	1	11/30/18	kbc	12/03/18	avl	N	
Surrogates:										
Nitrobenzene-d5	72	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	70	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	54	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082587										
Benzene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Toluene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	11/30/18	was	11/30/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	11/30/18	was	11/30/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	113	%	68-133	1	11/30/18	was	11/30/18	was	N	
Toluene-d8	104	%	75-120	1	11/30/18	was	11/30/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-14 | Date Collected: 11/26/18 14:15 | Matrix: Surface Water
Sample ID: SW-R-4(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	**0.41**	**ug/L**	**0.48**	**1**	**11/30/18**	**kbc**	**12/03/18**	**avl**	**J, N**	
Surrogates:										
Nitrobenzene-d5	71	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	68	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	55	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-15 | Date Collected: 11/26/18 14:30 | Matrix: Surface Water
Sample ID: SW-R-3 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	<0.47	ug/L	0.47	1	11/30/18	kbc	12/03/18	avl	N	
Surrogates:										
Nitrobenzene-d5	59	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	60	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	56	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082587										
Benzene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Toluene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	11/30/18	was	11/30/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	11/30/18	was	11/30/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	107	%	68-133	1	11/30/18	was	11/30/18	was	N	
Toluene-d8	104	%	75-120	1	11/30/18	was	11/30/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-16 | Date Collected: 11/26/18 14:30 | Matrix: Surface Water
Sample ID: SW-R-3(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	11/30/18	kbc	12/03/18	avl	N	
Surrogates:										
Nitrobenzene-d5	50	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	51	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	46	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-17 | Date Collected: 11/26/18 14:45 | Matrix: Surface Water
Sample ID: SW-R-2 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	**0.37**	**ug/L**	**0.47**	**1**	**11/30/18**	**kbc**	**12/03/18**	**avl**	**J, N**	
Surrogates:										
Nitrobenzene-d5	58	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	55	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	52	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082587										
Benzene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Toluene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	11/30/18	was	11/30/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	11/30/18	was	11/30/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	112	%	68-133	1	11/30/18	was	11/30/18	was	N	
Toluene-d8	108	%	75-120	1	11/30/18	was	11/30/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-18 | Date Collected: 11/26/18 14:45 | Matrix: Surface Water
Sample ID: SW-R-2(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	**0.42**	**ug/L**	**0.47**	**1**	**11/30/18**	**kbc**	**12/03/18**	**avl**	**J, N**	
Surrogates:										
Nitrobenzene-d5	61	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	65	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	51	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-19 | Date Collected: 11/26/18 15:00 | Matrix: Surface Water
Sample ID: SW-R-1 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8270D									
Batch: T082581									
Bis(2-ethylhexyl)phthalate	**0.95 ug/L**	**0.47**	**1**	**11/30/18**	**kbc**	**12/03/18**	**avl**	**N**	
Surrogates:									
Nitrobenzene-d5	53 %	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	53 %	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	50 %	37-109	1	11/30/18	kbc	12/03/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8260C									
Batch: T082587									
Benzene	<0.50 ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Toluene	<0.50 ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Ethylbenzene	<0.50 ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
m,p-Xylene	<1.0 ug/L	1.0	1	11/30/18	was	11/30/18	was	N	
o-Xylene	<0.50 ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	11/30/18	was	11/30/18	was	N	
Surrogates:									
1,2-Dichloroethane-d4	108 %	68-133	1	11/30/18	was	11/30/18	was	N	
Toluene-d8	102 %	75-120	1	11/30/18	was	11/30/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-20 | Date Collected: 11/26/18 15:00 | Matrix: Surface Water
Sample ID: SW-R-1(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082581										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	11/30/18	kbc	12/03/18	avl	N	
Surrogates:										
Nitrobenzene-d5	52	%	36-103	1	11/30/18	kbc	12/03/18	avl	N	
2-Fluorobiphenyl	50	%	36-119	1	11/30/18	kbc	12/03/18	avl	N	
Terphenyl-d14	47	%	37-109	1	11/30/18	kbc	12/03/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-21 | Date Collected: 11/26/18 15:20 | Matrix: Surface Water
Sample ID: SW-D-2 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8270D									
Batch: T082623									
Bis(2-ethylhexyl)phthalate	**0.49 ug/L**	**0.48**	**1**	**12/03/18**	**kbc**	**12/04/18**	**avl**	**N**	
Surrogates:									
Nitrobenzene-d5	83 %	36-103	1	12/03/18	kbc	12/04/18	avl	N	
2-Fluorobiphenyl	76 %	36-119	1	12/03/18	kbc	12/04/18	avl	N	
Terphenyl-d14	55 %	37-109	1	12/03/18	kbc	12/04/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8260C									
Batch: T082587									
Benzene	<0.50 ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Toluene	<0.50 ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Ethylbenzene	<0.50 ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
m,p-Xylene	<1.0 ug/L	1.0	1	11/30/18	was	11/30/18	was	N	
o-Xylene	<0.50 ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	11/30/18	was	11/30/18	was	N	
Surrogates:									
1,2-Dichloroethane-d4	110 %	68-133	1	11/30/18	was	11/30/18	was	N	
Toluene-d8	105 %	75-120	1	11/30/18	was	11/30/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-22 | Date Collected: 11/26/18 15:20 | Matrix: Surface Water
Sample ID: SW-D-2(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082623										
Bis(2-ethylhexyl)phthalate	**0.37**	**ug/L**	**0.47**	**1**	**12/03/18**	**kbc**	**12/04/18**	**avl**	**J, N**	
Surrogates:										
Nitrobenzene-d5	68	%	36-103	1	12/03/18	kbc	12/04/18	avl	N	
2-Fluorobiphenyl	61	%	36-119	1	12/03/18	kbc	12/04/18	avl	N	
Terphenyl-d14	48	%	37-109	1	12/03/18	kbc	12/04/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-23 | Date Collected: 11/26/18 15:30 | Matrix: Surface Water
Sample ID: DUP-01 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8270D									
Batch: T082623									
Bis(2-ethylhexyl)phthalate	**0.80 ug/L**	**0.48**	**1**	**12/03/18**	**kbc**	**12/04/18**	**avl**	**N**	
Surrogates:									
Nitrobenzene-d5	68 %	36-103	1	12/03/18	kbc	12/04/18	avl	N	
2-Fluorobiphenyl	64 %	36-119	1	12/03/18	kbc	12/04/18	avl	N	
Terphenyl-d14	60 %	37-109	1	12/03/18	kbc	12/04/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8260C									
Batch: T082587									
Benzene	<0.50 ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Toluene	<0.50 ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Ethylbenzene	<0.50 ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
m,p-Xylene	<1.0 ug/L	1.0	1	11/30/18	was	11/30/18	was	N	
o-Xylene	<0.50 ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	11/30/18	was	11/30/18	was	N	
Surrogates:									
1,2-Dichloroethane-d4	110 %	68-133	1	11/30/18	was	11/30/18	was	N	
Toluene-d8	104 %	75-120	1	11/30/18	was	11/30/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-24 | Date Collected: 11/26/18 15:30 | Matrix: Surface Water
Sample ID: DUP-01(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082623										
Bis(2-ethylhexyl)phthalate	**0.32**	**ug/L**	**0.48**	**1**	**12/03/18**	**kbc**	**12/04/18**	**avl**	**J, N**	
Surrogates:										
Nitrobenzene-d5	65	%	36-103	1	12/03/18	kbc	12/04/18	avl	N	
2-Fluorobiphenyl	67	%	36-119	1	12/03/18	kbc	12/04/18	avl	N	
Terphenyl-d14	55	%	37-109	1	12/03/18	kbc	12/04/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-25 | Date Collected: 11/26/18 11:20 | Matrix: Ground Water
Sample ID: TMW-01 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082623										
Bis(2-ethylhexyl)phthalate	**1.2**	**ug/L**	**0.95**	**1**	**12/03/18**	**kbc**	**12/04/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	64	%	36-103	1	12/03/18	kbc	12/04/18	avl	N	
2-Fluorobiphenyl	55	%	36-119	1	12/03/18	kbc	12/04/18	avl	N	
Terphenyl-d14	50	%	37-109	1	12/03/18	kbc	12/04/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082587										
Benzene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Toluene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Ethylbenzene	**5.2**	**ug/L**	**0.50**	**1**	**11/30/18**	**was**	**11/30/18**	**was**	**N**	
m,p-Xylene	**7.6**	**ug/L**	**1.0**	**1**	**11/30/18**	**was**	**11/30/18**	**was**	**N**	
o-Xylene	<0.50	ug/L	0.50	1	11/30/18	was	11/30/18	was	N	
Xylenes, total	**7.6**	**ug/L**	**1.5**	**1**	**11/30/18**	**was**	**11/30/18**	**was**	**N**	
Surrogates:										
1,2-Dichloroethane-d4	109	%	68-133	1	11/30/18	was	11/30/18	was	N	
Toluene-d8	106	%	75-120	1	11/30/18	was	11/30/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-26 | Date Collected: 11/26/18 11:20 | Matrix: Ground Water
Sample ID: TMW-01(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082623										
Bis(2-ethylhexyl)phthalate	<0.94	ug/L	0.94	1	12/03/18	kbc	12/04/18	avl	N	
Surrogates:										
Nitrobenzene-d5	85	%	36-103	1	12/03/18	kbc	12/04/18	avl	N	
2-Fluorobiphenyl	70	%	36-119	1	12/03/18	kbc	12/04/18	avl	N	
Terphenyl-d14	64	%	37-109	1	12/03/18	kbc	12/04/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-27 | Date Collected: 11/26/18 12:55 | Matrix: Ground Water
Sample ID: TMW-02 | Date Received: 11/29/18 08:30

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T082623											
Bis(2-ethylhexyl)phthalate		**98**	**ug/L**	**47**	**50**	**12/03/18**	**kbc**	**12/04/18**	**avl**	**N**	
Surrogates:											
Nitrobenzene-d5	*		%	36-103	50	12/03/18	kbc	12/04/18	avl	302, N	
2-Fluorobiphenyl	*		%	36-119	50	12/03/18	kbc	12/04/18	avl	302, N	
Terphenyl-d14	*		%	37-109	50	12/03/18	kbc	12/04/18	avl	302, N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T082686											
Benzene		**0.72**	**ug/L**	**0.50**	**1**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
Toluene		<0.50	ug/L	0.50	1	12/04/18	was	12/04/18	was	N	
Ethylbenzene		**1300**	**ug/L**	**50**	**100**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
m,p-Xylene		**4300**	**ug/L**	**100**	**100**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
o-Xylene		**480**	**ug/L**	**50**	**100**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
Xylenes, total		**4700**	**ug/L**	**150**	**100**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
Surrogates:											
1,2-Dichloroethane-d4		110	%	68-133	1	12/04/18	was	12/04/18	was	N	
1,2-Dichloroethane-d4		113	%	68-133	100	12/04/18	was	12/04/18	was	N	
Toluene-d8		110	%	75-120	1	12/04/18	was	12/04/18	was	N	
Toluene-d8		108	%	75-120	100	12/04/18	was	12/04/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-28 | Date Collected: 11/26/18 12:55 | Matrix: Ground Water
Sample ID: TMW-02(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082623										
Bis(2-ethylhexyl)phthalate	<0.94	ug/L	0.94	1	12/03/18	kbc	12/04/18	avl	N	
Surrogates:										
Nitrobenzene-d5	73	%	36-103	1	12/03/18	kbc	12/04/18	avl	N	
2-Fluorobiphenyl	69	%	36-119	1	12/03/18	kbc	12/04/18	avl	N	
Terphenyl-d14	51	%	37-109	1	12/03/18	kbc	12/04/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-29 | Date Collected: 11/26/18 14:20 | Matrix: Ground Water
Sample ID: MW-34S | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082623										
Bis(2-ethylhexyl)phthalate	**1.3**	**ug/L**	**0.95**	**1**	**12/03/18**	**kbc**	**12/04/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	74	%	36-103	1	12/03/18	kbc	12/04/18	avl	N	
2-Fluorobiphenyl	69	%	36-119	1	12/03/18	kbc	12/04/18	avl	N	
Terphenyl-d14	56	%	37-109	1	12/03/18	kbc	12/04/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082686										
Benzene	<0.50	ug/L	0.50	1	12/04/18	was	12/04/18	was	N	
Toluene	<0.50	ug/L	0.50	1	12/04/18	was	12/04/18	was	N	
Ethylbenzene	**1.2**	**ug/L**	**0.50**	**1**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
m,p-Xylene	**2.5**	**ug/L**	**1.0**	**1**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
o-Xylene	<0.50	ug/L	0.50	1	12/04/18	was	12/04/18	was	N	
Xylenes, total	**2.5**	**ug/L**	**1.5**	**1**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
Surrogates:										
1,2-Dichloroethane-d4	111	%	68-133	1	12/04/18	was	12/04/18	was	N	
Toluene-d8	106	%	75-120	1	12/04/18	was	12/04/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-30 | Date Collected: 11/26/18 14:20 | Matrix: Ground Water
Sample ID: MW-34S(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082623										
Bis(2-ethylhexyl)phthalate	<0.94	ug/L	0.94	1	12/03/18	kbc	12/04/18	avl	N	
Surrogates:										
Nitrobenzene-d5	63	%	36-103	1	12/03/18	kbc	12/04/18	avl	N	
2-Fluorobiphenyl	58	%	36-119	1	12/03/18	kbc	12/04/18	avl	N	
Terphenyl-d14	52	%	37-109	1	12/03/18	kbc	12/04/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-31 | Date Collected: 11/26/18 14:30 | Matrix: Ground Water
Sample ID: TMW-03 | Date Received: 11/29/18 08:30

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T082623											
Bis(2-ethylhexyl)phthalate		**5500**	**ug/L**	**95**	**100**	**12/03/18**	**kbc**	**12/05/18**	**avl**	**N**	
Surrogates:											
Nitrobenzene-d5	*		%	36-103	100	12/03/18	kbc	12/05/18	avl	302, N	
2-Fluorobiphenyl	*		%	36-119	100	12/03/18	kbc	12/05/18	avl	302, N	
Terphenyl-d14	*		%	37-109	100	12/03/18	kbc	12/05/18	avl	302, N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T082686											
Benzene		**3.3**	**ug/L**	**0.50**	**1**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
Toluene		**3.6**	**ug/L**	**0.50**	**1**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
Ethylbenzene		**9600**	**ug/L**	**50**	**100**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
m,p-Xylene		**31000**	**ug/L**	**100**	**100**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
o-Xylene		**2700**	**ug/L**	**50**	**100**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
Xylenes, total		**34000**	**ug/L**	**150**	**100**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
Surrogates:											
1,2-Dichloroethane-d4		105	%	68-133	1	12/04/18	was	12/04/18	was	N	
1,2-Dichloroethane-d4		110	%	68-133	100	12/04/18	was	12/04/18	was	N	
Toluene-d8		86	%	75-120	1	12/04/18	was	12/04/18	was	N	
Toluene-d8		107	%	75-120	100	12/04/18	was	12/04/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-32 | Date Collected: 11/26/18 14:30 | Matrix: Ground Water
Sample ID: TMW-03(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082623										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/03/18	kbc	12/04/18	avl	N	
Surrogates:										
Nitrobenzene-d5	74	%	36-103	1	12/03/18	kbc	12/04/18	avl	N	
2-Fluorobiphenyl	68	%	36-119	1	12/03/18	kbc	12/04/18	avl	N	
Terphenyl-d14	57	%	37-109	1	12/03/18	kbc	12/04/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-33 | Date Collected: 11/26/18 14:40 | Matrix: Ground Water
Sample ID: DUP-03 | Date Received: 11/29/18 08:30

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T082623											
Bis(2-ethylhexyl)phthalate		**5900**	**ug/L**	**94**	**100**	**12/03/18**	**kbc**	**12/05/18**	**avl**	**N**	
Surrogates:											
Nitrobenzene-d5	*		%	36-103	100	12/03/18	kbc	12/05/18	avl	302, N	
2-Fluorobiphenyl	*		%	36-119	100	12/03/18	kbc	12/05/18	avl	302, N	
Terphenyl-d14	*		%	37-109	100	12/03/18	kbc	12/05/18	avl	302, N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T082686											
Benzene		**3.4**	**ug/L**	**0.50**	**1**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
Toluene		**3.8**	**ug/L**	**0.50**	**1**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
Ethylbenzene		**10000**	**ug/L**	**50**	**100**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
m,p-Xylene		**36000**	**ug/L**	**100**	**100**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
o-Xylene		**2700**	**ug/L**	**50**	**100**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
Xylenes, total		**39000**	**ug/L**	**150**	**100**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
Surrogates:											
1,2-Dichloroethane-d4		103	%	68-133	1	12/04/18	was	12/04/18	was	N	
1,2-Dichloroethane-d4		110	%	68-133	100	12/05/18	was	12/05/18	was	N	
Toluene-d8		85	%	75-120	1	12/04/18	was	12/04/18	was	N	
Toluene-d8		105	%	75-120	100	12/05/18	was	12/05/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-34 | Date Collected: 11/26/18 14:40 | Matrix: Ground Water
Sample ID: DUP-03(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082623										
Bis(2-ethylhexyl)phthalate	**14**	**ug/L**	**0.95**	**1**	**12/03/18**	**kbc**	**12/04/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	70	%	36-103	1	12/03/18	kbc	12/04/18	avl	N	
2-Fluorobiphenyl	58	%	36-119	1	12/03/18	kbc	12/04/18	avl	N	
Terphenyl-d14	60	%	37-109	1	12/03/18	kbc	12/04/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-35 | Date Collected: 11/26/18 16:00 | Matrix: Ground Water
Sample ID: DUP-02 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082623										
Bis(2-ethylhexyl)phthalate	<0.96	ug/L	0.96	1	12/03/18	kbc	12/04/18	avl	N	
Surrogates:										
Nitrobenzene-d5	67	%	36-103	1	12/03/18	kbc	12/04/18	avl	N	
2-Fluorobiphenyl	58	%	36-119	1	12/03/18	kbc	12/04/18	avl	N	
Terphenyl-d14	66	%	37-109	1	12/03/18	kbc	12/04/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082698										
Benzene	<0.50	ug/L	0.50	1	12/04/18	was	12/05/18	was	N	
Toluene	<0.50	ug/L	0.50	1	12/04/18	was	12/05/18	was	N	
Ethylbenzene	**1.4**	**ug/L**	**0.50**	**1**	**12/04/18**	**was**	**12/05/18**	**was**	**N**	
m,p-Xylene	**3.0**	**ug/L**	**1.0**	**1**	**12/04/18**	**was**	**12/05/18**	**was**	**N**	
o-Xylene	**0.52**	**ug/L**	**0.50**	**1**	**12/04/18**	**was**	**12/05/18**	**was**	**N**	
Xylenes, total	**3.6**	**ug/L**	**1.5**	**1**	**12/04/18**	**was**	**12/05/18**	**was**	**N**	
Surrogates:										
1,2-Dichloroethane-d4	112	%	68-133	1	12/04/18	was	12/05/18	was	N	
Toluene-d8	102	%	75-120	1	12/04/18	was	12/05/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-36 | Date Collected: 11/26/18 16:00 | Matrix: Ground Water
Sample ID: DUP-02(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082623										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/03/18	kbc	12/04/18	avl	N	
Surrogates:										
Nitrobenzene-d5	78	%	36-103	1	12/03/18	kbc	12/04/18	avl	N	
2-Fluorobiphenyl	73	%	36-119	1	12/03/18	kbc	12/04/18	avl	N	
Terphenyl-d14	70	%	37-109	1	12/03/18	kbc	12/04/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-37 | Date Collected: 11/27/18 10:25 | Matrix: Ground Water
Sample ID: TMW-04 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	**310**	**ug/L**	**4.8**	**5**	**12/04/18**	**kbc**	**12/05/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	66	%	36-103	5	12/04/18	kbc	12/05/18	avl	N	
2-Fluorobiphenyl	69	%	36-119	5	12/04/18	kbc	12/05/18	avl	N	
Terphenyl-d14	58	%	37-109	5	12/04/18	kbc	12/05/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082686										
Benzene	**3.0**	**ug/L**	**0.50**	**1**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
Toluene	<0.50	ug/L	0.50	1	12/04/18	was	12/04/18	was	N	
Ethylbenzene	**7900**	**ug/L**	**50**	**100**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
m,p-Xylene	**27000**	**ug/L**	**100**	**100**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
o-Xylene	**460**	**ug/L**	**50**	**100**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
Xylenes, total	**28000**	**ug/L**	**150**	**100**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
Surrogates:										
1,2-Dichloroethane-d4	105	%	68-133	1	12/04/18	was	12/04/18	was	N	
1,2-Dichloroethane-d4	110	%	68-133	100	12/05/18	was	12/05/18	was	N	
Toluene-d8	91	%	75-120	1	12/04/18	was	12/04/18	was	N	
Toluene-d8	106	%	75-120	100	12/05/18	was	12/05/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-38 | Date Collected: 11/27/18 10:25 | Matrix: Ground Water
Sample ID: TMW-04(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	**57**	**ug/L**	**0.95**	**1**	**12/04/18**	**kbc**	**12/05/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	75	%	36-103	1	12/04/18	kbc	12/05/18	avl	N	
2-Fluorobiphenyl	73	%	36-119	1	12/04/18	kbc	12/05/18	avl	N	
Terphenyl-d14	59	%	37-109	1	12/04/18	kbc	12/05/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-39 | Date Collected: 11/27/18 10:26 | Matrix: Ground Water
Sample ID: MW-35S | Date Received: 11/29/18 08:30

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T082660											
Bis(2-ethylhexyl)phthalate		**4500**	**ug/L**	**94**	**100**	**12/04/18**	**kbc**	**12/06/18**	**avl**	**B, N**	
Surrogates:											
Nitrobenzene-d5	*		%	36-103	100	12/04/18	kbc	12/06/18	avl	302, N	
2-Fluorobiphenyl	*		%	36-119	100	12/04/18	kbc	12/06/18	avl	302, N	
Terphenyl-d14	*		%	37-109	100	12/04/18	kbc	12/06/18	avl	302, N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T082686											
Benzene		**0.93**	**ug/L**	**0.50**	**1**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
Toluene		**0.62**	**ug/L**	**0.50**	**1**	**12/04/18**	**was**	**12/04/18**	**was**	**N**	
Ethylbenzene		**4400**	**ug/L**	**50**	**100**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
m,p-Xylene		**16000**	**ug/L**	**100**	**100**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
o-Xylene		**3000**	**ug/L**	**50**	**100**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
Xylenes, total		**19000**	**ug/L**	**150**	**100**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
Surrogates:											
1,2-Dichloroethane-d4		109	%	68-133	1	12/04/18	was	12/04/18	was	N	
1,2-Dichloroethane-d4		112	%	68-133	100	12/05/18	was	12/05/18	was	N	
Toluene-d8		89	%	75-120	1	12/04/18	was	12/04/18	was	N	
Toluene-d8		105	%	75-120	100	12/05/18	was	12/05/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-40 | Date Collected: 11/27/18 10:26 | Matrix: Ground Water
Sample ID: MW-35S(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	**520**	**ug/L**	**9.4**	**10**	**12/04/18**	**kbc**	**12/06/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	64	%	36-103	10	12/04/18	kbc	12/06/18	avl	N	
2-Fluorobiphenyl	69	%	36-119	10	12/04/18	kbc	12/06/18	avl	N	
Terphenyl-d14	59	%	37-109	10	12/04/18	kbc	12/06/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-41 | Date Collected: 11/27/18 12:10 | Matrix: Ground Water
Sample ID: TMW-05 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	**28**	**ug/L**	**0.95**	**1**	**12/04/18**	**kbc**	**12/05/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	73	%	36-103	1	12/04/18	kbc	12/05/18	avl	N	
2-Fluorobiphenyl	66	%	36-119	1	12/04/18	kbc	12/05/18	avl	N	
Terphenyl-d14	59	%	37-109	1	12/04/18	kbc	12/05/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082686										
Benzene	<0.50	ug/L	0.50	1	12/04/18	was	12/04/18	was	N	
Toluene	<0.50	ug/L	0.50	1	12/04/18	was	12/04/18	was	N	
Ethylbenzene	**250**	**ug/L**	**25**	**50**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
m,p-Xylene	**1100**	**ug/L**	**50**	**50**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
o-Xylene	**240**	**ug/L**	**25**	**50**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
Xylenes, total	**1300**	**ug/L**	**75**	**50**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
Surrogates:										
1,2-Dichloroethane-d4	109	%	68-133	1	12/04/18	was	12/04/18	was	N	
1,2-Dichloroethane-d4	110	%	68-133	50	12/05/18	was	12/05/18	was	N	
Toluene-d8	106	%	75-120	1	12/04/18	was	12/04/18	was	N	
Toluene-d8	106	%	75-120	50	12/05/18	was	12/05/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-42 | Date Collected: 11/27/18 12:10 | Matrix: Ground Water
Sample ID: TMW-05(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/04/18	kbc	12/05/18	avl	N	
Surrogates:										
Nitrobenzene-d5	62	%	36-103	1	12/04/18	kbc	12/05/18	avl	N	
2-Fluorobiphenyl	62	%	36-119	1	12/04/18	kbc	12/05/18	avl	N	
Terphenyl-d14	50	%	37-109	1	12/04/18	kbc	12/05/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-43 | Date Collected: 11/27/18 13:50 | Matrix: Ground Water
Sample ID: TMW-08 | Date Received: 11/29/18 08:30

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T082660											
Bis(2-ethylhexyl)phthalate		**520**	**ug/L**	**9.5**	**10**	**12/04/18**	**kbc**	**12/06/18**	**avl**	**B, N**	
Surrogates:											
Nitrobenzene-d5	*		%	36-103	10	12/04/18	kbc	12/06/18	avl	302, N	
2-Fluorobiphenyl		57	%	36-119	10	12/04/18	kbc	12/06/18	avl	N	
Terphenyl-d14		53	%	37-109	10	12/04/18	kbc	12/06/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T082698											
Benzene		<0.50	ug/L	0.50	1	12/05/18	was	12/05/18	was	N	
Toluene		**2.0**	**ug/L**	**0.50**	**1**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
Ethylbenzene		**1700**	**ug/L**	**50**	**100**	**12/06/18**	**was**	**12/06/18**	**was**	**N**	
m,p-Xylene		**5000**	**ug/L**	**100**	**100**	**12/06/18**	**was**	**12/06/18**	**was**	**N**	
o-Xylene		**1100**	**ug/L**	**50**	**100**	**12/06/18**	**was**	**12/06/18**	**was**	**N**	
Xylenes, total		**6100**	**ug/L**	**150**	**100**	**12/06/18**	**was**	**12/06/18**	**was**	**N**	
Surrogates:											
1,2-Dichloroethane-d4		107	%	68-133	1	12/05/18	was	12/05/18	was	N	
1,2-Dichloroethane-d4		111	%	68-133	100	12/06/18	was	12/06/18	was	N	
Toluene-d8		106	%	75-120	1	12/05/18	was	12/05/18	was	N	
Toluene-d8		106	%	75-120	100	12/06/18	was	12/06/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-44 | Date Collected: 11/27/18 13:50 | Matrix: Ground Water
Sample ID: TMW-08(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	**20**	**ug/L**	**0.95**	**1**	**12/04/18**	**kbc**	**12/05/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	56	%	36-103	1	12/04/18	kbc	12/05/18	avl	N	
2-Fluorobiphenyl	53	%	36-119	1	12/04/18	kbc	12/05/18	avl	N	
Terphenyl-d14	57	%	37-109	1	12/04/18	kbc	12/05/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-45 | Date Collected: 11/27/18 14:30 | Matrix: Ground Water
Sample ID: MW-32S | Date Received: 11/29/18 08:30

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T082660											
Bis(2-ethylhexyl)phthalate		**8700**	**ug/L**	**190**	**200**	**12/04/18**	**kbc**	**12/07/18**	**avl**	**B, N**	
Surrogates:											
Nitrobenzene-d5	*		%	36-103	200	12/04/18	kbc	12/07/18	avl	302, N	
2-Fluorobiphenyl	*		%	36-119	200	12/04/18	kbc	12/07/18	avl	302, N	
Terphenyl-d14	*		%	37-109	200	12/04/18	kbc	12/07/18	avl	302, N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T082698											
Benzene		**0.74**	**ug/L**	**0.50**	**1**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
Toluene		**4.6**	**ug/L**	**0.50**	**1**	**12/05/18**	**was**	**12/05/18**	**was**	**N**	
Ethylbenzene		**1100**	**ug/L**	**50**	**100**	**12/06/18**	**was**	**12/06/18**	**was**	**N**	
m,p-Xylene		**2200**	**ug/L**	**100**	**100**	**12/06/18**	**was**	**12/06/18**	**was**	**N**	
o-Xylene		**74**	**ug/L**	**50**	**100**	**12/06/18**	**was**	**12/06/18**	**was**	**N**	
Xylenes, total		**2300**	**ug/L**	**150**	**100**	**12/06/18**	**was**	**12/06/18**	**was**	**N**	
Surrogates:											
1,2-Dichloroethane-d4		109	%	68-133	1	12/05/18	was	12/05/18	was	N	
1,2-Dichloroethane-d4		113	%	68-133	100	12/06/18	was	12/06/18	was	N	
Toluene-d8		109	%	75-120	1	12/05/18	was	12/05/18	was	N	
Toluene-d8		104	%	75-120	100	12/06/18	was	12/06/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-46 | Date Collected: 11/27/18 14:30 | Matrix: Ground Water
Sample ID: MW-32S(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/04/18	kbc	12/05/18	avl	N	
Surrogates:										
Nitrobenzene-d5	45	%	36-103	1	12/04/18	kbc	12/05/18	avl	N	
2-Fluorobiphenyl	39	%	36-119	1	12/04/18	kbc	12/05/18	avl	N	
Terphenyl-d14	41	%	37-109	1	12/04/18	kbc	12/05/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-47 | Date Collected: 11/27/18 10:10 | Matrix: Ground Water
Sample ID: MW-27S | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	**1.1**	**ug/L**	**0.96**	**1**	**12/04/18**	**kbc**	**12/05/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	62	%	36-103	1	12/04/18	kbc	12/05/18	avl	N	
2-Fluorobiphenyl	61	%	36-119	1	12/04/18	kbc	12/05/18	avl	N	
Terphenyl-d14	54	%	37-109	1	12/04/18	kbc	12/05/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082979										
Benzene	<0.50	ug/L	0.50	1	12/06/18	was	12/06/18	was	N	
Toluene	<0.50	ug/L	0.50	1	12/06/18	was	12/06/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	12/06/18	was	12/06/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	12/06/18	was	12/06/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	12/06/18	was	12/06/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	12/06/18	was	12/06/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	117	%	68-133	1	12/06/18	was	12/06/18	was	N	
Toluene-d8	95	%	75-120	1	12/06/18	was	12/06/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-48 | Date Collected: 11/27/18 10:10 | Matrix: Ground Water
Sample ID: MW-27S(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	**1.0**	**ug/L**	**0.95**	**1**	**12/04/18**	**kbc**	**12/05/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	52	%	36-103	1	12/04/18	kbc	12/05/18	avl	N	
2-Fluorobiphenyl	54	%	36-119	1	12/04/18	kbc	12/05/18	avl	N	
Terphenyl-d14	55	%	37-109	1	12/04/18	kbc	12/05/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-49 | Date Collected: 11/27/18 10:30 | Matrix: Aqueous
Sample ID: ATM-01 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8270D									
Batch: T082660									
Bis(2-ethylhexyl)phthalate	**1.0 ug/L**	**0.96**	**1**	**12/04/18**	**kbc**	**12/05/18**	**avl**	**B, N**	
Surrogates:									
Nitrobenzene-d5	53 %	36-103	1	12/04/18	kbc	12/05/18	avl	N	
2-Fluorobiphenyl	50 %	36-119	1	12/04/18	kbc	12/05/18	avl	N	
Terphenyl-d14	47 %	37-109	1	12/04/18	kbc	12/05/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8260C									
Batch: T082698									
Benzene	<0.50 ug/L	0.50	1	12/05/18	was	12/05/18	was	N	
Toluene	<0.50 ug/L	0.50	1	12/05/18	was	12/05/18	was	N	
Ethylbenzene	<0.50 ug/L	0.50	1	12/05/18	was	12/05/18	was	N	
m,p-Xylene	<1.0 ug/L	1.0	1	12/05/18	was	12/05/18	was	N	
o-Xylene	<0.50 ug/L	0.50	1	12/05/18	was	12/05/18	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	12/05/18	was	12/05/18	was	N	
Surrogates:									
1,2-Dichloroethane-d4	114 %	68-133	1	12/05/18	was	12/05/18	was	N	
Toluene-d8	104 %	75-120	1	12/05/18	was	12/05/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-50 | Date Collected: 11/27/18 10:30 | Matrix: Aqueous
Sample ID: ATM-01(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	<0.96	ug/L	0.96	1	12/04/18	kbc	12/05/18	avl	N	
Surrogates:										
Nitrobenzene-d5	56	%	36-103	1	12/04/18	kbc	12/05/18	avl	N	
2-Fluorobiphenyl	56	%	36-119	1	12/04/18	kbc	12/05/18	avl	N	
Terphenyl-d14	49	%	37-109	1	12/04/18	kbc	12/05/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-51 | Date Collected: 11/27/18 11:40 | Matrix: Ground Water
Sample ID: PW-D-3 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	**0.36**	**ug/L**	**0.48**	**1**	**12/04/18**	**kbc**	**12/05/18**	**avl**	**J, B, N**	
Surrogates:										
Nitrobenzene-d5	75	%	36-103	1	12/04/18	kbc	12/05/18	avl	N	
2-Fluorobiphenyl	76	%	36-119	1	12/04/18	kbc	12/05/18	avl	N	
Terphenyl-d14	60	%	37-109	1	12/04/18	kbc	12/05/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-52 | Date Collected: 11/27/18 11:40 | Matrix: Ground Water
Sample ID: PW-D-3(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	**0.45**	**ug/L**	**0.48**	**1**	**12/04/18**	**kbc**	**12/05/18**	**avl**	**J, B, N**	
Surrogates:										
Nitrobenzene-d5	74	%	36-103	1	12/04/18	kbc	12/05/18	avl	N	
2-Fluorobiphenyl	70	%	36-119	1	12/04/18	kbc	12/05/18	avl	N	
Terphenyl-d14	57	%	37-109	1	12/04/18	kbc	12/05/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-53 | Date Collected: 11/27/18 13:40 | Matrix: Ground Water
Sample ID: PW-D-4 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	**0.78**	**ug/L**	**0.48**	**1**	**12/04/18**	**kbc**	**12/05/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	66	%	36-103	1	12/04/18	kbc	12/05/18	avl	N	
2-Fluorobiphenyl	64	%	36-119	1	12/04/18	kbc	12/05/18	avl	N	
Terphenyl-d14	53	%	37-109	1	12/04/18	kbc	12/05/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-54 | Date Collected: 11/27/18 13:40 | Matrix: Ground Water
Sample ID: PW-D-4(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	**0.46**	**ug/L**	**0.49**	**1**	**12/04/18**	**kbc**	**12/05/18**	**avl**	**J, B, N**	
Surrogates:										
Nitrobenzene-d5	60	%	36-103	1	12/04/18	kbc	12/05/18	avl	N	
2-Fluorobiphenyl	56	%	36-119	1	12/04/18	kbc	12/05/18	avl	N	
Terphenyl-d14	59	%	37-109	1	12/04/18	kbc	12/05/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-55 | Date Collected: 11/27/18 14:20 | Matrix: Ground Water
Sample ID: PW-D-1 | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	**2.0**	**ug/L**	**0.48**	**1**	**12/04/18**	**kbc**	**12/06/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	70	%	36-103	1	12/04/18	kbc	12/06/18	avl	N	
2-Fluorobiphenyl	67	%	36-119	1	12/04/18	kbc	12/06/18	avl	N	
Terphenyl-d14	63	%	37-109	1	12/04/18	kbc	12/06/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-56 | Date Collected: 11/27/18 14:20 | Matrix: Ground Water
Sample ID: PW-D-1(F) | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082660										
Bis(2-ethylhexyl)phthalate	**0.91**	**ug/L**	**0.47**	**1**	**12/04/18**	**kbc**	**12/06/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	75	%	36-103	1	12/04/18	kbc	12/06/18	avl	N	
2-Fluorobiphenyl	66	%	36-119	1	12/04/18	kbc	12/06/18	avl	N	
Terphenyl-d14	68	%	37-109	1	12/04/18	kbc	12/06/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-57 | Date Collected: 11/27/18 | Matrix: Aqueous
Sample ID: Trip Blank | Date Received: 11/29/18 08:30

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082698										
Benzene	<0.50	ug/L	0.50	1	12/05/18	was	12/05/18	was	N	
Toluene	<0.50	ug/L	0.50	1	12/05/18	was	12/05/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	12/05/18	was	12/05/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	12/05/18	was	12/05/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	12/05/18	was	12/05/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	12/05/18	was	12/05/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	113	%	68-133	1	12/05/18	was	12/05/18	was	N	
Toluene-d8	106	%	75-120	1	12/05/18	was	12/05/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-58 | Date Collected: 11/28/18 09:50 | Matrix: Ground Water
Sample ID: TMW-06 | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	**16**	**ug/L**	**0.95**	**1**	**12/05/18**	**kbc**	**12/06/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	68	%	36-103	1	12/05/18	kbc	12/06/18	avl	N	
2-Fluorobiphenyl	67	%	36-119	1	12/05/18	kbc	12/06/18	avl	N	
Terphenyl-d14	61	%	37-109	1	12/05/18	kbc	12/06/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082698										
Benzene	<0.50	ug/L	0.50	1	12/05/18	was	12/05/18	was	N	
Toluene	<0.50	ug/L	0.50	1	12/05/18	was	12/05/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	12/05/18	was	12/05/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	12/05/18	was	12/05/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	12/05/18	was	12/05/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	12/05/18	was	12/05/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	114	%	68-133	1	12/05/18	was	12/05/18	was	N	
Toluene-d8	106	%	75-120	1	12/05/18	was	12/05/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-59 | Date Collected: 11/28/18 09:50 | Matrix: Ground Water
Sample ID: TMW-06(F) | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/05/18	kbc	12/06/18	avl	N	
Surrogates:										
Nitrobenzene-d5	70	%	36-103	1	12/05/18	kbc	12/06/18	avl	N	
2-Fluorobiphenyl	69	%	36-119	1	12/05/18	kbc	12/06/18	avl	N	
Terphenyl-d14	62	%	37-109	1	12/05/18	kbc	12/06/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-60 | Date Collected: 11/28/18 11:00 | Matrix: Ground Water
Sample ID: TMW-07 | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	**12**	**ug/L**	**0.95**	**1**	**12/05/18**	**kbc**	**12/06/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	64	%	36-103	1	12/05/18	kbc	12/06/18	avl	N	
2-Fluorobiphenyl	61	%	36-119	1	12/05/18	kbc	12/06/18	avl	N	
Terphenyl-d14	65	%	37-109	1	12/05/18	kbc	12/06/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082979										
Benzene	<0.50	ug/L	0.50	1	12/06/18	was	12/06/18	was	N	
Toluene	<0.50	ug/L	0.50	1	12/06/18	was	12/06/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	12/06/18	was	12/06/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	12/06/18	was	12/06/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	12/06/18	was	12/06/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	12/06/18	was	12/06/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	113	%	68-133	1	12/06/18	was	12/06/18	was	N	
Toluene-d8	104	%	75-120	1	12/06/18	was	12/06/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-61 | Date Collected: 11/28/18 11:00 | Matrix: Ground Water
Sample ID: TMW-07(F) | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/05/18	kbc	12/06/18	avl	N	
Surrogates:										
Nitrobenzene-d5	70	%	36-103	1	12/05/18	kbc	12/06/18	avl	N	
2-Fluorobiphenyl	68	%	36-119	1	12/05/18	kbc	12/06/18	avl	N	
Terphenyl-d14	64	%	37-109	1	12/05/18	kbc	12/06/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-62 | Date Collected: 11/28/18 12:10 | Matrix: Ground Water
Sample ID: MW-31S | Date Received: 11/30/18 11:00

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T082691											
Bis(2-ethylhexyl)phthalate		**3800**	**ug/L**	**95**	**100**	**12/05/18**	**kbc**	**12/06/18**	**avl**	**N**	
Surrogates:											
Nitrobenzene-d5	*		%	36-103	100	12/05/18	kbc	12/06/18	avl	302, N	
2-Fluorobiphenyl	*		%	36-119	100	12/05/18	kbc	12/06/18	avl	302, N	
Terphenyl-d14	*		%	37-109	100	12/05/18	kbc	12/06/18	avl	302, N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T082979											
Benzene		**1.8**	**ug/L**	**0.50**	**1**	**12/06/18**	**was**	**12/06/18**	**was**	**N**	
Toluene		**5.7**	**ug/L**	**0.50**	**1**	**12/06/18**	**was**	**12/06/18**	**was**	**N**	
Ethylbenzene		**4500**	**ug/L**	**50**	**100**	**12/06/18**	**was**	**12/11/18**	**was**	**N**	
m,p-Xylene		**19000**	**ug/L**	**100**	**100**	**12/06/18**	**was**	**12/11/18**	**was**	**N**	
o-Xylene		**4800**	**ug/L**	**50**	**100**	**12/06/18**	**was**	**12/11/18**	**was**	**N**	
Xylenes, total		**24000**	**ug/L**	**150**	**100**	**12/06/18**	**was**	**12/11/18**	**was**	**N**	
Surrogates:											
1,2-Dichloroethane-d4		108	%	68-133	1	12/06/18	was	12/06/18	was	N	
1,2-Dichloroethane-d4		73	%	68-133	100	12/06/18	was	12/11/18	was	N	
Toluene-d8		86	%	75-120	1	12/06/18	was	12/06/18	was	N	
Toluene-d8		95	%	75-120	100	12/06/18	was	12/11/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-63 | Date Collected: 11/28/18 12:10 | Matrix: Ground Water
Sample ID: MW-31S(F) | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	**1.3**	**ug/L**	**0.94**	**1**	**12/05/18**	**kbc**	**12/06/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	72	%	36-103	1	12/05/18	kbc	12/06/18	avl	N	
2-Fluorobiphenyl	67	%	36-119	1	12/05/18	kbc	12/06/18	avl	N	
Terphenyl-d14	70	%	37-109	1	12/05/18	kbc	12/06/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-64 | Date Collected: 11/28/18 12:30 | Matrix: Ground Water
Sample ID: TMW-10 | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	**3.2**	**ug/L**	**0.95**	**1**	**12/05/18**	**kbc**	**12/06/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	58	%	36-103	1	12/05/18	kbc	12/06/18	avl	N	
2-Fluorobiphenyl	56	%	36-119	1	12/05/18	kbc	12/06/18	avl	N	
Terphenyl-d14	62	%	37-109	1	12/05/18	kbc	12/06/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082751										
Benzene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Toluene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	12/06/18	was	12/11/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	12/06/18	was	12/11/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	74	%	68-133	1	12/06/18	was	12/11/18	was	N	
Toluene-d8	95	%	75-120	1	12/06/18	was	12/11/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-65 | Date Collected: 11/28/18 12:30 | Matrix: Ground Water
Sample ID: TMW-10(F) | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	<0.94	ug/L	0.94	1	12/05/18	kbc	12/06/18	avl	N	
Surrogates:										
Nitrobenzene-d5	61	%	36-103	1	12/05/18	kbc	12/06/18	avl	N	
2-Fluorobiphenyl	61	%	36-119	1	12/05/18	kbc	12/06/18	avl	N	
Terphenyl-d14	57	%	37-109	1	12/05/18	kbc	12/06/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-66 | Date Collected: 11/28/18 12:40 | Matrix: Ground Water
Sample ID: DUP-04 | Date Received: 11/30/18 11:00

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T082691											
Bis(2-ethylhexyl)phthalate		**1400**	**ug/L**	**95**	**100**	**12/05/18**	**kbc**	**12/06/18**	**avl**	**N**	
Surrogates:											
Nitrobenzene-d5	*		%	36-103	100	12/05/18	kbc	12/06/18	avl	302, N	
2-Fluorobiphenyl	*		%	36-119	100	12/05/18	kbc	12/06/18	avl	302, N	
Terphenyl-d14	*		%	37-109	100	12/05/18	kbc	12/06/18	avl	302, N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T082979											
Benzene		**1.6**	**ug/L**	**0.50**	**1**	**12/06/18**	**was**	**12/06/18**	**was**	**N**	
Toluene		**5.1**	**ug/L**	**0.50**	**1**	**12/06/18**	**was**	**12/06/18**	**was**	**N**	
Ethylbenzene		**4100**	**ug/L**	**50**	**100**	**12/06/18**	**was**	**12/11/18**	**was**	**N**	
m,p-Xylene		**18000**	**ug/L**	**100**	**100**	**12/06/18**	**was**	**12/11/18**	**was**	**N**	
o-Xylene		**4400**	**ug/L**	**50**	**100**	**12/06/18**	**was**	**12/11/18**	**was**	**N**	
Xylenes, total		**22000**	**ug/L**	**150**	**100**	**12/06/18**	**was**	**12/11/18**	**was**	**N**	
Surrogates:											
1,2-Dichloroethane-d4		103	%	68-133	1	12/06/18	was	12/06/18	was	N	
1,2-Dichloroethane-d4		73	%	68-133	100	12/06/18	was	12/11/18	was	N	
Toluene-d8		81	%	75-120	1	12/06/18	was	12/06/18	was	N	
Toluene-d8		93	%	75-120	100	12/06/18	was	12/11/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-67 | Date Collected: 11/28/18 12:40 | Matrix: Ground Water
Sample ID: DUP-04(F) | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	**2.4**	**ug/L**	**0.95**	**1**	**12/05/18**	**kbc**	**12/06/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	75	%	36-103	1	12/05/18	kbc	12/06/18	avl	N	
2-Fluorobiphenyl	66	%	36-119	1	12/05/18	kbc	12/06/18	avl	N	
Terphenyl-d14	73	%	37-109	1	12/05/18	kbc	12/06/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-68 | Date Collected: 11/28/18 14:48 | Matrix: Ground Water
Sample ID: MW-33S | Date Received: 11/30/18 11:00

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T082691											
Bis(2-ethylhexyl)phthalate		**30**	**ug/L**	**4.8**	**5**	**12/05/18**	**kbc**	**12/06/18**	**avl**	**N**	
Surrogates:											
Nitrobenzene-d5		36	%	36-103	5	12/05/18	kbc	12/06/18	avl	N	
2-Fluorobiphenyl		39	%	36-119	5	12/05/18	kbc	12/06/18	avl	N	
Terphenyl-d14	*	**35**	%	37-109	5	12/05/18	kbc	12/06/18	avl	802, N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T082751											
Benzene		<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Toluene		<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Ethylbenzene		**15**	**ug/L**	**0.50**	**1**	**12/06/18**	**was**	**12/11/18**	**was**	**N**	
m,p-Xylene		**65**	**ug/L**	**1.0**	**1**	**12/06/18**	**was**	**12/11/18**	**was**	**N**	
o-Xylene		**20**	**ug/L**	**0.50**	**1**	**12/06/18**	**was**	**12/11/18**	**was**	**N**	
Xylenes, total		**85**	**ug/L**	**1.5**	**1**	**12/06/18**	**was**	**12/11/18**	**was**	**N**	
Surrogates:											
1,2-Dichloroethane-d4		75	%	68-133	1	12/06/18	was	12/11/18	was	N	
Toluene-d8		95	%	75-120	1	12/06/18	was	12/11/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-69 | Date Collected: 11/28/18 14:48 | Matrix: Ground Water
Sample ID: MW-33S(F) | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	**1.4**	**ug/L**	**0.95**	**1**	**12/05/18**	**kbc**	**12/06/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	68	%	36-103	1	12/05/18	kbc	12/06/18	avl	N	
2-Fluorobiphenyl	59	%	36-119	1	12/05/18	kbc	12/06/18	avl	N	
Terphenyl-d14	59	%	37-109	1	12/05/18	kbc	12/06/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-70 | Date Collected: 11/28/18 | Matrix: Aqueous
Sample ID: Trip Blank | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082751										
Benzene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Toluene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	12/06/18	was	12/11/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	12/06/18	was	12/11/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	74	%	68-133	1	12/06/18	was	12/11/18	was	N	
Toluene-d8	94	%	75-120	1	12/06/18	was	12/11/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-71 | Date Collected: 11/28/18 10:30 | Matrix: Ground Water
Sample ID: PW-RR-TJ-MC | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	12/05/18	kbc	12/06/18	avl	N	
Surrogates:										
Nitrobenzene-d5	63	%	36-103	1	12/05/18	kbc	12/06/18	avl	N	
2-Fluorobiphenyl	64	%	36-119	1	12/05/18	kbc	12/06/18	avl	N	
Terphenyl-d14	64	%	37-109	1	12/05/18	kbc	12/06/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-72 | Date Collected: 11/28/18 10:30 | Matrix: Ground Water
Sample ID: PW-RR-TJ-MC(F) | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	**0.72**	**ug/L**	**0.48**	**1**	**12/05/18**	**kbc**	**12/07/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	74	%	36-103	1	12/05/18	kbc	12/07/18	avl	N	
2-Fluorobiphenyl	70	%	36-119	1	12/05/18	kbc	12/07/18	avl	N	
Terphenyl-d14	67	%	37-109	1	12/05/18	kbc	12/07/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-73 | Date Collected: 11/28/18 10:40 | Matrix: Ground Water
Sample ID: DUP-05 | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	**0.28**	**ug/L**	**0.47**	**1**	**12/05/18**	**kbc**	**12/07/18**	**avl**	**J, N**	
Surrogates:										
Nitrobenzene-d5	59	%	36-103	1	12/05/18	kbc	12/07/18	avl	N	
2-Fluorobiphenyl	51	%	36-119	1	12/05/18	kbc	12/07/18	avl	N	
Terphenyl-d14	47	%	37-109	1	12/05/18	kbc	12/07/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-74 | Date Collected: 11/28/18 10:40 | Matrix: Ground Water
Sample ID: DUP-05(F) | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	**0.96**	**ug/L**	**0.48**	**1**	**12/05/18**	**kbc**	**12/07/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	68	%	36-103	1	12/05/18	kbc	12/07/18	avl	N	
2-Fluorobiphenyl	59	%	36-119	1	12/05/18	kbc	12/07/18	avl	N	
Terphenyl-d14	50	%	37-109	1	12/05/18	kbc	12/07/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-75 | Date Collected: 11/28/18 11:30 | Matrix: Ground Water
Sample ID: PW-RR-TJ-LB | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	**0.48**	**ug/L**	**0.48**	**1**	**12/05/18**	**kbc**	**12/07/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	51	%	36-103	1	12/05/18	kbc	12/07/18	avl	N	
2-Fluorobiphenyl	47	%	36-119	1	12/05/18	kbc	12/07/18	avl	N	
Terphenyl-d14	39	%	37-109	1	12/05/18	kbc	12/07/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-76 | Date Collected: 11/28/18 11:30 | Matrix: Ground Water
Sample ID: PW-RR-TJ-LB(F) | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	<0.48	ug/L	0.48	1	12/05/18	kbc	12/07/18	avl	N	
Surrogates:										
Nitrobenzene-d5	64	%	36-103	1	12/05/18	kbc	12/07/18	avl	N	
2-Fluorobiphenyl	63	%	36-119	1	12/05/18	kbc	12/07/18	avl	N	
Terphenyl-d14	55	%	37-109	1	12/05/18	kbc	12/07/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-77 | Date Collected: 11/28/18 12:30 | Matrix: Ground Water
Sample ID: PW-RR-TI-LB-30 | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	**0.36**	**ug/L**	**0.47**	**1**	**12/05/18**	**kbc**	**12/07/18**	**avl**	**J, N**	
Surrogates:										
Nitrobenzene-d5	62	%	36-103	1	12/05/18	kbc	12/07/18	avl	N	
2-Fluorobiphenyl	60	%	36-119	1	12/05/18	kbc	12/07/18	avl	N	
Terphenyl-d14	50	%	37-109	1	12/05/18	kbc	12/07/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-78 | Date Collected: 11/28/18 12:30 | Matrix: Ground Water
Sample ID: PW-RR-TI-LB-30(F) | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082691										
Bis(2-ethylhexyl)phthalate	**0.63**	**ug/L**	**0.48**	**1**	**12/05/18**	**kbc**	**12/07/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	62	%	36-103	1	12/05/18	kbc	12/07/18	avl	N	
2-Fluorobiphenyl	61	%	36-119	1	12/05/18	kbc	12/07/18	avl	N	
Terphenyl-d14	52	%	37-109	1	12/05/18	kbc	12/07/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-79 | Date Collected: 11/28/18 14:30 | Matrix: Ground Water
Sample ID: PW-RR-TH-LB | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082692										
Bis(2-ethylhexyl)phthalate	**4.3**	**ug/L**	**0.48**	**1**	**12/05/18**	**kbc**	**12/07/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	54	%	36-103	1	12/05/18	kbc	12/07/18	avl	N	
2-Fluorobiphenyl	53	%	36-119	1	12/05/18	kbc	12/07/18	avl	N	
Terphenyl-d14	42	%	37-109	1	12/05/18	kbc	12/07/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-80 | Date Collected: 11/28/18 14:30 | Matrix: Ground Water
Sample ID: PW-RR-TH-LB(F) | Date Received: 11/30/18 11:00

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T082692											
Bis(2-ethylhexyl)phthalate		<0.48	ug/L	0.48	1	12/05/18	kbc	12/07/18	avl	N	
Surrogates:											
Nitrobenzene-d5		36	%	36-103	1	12/05/18	kbc	12/07/18	avl	N	
2-Fluorobiphenyl	*	**34**	%	36-119	1	12/05/18	kbc	12/07/18	avl	314, N	
Terphenyl-d14	*	**29**	%	37-109	1	12/05/18	kbc	12/07/18	avl	314, N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-81 | Date Collected: 11/28/18 09:00 | Matrix: Ground Water
Sample ID: PW-D-2 | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082692										
Bis(2-ethylhexyl)phthalate	**0.95**	**ug/L**	**0.47**	**1**	**12/05/18**	**kbc**	**12/07/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	61	%	36-103	1	12/05/18	kbc	12/07/18	avl	N	
2-Fluorobiphenyl	55	%	36-119	1	12/05/18	kbc	12/07/18	avl	N	
Terphenyl-d14	47	%	37-109	1	12/05/18	kbc	12/07/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-82 | Date Collected: 11/28/18 09:00 | Matrix: Ground Water
Sample ID: PW-D-2(F) | Date Received: 11/30/18 11:00

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082692										
Bis(2-ethylhexyl)phthalate	**0.53**	**ug/L**	**0.48**	**1**	**12/05/18**	**kbc**	**12/07/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	59	%	36-103	1	12/05/18	kbc	12/07/18	avl	N	
2-Fluorobiphenyl	57	%	36-119	1	12/05/18	kbc	12/07/18	avl	N	
Terphenyl-d14	43	%	37-109	1	12/05/18	kbc	12/07/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-83 | Date Collected: 11/29/18 09:50 | Matrix: Ground Water
Sample ID: MW-29S | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082723										
Bis(2-ethylhexyl)phthalate	**2.9**	**ug/L**	**0.94**	**1**	**12/06/18**	**kbc**	**12/07/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	65	%	36-103	1	12/06/18	kbc	12/07/18	avl	N	
2-Fluorobiphenyl	59	%	36-119	1	12/06/18	kbc	12/07/18	avl	N	
Terphenyl-d14	48	%	37-109	1	12/06/18	kbc	12/07/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-84 | Date Collected: 11/29/18 09:50 | Matrix: Ground Water
Sample ID: MW-29S(F) | Date Received: 12/03/18 12:20

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8270D											
Batch: T082723											
Bis(2-ethylhexyl)phthalate		<0.95	ug/L	0.95	1	12/06/18	kbc	12/07/18	avl	N	
Surrogates:											
Nitrobenzene-d5		37	%	36-103	1	12/06/18	kbc	12/07/18	avl	N	
2-Fluorobiphenyl		42	%	36-119	1	12/06/18	kbc	12/07/18	avl	N	
Terphenyl-d14	*	**34**	%	37-109	1	12/06/18	kbc	12/07/18	avl	802, N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-85 | Date Collected: 11/29/18 09:52 | Matrix: Ground Water
Sample ID: MW-25(R) | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082723										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/06/18	kbc	12/07/18	avl	N	
Surrogates:										
Nitrobenzene-d5	51	%	36-103	1	12/06/18	kbc	12/07/18	avl	N	
2-Fluorobiphenyl	47	%	36-119	1	12/06/18	kbc	12/07/18	avl	N	
Terphenyl-d14	50	%	37-109	1	12/06/18	kbc	12/07/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082751										
Benzene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Toluene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	12/06/18	was	12/11/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	12/06/18	was	12/11/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	74	%	68-133	1	12/06/18	was	12/11/18	was	N	
Toluene-d8	95	%	75-120	1	12/06/18	was	12/11/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-86 | Date Collected: 11/29/18 09:52 | Matrix: Ground Water
Sample ID: MW-25(R)(F) | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082723										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/06/18	kbc	12/07/18	avl	N	
Surrogates:										
Nitrobenzene-d5	48	%	36-103	1	12/06/18	kbc	12/07/18	avl	N	
2-Fluorobiphenyl	43	%	36-119	1	12/06/18	kbc	12/07/18	avl	N	
Terphenyl-d14	42	%	37-109	1	12/06/18	kbc	12/07/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-87 | Date Collected: 11/29/18 10:45 | Matrix: Ground Water
Sample ID: MW-30D | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082723										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/06/18	kbc	12/10/18	avl	N	
Surrogates:										
Nitrobenzene-d5	57	%	36-103	1	12/06/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	57	%	36-119	1	12/06/18	kbc	12/10/18	avl	N	
Terphenyl-d14	53	%	37-109	1	12/06/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-88 | Date Collected: 11/29/18 10:45 | Matrix: Ground Water
Sample ID: MW-30D(F) | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082723										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/06/18	kbc	12/10/18	avl	N	
Surrogates:										
Nitrobenzene-d5	78	%	36-103	1	12/06/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	70	%	36-119	1	12/06/18	kbc	12/10/18	avl	N	
Terphenyl-d14	65	%	37-109	1	12/06/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-89 | Date Collected: 11/29/18 11:25 | Matrix: Ground Water
Sample ID: MW-30I | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082723										
Bis(2-ethylhexyl)phthalate	**0.98**	**ug/L**	**0.95**	**1**	**12/06/18**	**kbc**	**12/10/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	60	%	36-103	1	12/06/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	52	%	36-119	1	12/06/18	kbc	12/10/18	avl	N	
Terphenyl-d14	59	%	37-109	1	12/06/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-90 | Date Collected: 11/29/18 11:25 | Matrix: Ground Water
Sample ID: MW-30I(F) | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082723										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/06/18	kbc	12/10/18	avl	N	
Surrogates:										
Nitrobenzene-d5	69	%	36-103	1	12/06/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	69	%	36-119	1	12/06/18	kbc	12/10/18	avl	N	
Terphenyl-d14	61	%	37-109	1	12/06/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-91 | Date Collected: 11/29/18 13:10 | Matrix: Ground Water
Sample ID: MW-30S(R) | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082723										
Bis(2-ethylhexyl)phthalate	**2.0**	**ug/L**	**0.95**	**1**	**12/06/18**	**kbc**	**12/10/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	55	%	36-103	1	12/06/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	56	%	36-119	1	12/06/18	kbc	12/10/18	avl	N	
Terphenyl-d14	45	%	37-109	1	12/06/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-92 | Date Collected: 11/29/18 13:10 | Matrix: Ground Water
Sample ID: MW-30S(R)(F) | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082723										
Bis(2-ethylhexyl)phthalate	**3.4**	**ug/L**	**0.94**	**1**	**12/06/18**	**kbc**	**12/10/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	77	%	36-103	1	12/06/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	71	%	36-119	1	12/06/18	kbc	12/10/18	avl	N	
Terphenyl-d14	66	%	37-109	1	12/06/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-93 | Date Collected: 11/29/18 13:42 | Matrix: Ground Water
Sample ID: MW-08 | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082723										
Bis(2-ethylhexyl)phthalate	**2.9**	**ug/L**	**0.95**	**1**	**12/06/18**	**kbc**	**12/10/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	77	%	36-103	1	12/06/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	73	%	36-119	1	12/06/18	kbc	12/10/18	avl	N	
Terphenyl-d14	66	%	37-109	1	12/06/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-94 | Date Collected: 11/29/18 13:42 | Matrix: Ground Water
Sample ID: MW-08(F) | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082723										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/06/18	kbc	12/10/18	avl	N	
Surrogates:										
Nitrobenzene-d5	71	%	36-103	1	12/06/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	67	%	36-119	1	12/06/18	kbc	12/10/18	avl	N	
Terphenyl-d14	65	%	37-109	1	12/06/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-95 | Date Collected: 11/29/18 15:00 | Matrix: Aqueous
Sample ID: Trip Blank | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T083190										
Benzene	<0.50	ug/L	0.50	1	12/12/18	was	12/12/18	was	N	
Toluene	<0.50	ug/L	0.50	1	12/12/18	was	12/12/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	12/12/18	was	12/12/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	12/12/18	was	12/12/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	12/12/18	was	12/12/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	12/12/18	was	12/12/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	113	%	68-133	1	12/12/18	was	12/12/18	was	N	
Toluene-d8	104	%	75-120	1	12/12/18	was	12/12/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-96 | Date Collected: 11/29/18 11:00 | Matrix: Ground Water
Sample ID: PW-RR-TG-LB | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082723										
Bis(2-ethylhexyl)phthalate	**2.6**	**ug/L**	**0.48**	**1**	**12/06/18**	**kbc**	**12/11/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	61	%	36-103	1	12/06/18	kbc	12/11/18	avl	N	
2-Fluorobiphenyl	56	%	36-119	1	12/06/18	kbc	12/11/18	avl	N	
Terphenyl-d14	58	%	37-109	1	12/06/18	kbc	12/11/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-97 | Date Collected: 11/29/18 11:00 | Matrix: Ground Water
Sample ID: PW-RR-TG-LB(F) | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082723										
Bis(2-ethylhexyl)phthalate	**0.23**	**ug/L**	**0.48**	**1**	**12/06/18**	**kbc**	**12/10/18**	**avl**	**J, N**	
Surrogates:										
Nitrobenzene-d5	73	%	36-103	1	12/06/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	72	%	36-119	1	12/06/18	kbc	12/10/18	avl	N	
Terphenyl-d14	66	%	37-109	1	12/06/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-98 | Date Collected: 11/29/18 14:00 | Matrix: Ground Water
Sample ID: PW-RR-TH-RMC | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082723										
Bis(2-ethylhexyl)phthalate	**0.23**	**ug/L**	**0.47**	**1**	**12/06/18**	**kbc**	**12/10/18**	**avl**	**J, N**	
Surrogates:										
Nitrobenzene-d5	76	%	36-103	1	12/06/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	76	%	36-119	1	12/06/18	kbc	12/10/18	avl	N	
Terphenyl-d14	64	%	37-109	1	12/06/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-99 | Date Collected: 11/29/18 14:00 | Matrix: Ground Water
Sample ID: PW-RR-TH-RMC(F) | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082723										
Bis(2-ethylhexyl)phthalate	**0.50**	**ug/L**	**0.47**	**1**	**12/06/18**	**kbc**	**12/10/18**	**avl**	**N**	
Surrogates:										
Nitrobenzene-d5	78	%	36-103	1	12/06/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	76	%	36-119	1	12/06/18	kbc	12/10/18	avl	N	
Terphenyl-d14	63	%	37-109	1	12/06/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-AA | Date Collected: 11/30/18 09:55 | Matrix: Ground Water
Sample ID: TMW-09 | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082762										
Bis(2-ethylhexyl)phthalate	**14**	**ug/L**	**0.94**	**1**	**12/07/18**	**kbc**	**12/10/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	76	%	36-103	1	12/07/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	67	%	36-119	1	12/07/18	kbc	12/10/18	avl	N	
Terphenyl-d14	61	%	37-109	1	12/07/18	kbc	12/10/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082751										
Benzene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Toluene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Ethylbenzene	**140**	**ug/L**	**0.50**	**1**	**12/06/18**	**was**	**12/11/18**	**was**	**N**	
m,p-Xylene	**440**	**ug/L**	**10**	**10**	**12/12/18**	**was**	**12/12/18**	**was**	**N**	
o-Xylene	**100**	**ug/L**	**5.0**	**10**	**12/12/18**	**was**	**12/12/18**	**was**	**N**	
Xylenes, total	**550**	**ug/L**	**15**	**10**	**12/12/18**	**was**	**12/12/18**	**was**	**N**	
Surrogates:										
1,2-Dichloroethane-d4	74	%	68-133	1	12/06/18	was	12/11/18	was	N	
1,2-Dichloroethane-d4	115	%	68-133	10	12/12/18	was	12/12/18	was	N	
Toluene-d8	96	%	75-120	1	12/06/18	was	12/11/18	was	N	
Toluene-d8	105	%	75-120	10	12/12/18	was	12/12/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-AB | Date Collected: 11/30/18 09:55 | Matrix: Ground Water
Sample ID: TMW-09(F) | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082762										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/07/18	kbc	12/10/18	avl	B, N	
Surrogates:										
Nitrobenzene-d5	81	%	36-103	1	12/07/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	72	%	36-119	1	12/07/18	kbc	12/10/18	avl	N	
Terphenyl-d14	61	%	37-109	1	12/07/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-AC | Date Collected: 11/30/18 10:00 | Matrix: Ground Water
Sample ID: MW-28S | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082762										
Bis(2-ethylhexyl)phthalate	**8.1**	**ug/L**	**0.95**	**1**	**12/07/18**	**kbc**	**12/10/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	64	%	36-103	1	12/07/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	60	%	36-119	1	12/07/18	kbc	12/10/18	avl	N	
Terphenyl-d14	61	%	37-109	1	12/07/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-AD | Date Collected: 11/30/18 10:00 | Matrix: Ground Water
Sample ID: MW-28S(F) | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082762										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/07/18	kbc	12/10/18	avl	N	
Surrogates:										
Nitrobenzene-d5	73	%	36-103	1	12/07/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	70	%	36-119	1	12/07/18	kbc	12/10/18	avl	N	
Terphenyl-d14	59	%	37-109	1	12/07/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-AE | Date Collected: 11/30/18 10:45 | Matrix: Ground Water
Sample ID: MW-28I | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082762										
Bis(2-ethylhexyl)phthalate	**2.4**	**ug/L**	**0.97**	**1**	**12/07/18**	**kbc**	**12/10/18**	**avl**	**B, N**	
Surrogates:										
Nitrobenzene-d5	70	%	36-103	1	12/07/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	60	%	36-119	1	12/07/18	kbc	12/10/18	avl	N	
Terphenyl-d14	60	%	37-109	1	12/07/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-AF | Date Collected: 11/30/18 10:45 | Matrix: Ground Water
Sample ID: MW-28I(F) | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082762										
Bis(2-ethylhexyl)phthalate	<0.96	ug/L	0.96	1	12/07/18	kbc	12/10/18	avl	N	
Surrogates:										
Nitrobenzene-d5	59	%	36-103	1	12/07/18	kbc	12/10/18	avl	N	
2-Fluorobiphenyl	64	%	36-119	1	12/07/18	kbc	12/10/18	avl	N	
Terphenyl-d14	61	%	37-109	1	12/07/18	kbc	12/10/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-AG | Date Collected: 11/30/18 10:30 | Matrix: Aqueous
Sample ID: RB-01 | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082762										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/07/18	kbc	12/11/18	avl	N	
Surrogates:										
Nitrobenzene-d5	62	%	36-103	1	12/07/18	kbc	12/11/18	avl	N	
2-Fluorobiphenyl	55	%	36-119	1	12/07/18	kbc	12/11/18	avl	N	
Terphenyl-d14	52	%	37-109	1	12/07/18	kbc	12/11/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082751										
Benzene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Toluene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	12/06/18	was	12/11/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	12/06/18	was	12/11/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	75	%	68-133	1	12/06/18	was	12/11/18	was	N	
Toluene-d8	94	%	75-120	1	12/06/18	was	12/11/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-AH | Date Collected: 11/30/18 10:30 | Matrix: Aqueous
Sample ID: RB-01(F) | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082762										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/07/18	kbc	12/11/18	avl	N	
Surrogates:										
Nitrobenzene-d5	74	%	36-103	1	12/07/18	kbc	12/11/18	avl	N	
2-Fluorobiphenyl	68	%	36-119	1	12/07/18	kbc	12/11/18	avl	N	
Terphenyl-d14	73	%	37-109	1	12/07/18	kbc	12/11/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-AI | Date Collected: 11/30/18 11:00 | Matrix: Aqueous
Sample ID: RB-02 | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082762										
Bis(2-ethylhexyl)phthalate	<0.94	ug/L	0.94	1	12/07/18	kbc	12/11/18	avl	N	
Surrogates:										
Nitrobenzene-d5	55	%	36-103	1	12/07/18	kbc	12/11/18	avl	N	
2-Fluorobiphenyl	51	%	36-119	1	12/07/18	kbc	12/11/18	avl	N	
Terphenyl-d14	47	%	37-109	1	12/07/18	kbc	12/11/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T083190										
Benzene	<0.50	ug/L	0.50	1	12/12/18	was	12/12/18	was	N	
Toluene	<0.50	ug/L	0.50	1	12/12/18	was	12/12/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	12/12/18	was	12/12/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	12/12/18	was	12/12/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	12/12/18	was	12/12/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	12/12/18	was	12/12/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	116	%	68-133	1	12/12/18	was	12/12/18	was	N	
Toluene-d8	104	%	75-120	1	12/12/18	was	12/12/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-AJ | Date Collected: 11/30/18 11:00 | Matrix: Aqueous
Sample ID: RB-02(F) | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082762										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/07/18	kbc	12/11/18	avl	N	
Surrogates:										
Nitrobenzene-d5	46	%	36-103	1	12/07/18	kbc	12/11/18	avl	N	
2-Fluorobiphenyl	43	%	36-119	1	12/07/18	kbc	12/11/18	avl	N	
Terphenyl-d14	43	%	37-109	1	12/07/18	kbc	12/11/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-AK | Date Collected: 11/30/18 11:30 | Matrix: Aqueous
Sample ID: RB-03 | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082762										
Bis(2-ethylhexyl)phthalate	<0.95	ug/L	0.95	1	12/07/18	kbc	12/11/18	avl	N	
Surrogates:										
Nitrobenzene-d5	69	%	36-103	1	12/07/18	kbc	12/11/18	avl	N	
2-Fluorobiphenyl	64	%	36-119	1	12/07/18	kbc	12/11/18	avl	N	
Terphenyl-d14	60	%	37-109	1	12/07/18	kbc	12/11/18	avl	N	
VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8260C										
Batch: T082751										
Benzene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Toluene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Ethylbenzene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
m,p-Xylene	<1.0	ug/L	1.0	1	12/06/18	was	12/11/18	was	N	
o-Xylene	<0.50	ug/L	0.50	1	12/06/18	was	12/11/18	was	N	
Xylenes, total	<1.5	ug/L	1.5	1	12/06/18	was	12/11/18	was	N	
Surrogates:										
1,2-Dichloroethane-d4	74	%	68-133	1	12/06/18	was	12/11/18	was	N	
Toluene-d8	95	%	75-120	1	12/06/18	was	12/11/18	was	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-AL | Date Collected: 11/30/18 11:30 | Matrix: Aqueous
Sample ID: RB-03(F) | Date Received: 12/03/18 12:20

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS										
Analysis Method: EPA 8270D										
Batch: T082762										
Bis(2-ethylhexyl)phthalate	<0.94	ug/L	0.94	1	12/07/18	kbc	12/11/18	avl	N	
Surrogates:										
Nitrobenzene-d5	61	%	36-103	1	12/07/18	kbc	12/11/18	avl	N	
2-Fluorobiphenyl	59	%	36-119	1	12/07/18	kbc	12/11/18	avl	N	
Terphenyl-d14	57	%	37-109	1	12/07/18	kbc	12/11/18	avl	N	

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ANALYTICAL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

Trace ID: T18K629-AM | Date Collected: 11/30/18 12:30 | Matrix: Aqueous
Sample ID: Trip Blank | Date Received: 12/03/18 12:20

PARAMETERS		RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE ORGANIC COMPOUNDS BY GC-MS											
Analysis Method: EPA 8260C											
Batch: T083190											
Benzene		<0.50	ug/L	0.50	1	12/12/18	was	12/12/18	was	N	
Toluene		<0.50	ug/L	0.50	1	12/12/18	was	12/12/18	was	N	
Ethylbenzene		<0.50	ug/L	0.50	1	12/12/18	was	12/12/18	was	N	
m,p-Xylene		<1.0	ug/L	1.0	1	12/12/18	was	12/12/18	was	N	
o-Xylene		<0.50	ug/L	0.50	1	12/12/18	was	12/12/18	was	N	
Xylenes, total		<1.5	ug/L	1.5	1	12/12/18	was	12/12/18	was	N	
Surrogates:											
1,2-Dichloroethane-d4	*	**170**	%	68-133	1	12/12/18	was	12/12/18	was	312, N	
Toluene-d8		98	%	75-120	1	12/12/18	was	12/12/18	was	N	

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QUALITY CONTROL RESULTS

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

QC Batch: T082564
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Filtration for Dissolved Analysis
Analysis Method: Dissolved Analysis

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

QC Batch: T082581
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Semi-volatiles, Phthalates only
Analysis Method: EPA 8270D

METHOD BLANK: T082581-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<0.50	0.50	
Nitrobenzene-d5 (S)	%	70	36-103	
2-Fluorobiphenyl (S)	%	62	36-119	
Terphenyl-d14 (S)	%	60	37-109	

LABORATORY CONTROL SAMPLE: T082581-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	67.9	68	57-107	
Nitrobenzene-d5 (S)	%	100	68.8	69	36-103	
2-Fluorobiphenyl (S)	%	100	60.0	60	36-119	
Terphenyl-d14 (S)	%	100	65.6	66	37-109	

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

QC Batch: T082623
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Semi-volatiles, Phthalates only
Analysis Method: EPA 8270D

METHOD BLANK: T082623-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<0.50	0.50	
Nitrobenzene-d5 (S)	%	75	36-103	
2-Fluorobiphenyl (S)	%	64	36-119	
Terphenyl-d14 (S)	%	58	37-109	

LABORATORY CONTROL SAMPLE: T082623-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes

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LABORATORY CONTROL SAMPLE: T082623-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	83.3	83	57-107	
Nitrobenzene-d5 (S)	%	100	88.9	89	36-103	
2-Fluorobiphenyl (S)	%	100	75.3	75	36-119	
Terphenyl-d14 (S)	%	100	85.5	85	37-109	

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

QC Batch: T082660
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Semi-volatiles, Phthalates only
Analysis Method: EPA 8270D

METHOD BLANK: T082660-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	**ug/L**	**0.47**	**0.50**	**J**
Nitrobenzene-d5 (S)	%	73	36-103	
2-Fluorobiphenyl (S)	%	63	36-119	
Terphenyl-d14 (S)	%	65	37-109	

LABORATORY CONTROL SAMPLE: T082660-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	**ug/L**	**100**	**85.7**	**86**	**57-107**	**B**
Nitrobenzene-d5 (S)	%	100	77.2	77	36-103	
2-Fluorobiphenyl (S)	%	100	71.4	71	36-119	
Terphenyl-d14 (S)	%	100	71.0	71	37-109	

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

QC Batch: T082691
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Semi-volatiles, Phthalates only
Analysis Method: EPA 8270D

METHOD BLANK: T082691-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<0.50	0.50	
Nitrobenzene-d5 (S)	%	60	36-103	
2-Fluorobiphenyl (S)	%	53	36-119	
Terphenyl-d14 (S)	%	50	37-109	

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LABORATORY CONTROL SAMPLE: T082691-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	90.4	90	57-107	
Nitrobenzene-d5 (S)	%	100	76.6	77	36-103	
2-Fluorobiphenyl (S)	%	100	64.3	64	36-119	
Terphenyl-d14 (S)	%	100	77.2	77	37-109	

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

QC Batch: T082692
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Semi-volatiles, Phthalates only
Analysis Method: EPA 8270D

METHOD BLANK: T082692-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	0.55	0.50	
Nitrobenzene-d5 (S)	%	66	36-103	
2-Fluorobiphenyl (S)	%	59	36-119	
Terphenyl-d14 (S)	%	53	37-109	

LABORATORY CONTROL SAMPLE: T082692-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	**ug/L**	**100**	**69.2**	**69**	**57-107**	**B**
Nitrobenzene-d5 (S)	%	100	75.7	76	36-103	
2-Fluorobiphenyl (S)	%	100	63.9	64	36-119	
Terphenyl-d14 (S)	%	100	61.5	61	37-109	

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

QC Batch: T082723
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Semi-volatiles, Phthalates only
Analysis Method: EPA 8270D

METHOD BLANK: T082723-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	**ug/L**	**0.20**	**0.50**	**J**
Nitrobenzene-d5 (S)	%	59	36-103	
2-Fluorobiphenyl (S)	%	55	36-119	
Terphenyl-d14 (S)	%	50	37-109	

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LABORATORY CONTROL SAMPLE: T082723-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	72.8	73	57-107	
Nitrobenzene-d5 (S)	%	100	72.4	72	36-103	
2-Fluorobiphenyl (S)	%	100	57.9	58	36-119	
Terphenyl-d14 (S)	%	100	65.8	66	37-109	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T082723-MSD1 Original: **T18K629-85**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Bis(2-ethylhexyl)phthalate	ug/L	0.267	94.8	74.3	68.8	78	72	52-106	7	29	
Nitrobenzene-d5 (S)	%		94.8	67.3	68.8	71	73	36-103			
2-Fluorobiphenyl (S)	%		94.8	57.4	56.7	60	60	36-119			
Terphenyl-d14 (S)	%		94.8	56.9	53.3	60	56	37-109			

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T082723-MSD2 Original: **T18K629-86**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Bis(2-ethylhexyl)phthalate	**ug/L**	**0**	**190**	**40.1**	**190**	**21**	**100**	**52-106**	**130**	**29**	**237.5**
Nitrobenzene-d5 (S)	%		190	38.9	168	20	88	36-103			
2-Fluorobiphenyl (S)	%		190	31.9	139	17	73	36-119			
Terphenyl-d14 (S)	%		190	34.2	151	18	79	37-109			

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

QC Batch: T082762
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.
Analysis Description: Semi-volatiles, Phthalates only
Analysis Method: EPA 8270D

METHOD BLANK: T082762-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	**ug/L**	**0.32**	**0.50**	**J**
Nitrobenzene-d5 (S)	%	71	36-103	
2-Fluorobiphenyl (S)	%	68	36-119	
Terphenyl-d14 (S)	%	64	37-109	

LABORATORY CONTROL SAMPLE: T082762-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	**ug/L**	**100**	**82.8**	**83**	**57-107**	**B**
Nitrobenzene-d5 (S)	%	100	73.1	73	36-103	

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LABORATORY CONTROL SAMPLE: T082762-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
2-Fluorobiphenyl (S)	%	100	63.5	63	36-119	
Terphenyl-d14 (S)	%	100	67.9	68	37-109	

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

QC Batch: T082587
QC Batch Method: EPA 8260C
Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T082587-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	110	68-133	
Toluene-d8 (S)	%	107	75-120	

LABORATORY CONTROL SAMPLE: T082587-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	21.3	106	80-120	
Toluene	ug/L	20.0	22.2	111	80-120	
1,2-Dichloroethane-d4 (S)	%	70.0	76.5	109	68-133	
Toluene-d8 (S)	%	50.0	53.7	107	75-120	

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

QC Batch: T082686
QC Batch Method: EPA 8260C
Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T082686-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	

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METHOD BLANK: T082686-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	111	68-133	
Toluene-d8 (S)	%	107	75-120	

LABORATORY CONTROL SAMPLE: T082686-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	21.5	107	80-120	
Toluene	ug/L	20.0	23.2	116	80-120	
1,2-Dichloroethane-d4 (S)	%	70.0	76.8	110	68-133	
Toluene-d8 (S)	%	50.0	53.0	106	75-120	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T082686-MSD1 Original: **T18K629-27RE1**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Benzene	ug/L	0	2000	1670	1720	83	86	78-114	3	11	
Toluene	ug/L	0	2000	1780	1830	89	92	77-118	3	10	
1,2-Dichloroethane-d4 (S)	%		70.0	77.2	78.2	110	112	68-133			
Toluene-d8 (S)	%		50.0	53.4	52.6	107	105	75-120			

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

QC Batch: T082698
QC Batch Method: EPA 8260C

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T082698-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	110	68-133	
Toluene-d8 (S)	%	105	75-120	

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LABORATORY CONTROL SAMPLE: T082698-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	20.6	103	80-120	
Toluene	ug/L	20.0	21.6	108	80-120	
1,2-Dichloroethane-d4 (S)	%	70.0	77.8	111	68-133	
Toluene-d8 (S)	%	50.0	52.9	106	75-120	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T082698-MSD1 Original: **T18K629-41RE1**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Benzene	ug/L	0	1000	1050	1030	105	103	78-114	2	11	
Toluene	ug/L	0	1000	1080	1070	108	107	77-118	0.8	10	
1,2-Dichloroethane-d4 (S)	%		70.0	78.1	78.2	112	112	68-133			
Toluene-d8 (S)	%		50.0	53.5	52.9	107	106	75-120			

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

QC Batch: T082751
QC Batch Method: EPA 8260C
Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T082751-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	73	68-133	
Toluene-d8 (S)	%	92	75-120	

LABORATORY CONTROL SAMPLE: T082751-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	17.6	88	80-120	
Toluene	**ug/L**	**20.0**	**15.8**	**79**	**80-120**	**113**
1,2-Dichloroethane-d4 (S)	%	50.0	36.1	72	68-133	
Toluene-d8 (S)	%	50.0	45.0	90	75-120	

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888-979-4469 Fax
www.trace-labs.com

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T082751-MSD1 Original: **T18K629-85**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Benzene	ug/L	0	20.0	19.4	18.7	97	94	78-114	3	11	
Toluene	ug/L	0	20.0	16.4	16.1	82	81	77-118	2	10	
1,2-Dichloroethane-d4 (S)	%		50.0	36.7	37.0	73	74	68-133			
Toluene-d8 (S)	%		50.0	44.2	44.4	88	89	75-120			

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

QC Batch: T082979
QC Batch Method: EPA 8260C
Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T082979-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	114	68-133	
Toluene-d8 (S)	%	105	75-120	

LABORATORY CONTROL SAMPLE: T082979-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	18.8	94	80-120	
Toluene	ug/L	20.0	19.6	98	80-120	
1,2-Dichloroethane-d4 (S)	%	70.0	77.7	111	68-133	
Toluene-d8 (S)	%	50.0	53.0	106	75-120	

Trace Project ID: T18K629
Client Project ID: LEC 293107.0000.0000

QC Batch: T083190
QC Batch Method: EPA 8260C
Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
Analysis Method: EPA 8260C

METHOD BLANK: T083190-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	

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METHOD BLANK: T083190-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	114	68-133	
Toluene-d8 (S)	%	104	75-120	

LABORATORY CONTROL SAMPLE: T083190-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	19.0	95	80-120	
Toluene	ug/L	20.0	20.1	100	80-120	
1,2-Dichloroethane-d4 (S)	%	70.0	76.6	110	68-133	
Toluene-d8 (S)	%	50.0	52.4	105	75-120	

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CHAIN-OF-CUSTODY RECORD

Page 2 of 2

TRACE ID NO. T18K629

Report Results To:

Company Name: TRC Environmental Corp.
Report to: Scott Pawlukiewicz
Mailing Address: 2025 East Belt Line Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Phone: Fax:
Email Address: SPawlukiewicz@TRCEnvironmental.com
Cell #: Sampled by: DZ
Project Name & #: LEC 293107

Bill To:

Billing Address (if different)
City, State, Zip Code Windsor, CT
Attn: Phone: PO #:

TRACE USE ONLY

Logged By: Checked By: MP
Received on ice: (Yes) No Preservative Checked: Yes No (N/A)
Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Regulatory Requirements: MERA TMDL's ☐ Drinking Water ☐ NPDES ☐ Special ☐

Turnaround Requirements: Standard ☒ 3 Day* ☐ 4 Day* ☐ 48 Hour* ☐ 24 Hour* ☐ * Requires Prior Approval

Matrix Key: S = Soil/Solid, W = Water, SL = Sludge, OI = Oil, WI = Wipes, LW = Liquid Waste, A = Air, D = Drinking Water

Request for Analytical Services

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	CLIENT SAMPLE ID	METALS FIELD FILTERED	MATRIX	NUMBER OF CONTAINERS	COOL	HCL	HNO3	H_2SO_4	NaOH	Other	DEHP (Total)	DEHP (Diss. - Field Filtered)	REMARKS	Possible Health Hazards
96/97	11/29/18	1100	PW-RR-TG-LB		PW	3	3						X	X		
98/99	11/29/18	1400	PW-RR-TH-RMC		PW	3	3						X	X		

Please Sign

RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME
1) [signature]	FedEx	11/29/18	1540	2) Fed Ex	[signature]	12/3/18	12:20	3)			
4)				5)				6)			

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/cocterms.php

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Page 1 of 2

TRACE ID NO. T18K629

TRACE USE ONLY

Logged By: [signature] Checked By: MB

Received on ice: (Yes) No Preservative Checked: Yes (No) N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Regulatory Requirements		Turnaround Requirements		Matrix Key	
MERA TMDL's	☐	Standard	☒	S = Soil/Solid	WI = Wipes
Drinking Water	☐	3 Day* ☐	4 Day* ☐	W = Water	LW = Liquid Waste
NPDES	☐	48 Hour* ☐	24 Hour* ☐	SL = Sludge	A = Air
Special	☐	* Requires Prior Approval		OI = Oil	D = Drinking Water

Report Results To:

Company Name: TRC Environmental Corp.
Report to: Scott Pawlukiewicz
Mailing Address: 2025 East Belt Line Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Phone: Fax:
Email Address: SPawlukiewicz@TRCsolutions.com
Cell #: Sampled by: JML, EO
Project Name & #: LEC 293107

Bill To:

Billing Address (if different)
City, State, Zip Code Windsor, CT
Attn: Phone: PO #:

Request for Analytical Services

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	CLIENT SAMPLE ID	METALS FIELD FILTERED	MATRIX	NUMBER OF CONTAINERS	COOL	HCL	HNO3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss.-Field Filtered)	REMARKS	Possible Health Hazards
83/84	11/29/18	0950	MW-29s		GW	11	7	4					X	X	X		
85/86		0952	MW-25(R)			3	3							X	X		
87/88		1045	MW-30d			3	3							X	X		
89/90		1125	MW-30I			3	3							X	X		
91/92		1310	MW-30s(R)			3	3							X	X		
93/94		1342	MW-08			3	3							X	X		
95	11/29/18	1500	Trip Blank		BLANK	2	2						X				

Please Sign

RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME
1) Jenifer Capella	FedEx	11/29/18	1540	2) FedEx	[signature]	12/3/18	12:20	3)			
4)				5)				6)			

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Page 1 of 1

TRACE ID NO. T18K629

TRACE USE ONLY

Logged By: [signature] Checked By: MP

Received on ice: (Yes) No Preservative Checked: Yes (No) N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Report Results To:

Company Name: TRC Environmental Corp.
Report to: Scott Pawlukiewicz
Mailing Address: 2025 East Belt Line Ave. Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Phone: Fax:
Email Address: SPawlukiewicz@TRCSolutions.com
Cell #: Sampled by: JC, EO, DZ
Project Name & #: LEC 293107

Bill To:

Billing Address (if different)
City, State, Zip Code Windsor, CT
Attn: Phone: PO #:

Regulatory Requirements: MERA TMDL's ☐ Drinking Water ☐ NPDES ☐ Special ☐

Turnaround Requirements: Standard ☒ 3 Day* ☐ 4 Day* ☐ 48 Hour* ☐ 24 Hour* ☐ * Requires Prior Approval

Matrix Key: S = Soil/Solid, W = Water, SL = Sludge, OI = Oil, WI = Wipes, LW = Liquid Waste, A = Air, D = Drinking Water

Request for Analytical Services

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	CLIENT SAMPLE ID	METALS FIELD FILTERED	MATRIX	NUMBER OF CONTAINERS	PRESERVATION: COOL	HCL	HNO3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Field Filtered)	DEHP (Diss. - Lab Filtered)	REMARKS	Possible Health Hazards
AA/AB	11/30/18	0955	TMW-09		GW	5	3	2					X	X	X			
AC/AD		1000	MW-28S			3	3							X	X			
AE/AF		1045	MW-28I			3	3							X	X			
AG/AH	11/30/18	1030	RB-01		BLANK	5	3	2					X	X		X		
AI/AJ		1100	RB-02			5	3	2					X	X		X		
AK/AL		1130	RB-03			5	3	2					X	X		X		
AM	11/30/18	1230	Trip Blank			1							X					

Please Sign

RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME
1) Jennifer Capella	Fed Ex	11/30/18	1340	2) Fed Ex	[signature]	12/3/18	12:20	3)			
4)				5)				6)			

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SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 12/3/18 Package Description: Cooler #13 Temperature: -0.6
Client Name: TRC Environmental Time: 12:15 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____
Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: 7840 8811 0221

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 3.7 °C (check one below)
[X] Temp Blank (Stick Thermometer)
[ ] Client Sample (IR Thermometer)

Melt Water: none °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: MW-08, PW-RR-TG-LB, PW-RR-TH-RMC

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: _____

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Effective 7/25/18

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SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 12/3/18 Package Description: Cooler #14 Temperature: -1.6
Client Name: TRC Environmental Time: 12:15 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____
Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: 7840 8811 0200

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]

Ice still present upon receipt (circle one): (Yes) No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 0.9 °C (check one below)
[X] Temp Blank (Stick Thermometer)
[ ] Client Sample (IR Thermometer)

Melt Water: none °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: MW-25(R),

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: _____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 12/3/18 Package Description: Cooler #15 Temperature: -1.0
Client Name: TRC Environmental Time: 12:15 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Commercial courier [ ] Name of delivery person: ____
UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: 7841 0816 5690

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): ____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 0.8 °C (check one below)
[ ] Temp Blank (Stick Thermometer)
[ ] Client Sample (IR Thermometer)

Melt Water: none °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: MW-28I, TMW-09, MW-28S

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: ____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 12/3/18 Package Description: Cooler #16 Temperature: -1.1
Client Name: TRC Environmental Time: 12:15 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: ____
Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: ____

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): ____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 2.8 °C (check one below)
[ ] Temp Blank (Stick Thermometer)
[X] Client Sample (IR Thermometer)

Melt Water: none °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: MW-30D, MW-30I, MW-29S, MW-30S(R)

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: ____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 12/3/18 Package Description: Cooler #17 Temperature: -1.1
Client Name: TRC Environmental Time: 12:15 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Commercial courier [ ] Name of delivery person: ____
UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: 7841 0816 5680

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): ____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 2.8 °C (check one below)
[ ] Temp Blank (Stick Thermometer)
[X] Client Sample (IR Thermometer)

Melt Water: none °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: RB-01, RB-02, RB-03

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: ____

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TRACE ID NO. T18K629

Report Results To:

Company Name: TRC Environmental Corp.
Report to: Scott Pawlukiewicz
Mailing Address: 2025 East Belt Line Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Phone: Fax:
Email Address: SPawlukiewicz@TRCSolutions.com
Cell #: Sampled by: EO, JML
Project Name & #: LEC 293107

Bill To:

Billing Address (if different) ~~twin~~
City, State, Zip Code Windsor, CT
Attn: Phone: PO #:

TRACE USE ONLY

Logged By: GH Checked By: GH
Received on ice: Yes No Preservative Checked: Yes No N/A
Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Regulatory Requirements	Turnaround Requirements	Matrix Key	
MERA TMDL's ☐	Standard ☐	S = Soil/Solid	WI = Wipes
Drinking Water ☐	3 Day* ☐ 4 Day* ☐	W = Water	LW = Liquid Waste
NPDES ☐	48 Hour* ☐ 24 Hour* ☐	SL = Sludge	A = Air
Special ☐	* Requires Prior Approval	Ol = Oil	D = Drinking Water

Request for Analytical Services

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	CLIENT SAMPLE ID	METALS FIELD FILTERED	MATRIX	NUMBER OF CONTAINERS	COOL	HCL	HNO3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Field Filtered)								REMARKS	Possible Health Hazards
58/59	11/28/18	0950	TMW-06		GW	5	3	2					X	X	X									
60/61		1100	TMW-07										X	X	X									
62/63		1210	MW-31S										X	X	X									
64/65		1230	TMW-10										X	X	X									
66/67		1240	~~MW~~ DUP-04										X	X	X									
68/69		1448	MW-33S										X	X	X									
70	11/28/18		Trip Blank		BLANK	2		2					X											

Please Sign

	RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME
1)	Jennifer Crosby	FedEx	11/28/18	1615	2) FedEx	GH	11/30/18	11:00	3)			
4)					5)				6)			

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/cocterms.php

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888-979-4469 Fax
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fax 231.773.6537

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Muskegon, MI 49444-2673
www.trace-labs.com

Page 2 of 2

TRACE ID NO. T18K629

TRACE USE ONLY

Logged By: [signature] Checked By: GH

Received on ice: (Yes) No Preservative Checked: Yes (No) N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Report Results To:

Company Name: TRC Environmental Corp.
Report to: Scott Pawlukiewicz
Mailing Address: 2025 East Belt Line Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Phone: Fax:
Email Address: SPawlukiewicz@TRCSolutions.com
Cell #: Sampled by: DZ
Project Name & #: LEC 293107

Bill To:

Billing Address (if different)
City, State, Zip Code Windsor, CT
Attn: Phone: PO #:

Regulatory Requirements: MERA TMDL's ☐ Drinking Water ☐ NPDES ☐ Special ☐

Turnaround Requirements: Standard ☒ 3 Day* ☐ 4 Day* ☐ 48 Hour* ☐ 24 Hour* ☐ * Requires Prior Approval

Matrix Key: S = Soil/Solid, W = Water, SL = Sludge, Oil = Oil, WI = Wipes, LW = Liquid Waste, A = Air, D = Drinking Water

Request for Analytical Services

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	CLIENT SAMPLE ID	METALS FIELD FILTERED	MATRIX	NUMBER OF CONTAINERS	COOL	HCL	HNO3	H_2SO_4	NaOH	Other	DEHP (Total)	DEHP (Diss.-Filtered) Field								REMARKS	Possible Health Hazards
71/72	11/28/18	1030	PW-RR-TJ-MC		PW	3	3						X	X									
73/74		1040	DUP-05										X	X									
75/76		1130	PW-RR-TJ-LB										X	X									
77/78		1230	PW-RR-TI-LB										X	X									
79/80		1430	PW-RR-TH-LB										X	X									
81/82	11/28/18	0900	PW-D-2		PW	3	3						X	X									

Please Sign

RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME
1) [signature]	FedEx	11/28/18	1615	2) FedEx	[signature]	11/30/18	11:00	3)			
				5)				6)			

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888-979-4469 Fax
www.trace-labs.com

SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 11/30/18 Package Description: Cooler #12 Temperature: -1.8
Client Name: TRC Time: 11:00 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____
Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: 7840 8811 0210

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]
Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 1.0 °C (check one below)
[X] Temp Blank (Stick Thermometer)
[ ] Client Sample (IR Thermometer)
Melt Water: none °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?		X		MW-30S(R)(F) broken
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: MW-30I, MW-29S, MW-30D,

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: _____

Form 70-A.25
Effective 7/25/18

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888-979-4469 Fax
www.trace-labs.com

SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 11/30/18 Package Description: Cooler #11 Temperature: -1.6
Client Name: TRC Time: 11:00 Logged in by: JB

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____
Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: 7840 6299 2771

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]

Ice still present upon receipt (circle one): (Yes) No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 2.8 °C (check one below)
[ ] Temp Blank (Stick Thermometer)
[ ] Client Sample (IR Thermometer)

Melt Water: None °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: PW-RR-TI-LB, PW-RR-TI-LB, PW-RR-TI-MC, DWP-05

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: _____

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Effective 7/25/18

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SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 11/30/18 Package Description: Cooler #10 Temperature: -1.5
Client Name: TRC Time: 11:00 Logged in by: JB

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____
Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: 7840 6299 2760

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 2.5 °C (check one below)
[ ] Temp Blank (Stick Thermometer)
[ ] Client Sample (IR Thermometer)

Melt Water: None °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: TMW-10, TMW-07, TMW-06, RW-RR-TH-LB

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: _____

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www.trace-labs.com

SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 11/30/18 Package Description: Cooler #9 Temperature: -1.4
Client Name: TRC Time: 11:00 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier ☐ Hand delivered ☐ Name of delivery person: _____
Commercial courier ☐ UPS ☐ FED EX ☒ US Mail ☐

Tracking Number: ☐ Not Applicable
Tracking #: 7840 6299 2750

COC Seals present and intact on cooler? ☒ Not Applicable ☐ No ☐ Yes
Custody seals signed by Client? ☐ No ☐ Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? ☒
Multiple bags of ice around samples? ☐
Ice Packs/ Blue Ice : ☐
No Coolant Present: ☐

Ice still present upon receipt (circle one): Yes (circled) No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 2.4 °C (check one below)
☐ Temp Blank (Stick Thermometer)
☒ Client Sample (IR Thermometer)

Melt Water: None °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	☒	☐	☐	
Each sample point is in a sealed plastic bag?	☒	☐	☐	
Labels filled out completely?	☒	☐	☐	
All bottle labels agree with Chain of Custody (COC)?	☒	☐	☐	
Sufficient sample to run tests requested?	☒	☐	☐	
pH checked and samples at correct pH?	☐	☐	☒	See Below*
Correct preservative added to samples?	☐	☐	☒	
Air bubbles absent from VOAs?	☒	☐	☐	
COC filled out properly and signed by client?	☒	☐	☐	
COC signed in by TRACE sample custodian?	☒	☐	☐	
Was project manager called and samples discussed?	☐	☒	☐	

Notes: Dup-04, MW-315, MW-335, PW-d-2

*EMD pH Test Strips Used:
☐ pH 0-2.5 Lot: HC731452 ☐ pH 11.0-13.0 Lot: HC600691
☐ Other: _____

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Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. T18K629

Report Results To:

Company Name:	TRC Environmental Corp
Report To:	Scott Pawlukiewicz
Mailing Address:	2075 East Belt Line Ave, Suite 402
City, State, Zip Code:	Grand Rapids, MI 49546
Office Phone:	Cell Phone:
Email Address:	SPawlukiewicz@TRCsolutions.com

Bill To:

PO #:	
Contact Name:	
Billing Address (if different):	
City, State, Zip Code:	Windsor, CT
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By:	JS
Checked By:	
Soil Volatiles Preserved (circle if applicable):	MeOH Low Level Lab
Sampling Time:	

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293107

Sampled By:

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Lab Filtered)									Remarks	Possible Health Hazards?
1/2	11/20/18	0935	SW-D-3		SW	5	3	2					✓	✓	✓										
3/4		1000	SW-D-4										✓	✓	✓										
5/6		1025	SW-D-1										✓	✓	✓										
7/8		1100	SW-R-6										✓	✓	✓										
9/10		1220	SW-D-5										✓	✓	✓										
11/12		1250	DRC-02										✓	✓	✓										
13/14		1415	SW-R-4										✓	✓	✓										
15/16		1430	SW-R-3										✓	✓	✓										
17/18		1445	SW-R-2										✓	✓	✓										
19/20		1500	SW-R-1										✓	✓	✓										

Please Sign

	Released By	Received By	Date	Time	Released By	Received By	Date	Time
1)	[signature]	WBS	11/20/18	1655	2) WBS	[signature]	11/21/18	8:30
3)					4)			

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[ ] Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

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CHAIN-OF-CUSTODY RECORD

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2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. T18K629

Report Results To:

Company Name: TRC Environmental
Report To: Scott Pawlukiewicz
Mailing Address: 2025 East Belt Line Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Office Phone:
Cell Phone:
Email Address: SPawlukiewicz@TRCsolutions.com

Bill To:

PO #:
Contact Name:
Billing Address (if different):
City, State, Zip Code: Windsor, CT
Phone Number:
Billing Email Address:

Trace Use:

Logged By: JS
Checked By:
Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab
Sampling Time:

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes
W = Water, LW = Liquid Waste
SL = Sludge, A = Air
OI = Oil, D = Drinking Water

Project Name: LEC 293107
Sampled By:

Analysis Requested

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	DEHP (Total)	DEHP (Diss. - Lab Filtered)	BTEX	Remarks	Possible Health Hazards?
21/22	11/26/18	1520	SW-D-2		SW	5	3	2					✓	✓	✓		
23/24	↓	1530	DUP-01		↓	↓	↓	↓					✓	✓	✓		

Please Sign	Released By	Received By	Date	Time	Released By	Received By	Date	Time
1)	[signature]	WB	11/26/18	1655	2) WB	[signature]	11/27/18	8:30
3)					4)			

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Trace ID No. T18K629

Report Results To:

Company Name:	TRC Environmental Corp.
Report To:	Scott Pawlukiewicz
Mailing Address:	2025 East Beltline Ave, Suite 402
City, State, Zip Code:	Grand Rapids, MI 49546
Office Phone:	Cell Phone:
Email Address:	SPawlukiewicz@TRCSolutions.com

Bill To:

PO #:	
Contact Name:	
Billing Address (if different):	
City, State, Zip Code:	Windsor, CT
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By:	JS
Checked By:	
Soil Volatiles Preserved (circle if applicable):	MeOH / Low Level / Lab
Sampling Time:	

Turnaround Requirements:

- [x] Standard
- [ ] 48 Hour*
- [ ] 4 Day*
- [ ] 24 Hour*
- [ ] 3 Day*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, OI = Oil, D = Drinking Water

Project Name: LEC 293107 Sampled By:

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y/N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Field Filtered)	Remarks	Possible Health Hazards?
25/26	11/26/18	1120	TMW-01		GW	5	3	2					✓	✓	✓		
27/28		1255	TMW-02										✓	✓	✓		
29/30		1420	MW-34S										✓	✓	✓		
31/32		1430	TMW-03										✓	✓	✓		
33/34		1440	DUP-03										✓	✓	✓		
35/36		1600	DUP-02										✓	✓	✓		

Please Sign	Released By	Received By	Date	Time	Released By	Received By	Date	Time
	1) [signature]	UPS	11/26/18	1655	2) UPS	[signature]	11/27/18	8:30
	3)				4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

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Page 1 of 2

TRACE ID NO. T18K629

Report Results To:

Company Name: TRC Environmental Corp.
Report to: Scott Pawlukiewicz
Mailing Address: 2025 East Belt Line Ave, Suite 402
City, State, Zip Code: Grand Rapids, MI 49546
Phone: Fax:
Email Address: SPawlukiewicz@TRCsolutions.com
Cell #: Sampled by:
Project Name & #: LEC 293107

Bill To:

Billing Address (if different)
City, State, Zip Code Windsor, CT
Attn: Phone: PO #:

TRACE USE ONLY

Logged By: Checked By:
Received on ice: Yes No Preservative Checked: Yes No N/A
Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Regulatory Requirements: MERA TMDL's ☐ Drinking Water ☐ NPDES ☐ Special ☐
Turnaround Requirements: Standard ☒ 3 Day* ☐ 4 Day* ☐ 48 Hour* ☐ 24 Hour* ☐ * Requires Prior Approval
Matrix Key: S = Soil/Solid, W = Water, SL = Sludge, Ol = Oil, WI = Wipes, LW = Liquid Waste, A = Air, D = Drinking Water

Request for Analytical Services

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	CLIENT SAMPLE ID	METALS FIELD FILTERED	MATRIX	NUMBER OF CONTAINERS	PRESERVATION: COOL	HCL	HNO3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss. - Field Filtered)	REMARKS	Possible Health Hazards
37/38	11/27/18	1025	TMW-04		GW	5	3	2					✓	✓	✓		
39/40		1026	MW-35S										✓	✓	✓		
41/42		1210	TMW-05										✓	✓	✓		
43/44		1350	TMW-08										✓	✓	✓		
45/46		1430	MW-32S										✓	✓	✓		
47/48		1010	MW-27S										✓	✓	✓		
49/50	11/27/18	1030	ATM-01		BLANK	5	3	2					✓	✓	✓		

Please Sign

RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME	RELEASED BY	RECEIVED BY	DATE	TIME
1) [signature]	UPS	11/27/18	1630	2) UPS	[signature]	11/28/18	8:30	3)			
4)				5)				6)			

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/cocterms.php

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888-979-4469 Fax
www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

TRACE ANALYTICAL LABORATORIES, INC.

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. T18K629

Report Results To:

Company Name:	TRC Environmental Corp.
Report To:	Scott Pawlukiewicz
Mailing Address:	2025 East Belt Line Ave, Suite 402
City, State, Zip Code:	Grand Rapids MI 49546
Office Phone:	Cell Phone:
Email Address:	SPawlukiewicz@TRCsolutions.com

Bill To:

PO #:	
Contact Name:	
Billing Address (if different):	Windsor, CT
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By:	JS
Checked By:	
Soil Volatiles Preserved (circle if applicable):	MeOH Low Level Lab
Sampling Time:	

Turnaround Requirements:

- [x] Standard
- [ ] 4 Day*
- [ ] 3 Day*
- [ ] 48 Hour*
- [ ] 24 Hour*

* Requires Prior Approval

Matrix Key:

S = Soil / Solid
W = Water
SL = Sludge
OI = Oil
WI = Wipes
LW = Liquid Waste
A = Air
D = Drinking Water

Project Name: LEC 293107 Sampled By: DZ

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	BTEX	DEHP (Total)	DEHP (Diss.-Filtered)	Remarks	Possible Health Hazards?
S1/S2	11/27/18	1140	PW-D-3		PW	3	3							X	X		
S3/S4	↓	1340	PW-D-4		↓	↓	↓							X	X		
S5/S6	↓	1420	PW-D-1		↓	↓	↓							X	X		
S7	11/27/18	1625	Trip BLANK		BLNK	2		2					X				
JS 11/29/18																	

Please Sign

Released By	Received By	Date	Time	Released By	Received By	Date	Time
1) [signature]	WPS	11/27/18	1630	2) WPS	[signature]	11/29/18	8:30
3)				4)			

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

[ ] Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

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SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 11/29/18 Package Description: Cooler #1 Temperature: -1.3
Client Name: TRC Time: 18:00 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier ☐ Hand delivered ☐ Name of delivery person: _____
Commercial courier ☐ UPS ☐ FED EX ☒ US Mail ☐

Tracking Number: ☐ Not Applicable
Tracking #: 7840 3428 3561

COC Seals present and intact on cooler? ☒ Not Applicable ☐ No ☐ Yes
Custody seals signed by Client? ☐ No ☐ Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? ☒
Multiple bags of ice around samples? ☐
Ice Packs/ Blue Ice : ☐
No Coolant Present: ☐

Ice still present upon receipt (circle one): Yes (circled) No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 2.6 °C (check one below)
☐ Temp Blank (Stick Thermometer)
☒ Client Sample (IR Thermometer)

Melt Water: none °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	☒	☐	☐	
Each sample point is in a sealed plastic bag?	☒	☐	☐	
Labels filled out completely?	☒	☐	☐	
All bottle labels agree with Chain of Custody (COC)?	☒	☐	☐	
Sufficient sample to run tests requested?	☒	☐	☐	
pH checked and samples at correct pH?	☐	☐	☒	See Below*
Correct preservative added to samples?	☐	☐	☒	
Air bubbles absent from VOAs?	☒	☐	☐	
COC filled out properly and signed by client?	☒	☐	☐	
COC signed in by TRACE sample custodian?	☒	☐	☐	
Was project manager called and samples discussed?	☐	☒	☐	

Notes: PW-D-1, MW-27S, PW-D-3, ATM-01

*EMD pH Test Strips Used:
☐ pH 0-2.5 Lot: HC731452 ☐ pH 11.0-13.0 Lot: HC600691
☐ Other: _____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 11/29/18 Package Description: Cooler #2 Temperature: -1.6
Client Name: TRC Time: 18:00 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: ____
Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: 7837 9933 5248

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): ____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 1.7 °C (check one below)
[ ] Temp Blank (Stick Thermometer)
[X] Client Sample (IR Thermometer)

Melt Water: none °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: SW-R-6, SW-D-4, SW-D-3, SW-D-1

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: ____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 11/29/18 Package Description: Cooler #3 Temperature: -1.6
Client Name: TRC Time: 18:00 Logged In by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: ____
Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: 7839 9933 5215

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): ____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 2.4 °C (check one below)
[ ] Temp Blank (Stick Thermometer)
[X] Client Sample (IR Thermometer)

Melt Water: none °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: TMW-03, TMW-01, TMW-02

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: ____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 11/29/18 Package Description: Cooler #4 Temperature: -1.7
Client Name: TRC Time: 18:00 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____
Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: 7789 9933 5226

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 2.2 °C (check one below)
[ ] Temp Blank (Stick Thermometer)
[X] Client Sample (IR Thermometer)

Melt Water: None °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: DRC-02 ; SW-D-5 , Dup-01
SW-D-2

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: _____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 11/29/18 Package Description: Cooler #5 Temperature: -1.3
Client Name: TRC Time: 18:00 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____
Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: 7839 9933 5237

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 1.3 °C (check one below)
[ ] Temp Blank (Stick Thermometer)
[X] Client Sample (IR Thermometer)

Melt Water: none °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: SW-R-4, SW-R-3, SW-R-2, SW-R-1

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: _____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 11/29/18 Package Description: Cooler #6 Temperature: -1.3
Client Name: TRC Time: 18:00 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____
Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: 7840 3428 3572

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 2.8 °C (check one below)
[ ] Temp Blank (Stick Thermometer)
[X] Client Sample (IR Thermometer)

Melt Water: none °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: MW-325, PW-D-4, TMW-04, ATM-01

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: _____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 11/29/18 Package Description: Cooler #7 Temperature: 1.8
Client Name: TRC Time: 18:00 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____
Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: 7840 3428 3550

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 2.6 °C (check one below)
[ ] Temp Blank (Stick Thermometer)
[X] Client Sample (IR Thermometer)

Melt Water: none °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: TMW-05, ATM-01, TMW-05, TMW-08
MW-355,

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: _____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T18K629 Date: 11/29/18 Package Description: Cooler #8 Temperature: -0.9
Client Name: TRC Time: 18:00 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier [ ] Hand delivered [ ] Name of delivery person: _____
Commercial courier [ ] UPS [ ] FED EX [X] US Mail [ ]

Tracking Number: [ ] Not Applicable
Tracking #: 7839 9933 5704

COC Seals present and intact on cooler? [X] Not Applicable [ ] No [ ] Yes
Custody seals signed by Client? [ ] No [ ] Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice? [X]
Multiple bags of ice around samples? [ ]
Ice Packs/ Blue Ice : [ ]
No Coolant Present: [ ]

Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature

Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.8°C

Representative Sample Temperature: 3.2 °C (check one below)
[ ] Temp Blank (Stick Thermometer)
[X] Client Sample (IR Thermometer)

Melt Water: none °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	X			
Each sample point is in a sealed plastic bag?	X			
Labels filled out completely?	X			
All bottle labels agree with Chain of Custody (COC)?	X			
Sufficient sample to run tests requested?	X			
pH checked and samples at correct pH?			X	See Below*
Correct preservative added to samples?			X	
Air bubbles absent from VOAs?	X			
COC filled out properly and signed by client?	X			
COC signed in by TRACE sample custodian?	X			
Was project manager called and samples discussed?		X		

Notes: Dup-03, Dup-03, TMW-03, MW-345

*EMD pH Test Strips Used:
[ ] pH 0-2.5 Lot: HC731452 [ ] pH 11.0-13.0 Lot: HC600691
[ ] Other: _____

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Jon Mink

From: Pawlukiewicz, Scott <SPawlukiewicz@trcsolutions.com>
Sent: Friday, January 11, 2019 10:50 AM
To: Jon Mink
Cc: Amonette, Kyle; Lowery, Kristin; Culp, Barrett; Litz, Darby
Subject: 4Q18 Lab Report Revisions for LEC Carpenter
Attachments: T18K629 Complete.pdf

Jon-
During data processing, it was noted that some of the sample location naming contains errors in the LEC 4Q18 issued report. Can you please correct and reissue the report, so we can replace in all our records? This should be done by next week as we are preparing to submit the 2SA18 report for client review. Noted changes include:

1. TWM-01(F) and TWM-02(F) should be TMW-01(F) and TMW-02(F).
2. PW-RR-TI-LB should be PW-RR-TI-LB-30 and PW-RR-TI-LB(F) should be PW-RR-TI-LB-30(F)

Thanks-
Scott

Scott Pawlukiewicz, PE (MI)
Project Manager/Engineer

TRC Results you can rely on

660 Cascade West Pkwy SE, Suite 105, Grand Rapids, MI 49546
T: 616.537.8445 (direct) | F: 734.971.9022 | C: 616.915.3604
LinkedIn | Twitter | Blog | www.trcsolutions.com

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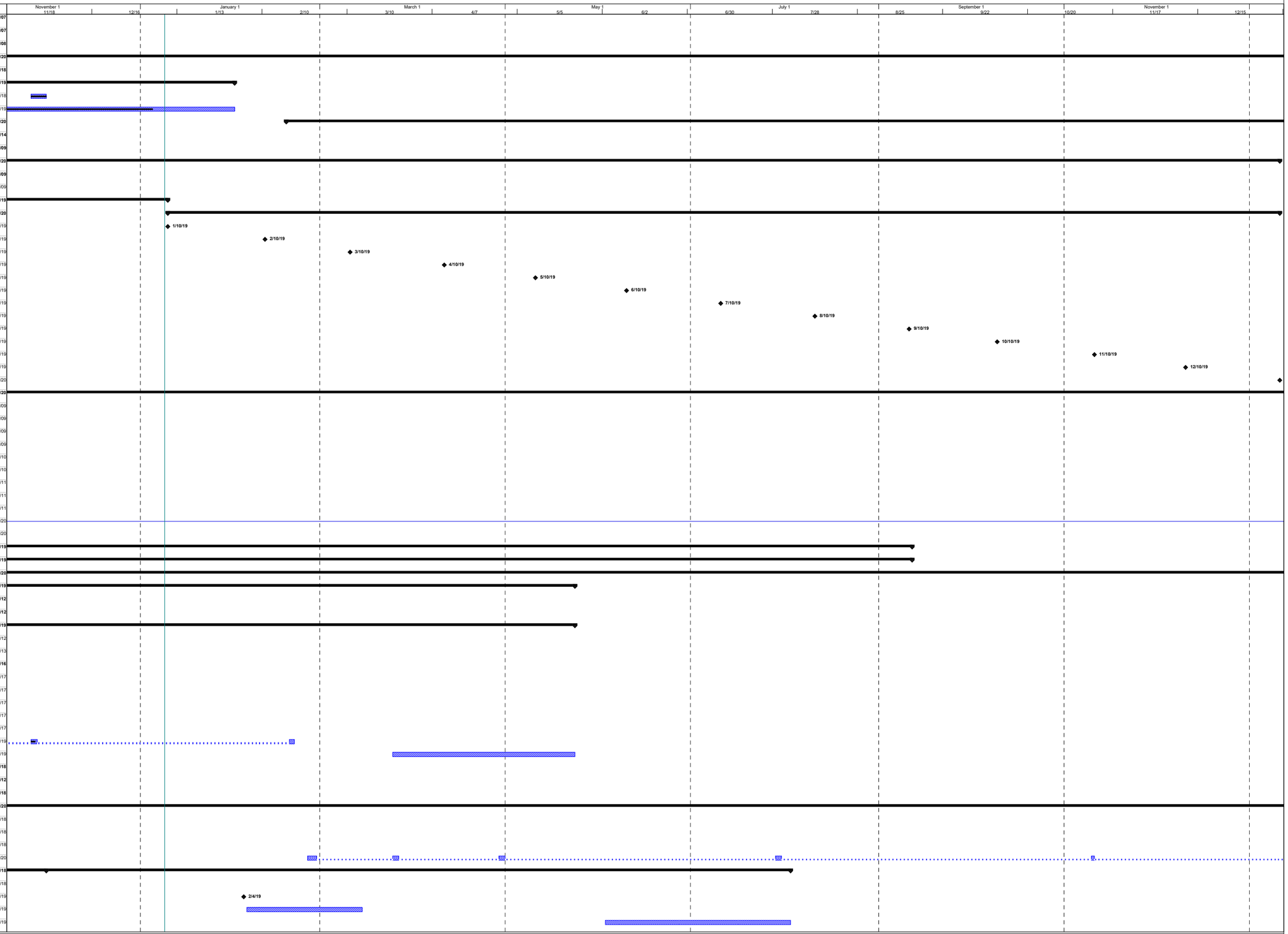
Appendix C
Project Schedule

ID	Task Name	Start	Finish
1	**SOURCE REDUCTION (Site Soils)**	**Fri 4/16/04**	**Fri 9/14/07**
12	**USEPA ESD (Site Soils)**	**Tue 7/10/07**	**Wed 10/24/07**
15	**POST REMEDIAL MONITORING PLAN [PRMP] IMPLEMENTATION**	**Fri 7/1/05**	**Sat 4/12/08**
111	**QUARTERLY MONITORING AND REPORTING**	**Mon 2/27/06**	**Fri 1/31/20**
112	**2006 through 2017**	**Mon 2/27/06**	**Fri 9/7/18**
214	**2018 Monitoring and Reporting**	**Mon 9/24/18**	**Thu 1/31/19**
215	Conduct 4Q18 Monitoring Event	Mon 11/26/18	Fri 11/30/18
216	Prepare and Submit 2nd Semi-annual 2018 Monitoring Report	Mon 9/24/18	Thu 1/31/19
217	**2019 Monitoring and Reporting**	**Mon 2/18/19**	**Fri 1/31/20**
224	**WETLAND AREA [WHARTON ENTERPRISES] MONITORING AND REPORTING**	**Fri 6/24/05**	**Fri 12/12/14**
268	**REMEDIAL INVESTIGATIONS (RI) (NJDEP LEAD)**	**Mon 2/27/06**	**Thu 8/6/09**
284	**USEPA UAO & SOW**	**Fri 4/18/08**	**Fri 1/10/20**
285	**Active Discussion and Negotiation**	**Fri 4/18/08**	**Mon 8/3/09**
294	**USEPA Assumes Lead Agency Role [UAO/SOW Effective Date]**	Thu 8/6/09	Thu 8/6/09
295	**2009 through 2018 Progress Reports**	**Wed 9/9/09**	**Thu 1/10/19**
407	**2019 Progress Reports**	**Thu 1/10/19**	**Fri 1/10/20**
408	Progress Report No. 103 (December 1, 2018 to December 31, 2018)	Thu 1/10/19	Thu 1/10/19
409	Progress Report No. 104 (January 1, 2019 to January 31, 2019)	Sun 2/10/19	Sun 2/10/19
410	Progress Report No. 105 (February 1, 2019 to February 28, 2019)	Sun 3/10/19	Sun 3/10/19
411	Progress Report No. 106 (March 1, 2019 to March 31, 2019)	Wed 4/10/19	Wed 4/10/19
412	Progress Report No. 107 (April 1, 2019 to April 20, 2019)	Fri 5/10/19	Fri 5/10/19
413	Progress Report No. 108 (May 1, 2019 to May 31, 2019)	Mon 6/10/19	Mon 6/10/19
414	Progress Report No. 109 (June 1, 2019 to June 30, 2019)	Wed 7/10/19	Wed 7/10/19
415	Progress Report No. 110 (July 1, 2019 to July 31, 2019)	Sat 8/10/19	Sat 8/10/19
416	Progress Report No. 111 (August 1, 2019 to August 31, 2019)	Tue 9/10/19	Tue 9/10/19
417	Progress Report No. 112 (September 1, 2019 to September 30, 2019)	Thu 10/10/19	Thu 10/10/19
418	Progress Report No. 113 (October 1, 2019 to October 31, 2019)	Sun 11/10/19	Sun 11/10/19
419	Progress Report No. 114 (November 1, 2019 to November 30, 2019)	Tue 12/10/19	Tue 12/10/19
420	Progress Report No. 115 (December 1, 2019 to December 31, 2019)	Fri 1/10/20	Fri 1/10/20
421	**RA WORK PLAN (RAWP) ADDENDUM**	**Thu 8/6/09**	**Fri 12/4/20**
422	RA Work Plan Addendum Preparation	Thu 8/6/09	Tue 9/15/09
423	USEPA & NJDEP Review and Comment on the RA Work Plan Addendum	Fri 9/4/09	Mon 12/21/09
424	Response to USEPA & NJDEP RA Work Plan Addendum Comments on MW19HS1 Soil Remediation	Tue 12/22/09	Tue 12/29/09
425	USEPA Approval of MW19HS1 Soil Remediation (RA Work Plan Addendum and Response to Comments)	Wed 12/30/09	Wed 12/30/09
426	Response to USEPA & NJDEP Comments on the MW-30 Investigation	Mon 1/4/10	Mon 2/1/10
427	USEPA Approval of the MW-30 Investigation (Response to Comments)	Tue 2/2/10	Mon 2/22/10
428	Prepare and submit Revised RAWP Addendum	Fri 4/1/11	Fri 7/8/11
429	USEPA review of Revised RAWP Addendum	Tue 7/12/11	Wed 9/28/11
430	Response to USEAP & NJDEP Comments on the Revised RAWP Addendum	Thu 9/29/11	Fri 10/28/11
431	Prepare and submit Final RAWP Addendum	Mon 6/22/20	Fri 9/11/20
432	USEPA review and approval of Final RAWP Addendum	Mon 9/14/20	Fri 12/4/20
433	**COMMUNITY INVOLVEMENT PLAN (CIP)**	**Wed 8/26/09**	**Wed 9/11/19**
438	**QUALITY ASSURANCE PROJECT PLAN (UFP-QAPP)**	**Mon 12/21/09**	**Wed 9/11/19**
440	**RA WORK PLAN (RAWP) ADDENDUM IMPLEMENTATION**	**Mon 11/17/08**	**Tue 6/23/20**
441	**MW-30 AOC**	**Mon 3/1/10**	**Thu 5/23/19**
442	**Remedial Investigation (RI)**	**Mon 11/29/10**	**Thu 8/23/12**
451	**Treatability Study**	**Wed 2/1/12**	**Tue 4/3/12**
453	**Pilot Phytoremediation Design/Implementation**	**Thu 9/13/12**	**Thu 5/23/19**
454	Design	Thu 9/13/12	Wed 10/24/12
455	Access Agreements	Thu 10/25/12	Wed 2/27/13
456	**Implementation and Monitoring**	**Mon 4/1/13**	**Fri 7/29/16**
465	Phytoremediation Pilot Report	Wed 11/30/16	Fri 2/3/17
466	Receipt of Agency Comments	Fri 4/14/17	Fri 4/14/17
467	Response to Agency Comments	Mon 4/17/17	Tue 5/2/17
468	Receipt of Agency Approval on Responses #2 and #3	Wed 5/24/17	Wed 5/24/17
469	Installation of Temporary Monitoring Points	Mon 6/26/17	Fri 6/30/17
470	8 quarterly monitoring events for Temporary Monitoring Points	Mon 7/10/17	Wed 2/20/19
471	Update of Phytoremediation Pilot Report	Mon 3/25/19	Thu 5/23/19
472	**Ecological Evaluation of the Rockaway River and Eastern Drainage Ditch**	**Wed 11/18/15**	**Fri 2/9/18**
486	**MW19HS1 AOC**	**Mon 11/17/08**	**Tue 10/2/12**
523	**MNA**	**Mon 2/15/10**	**Fri 9/14/18**
530	**MW-19HS1 Pilot Study**	**Tue 2/27/18**	**Tue 6/23/20**
531	Bacteria Sampling for MW-19HS1 Pilot Study	Tue 2/27/18	Tue 2/27/18
532	MW-19-5R well replacement	Mon 4/2/18	Mon 4/2/18
533	MW-19HS1 Pilot Study Workplan	Mon 10/1/18	Thu 11/8/18
534	MW-19HS1 Pilot Study	Mon 2/25/19	Tue 6/23/20
535	**Focus Feasibility Study for EDD & MW-30 GW**	**Fri 6/1/18**	**Fri 11/30/18**
536	Focused Feasibility Study for EDD & MW-30 GW	Mon 6/25/18	Fri 9/28/18
537	Agency Comments	Mon 2/4/19	Mon 2/4/19
538	Response to Agency Comments	Tue 2/5/19	Thu 3/14/19
539	FFS & MNA Addendum	Mon 6/3/19	Fri 8/2/19



Wed 1/8/19

Task | Split | Milestone | Summary | Rolled Up Task | Rolled Up Split | Rolled Up Milestone | Rolled Up Progress | External Tasks | Project Summary | External Milestone | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | Progress | Deadline

edays: elapsed days or calendar days