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March 28, 2019
Project 2004-004.002

Ms. Jing Song
Washington Department of Ecology -
Toxic Cleanup Program, NWRO
3190 160th Avenue Southeast
Bellevue, Washington 98008

Re: First Quarter 2019 Groundwater Monitoring Report, Former Provisioner's Express, Inc. Facility, 2102 West Valley Highway North, Auburn, Washington, Ecology Facility ID 91612121, Cleanup Site ID 6847, VCP Project No. 3206

Dear Ms. Song:

Environmental Technologies Group, Inc. (ETG), on behalf of Commerce Road Terminals, LLC (CRT), has prepared this groundwater monitoring report to provide the results of first quarter 2019 groundwater monitoring completed at the former Provisioner's Express, Inc. (Provisioner's) facility (Site) located at 2102 West Valley Highway North in Auburn, Washington. This report presents the details and findings of the groundwater monitoring activities conducted at the Site on February 19, 2019, and the new groundwater monitoring well installation conducted on January 25, 2019.

SITE DESCRIPTION

The former Provisioner's facility is located at 2102 West Valley Highway North Auburn, Washington, east of the intersection of 22nd street Northwest and West Valley Highway North, northwest quarter of Section 12, Township 21 North, Range 4 East, Willamette Meridian in King County, Washington (Figure 1). The property is listed as Tax Parcel No. 1221049034, and the zoning is designated M-1, Light Industrial.

The facility is currently operated by Estes Express Lines (Estes), a motor freight transportation company. Estes uses the Site as a trucking terminal that includes a maintenance garage. There are currently no active underground storage tanks (USTs) on the facility.

The property is fully paved or covered by buildings and has a storm water conveyance system consisting of catch basins that are connected to an oil/water separator through underground piping with discharge to the municipal sewer system. Pavement is primarily asphalt with concrete pads surrounding the on-Site buildings and loading bays.

The topography of the property is relatively flat with an approximate elevation of 65 feet above mean sea level (msl). Mill Creek and the White River Park Wetland System are the nearest surface water bodies and are located approximate 200 feet to the southeast of the Site. A drainage ditch flowing to the White River Park Wetland System is present near the south property boundary, approximately 40 feet south of the Site. The property and the Site are separated from Mill Creek and the White River Park Wetland System by an adjoining property. The nearest major surface water body, the Green River, is located approximately 1.7 miles east of the Site.

The property contains a single Washington Department of Ecology (Ecology) Model Toxics Control Act (MTCA) site that is defined by the lateral and vertical extent of soil and groundwater impacted by diesel and oil range petroleum hydrocarbons (TPH-d and TPH-o) at concentrations greater than applicable MTCA Method A Cleanup Levels (CULs). Under the MTCA program, the Facility Site Identification No. is 91612121, Cleanup Site Identification No. is 6847, and in July 2018 the Voluntary Cleanup Program (VCP) number was change from NW2532, to VCP No. 3206 when CRT became responsible for the Site cleanup.

BACKGROUND

Soil and groundwater at the Site were impacted by petroleum hydrocarbon releases from conveyance piping related to a 550-gallon used oil UST located near the northwest corner of the truck maintenance building (Figure 2). The UST and approximately 350 cubic yards of petroleum-contaminated soil (PCS) were removed for disposal off-Site, and four monitoring wells, designated MW-1, MW-2, MW-3, and MW-4, were constructed in December 1998 (EMR, 1999).

In January 2000, Ecology issued a conditional No Further Action (NFA) determination for the Site. The NFA contained the condition that quarterly groundwater monitoring and reporting be continued until the *site demonstrates sustained, continuous compliance with Model Toxics Control Act (MTCA) Groundwater Cleanup Levels (CULs) for at least one year*. The NFA also stipulated that analytical results for groundwater compliance *shall include BTEX {benzene, toluene, ethylbenzene, and xylene), diesel, and heavy oils*. Available records indicate that the monitoring wells were sampled approximately every quarter from December 1998 until October 2002.

In November 2002, the Site owner petitioned for a full NFA determination based on three (3) years of data demonstrating that benzene groundwater concentrations greater than MTCA Method A CULs was confined to the area on the north side of the maintenance building around MW-2. At that time, the sample collected from MW-2 had a gasoline range petroleum hydrocarbon (TPH-g) concentration of 180 micrograms per liter (µg/L) and a benzene concentration of 12.0 µg/L. The reported TPH-g concentration was less than the MTCA Method A CUL of 800 µg/L. However, the benzene concentration exceeded the MTCA Method A CUL of 5 µg/L. No other BTEX compounds, TPH-d, or TPH-o were reported in the sample collected from MW-2.

Reported contaminant concentrations for the samples collected from the remaining monitoring wells were also below MTCA Method A CULs.

Groundwater sampling was discontinued in late 2002 and the Site did not receive a full NFA determination, due to the benzene concentration exceeding the MTCA Method A CUL in the samples from MW-2. Records indicate that the Site was subsequently dropped from Ecology's VCP due to inactivity.

The Site re-entered the VCP in August 2011 and was assigned VCP No. NW 2532. Quarterly groundwater sampling of the four on-Site wells was resumed in August 2011. On March 26, 2012, Ecology notified the Site owner that the January 2000 conditional NFA determination was rescinded because the benzene concentrations in groundwater samples collected from well MW-2 remained greater than the MTCA Method A CUL and the previous groundwater remedy (excavation of petroleum impacted soils followed by groundwater monitoring) did not achieve and maintain compliance with the applicable MTCA Method A CULs.

On November 28, 2012, a 12,000-gallon diesel fuel UST was decommissioned by removal south of the truck maintenance building (Figure 2). According to available information, the UST was emptied and removed from service in 1998 when the 550-gallon waste oil UST was decommissioned, and had not been operated between 1998 and 2012. EPI personnel oversaw the UST decommissioning activities and collected nine (9) soil samples and a water sample from the excavation. The diesel contaminated water was reported in the water from the excavation, and was reportedly rinsate from the UST that was spilled as the UST was removed from the excavation due to improper rigging and hoisting. EPI prepared the *Underground Storage Tank Site Assessment Report* (EPI, 2013a), dated January 4, 2013, for submittal to Ecology's Underground Storage Tank Division.

In an opinion letter dated April 22, 2013, Ecology requested installation of two additional monitoring wells designated MW-5 and MW-6. Well MW-5 was installed at the southwest corner of the truck maintenance building, near the on-Site oil/water separator (OWS), to monitor groundwater downgradient of MW-1. Well MW-6 was installed at the southeast corner of the former 12,000-gallon diesel UST excavation to evaluate groundwater quality based on the reported petroleum hydrocarbon concentrations in a water sample collected from the in the UST excavation (EPI, 2013b).

In October 2013, EPI performed a site investigation at Ecology's request. The investigation included advancing nine (9) direct-push soil borings DP-1 through DP-9 (Figure 2); five were located around MW-1 and four were located downgradient of MW-6. Laboratory analytical results indicated soil impacts around MW-1 were limited to location DP-3, which was immediately adjacent to the exterior wall of the northwest corner of the Truck Maintenance Building. This result was anticipated because a small quantity of impacted soil was left in place immediately under the truck maintenance building footings to maintain geotechnical stability during impacted soil

excavation. None of the remaining soil samples had detections for petroleum hydrocarbons (EPI, 2013b).

On August 26, 2016, EPI directed the advancement of two soil borings, designated BH-1 and BH-2 for soil sample collection, and construction of two conditional point of compliance (POC) monitoring wells, designated MW-7 and MW-8. BH-1 and BH-2 were advanced east of the former 12,000-gallon diesel UST to evaluate subsurface conditions immediately downgradient of the former UST. Well MW-7 was installed southeast and downgradient of the former 12,000-gallon diesel UST and existing well MW-6. Well MW-8 was installed northeast of MW-7, also downgradient of the former 12,000-gallon diesel UST and existing well MW-6. The purpose of the POC monitoring wells was to monitor groundwater conditions downgradient of the former 12,000-gallon diesel UST (EPI, 2017a). The soil boring and monitoring wells locations are presented on Figure 2.

On August 11, 2017, monitoring well MW-9 was installed by Holt Services near the northwest corner of the truck maintenance building (Figure 2). The additional well was requested by CRT as part of their environmental due diligence prior to their purchase of the property. Historical direct-push sampling data from this location indicated TPH-d and TPH-o was above MTCA Method A in a groundwater sample collected from the boring (EPI, 2017b).

On May 17, 2018, during collection of depth-to-water measurements, asphalt sealant was encountered in the monument for MW-8. After removal of the asphalt sealant, it was discovered that the locking expansion plug for the monitoring well was loose, and that asphalt sealant had seeped past the expansion plug. Visible material was skimmed from the well surface and the monitoring well was purged of approximately 30 gallons of groundwater prior to sampling. TPH-d and TPH-o were reported above MTCA Method A cleanup levels in the groundwater sample collected on May 17, 2018.

On June 5, 2018, ETG cleaned the casing for monitoring well MW-8, using clean absorbent pads to wipe the well casing. Following cleaning, the well was developed by extracting water with a development pump beginning at the top of the groundwater surface and lowering the pump as groundwater dropped in elevation. This process was repeated approximately 15 times until the purge water no longer changed in color between purging events. A total of 25 gallons of groundwater was removed from the well. The well was resampled following cleaning and development. Though significant reduction in TPH-d and TPH-o concentrations were reported, laboratory analytical results still reported TPH-d and TPH-o above MTCA Method A cleanup levels in the groundwater sample.

On September 17, 2018, ETG submitted *Groundwater Assessment Work Plan* (ETG, 2018) proposing the construction of a new groundwater monitoring well downgradient of MW-8. Ecology approved the groundwater monitoring well location in an Opinion Letter dated December 20, 2018 (Ecology, 2018).

Remedial System

In 2014, because groundwater data indicated that natural attenuation of the residual TPH-d and TPH-o impacts was not occurring at a rate that would result in a reasonable restoration timeframe, an active groundwater remediation system was designed, installed, and operated for the area around MW-1 as described in the following.

In May 2014, EPI installed three shallow air injection (AI) wells at locations upgradient of MW-1 (Figure 2) to add dissolved oxygen (DO) to the groundwater. The increased DO concentrations in groundwater would stimulate existing aerobic bacteria by providing the oxygen necessary for those bacteria to metabolize dissolved petroleum hydrocarbons in groundwater at a higher rate.

Each of the shallow AI well was equipped with a 1-foot section of Kerfoot Technologies C-Sparger® screen set in a sand filter pack and set below groundwater at approximately 14 to 15 feet bgs. Pressurized air pumped through the C-Sparger® screens forces air, containing oxygen, into groundwater as microbubbles, greatly increasing the surface area of the bubbles for more efficient oxygenation of the groundwater. The remaining well annulus was sealed using hydrated bentonite chips and the surface was completed with 8-inch diameter flush-mount steel monuments set in concrete.

An appropriately-sized rotary vane air compressor was installed in the fenced area at the north end of the truck maintenance building to provide air to the shallow air injection wells. The shallow air injection wells are connected to the compressor using 1-inch diameter polyvinyl chloride (PVC) piping installed below grade to each of the well monuments. PVC air supply lines were installed in trenches that were appropriately backfilled and patched with asphalt at the surface to match the surrounding grade.

The remediation system was started and tested on May 15, 2014 after quarterly groundwater monitoring was completed. An electrical issue with the compressor's motor caused the air injection remediation system to shut down in August 2014. Analytical results from the August 2014 monitoring event indicated that TPH-d and TPH-o concentrations were not reported, at or above laboratory method reporting limits (MRLs) in the sample from MW-1. Based on the favorable result, remediation system operation was suspended at MW-1 from August 2014 to April 2015 so that groundwater data could be collected to demonstrate that groundwater was remediated to concentrations below Ecology MTCA Method A Groundwater CULs, and to provide data intended to demonstrate that contaminant concentration rebound was not occurring.

The positive response to operation of the air injection remediation system at MW-1 demonstrated that expansion to remediate impacted groundwater at MW-6 was warranted. In January 2015, EPI installed three additional shallow AI wells at locations upgradient of MW-6 (Figure 2). The three wells are constructed like the air injection wells at MW-1, equipped with 1-foot lengths of Kerfoot Technologies C-Sparger® screen set in a sand filter pack and set below groundwater at approximately 14 to 15 feet bgs.

Operation of the expanded air injection remediation system at MW-6 was initiated on April 3, 2015. The expanded system at MW-6 ran from April until June 2015 when a new electrical issue with the compressor's motor caused the air injection remediation system to shut down, requiring replacement.

Repairs to the air injection system were completed and the remediation system was restarted on February 3, 2016. However, the system was not operational during the June 21, 2016 groundwater monitoring event, and inspection revealed that the compressor motor was damaged due to overheating. EPI was informed that the system had been off for several weeks prior to the monitoring event.

EPI evaluated the potential reasons for the compressor motor overheating and the likely cause was low voltage power throughout the area, which was measured at 208 volts at the air injection system panel. The actual voltage was lower than the design voltage of 220-230 volts. EPI concluded that although the compressor motor was rated to operate at 208 volts, voltage fluctuations below 208 volts caused high amperage on the motor, resulting in excessive heat that eventually burned-out the motor.

In November 2016, EPI installed a 1.5 horsepower, Republic Manufacturing, Model DRT-425 rotary vane compressor with a 208-volt-specific motor. Compressor operation was started on November 16, 2016. The system was operational before, and after the December 20, 2016 groundwater monitoring event. Sometime between the December 20, 2016 monitoring event and a Site visit by EPI personnel on March 20, 2017, the air injection system shut down. On March 20, 2017, EPI personnel inspected the compressor and determined that the rotary vanes were destroyed and required replacement. The compressor repair work was completed under warranty at the manufacturer's facility.

The repaired compressor was reconnected and returned to service on June 19, 2017. Both areas of the air injection system MW-1 and MW-6, were back in operation following the completion of groundwater monitoring on June 19, 2017.

Since installation in 2015, air injection well AI-6, located near monitoring well MW-6, consistently had little to no air flow. EPI tested, evaluated, and attempted to increase air flow through this point with no measurable improvement and determined that the well was plugged and unrepairable. On June 26, 2017, Holocene Drilling, under EPI direction, decommissioned AI-6 per Ecology requirements and replaced it with air injection well AI-6R.

The air injection system was inspected during a Site visit by EPI on December 14, 2017 and again during quarterly monitoring on December 20, 2017 and was operating as designed with no excessive heat or mechanical issues noted. EPI returned to the property on January 2, 2018 to re-sample wells MW-4, MW-6, and MW-6 and noted that the air compressor was not running. The compressor was replaced, and the air injection system re-started (EPI, 2018).

The air injection system continued to operate since January 2018, with the exception of maintenance events and prior to groundwater monitoring events. Based on the November 2018 monitoring results, air injection system operation was suspended on December 6, 2018.

MONITORING WELL CONSTRUCTION

Consistent with the Ecology approved *Groundwater Assessment Work Plan* (ETG, 2018), a new groundwater monitoring well was constructed downgradient of MW-8, developed, surveyed, and sampled. The following presents details regarding the new monitoring well.

Soil Boring and Sample Collection

On January 25, 2019, Steadfast Services Northwest, LLC of Vancouver, Washington, a licensed Washington well installer, advance with 8-1/2-inch diameter hollow-stem auger, one (1) soil boring to depth of 13 feet bgs to construct a groundwater monitoring well. Due to drilling equipment availability, direct-push drilling was not used for the boring as proposed in the work plan. The soil boring was advanced approximately 10 feet west-southwest of well MW-8, down-gradient of the well. The location is presented on Figure 2.

A soil sample was collected between 2.8 and 3.8 feet bgs above the soil/groundwater interface. The portion of the soil sample scheduled for volatile organic compounds (VOCs) analysis was field preserved utilizing a United States Environmental Protection Agency (USEPA) Method 5035 kits provided by the analytical laboratory. The portion of each soil sample scheduled for TPH-d and TPH-o analysis, total lead, carcinogenic polynuclear aromatic hydrocarbons (cPAHs), and polychlorinated biphenyls (PCBs) was placed in an 8-ounce laboratory-supplied container. The sample was labeled, and placed in an iced cooler and shipped under chain-of-custody (COC) procedures to Pace Analytical Services, Inc. (PACE) in Minneapolis, Minnesota for analysis. For quality assurance/quality control (QA/QC) purposes, a laboratory prepared trip blank was maintained with the sample at all times.

During drilling activities, the soil cuttings and water used to clean samplers and drilling equipment was stored on-Site in a United States Department of Transportation (USDOT) 55-gallon drum, pending off-Site disposal.

Well Construction

The groundwater monitoring well was constructed using 2-inch diameter flush-threaded, schedule 40 polyvinyl chloride (PVC) blank casing and 10 feet of pre-packed 0.010-inch slotted PVC casing. The top of screen was set at approximately 3 feet bgs, and the well was completed with a flush-mounted, traffic-rated monument. The well construction diagram for the groundwater monitoring well is presented in Attachment A.

Well Development

On February 19, 2019, the new groundwater monitoring well was developed by surging and then pumping. The well was considered developed when at least 3 borehole volumes of water had been removed and the turbidity decreases noticeably. Development water was stored in USDOT 55-gallon drums pending disposal off-Site. The well development data sheet is provided as Attachment B.

Well Survey

On February 5, 2019, PACE of Kirkland, Washington, a Washington Land Surveyor, surveyed the top of casing and top of box elevation, as well as the northerly and easterly location for new monitoring well MW-10. The well was surveyed to the North American Vertical Datum (NVAD) of 1988, consistent with the existing wells that were surveyed in August 2017.

Soil Analytical Results

The soil sample collected from the soil boring for MW-10 was analyzed for TPH-d and TPH-o by Ecology Method NWTPH-Dx, VOCs by USEPA Method 8021B/8260B, PCBs by USEPA Method 8082A, cPAHs including naphthalene, 1-methyl naphthalene and 2-methyl naphthalene by USEPA Method 8082A, and total lead by USEPA Method 6020. A summary laboratory analytical results for the soil sample collected from the soil boring during the installation of monitoring well MW-10 on January 25, 2019 is provided in Table 1 along with Ecology MTCA Method A CULs for comparison. A copy of the laboratory analytical report is provided as Attachment C.

Analytical results for the soil sample collected from MW-10 on January 25, 2019 indicated the following:

Diesel Range Hydrocarbons

- TPH-d was not reported at, or above, the laboratory MRL in the soil sample collected from the soil boring for monitoring well MW-10. The laboratory MRL was below the Ecology MTCA Method A CUL.

Oil Range Hydrocarbons

- TPH-o was reported at 20.7 milligrams per kilogram (mg/kg), but below the Ecology MTCA Method A CUL (2,000 mg/kg) in the soil sample collected from the soil boring for monitoring well MW-10.

VOCs

VOCs were not reported at, or above, their respective laboratory MRLs in the soil sample collected from the soil boring for monitoring well MW-10. All laboratory MRLs were below the Ecology MTCA Method A CULs.

Total Lead

- Total lead was reported at 2.6 mg/kg, but below the Ecology MTCA Method A CUL (250 kg/mg) in the soil sample collected from the soil boring for monitoring well MW-10.

cPAHs

- cPAHs were not reported at, or above, their respective laboratory MRLs in the soil sample collected from the soil boring for monitoring well MW-10. All laboratory MRLs were below the Ecology MTCA Method A CULs.

PCBs

- PCBs were not reported at, or above, their respective laboratory MRLs in the soil sample collected from the soil boring for monitoring well MW-10. All laboratory MRLs were below the Ecology MTCA Method A CULs.

Groundwater Monitoring

On February 19, 2019, ETG conducted a groundwater monitoring event which included collection of depth-to-water measurements from monitoring wells MW-1 through MW-10. As requested by Ecology, groundwater samples were collected from monitoring wells MW-3, MW-6, MW-8, MW-9 and MW-10. Depth-to-water measurements and groundwater elevation data are provided in Table 2. Operation of the air injection system was suspended on December 6, 2018 and has not operated since that date.

Monitoring Procedures

During the monitoring event, groundwater samples were collected utilizing "low-flow" sampling techniques in general accordance with the USEPA *Low-Flow Groundwater Monitoring Procedures* (USEPA, 1996). Prior to sampling, depth-to-water measurements were used to determine the static water level in each well. During purging, field parameters including: pH, conductivity, temperature, oxidation-reduction (Redox), and dissolved oxygen were measured utilizing a flow-through cell. Groundwater samples were collected after at least three sequential field parameter readings had stabilized to within the limits specified in the USEPA procedure and the water level was below the top of the screened interval. Field sampling data, including depth-to-water at the completion of sampling were recorded on field sampling data sheets (FSDSs). Copies of FSDSs are provided in Attachment D.

Groundwater samples were collected from disposable discharge tubing connected to the peristaltic pump and transferred directly to laboratory-supplied containers with as little agitation as possible. Groundwater samples were labeled with a unique blind code and delivered in an iced cooler using COC procedure to PACE in Minneapolis, Minnesota. For QA/QC purposes, a laboratory prepared trip blank was maintained with the samples at all times.

All groundwater samples were analyzed for TPH-d and TPH-o by Ecology Method NWTPH-Dx. The sample collected from monitoring well MW-9 was also analyzed for TPH-g by Ecology Method NWTPH-Gx and BTEX by USEPA Method 8021B/8260B. The sample collected from MW-10 was also analyzed for TPH-g by Ecology Method NWTPH-Gx, VOCs by USEPA Method 8021B/8260B, PCBs by USEPA Method 8082A, cPAHs including naphthalene, 1-methyl naphthalene and 2-methyl naphthalene by USEPA Method 8082A, and total lead by USEPA Method 6020. For QA/QC purposes, a duplicate groundwater sample was collected from monitoring well MW-3.

All purge water, development water, and decontamination water was stored on-Site in USDOT approved 55-gallon drums pending proper off-Site disposal.

Groundwater Elevation and Flow Direction

Based on the depth-to-water measurements collected on February 19, 2019 from the ten (10) shallow monitoring wells, a groundwater elevation contour map was generated for the Site (Figure 3) using field measurements and data from well surveys completed on November, 2017 (MW-1 through MW-9) and February 5, 2019 (MW-10). Groundwater elevation data indicated a predominantly east-southeast groundwater flow direction, consistent with prior monitoring events. The horizontal groundwater gradient was calculated to be less than 0.01 feet per foot (ft/ft) during the February 19, 2019 groundwater monitoring event.

Groundwater Analytical Results

A summary of laboratory analytical results for groundwater samples collected from monitoring wells MW-3, MW-6, MW-8, MW-9, and MW-10 on February 19, 2019 are provided in Tables 3 and 4 along with Ecology MTCA Method A CULs for comparison. TPH-d and TPH-o analytical results are also presented on Figure 4. A copy of the laboratory analytical report is provided as Attachment E.

Analytical results for groundwater samples collected from monitoring wells MW-3, MW-6, MW-8, MW-9 and MW-10 on February 19, 2019 indicated the following:

Gasoline Range Hydrocarbons

- TPH-g was not reported at, or above, the laboratory MRL in the groundwater samples collected from monitoring wells MW-9 and MW-10. All laboratory MRLs were below the Ecology MTCA Method A CUL.

Diesel Range Hydrocarbons

- TPH-d was reported at 470 µg/L, above the laboratory MRL, but below the Ecology MTCA Method A CUL of 500 µg/L in the groundwater sample collected from monitoring well MW-6. TPH-d was not reported at, or above, the laboratory MRL in the groundwater samples collected from monitoring wells MW-3, MW-8, MW-9, and MW-10. All laboratory MRLs were below the Ecology MTCA Method A CUL.

Oil Range Hydrocarbons

- TPH-o was not reported at, or above, the laboratory MRL in the groundwater samples collected from monitoring wells MW-3, MW-6, MW-8, MW-9, and MW-10. All laboratory MRLs were below the Ecology MTCA Method A CUL.

Total Diesel and Oil Range Hydrocarbons

- Total TPH-d and TPH-o was either, not reported at or above laboratory MRLs, or was reported below the Ecology MTCA Method A CUL (500 µg/L) in the groundwater samples collected from monitoring wells MW-3, MW-8, MW-9, and MW-10.

BTEX

- BTEX was not reported at, or above, their laboratory MRLs in the groundwater samples collected from monitoring wells MW-9 and MW-10. All laboratory MRLs were below the Ecology MTCA Method A CULs.

VOCs

VOCs were not reported at, or above, their laboratory MRLs in the groundwater sample collected from monitoring well MW-10. The laboratory MRLs were below the Ecology MTCA Method A CULs.

Total Lead

- Total lead was not reported at, or above, the laboratory MRL in the groundwater sample collected from monitoring well MW-10. The laboratory MRL was below the Ecology MTCA Method A CUL.

cPAHs

- cPAHs were not reported at, or above, their laboratory MRLs in the groundwater sample collected from monitoring well MW-10. The laboratory MRLs were below the Ecology MTCA Method A CULs.

PCBs

- PCBs were not reported at, or above, their laboratory MRLs in the groundwater sample collected from monitoring well MW-10. The laboratory MRLs were below the Ecology MTCA Method A CULs.

GROUNDWATER ANALYSIS TREND CHARTS

As requested in Ecology's Opinion Letter dated December 20, 2018 (Ecology, 2018), groundwater analysis trend charts have been prepared for monitoring wells MW-1, MW-3, MW-6, MW-8, and MW-9. Copies of the groundwater analysis trend charts are provided as Attachment F. The trend charts indicate the following:

- Laboratory analyses for samples collected from MW-1 indicate an overall declining trend, and consistently lower TPH-d and TPH-o concentrations since November 2012. Groundwater quality data for TPH-d and TPH-o were compliant with Ecology MTCA Method A for the last four quarters that samples were collected.

- Laboratory analyses for samples collected from MW-3 indicate consistent TPH-d and TPH-o concentrations below Ecology MTCA Method A CULs since sampled in August 2011, with the lone exception of the sample collected May 2018. Groundwater quality data for TPH-d and TPH-o were compliant with Ecology MTCA Method A for the last two quarters.

- Laboratory analyses for samples collected from MW-6 indicate an overall declining trend, and consistently lower TPH-d and TPH-o concentrations since August 2014. Groundwater quality data for TPH-d and TPH-o were compliant with Ecology MTCA Method A for the last three quarters.

- Laboratory analyses for samples collected from MW-8 indicate TPH-d and TPH-o concentrations have consistently decline since cleaning the spilled material from the well in June 2018. Groundwater quality data for TPH-d and TPH-o were compliant with Ecology MTCA Method A for the last three quarters.

- Laboratory analyses for samples collected from MW-9 indicate an overall declining trend since installation in September 2017. Groundwater quality data for TPH-d and TPH-o were compliant with Ecology MTCA Method A for the last two quarters.

REMEDIAL SYSTEM OPERATION

Based on the November 2018 monitoring results, air injection system operation was suspended on December 6, 2018. The air injection system has not operated since that time.

SCHEDULED ACTIONS

Groundwater monitoring will be completed during second quarter 2019. Depth-to-water measurements will be collected from monitoring wells MW-1 through MW-10. Groundwater samples will be collected from monitoring wells MW-3, MW-6, MW-8, MW-9, and MW-10 during second quarter 2019.

Laboratory analytical results for the first quarter 2019 groundwater monitoring event indicated TPH-g and BTEX were not reported above the practical quantitation limit (PQ) in the sample collected from MW-9, and that TPH-g, total lead, cPAHs, PCBs, and VOCs in were not reported above the PQLs in the sample collected from MW-10. Therefore, consistent with Ecology's Opinion Letter dated December 20, 2018 (Ecology, 2018), all

groundwater samples will only be analyzed for TPH-d and TPH-o during the second quarter groundwater monitoring event.

If there are any questions regarding this report please call.

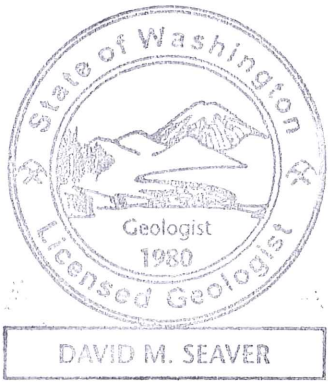
Sincerely,

Environmental Technologies Group, Inc.

Daniel J. Landry
Senior Project Manager

David M. Seaver, L.G.
Senior Geologist

Attachments: References
Limitations
Tables 1, 2, 3, and 4
Figures 1, 2, 3, and 4
Attachment A, B, C, D, E, and F



REFERENCES

Ecology. 2018. Opinion Letter – Further Action at the Following Site: Site Name: Provisioner's Express Inc., Site Address: 2102 West Valley Highway North, Auburn, Washington, 98001, Facility/Site No.: 91612121, VCP Project No.: 3206, Cleanup Site ID: 6847. State of Washington Department of Ecology. December 20.

EMR. 1999. *Remedial Investigation/Feasibility Study*, Provisioners Express Auburn Facility, 2102 West Valley Highway, Auburn, Washington. Environmental Management Resources, Inc. March.

EPI. 2013a. *Underground Storage Tank Site Assessment Report,* Estes Express Facility, 2102 West Valley Highway North, Auburn, Washington. Environmental Partners, Inc. January 4.

EPI. 2013b. *Phase II Environmental Site Assessment Report,* Estes West Express Trucking Facility, 2102 West Valley Highway North, Auburn, Washington. Environmental Partners, Inc. December 9.

EPI. 2017a. *September and December 2016 Groundwater Sampling Report – Twenty and Twenty-First Rounds*, Estes West Express Trucking Facility, 2102 West Valley Highway North, Auburn, Washington. Environmental Partners, Inc. February 24.

EPI. 2017b. *September 2017 Groundwater Sampling Report – Twenty-Fourth Round*, Estes West Express Trucking Facility, 2102 West Valley Highway North, Auburn, Washington. Environmental Partners, Inc. October 3.

EPI. 2018. *December 2017 – January 2018 Groundwater Sampling Report – Twenty-Fifth Round*, Estes West Express Trucking Facility, 2102 West Valley Highway North, Auburn, Washington. Environmental Partners, Inc. February 21.

ETG. 2018. *Groundwater Assessment Work Plan*, Former Provisioner's Express, Inc. Facility, 2102 West Valley Highway North, Auburn, Washington, Ecology Facility ID 91612121, Cleanup Site ID 6847, VCP Project No. 3206. Environmental Technologies Group, Inc. September 17.

USEPA. 1996. *Low-Flow Groundwater Monitoring Procedures*, USEPA/540/S-95/504, United States Environmental Protection Agency. April.

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

The purpose of a geologic/hydrogeologic study is to reasonably characterize existing site conditions based on the geology/hydrogeology of the area. In performing such a study, it is understood that a balance must be struck between a reasonable inquiry into the site conditions and an exhaustive analysis of each conceivable environmental characteristic. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to describe all geologic/hydrogeologic conditions of interest at a given site. If conditions have not been identified during the study, such a finding should not therefore be construed as a guarantee of the absence of such conditions at the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

We are unable to report on or accurately predict events that may change the site conditions after the described services are performed, whether occurring naturally or caused by external forces. We assume no responsibility for conditions we were not authorized to evaluate, or conditions not generally recognized as predictable when services were performed.

Geologic/hydrogeologic conditions may exist at the site that cannot be identified solely by visual observation. Where subsurface exploratory work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

Table 1
Summary of Soil Analytical Results - Diesel and Oil Range Hydrocarbons, PCBs, Total Lead, and VOCs

Sample ID	Sample Depth (ft bgs)	Date Sampled	Petroleum Hydrocarbons Ecology Method NWTPH-Dx (mg/kg)		USEPA Method 6020 (mg/kg)	USEPA Method 8082A (mg/kg)	USEPA Method 8270D (mg/kg)	USEPA Method 8260 (mg/kg)
			Diesel	Motor Oil	Total Lead	PCBs	cPAHs	VOCs
EW-012519-2.8	2.8 to 3.8	01/25/19	<15.0	20.7	2.6	All <0.0330	All <0.010	ND
MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses[a]			2,000	2,000	250	1	0.1	Various

Notes:

Ecology - Washington Department of Ecology

USEPA - United States Environmental Protection Agency

ft bgs - Feet below ground surface

mg/kg - Milligrams per kilogram

< - Not reported at, or above, the indicated laboratory method reporting limit (MRL)

PCBs - Polychlorinated Biphenyls

cPAHs - Carcineogenic Polychlorinated Aromatic Hydrocarbons

VOCs - Volatile Organic Compounds

Shaded value indicates compound was reported either at, or above the laboratory MRL

ND - Not detected

[a] Model Toxics Control Act (MTCA) Method A cleanup levels for unrestricted land uses are referenced from Table 740-1 in Ecology's November 2007 document *Model Toxics Control Act Cleanup Regulation, Chapter 173-340 WAC* .

Table 2
Groundwater Elevation Summary

Well Number/ TOC Elevation	Date of Measurement	Dissolved Oxygen (mg/L)	DTW (feet)	SWL (feet)	Change in SWL (feet)
MW-1					
100.51	12/23/98	--	5.32	95.19	--
	01/05/99	--	5.01	95.50	0.31
	01/20/99	--	4.95	95.56	0.06
	02/02/99	--	5.01	95.50	-0.06
60.77	08/12/11	--	6.12	54.65	--
	11/11/11	--	5.42	55.35	0.70
	02/10/12	--	4.76	56.01	0.66
	05/17/12	--	5.35	55.42	-0.59
	08/28/12	--	6.28	54.49	-0.93
	11/15/12	--	4.99	55.78	1.29
	02/14/13	--	5.22	55.55	-0.23
	05/16/13	--	5.42	55.35	-0.20
	08/14/13	0.21	6.17	54.60	-0.75
	11/25/13	0.29	5.06	55.71	1.11
	02/20/14	0.25	3.62	57.15	1.44
	05/15/14	0.41	4.76	56.01	-1.14
	08/14/14	7.69	7.32	53.45	-2.56
	11/24/14	0.67	5.22	55.55	2.10
	03/31/15	0.45	4.99	55.78	0.23
	06/29/15	0.15	6.23	54.54	-1.24
	09/28/15	0.40	6.37	54.40	-0.14
	03/03/16	10.71	2.18	58.59	4.19
	06/21/16	4.82	5.82	54.95	-3.64
	09/16/16	0.16	5.99	54.78	-0.17
	12/20/16	7.69	4.92	55.85	1.07
	03/24/17	1.99	3.33	57.44	1.59
	06/16/17	0.93	4.25	56.52	-0.92
	09/05/17	0.49	6.17	54.60	-1.92
	12/20/17	11.2	4.45	56.32	1.72
	05/17/18	5.90	5.50	55.27	-1.05
	08/23/18	3.37	6.54	54.23	-1.04
	11/15/18	7.77	5.40	55.37	1.14
	02/19/19	--	3.88	56.89	1.52
MW-2					
100.56	12/23/98	--	6.89	93.67	--
	01/05/99	--	5.09	95.47	1.80
	01/20/99	--	4.48	96.08	0.61
	02/02/99	--	5.09	95.47	-0.61
60.85	08/12/11	--	5.51	55.34	--
	11/11/11	--	5.13	55.72	0.38
	02/10/12	--	4.94	55.91	0.19
	05/17/12	--	5.42	55.43	-0.48
	08/28/12	--	6.40	54.45	-0.98
	11/15/12	--	5.12	55.73	1.28
	02/14/13	--	5.32	55.53	-0.20
	05/16/13	--	5.48	55.37	-0.16
	08/14/13	0.58	6.33	54.52	-0.85
	11/25/13	0.27	5.14	55.71	1.19
	02/20/14	3.08	2.23	58.62	2.91
	05/15/14	0.12	4.86	55.99	-2.63
	08/14/14	0.36	4.93	55.92	-0.07
	11/24/14	0.14	3.70	57.15	1.23
	03/31/15	2.12	5.02	55.83	-1.32
	06/29/15	0.28	6.36	54.49	-1.34
	09/28/15	0.84	6.50	54.35	-0.14
	03/03/16	1.34	2.64	58.21	3.86
	06/21/16	0.74	5.95	54.90	-3.31
	09/16/16	0.15	6.13	54.72	-0.18

Table 2
Groundwater Elevation Summary

Well Number/ TOC Elevation	Date of Measurement	Dissolved Oxygen (mg/L)	DTW (feet)	SWL (feet)	Change in SWL (feet)
MW-2 Continued	12/20/16	0.87	4.71	56.14	1.42
	03/24/17	--	3.09	57.76	1.62
	06/16/17	0.51	4.75	56.10	-1.66
	09/05/17	0.55	6.32	54.53	-1.57
	12/20/17	4.41	4.21	56.64	2.11
	05/17/18	0.56	5.60	55.25	-1.39
	08/23/18	--	6.68	54.17	-1.08
	11/15/18	--	5.44	55.41	1.24
	02/19/19	--	4.12	56.73	1.32
MW-3					
100.56	12/23/98	--	5.44	95.12	--
	01/05/99	--	5.11	95.45	0.33
	01/20/99	--	4.57	95.99	0.54
	02/02/99	--	5.11	95.45	-0.54
60.80	08/12/11	--	5.54	55.26	--
	11/11/11	--	8.90	51.90	-3.36
	02/10/12	--	5.05	55.75	3.85
	05/17/12	--	5.60	55.20	-0.55
	08/28/12	--	6.40	54.40	-0.80
	11/15/12	--	5.25	55.55	1.15
	02/14/13	--	5.38	55.42	-0.13
	05/16/13	--	5.56	55.24	-0.18
	08/14/18	0.37	6.31	54.49	-0.75
	11/25/13	0.41	5.22	55.58	1.09
	02/20/14	0.26	4.34	56.46	0.88
	05/15/14	0.77	5.03	55.77	-0.69
	08/14/14	0.29	6.28	54.52	-1.25
	11/24/14	0.05	5.21	55.59	1.07
	03/31/15	1.24	5.15	55.65	0.06
	06/29/15	0.25	6.37	54.43	-1.22
	09/28/15	0.25	6.51	54.29	-0.14
	03/03/16	1.48	4.55	56.25	1.96
	06/21/16	0.90	5.93	54.87	-1.38
	09/16/16	0.11	6.09	54.71	-0.16
	12/20/16	1.94	5.38	55.42	0.71
	03/24/17	--	4.57	56.23	0.81
	06/16/17	0.29	5.23	55.57	-0.66
	09/05/17	0.21	6.30	54.50	-1.07
	12/20/17	0.78	4.91	55.89	1.39
	05/17/18	0.71	5.63	55.17	-0.72
	08/23/18	--	6.63	54.17	-1.00
	11/15/18	1.91	5.48	55.32	1.15
	02/19/19	0.34	4.77	56.03	0.71
MW-4					
100.61	02/02/99	--	5.11	95.50	--
60.93	08/12/11	--	6.37	54.56	--
	11/11/11	--	5.65	55.28	0.72
	02/10/12	--	5.20	55.73	0.45
	05/17/12	--	5.63	55.30	-0.43
	08/28/12	--	6.50	54.43	-0.87
	11/15/12	--	5.36	55.57	1.14
	02/14/13	--	5.50	55.43	-0.14
	05/16/13	--	5.67	55.26	-0.17
	08/14/13	0.18	6.42	54.51	-0.75
	11/25/13	--	5.31	55.62	1.11
	02/20/14	0.37	4.45	56.48	0.86
	05/15/14	0.45	5.14	55.79	-0.69
	08/14/14	0.27	6.33	54.60	-1.19

Table 2
Groundwater Elevation Summary

Well Number/ TOC Elevation	Date of Measurement	Dissolved Oxygen (mg/L)	DTW (feet)	SWL (feet)	Change in SWL (feet)
MW-4 Continued	11/24/14	0.04	5.27	55.66	1.06
	03/31/15	0.98	5.27	55.66	0.00
	06/29/15	0.15	6.45	54.48	-1.18
	09/28/15	0.27	6.62	54.31	-0.17
	03/03/16	4.79	3.20	57.73	3.42
	06/21/16	0.49	6.11	54.82	-2.91
	09/16/16	0.64	6.40	54.53	-0.29
	12/20/16	0.75	6.32	54.61	0.08
	03/24/17	0.23	4.69	56.24	1.63
	06/16/17	0.24	5.36	55.57	-0.67
	09/05/17	0.58	6.39	54.54	-1.03
	12/20/17	0.75	5.00	55.93	1.39
	01/02/18	1.52	5.00	55.93	0.00
	05/17/18	0.57	5.74	55.19	-0.74
	08/23/18	--	6.73	54.20	-0.99
	11/15/18	--	5.55	55.38	1.18
	02/19/19	--	4.90	56.03	0.65
MW-5 60.90	08/14/13	0.21	6.31	54.59	--
	11/25/13	--	5.24	55.66	1.07
	02/20/14	--	4.38	56.52	0.86
	05/15/14	0.29	5.06	55.84	-0.68
	08/14/14	--	6.31	54.59	-1.25
	11/24/14	0.08	5.24	55.66	1.07
	03/31/15	1.09	5.17	55.73	0.07
	06/29/15	0.28	6.35	54.55	-1.18
	09/28/15	0.52	6.51	54.39	-0.16
	03/03/16	2.03	4.59	56.31	1.92
	06/21/16	0.40	5.96	54.94	-1.37
	09/16/16	0.10	6.11	54.79	-0.15
	12/20/16	1.09	5.16	55.74	0.95
	03/24/17	--	4.61	56.29	0.55
	06/16/17	0.30	5.27	55.63	-0.66
	09/05/17	0.51	6.27	54.63	-1.00
	12/20/17	0.93	4.92	55.98	1.35
	01/02/18	1.20	4.92	55.98	0.00
	05/17/18	0.95	5.65	55.25	-0.73
	08/23/18	--	6.58	54.32	-0.93
	11/15/18	--	5.44	55.46	1.14
	02/19/19	--	4.80	56.10	0.64
MW-6 60.76	08/14/13	0.22	6.21	54.55	--
	11/25/13	--	5.13	55.63	1.08
	02/20/14	0.29	4.27	56.49	0.86
	05/15/14	0.33	4.97	55.79	-0.70
	08/14/14	0.20	6.13	54.63	-1.16
	11/24/14	0.09	5.08	55.68	1.05
	03/31/15	0.09	5.10	55.66	-0.02
	06/29/15	0.17	6.27	54.49	-1.17
	09/28/15	0.37	6.42	54.34	-0.15
	03/03/16	0.67	4.53	56.23	1.89
	06/21/16	0.52	5.91	54.85	-1.38
	09/16/16	0.33	6.01	54.75	-0.10
	12/20/16	1.30	5.14	55.62	0.87
	03/24/17	0.18	4.52	56.24	0.62
	06/16/17	0.23	5.18	55.58	-0.66
	09/05/17	0.61	6.23	54.53	-1.05
	12/20/17	0.76	4.80	55.96	1.43

Table 2
Groundwater Elevation Summary

Well Number/ TOC Elevation	Date of Measurement	Dissolved Oxygen (mg/L)	DTW (feet)	SWL (feet)	Change in SWL (feet)
MW-6 Continued	01/02/18	0.86	4.80	55.96	0.00
	05/17/18	0.35	5.57	55.19	-0.77
	08/23/18	0.48	6.51	54.25	-0.94
	11/15/18	1.22	5.39	55.37	1.12
	02/19/19	0.39	4.69	56.07	0.70
MW-7 59.87	09/16/16	0.57	5.15	54.72	--
	12/20/16	0.72	5.27	54.60	-0.12
	03/24/17	0.23	3.68	56.19	1.59
	06/16/17	0.31	4.33	55.54	-0.65
	09/05/17	0.21	5.43	54.44	-1.10
	12/20/17	0.94	3.95	55.92	1.48
	05/17/18	0.53	4.71	55.16	-0.76
	08/23/18	--	5.67	54.20	-0.96
	11/15/18	--	4.49	55.38	1.18
	02/19/19	--	3.85	56.02	0.64
MW-8 59.70	09/16/16	0.52	5.09	54.61	--
	12/20/16	1.29	4.62	55.08	0.47
	03/24/17	0.33	3.67	56.03	0.95
	06/16/17	0.28	4.21	55.49	-0.54
	09/05/17	0.34	5.31	54.39	-1.10
	12/20/17	1.39	3.78	55.92	1.53
	05/17/18	0.62	4.66	55.04	-0.88
	06/05/18	0.67	5.90	53.80	-1.24
	08/23/18	0.93	5.56	54.14	0.34
	11/15/18	2.03	4.44	55.26	1.12
	02/19/19	0.41	3.73	55.97	0.71
MW-9 60.91	09/05/17	0.38	6.33	54.58	--
	12/20/17	4.73	4.73	56.18	1.60
	05/17/18	0.67	5.64	55.27	-0.91
	08/23/18	1.03	6.69	54.22	-1.05
	11/15/18	0.84	5.50	55.41	1.19
	02/19/19	0.48	4.70	56.21	0.80
MW-10 59.80	02/19/19	0.69	4.09	55.71	--

Notes:

TOC - Top of casing
mg/L - Milligrams per liter
DTW - Depth to water
-- - Not applicable/Not measured
SWL - Static water level
NC - Not collected

Wells MW-1 thru MW-4 surveyed to an arbitary datum of 100 feet in 1998.
Wells MW-1 through MW-9 surveyed to the North American Vertical Datum of 1988 (NAVD 88) on September 19, 2017 and MW-10 on February 5, 2019.

Table 3
Summary of Groundwater Analytical Results

			Ecology Method NWTPH-Gx (µg/L)	Ecology Method NWTPH-Dx (µg/L)			Volatile Organic Compounds USEPA Method 8021B/8260B (µg/L)			
Well ID	**Sample ID**	**Collection Date**	**TPH-g**	**TPH-d**	**TPH-o**	**Total TPH (C_{12} - C_{36})**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**
MW-1	MW-1	12/23/1998	--	<250	<500	<500	--	--	--	--
	NA	8/12/2011	<100	<250	<500	<500	<1	<1	<1	<3
	NA	11/11/2011	<100	**1,500**	300	**1,800**	<1	<1	<1	<3
	NA	2/10/2012	<100	**690**	<250	**690**	<1	<1	<1	<3
	NA	5/17/2012	<100	**1,100**	480	**1,580**	<1	<1	<1	<3
	NA	8/28/2012	<100	**1,200**	**820**	**2,020**	<1	<1	<1	<3
	NA	11/15/2012	<100	**2,700**	**1,200**	**3,900**	<1	<1	<1	<3
	NA	2/14/2013	<100	**1,600**	**510**	**2,110**	<1	<1	<1	<3
	NA	5/16/2013	<100	**1,500**	340	**1,840**	<1	<1	<1	<3
	NA	8/14/2013	<100	**1,100**	290	**1,390**	<1	<1	<1	<3
	NA	11/25/2013	--	**1,400**	400	**1,800**	--	--	--	--
	NA	2/20/2014	--	**700**	280	**980**	--	--	--	--
	NA	5/15/2014	--	**940**	<250	**940**	--	--	--	--
	NA	8/14/2014	--	<50	<250	<250	--	--	--	--
	NA	11/24/2014	--	220	<250	220	--	--	--	--
	NA	3/31/2015	--	340	<250	340	--	--	--	--
	NA	6/29/2015	--	240	<250	240	--	--	--	--
	NA	9/28/2015	--	**700**	290	**990**	--	--	--	--
	NA	3/3/2016	--	220	<250	220	--	--	--	--
	NA	6/21/2016	--	160	<250	160	--	--	--	--
	NA	9/16/2016	--	**580**	420	**1,000**	--	--	--	--
	NA	12/20/2016	--	190	<250	190	--	--	--	--
	NA	3/24/2017	--	53	<250	53	--	--	--	--
	NA	6/19/2017	--	310	**560**	**870**	--	--	--	--
	NA	9/5/2017	--	340	340	**680**	--	--	--	--
	NA	12/20/2017	--	150	340	490	--	--	--	--
	EW-051718-1	5/17/2018	--	<400	<400	<400	--	--	--	--
	EW-082318-3	8/23/2018	--	<380	<380	<380	--	--	--	--
	EW-111518-6	11/15/2018	--	<400	<400	<400	--	--	--	--
	NS	2/19/2019	--	--	--	--	--	--	--	--
MW-2	MW-2	12/23/1998	--	250	<500	<500	--	--	--	--
	MW-2	1/29/1999	230	--	--	--	8.3	1.2	<1.0	4.0
	NA	8/12/2011	<100	<250	<500	<500	<1	<1	<1	<3
	NA	11/11/2011	<100	500	<250	500	<1	<1	<1	<3
	NA	2/10/2012	<100	<50	<250	<250	<1	<1	<1	<3
	NA	5/17/2012	<100	<50	<250	<250	<1	<1	<1	<3
	NA	8/28/2012	<100	470	**730**	**1,200**	<1	<1	<1	<3
	NA	11/15/2012	<100	140	<260	140	<1	<1	<1	<3
	NA	2/14/2013	<100	94	260	354	<1	<1	<1	<3
	NA	5/16/2013	<100	77	<250	77	<1	<1	<1	<3
	NA	8/14/2013	<100	280	<250	280	<1	<1	<1	<3
	NA	11/25/2013	--	53	<250	53	--	--	--	--
	NA	2/20/2014	--	<50	<250	<250	--	--	--	--
	NA	5/15/2014	--	<50	<250	<250	--	--	--	--
	NA	8/14/2014	--	100	<250	100	--	--	--	--
	NA	11/24/2014	--	<50	<250	<250	--	--	--	--
	NA	3/31/2015	--	57	<250	57	--	--	--	--
	NA	6/29/2015	--	97	<250	97	--	--	--	--
	NA	9/28/2015	--	150	<250	150	--	--	--	--
	NA	3/3/2016	--	<50	<250	<250	--	--	--	--
	NA	6/21/2016	--	86	<250	86	--	--	--	--
	NA	9/16/2016	--	95	<250	95	--	--	--	--

Table 3
Summary of Groundwater Analytical Results

			Ecology Method NWTPH-Gx (µg/L)	Ecology Method NWTPH-Dx (µg/L)			Volatile Organic Compounds USEPA Method 8021B/8260B (µg/L)			
Well ID	**Sample ID**	**Collection Date**	**TPH-g**	**TPH-d**	**TPH-o**	**Total TPH (C_{12} - C_{36})**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**
MW-2	NA	12/20/2016	--	<50	<250	<250	--	--	--	--
Continued	NA	6/19/2017	--	61	<250	61	--	--	--	--
	NA	9/5/2017	--	100	<250	100	--	--	--	--
	NA	12/20/2017	--	<50	<250	<250	--	--	--	--
	EW-051718-4	5/17/2018	--	<410	<410	<410	--	--	--	--
	NS	8/23/2018	--	--	--	--	--	--	--	--
	NS	11/15/2018	--	--	--	--	--	--	--	--
	NS	2/19/2019	--	--	--	--	--	--	--	--
MW-3	MW-3	12/23/1998	--	<250	<500	<500	--	--	--	--
	NA	8/12/2011	<100	<250	<500	<500	<1	<1	<1	<3
	NA	11/11/2011	<100	65	<250	65	<1	<1	<1	<3
	NA	2/10/2012	<100	100	<250	100	<1	<1	<1	<3
	NA	5/17/2012	<100	53	<250	53	<1	<1	<1	<3
	NA	8/28/2012	<100	130	<250	130	<1	<1	<1	<3
	NA	11/15/2012	<100	120	<280	120	<1	<1	<1	<3
	NA	2/14/2013	<100	150	<250	150	<1	<1	<1	<3
	NA	5/16/2013	<100	200	<250	200	<1	<1	<1	<3
	NA	8/14/2013	<100	140	<250	140	<1	<1	<1	<3
	NA	11/25/2013	--	170	<250	170	--	--	--	--
	NA	2/20/2014	--	160	<250	160	--	--	--	--
	NA	5/15/2014	--	120	<250	120	--	--	--	--
	NA	8/14/2014	--	140	<250	140	--	--	--	--
	NA	11/24/2014	--	130	<250	130	--	--	--	--
	NA	3/31/2015	--	220	<250	220	--	--	--	--
	NA	6/29/2015	--	130	<250	130	--	--	--	--
	NA	9/28/2015	--	110	<250	110	--	--	--	--
	NA	3/3/2016	--	92	<250	92	--	--	--	--
	NA	6/21/2016	--	85	<250	85	--	--	--	--
	NA	9/16/2016	--	100	<250	100	--	--	--	--
	NA	12/20/2016	--	99	<250	99	--	--	--	--
	NA	6/19/2017	--	310	<250	310	--	--	--	--
	NA	9/5/2017	--	210	<250	210	--	--	--	--
	NA	12/20/2017	--	150	<250	150	--	--	--	--
	EW-051718-9	5/17/2018	--	**520**	<400	**520**	--	--	--	--
	NS	8/23/2018	--	--	--	--	--	--	--	--
	EW-111518-1	11/15/2018	--	<390	<390	<390	--	--	--	--
	EW-021919-4	2/19/2019	--	<400	<400	<400	--	--	--	--
duplicate	EW-021919-5	2/19/2019	--	<400	<400	<400	--	--	--	--
MW-4	MW-4	1/29/1999	<100	--	--	--	<1.0	<1.0	<1.0	<1.0
	NA	8/12/2011	<100	<250	<500	<500	<1	<1	<1	<3
	NA	11/11/2011	<100	72	<250	72	<1	<1	<1	<3
	NA	2/10/2012	<100	150	<250	150	<1	<1	<1	<3
	NA	5/17/2012	<100	160	<250	160	<1	<1	<1	<3
	NA	8/28/2012	<100	200	<250	200	<1	<1	<1	<3
	NA	11/15/2012	<100	220	<250	220	<1	<1	<1	<3
	NA	2/14/2013	<100	220	<250	220	<1	<1	<1	<3
	NA	5/16/2013	<100	210	<250	210	<1	<1	<1	<3
	NA	8/14/2013	<100	200	<250	200	<1	<1	<1	<3
	NA	2/20/2014	--	140	<250	140	--	--	--	--
	NA	5/15/2014	--	140	<250	140	--	--	--	--
	NA	8/14/2014	--	290	<250	290	--	--	--	--

Table 3
Summary of Groundwater Analytical Results

			Ecology Method NWTPH-Gx (µg/L)	Ecology Method NWTPH-Dx (µg/L)			Volatile Organic Compounds USEPA Method 8021B/8260B (µg/L)			
Well ID	**Sample ID**	**Collection Date**	**TPH-g**	**TPH-d**	**TPH-o**	**Total TPH (C_{12} - C_{36})**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**
MW-4	NA	11/24/2014	--	290	<250	290	--	--	--	--
Continued	NA	3/31/2015	--	320	<250	320	--	--	--	--
	NA	6/29/2015	--	240	<250	240	--	--	--	--
	NA	9/28/2015	--	220	<250	220	--	--	--	--
	NA	3/3/2016	--	130	<250	130	--	--	--	--
	NA	6/21/2016	--	63	<250	63	--	--	--	--
	NA	9/29/2016	--	68	<250	68	--	--	--	--
	NA	12/20/2016	--	78	<250	78	--	--	--	--
	NA	3/24/2017	--	<50	<250	<250	--	--	--	--
	NA	6/19/2017	--	110	<250	110	--	--	--	--
	NA	9/5/2017	--	150	<250	150	--	--	--	--
	NA	1/2/2018	--	<50	<250	<250	--	--	--	--
	EW-051718-8	5/17/2018	--	<400	<400	<400	--	--	--	--
	NS	8/23/2018	--	--	--	--	--	--	--	--
	NS	11/15/2018	--	--	--	--	--	--	--	--
	NS	2/19/2019	--	--	--	--	--	--	--	--
MW-5	NA	6/5/2013	<100	160	<250	160	<1	<1	<1	<3
	NA	8/14/2013	<100	56	<250	56	<1	<1	<1	<3
	NA	11/24/2014	<100	<50	<250	<250	--	--	--	--
	NA	3/31/2015	--	52	<250	52	--	--	--	--
	NA	6/29/2015	--	<50	<250	<250	--	--	--	--
	NA	9/28/2015	--	<50	<250	<250	--	--	--	--
	NA	3/3/2016	--	<50	<250	<250	--	--	--	--
	NA	6/21/2016	--	<50	<250	<250	--	--	--	--
	NA	9/16/2016	--	<50	<250	<250	--	--	--	--
	NA	12/20/2016	--	<50	<250	<250	--	--	--	--
	NA	6/19/2017	--	55	<250	55	--	--	--	--
	NA	9/5/2017	--	68	<250	68	--	--	--	--
	NA	1/2/2018	--	<50	<250	<250	--	--	--	--
	EW-051718-5	5/17/2018	--	<380	<380	<380	--	--	--	--
	NS	8/23/2018	--	--	--	--	--	--	--	--
	NS	11/15/2018	--	--	--	--	--	--	--	--
	NS	2/19/2019	--	--	--	--	--	--	--	--
MW-6	NA	6/5/2013	<100	**680**	<250	**680**	<1	<1	<1	<3
	NA	8/14/2013	<100	**790**	<250	**790**	<1	<1	<1	<3
	NA	2/20/2014	--	**740**	<250	**740**	--	--	--	--
	NA	5/15/2014	--	**950**	<250	**950**	--	--	--	--
	NA	8/14/2014	--	**1,200**	<250	**1,200**	--	--	--	--
	NA	11/24/2014	--	**680**	<250	**680**	--	--	--	--
	NA	3/31/2015	--	**750**	<250	**750**	--	--	--	--
	NA	6/29/2015	--	**750**	<250	**750**	--	--	--	--
	NA	9/28/2015	--	**610**	<250	**610**	--	--	--	--
	NA	3/3/2016	--	**1,100**	390	**1,490**	--	--	--	--
	NA	6/21/2016	--	**650**	<250	**650**	--	--	--	--
	NA	9/16/2016	--	340	<250	340	--	--	--	--
	NA	12/20/2016	--	**640**	<250	**640**	--	--	--	--
	NA	3/24/2017	--	**580**	<250	**580**	--	--	--	--
	NA	6/19/2017	--	**970**	280	**1,250**	--	--	--	--
	NA	9/5/2017	--	320	<250	320	--	--	--	--
	NA	1/2/2018	--	240	<250	240	--	--	--	--
	EW-051718-6	5/17/2018	--	**880**	<400	**880**	--	--	--	--

Table 3
Summary of Groundwater Analytical Results

			Ecology Method NWTPH-Gx (µg/L)	Ecology Method NWTPH-Dx (µg/L)			Volatile Organic Compounds USEPA Method 8021B/8260B (µg/L)			
Well ID	**Sample ID**	**Collection Date**	**TPH-g**	**TPH-d**	**TPH-o**	**Total TPH (C_{12} - C_{36})**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**
MW-6	EW-082318-4	8/23/2018	--	<400	<400	<400	--	--	--	--
Continued	EW-082318-3	11/15/2018	--	<380	<380	<380	--	--	--	--
	EW-021919-2	2/19/2019	--	470	<400	470	--	--	--	--
MW-7	NA	9/16/2016	--	140	<250	140	--	--	--	--
	NA	12/20/2016	--	78	<250	78	--	--	--	--
	NA	3/24/2017	--	<50	<250	<250	--	--	--	--
	NA	6/19/2017	--	100	<250	100	--	--	--	--
	NA	9/5/2017	--	59	<250	59	--	--	--	--
	NA	12/20/2017	--	99	<250	99	--	--	--	--
	EW-051718-7	5/17/2018	--	<380	<380	<380	--	--	--	--
	NS	8/23/2018	--	--	--	--	--	--	--	--
	NS	11/15/2018	--	--	--	--	--	--	--	--
	NS	2/19/2019	--	--	--	--	--	--	--	--
MW-8	NA	10/3/2016	--	290	<250	290	--	--	--	--
	NA	12/20/2016	--	140	<250	140	--	--	--	--
	NA	3/24/2017	--	<50	<250	<250	--	--	--	--
	NA	6/26/2017	--	180	<250	180	--	--	--	--
	NA	9/5/2017	--	160	<250	160	--	--	--	--
	NA	12/20/2017	--	140	<250	140	--	--	--	--
	EW-051718-10	5/17/2018	--	**1,900**	**2,800**	**4,700**	--	--	--	--
	EW-060518-1	6/5/2018	--	**850**	**770**	**1,620**	--	--	--	--
	EW-082318-5	8/23/2018	<100	450	<380	450	<1.0	<1.0	<1.0	<3.0
	EW-111518-2	11/15/2018	--	<400	<400	<400	--	--	--	--
	EW-021919-3	2/19/2019	--	<400	<400	<400	--	--	--	--
MW-9	NA	9/5/2017	--	**4,300**	<250	**4,300**	--	--	--	--
	NA	12/20/2017	--	360	<250	360	--	--	--	--
	EW-051718-2	5/17/2018	--	450	<400	450	--	--	--	--
duplicate	EW-051718-3	5/17/2018	--	470	<390	470	--	--	--	--
	EW-082318-1	8/23/2018	--	**790**	<400	**790**	--	--	--	--
duplicate	EW-0823718-2	8/23/2018	--	**700**	<400	**700**	--	--	--	--
	EW-111518-4	11/15/2018	--	<390	<390	<390	--	--	--	--
duplicate	EW-111518-5	11/15/2018	--	<400	<400	<400	--	--	--	--
	EW-021919-1	2/19/2019	<100	<400	<400	<400	<1.0	<1.0	<1.0	<3.0
MW-10	EW-021919-6	2/19/2019	<100	<400	<400	<400	<1.0	<1.0	<1.0	<3.0
MTCA Method A Cleanup Levels for Groundwater[a]			**800/1,000[b]**	**500**	**500**	**500**	**5**	**1,000**	**700**	**1,000**

Notes:

MTCA - Model Toxics Control Act
USEPA - United States Environmental Protection Agency
CCL - Contaminant Cleanup Level
Bold - Value exceeds MTCA Method A cleanup level
TPH-d - diesel range total petroleum hydrocarbons
TPH-g - gasoline range total petroleum hydrocarbons
TPH-o - total petroleum hydrocarbons in the oil range

µg/L - micrograms per liter
-- - Not Analyzed
< - Not reported at, or above the indicated laboratory method reporting limit
NS - Not Sampled
NA - Not Applicable
Shaded value indicates compound was reported either at, or above the laboratory MRL

[a] MTCA Method A Groundwater Cleanup Levels for Unrestricted Land Uses are referenced from the February 12, 2001. *Washington Department of Ecology Model Toxics Control Act Cleanup Regulation Chapter 173-340,* Table 720-1.

[b] 800 µg/L if benzene has been detected in groundwater; 1,000 µg/L if benzene has not been detected in groundwater.

Table 4
Summary of Groundwater Analytical Results - Total Lead, PCBs, cPAHs, and VOCs

Well ID	Sample ID	Date Sampled	USEPA Method 6020 (µg/L) Total Lead	USEPA Method 8082A (µg/L) PCBs	USEPA Method 8270D (µg/L) cPAHs	USEPA Method 8260 (µg/L) VOCs
MW-2	MW-2	1/29/1999	--	All <0.050	All <0.05	ND
MW-4	MW-4	01/29/99	--	All <0.050	All <0.05	ND (Chloroform 1.6)[b]
MW-8	EW-082318-5	8/23/2018	<10.0	All <0.10	All <0.042	ND
MW-10	EW-021919-6	02/19/19	<10.0	All <0.098	All <0.0.039	ND
MTCA Method A Cleanup Levels for Groundwater [a]			15	0.1	0.1	Various

Notes:

Ecology - Washington Department of Ecology

USEPA - United States Environmental Protection Agency

µg/L - Micrograms per liter

< - Not reported at, or above, the indicated laboratory method reporting limit (MRL)

PCBs - Polychlorinated Biphenyls

PAHs - Polychlorinated Aromatic Hydrocarbons

cPAHs - Carcineogenic Polychlorinated Aromatic Hydrocarbons

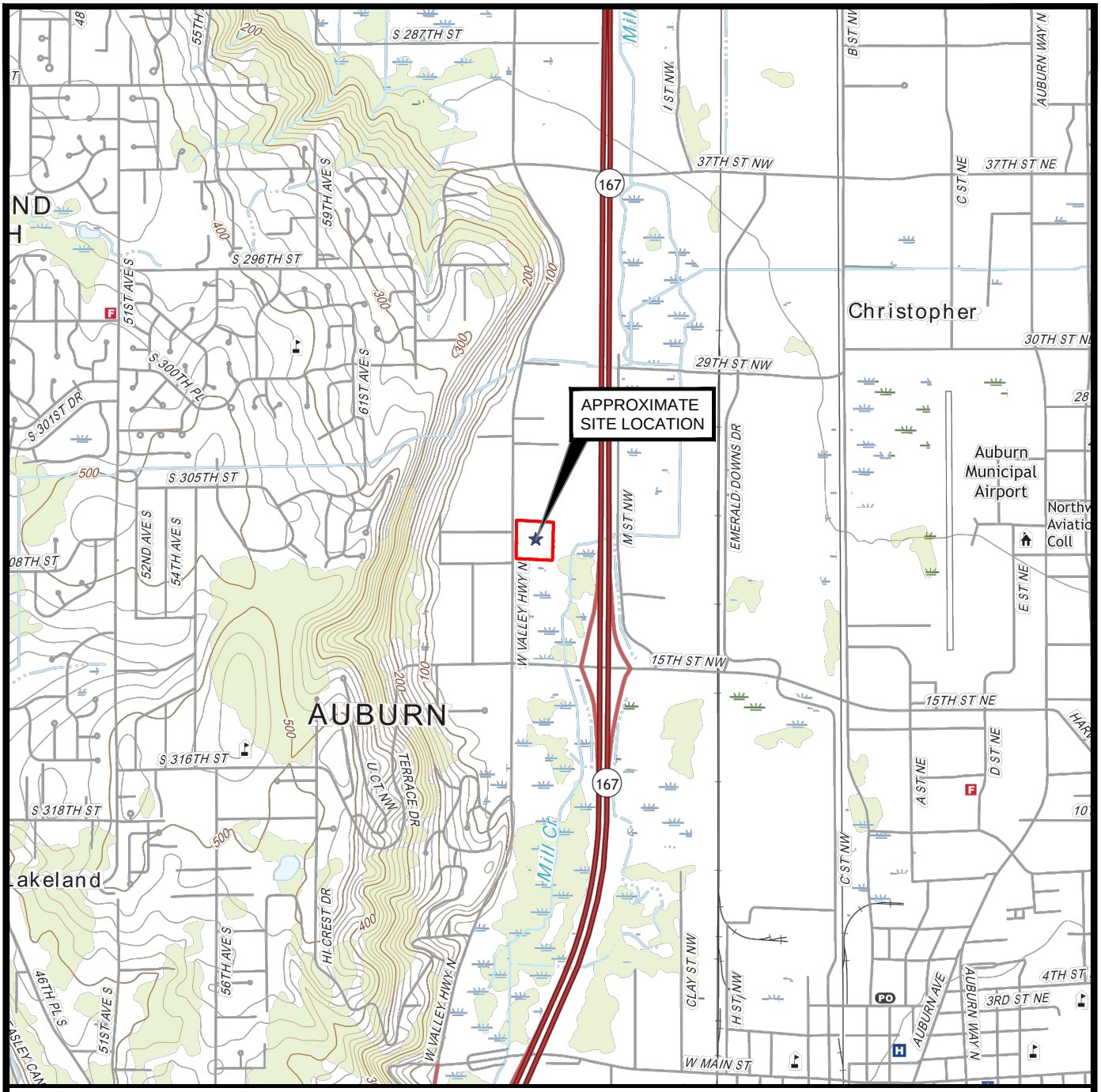
VOCs - Volatile Organic Compounds

Shaded value indicates compound was reported either at, or above the laboratory MRL

ND - Not detected

[a] Model Toxics Control Act (MTCA) Method A cleanup levels for unrestricted land uses are referenced from Table 720-1 in Ecology's November 2007 document *Model Toxics Control Act Cleanup Regulation, Chapter 173-340 WAC* .

[b] All VOCs were not reported either at, or above the laboratory practical quantitative limit (PQL), except chloroform at 1.6 µg/L.



SOURCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLE
AUBURN, WA AND POVERTY BAY, WA (2017)

SCALE FEET
0 2,000 4,000

N

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FIGURE TITLE	***SITE LOCATION MAP***
DOCUMENT TITLE	FIRST QUARTER 2019 GROUNDWATER MONITORING REPORT
CLIENT	ESTES EXPRESS LINES, INC.
LOCATION	FORMER PROVISIONERS EXPRESS FACILITY 2102 WEST VALLEY HIGHWAY NORTH, AUBURN, WASHINGTON

DATE	3/4/19
SCALE	AS SHOWN
DESIGNED BY	DJL
APPROVED BY	DJL
DRAWN BY	SRM
PROJECT NUMBER	2004-004.002
FIGURE NUMBER	1

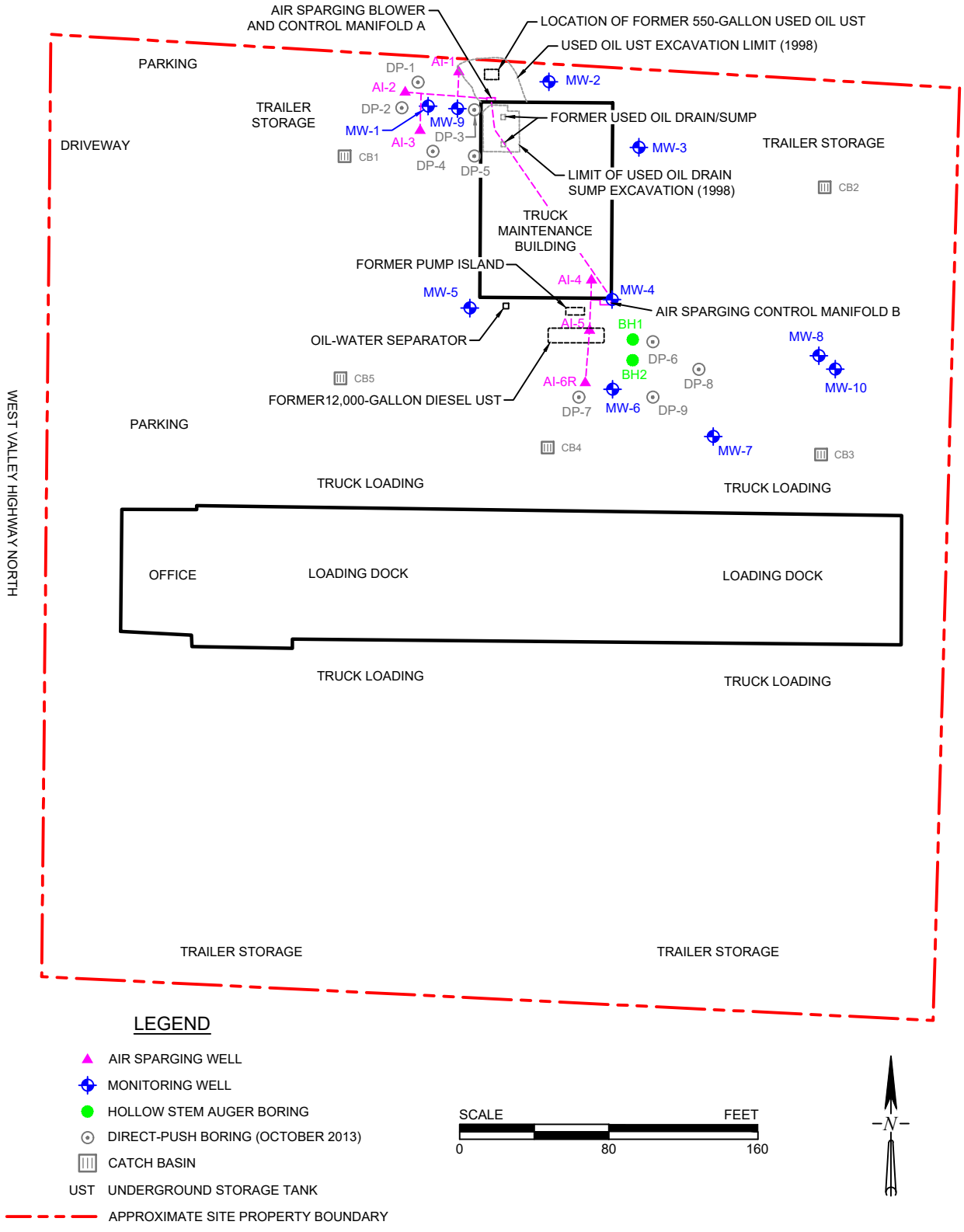

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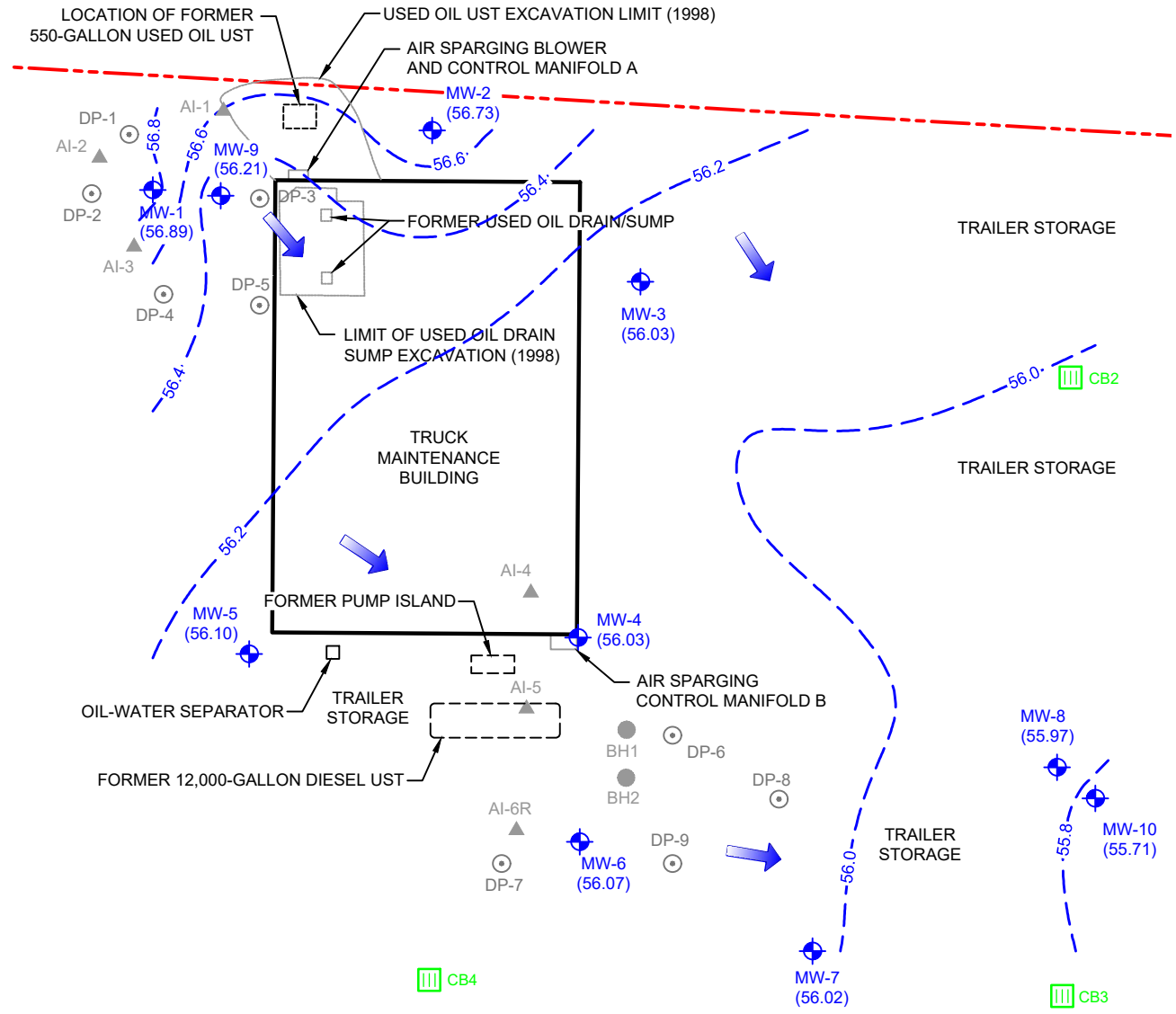
FIGURE TITLE	***SITE MAP***
DOCUMENT TITLE	FIRST QUARTER 2019 GROUNDWATER MONITORING REPORT
CLIENT	ESTES EXPRESS LINES, INC.
LOCATION	FORMER PROVISIONERS EXPRESS FACILITY 2102 WEST VALLEY HIGHWAY NORTH, AUBURN, WASHINGTON

DATE	3/19/19
SCALE	AS SHOWN
DESIGNED BY	DJL
APPROVED BY	DJL
DRAWN BY	SRM
PROJECT NUMBER	2004-004.002
FIGURE NUMBER	2



LEGEND

- 56.0 — GROUNDWATER ELEVATION CONTOUR
- (55.37) GROUNDWATER ELEVATION
- APPROXIMATE FLOW DIRECTION OF SHALLOW GROUNDWATER
- AIR SPARGING WELL
- MONITORING WELL
- HOLLOW STEM AUGER BORING
- DIRECT-PUSH BORING (OCTOBER 2013)
- CATCH BASIN
- UST UNDERGROUND STORAGE TANK
- APPROXIMATE SITE PROPERTY BOUNDARY
- TRUCK LOADING
- LOADING DOCK

SCALE 0 40 80 FEET

N

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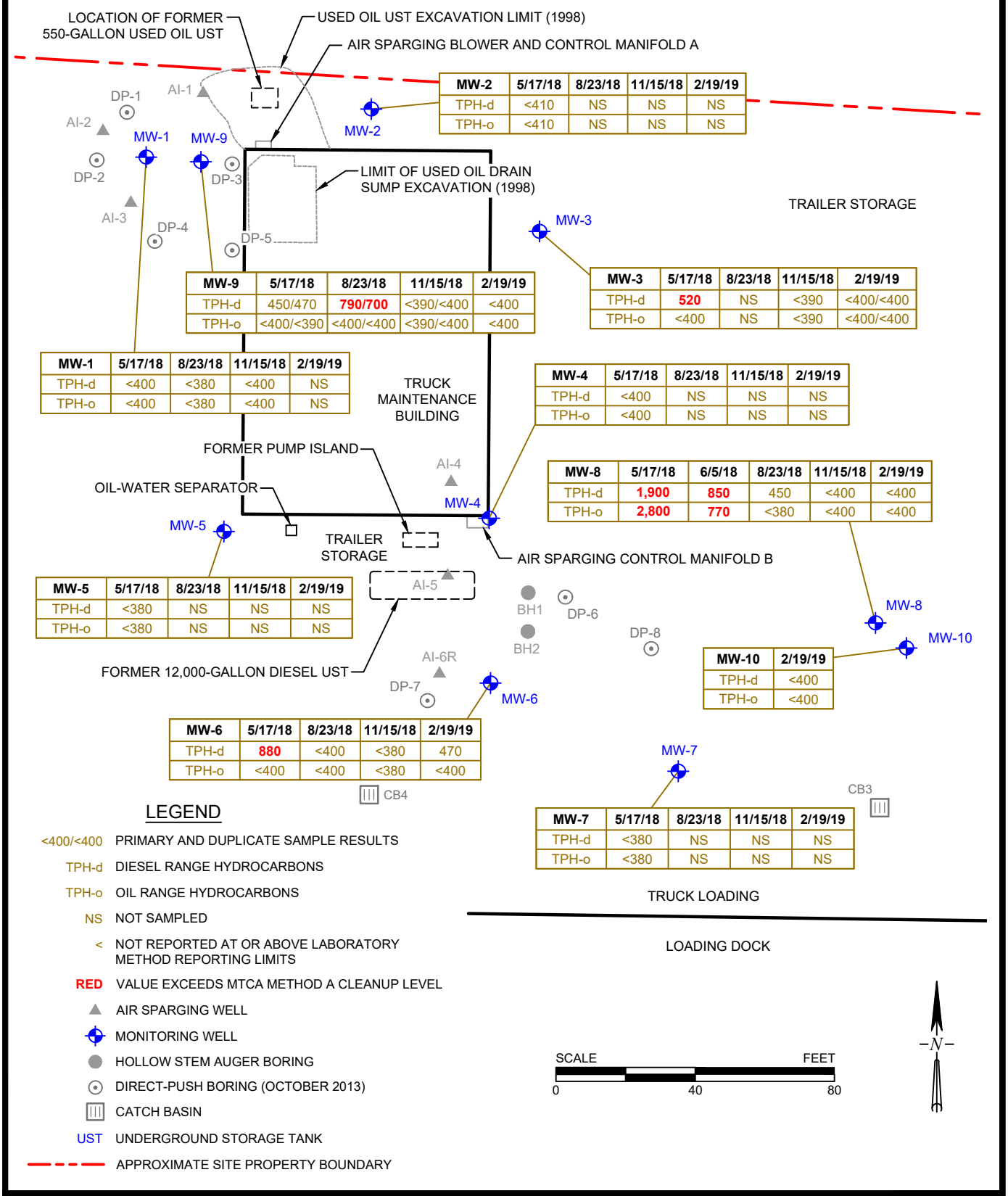
FIGURE TITLE	***GROUNDWATER CONTOUR FEBRUARY 19, 2019***
DOCUMENT TITLE	FIRST QUARTER 2019 GROUNDWATER MONITORING REPORT
CLIENT	ESTES EXPRESS LINES, INC.
LOCATION	FORMER PROVISIONERS EXPRESS FACILITY 2102 WEST VALLEY HIGHWAY NORTH, AUBURN, WASHINGTON

DATE	3/19/19
SCALE	AS SHOWN
DESIGNED BY	DJL
APPROVED BY	DJL
DRAWN BY	SRM
PROJECT NUMBER	2004-004.002
FIGURE NUMBER	3



MW-2	5/17/18	8/23/18	11/15/18	2/19/19
TPH-d	<410	NS	NS	NS
TPH-o	<410	NS	NS	NS

MW-3	5/17/18	8/23/18	11/15/18	2/19/19
TPH-d	520	NS	<390	<400/<400
TPH-o	<400	NS	<390	<400/<400

MW-9	5/17/18	8/23/18	11/15/18	2/19/19
TPH-d	450/470	790/700	<390/<400	<400
TPH-o	<400/<390	<400/<400	<390/<400	<400

MW-1	5/17/18	8/23/18	11/15/18	2/19/19
TPH-d	<400	<380	<400	NS
TPH-o	<400	<380	<400	NS

MW-4	5/17/18	8/23/18	11/15/18	2/19/19
TPH-d	<400	NS	NS	NS
TPH-o	<400	NS	NS	NS

MW-8	5/17/18	6/5/18	8/23/18	11/15/18	2/19/19
TPH-d	1,900	850	450	<400	<400
TPH-o	2,800	770	<380	<400	<400

MW-10	2/19/19
TPH-d	<400
TPH-o	<400

MW-5	5/17/18	8/23/18	11/15/18	2/19/19
TPH-d	<380	NS	NS	NS
TPH-o	<380	NS	NS	NS

MW-6	5/17/18	8/23/18	11/15/18	2/19/19
TPH-d	880	<400	<380	470
TPH-o	<400	<400	<380	<400

MW-7	5/17/18	8/23/18	11/15/18	2/19/19
TPH-d	<380	NS	NS	NS
TPH-o	<380	NS	NS	NS

LEGEND

- <400/<400 — PRIMARY AND DUPLICATE SAMPLE RESULTS
- TPH-d — DIESEL RANGE HYDROCARBONS
- TPH-o — OIL RANGE HYDROCARBONS
- NS — NOT SAMPLED
- < — NOT REPORTED AT OR ABOVE LABORATORY METHOD REPORTING LIMITS
- RED — VALUE EXCEEDS MTCA METHOD A CLEANUP LEVEL
- AIR SPARGING WELL
- MONITORING WELL
- HOLLOW STEM AUGER BORING
- DIRECT-PUSH BORING (OCTOBER 2013)
- CATCH BASIN
- UST — UNDERGROUND STORAGE TANK
- APPROXIMATE SITE PROPERTY BOUNDARY

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FIGURE TITLE: ***GROUNDWATER ANALYTICAL RESULTS***

DOCUMENT TITLE: FIRST QUARTER 2019 GROUNDWATER MONITORING REPORT

CLIENT: ESTES EXPRESS LINES, INC.

LOCATION: FORMER PROVISIONERS EXPRESS FACILITY
2102 WEST VALLEY HIGHWAY NORTH, AUBURN, WASHINGTON

DATE	3/19/19
SCALE	AS SHOWN
DESIGNED BY	DJL
APPROVED BY	DJL
DRAWN BY	SRM
PROJECT NUMBER	2004-004.002
FIGURE NUMBER	4

ATTACHMENT A
MONITORING WELL BORING LOG

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LOG OF BORING: MW-10

Former Provisioners Express Facility
2102 West Valley Highway North
Auburn, Washington

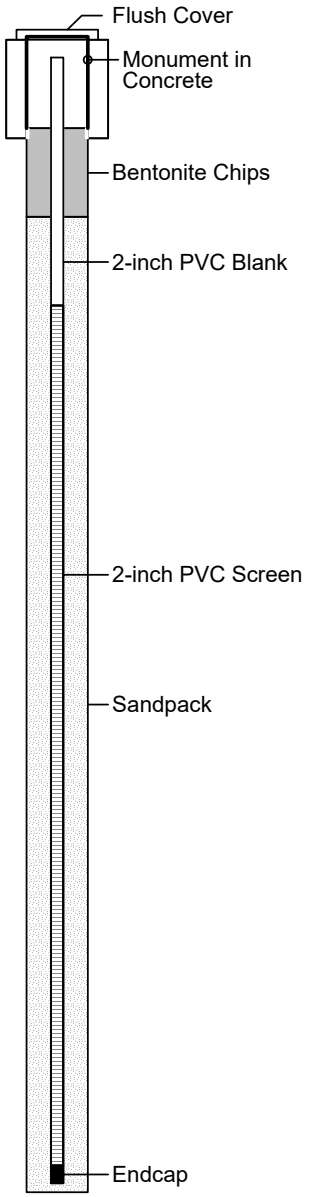
Project Number: 2004-004.002

Date Started	: 1/25/19	Drilled By	: Steadfast
Date Completed	: 1/25/19	Sampling Method	: Grab
Boring Diameter	: 8-inch	Reference Elev.	: Ground Surface
Total Depth	: 13.0 ft bgs	Logged By	: N/A
Drilling Method	: Hollow Stem Auger	Checked By	: D. Seaver

Boring Location

9.3' east and 7.0' south of MW-8.

Well: MW-10
Elevation: Ground Surface



Depth in Feet	Sample I.D.	USCS	GRAPHIC	DESCRIPTION
0				0.0-0.25 ft bgs - ASPHALT.
		SP		0.25-1.5 ft bgs - GRAVEL (SUB-BASE).
1				
2		ML		1.5-6.5 ft bgs - SANDY SILT WITH GRAVEL; Grey; hard; damp to moist.
3	EW-012519-2.8			
4				
5				5.4 ft bgs - Increasing gravel content; wet.
6				
7		ML		6.5-13.0 ft bgs - SILT WITH SAND: Grey; soft; moist to wet.
8				
9				
10				
11				11.5 ft bgs - Increasing sand content; color change to dark brown/black; becomming stiffer with depth.
12				
13				Boring terminated at 13.0 ft bgs.

ft bgs = feet below ground surface

Notes:
1. Lithology descriptions taken from those provided for MW-8.
2. Water level at adjacent MW-8 was measured to be 3.78 ft bgs prior to drilling.

Set Well MW-10:
2-inch Schedule 40 PVC blank (0.0-3.0 ft bgs)
2-inch pre-pack 0.010-inch slotted screen (3.0-13.0 ft bgs)

02-04-2019

ATTACHMENT B
WELL DEVELOPMENT DATA SHEET

WELL DEVELOPMENT DATA SHEET

PROJECT NAME: Estes West WELL ID: MW-10

SITE ADDRESS: 22102 West Valley Hwy North, Auburn, WA

Wind From	N	NE	E	SE	S	SW	W	NW	Light	Medium	Heavy
Weather	Sunny		Cloudy		Rain		_____?		Temperature:	45 °F	____°C

WELL DATA

Date	Casing Diam	DTB	DTW	DTB-DTW	Casing Vol (gal)
2/19/19	2	13	4.09	8.91	
	Annulus Diam.	Annulus Length	Annulus vol. per foot (bh-c)	Annulus Volume (gal)	BOREHOLE VOL. [Annulus + Casing] (gal)
	8.5"	8.91	~~0.23~~ 3	26.7	

Gal/ft=(dia/2)^{2}x0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

8.5" = 3 GAL/FT

WATER QUALITY DATA

Volume (gal)	PH	Spec. Cond.	Temp	Dissolved Oxygen	Turbidity	Observations
27	6.48	951	11.2	2.44	SILTY	YELLOW TINT
54	6.63	942	11.8	1.71	SL. SILTY	"
80	6.55	940	11.7	1.01	CLEAR	"

Notes: RECOVERY RATE = 1 FT PER 52 SECONDS.

Developed By: Steve McCray Signature: [signature]

ATTACHMENT C
LABORATORY ANALYTICAL REPORT
- SOIL

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

February 01, 2019

Dan Landry
Environmental Technologies Group, Inc
1176 West 7th Avenue
Eugene, OR 97402

RE: Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

Dear Dan Landry:
Enclosed are the analytical results for sample(s) received by the laboratory on January 28, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(206)957-2426
Project Manager

Enclosures

cc: Dave Seaver, Environmental Technologies Group, Inc.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services, LLC
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SAMPLE SUMMARY

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10462679001	**EW-012519 - 2.8**	Solid	01/25/19 10:35	01/28/19 10:25
10462679002	**Trip Blank**	Solid	01/25/19 00:00	01/28/19 10:25

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SAMPLE ANALYTE COUNT

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10462679001	**EW-012519 - 2.8**	EPA 8082A	RAG	9	PASI-M
		NWTPH-Dx	EC2	4	PASI-M
		EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AT1	20	PASI-M
		EPA 8260B	CD2	69	PASI-M

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ANALYTICAL RESULTS

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

Sample: EW-012519 - 2.8 **Lab ID: 10462679001** Collected: 01/25/19 10:35 Received: 01/28/19 10:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	ND	ug/kg	33.0	1	01/28/19 16:33	01/29/19 12:12	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	33.0	1	01/28/19 16:33	01/29/19 12:12	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	33.0	1	01/28/19 16:33	01/29/19 12:12	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	33.0	1	01/28/19 16:33	01/29/19 12:12	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	33.0	1	01/28/19 16:33	01/29/19 12:12	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	33.0	1	01/28/19 16:33	01/29/19 12:12	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	33.0	1	01/28/19 16:33	01/29/19 12:12	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	89	%.	57-125	1	01/28/19 16:33	01/29/19 12:12	877-09-8	
Decachlorobiphenyl (S)	84	%.	49-125	1	01/28/19 16:33	01/29/19 12:12	2051-24-3	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3550							
Diesel Fuel Range	ND	mg/kg	15.0	1	01/28/19 17:03	01/29/19 10:27	68334-30-5	
Motor Oil Range	**20.7**	mg/kg	10	1	01/28/19 17:03	01/29/19 10:27		
Surrogates								
n-Triacontane (S)	88	%.	50-150	1	01/28/19 17:03	01/29/19 10:27	638-68-6	
o-Terphenyl (S)	88	%.	50-150	1	01/28/19 17:03	01/29/19 10:27	84-15-1	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Lead	**2.6**	mg/kg	0.47	1	01/29/19 09:01	01/29/19 12:53	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**8.1**	%	0.10	1		01/29/19 10:04		
8270D MSSV CPAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
1-Methylnaphthalene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	90-12-0	
2-Chloronaphthalene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	91-58-7	
2-Methylnaphthalene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	91-57-6	
Acenaphthene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	83-32-9	
Acenaphthylene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	208-96-8	
Anthracene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	120-12-7	
Benzo(a)anthracene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	56-55-3	
Benzo(a)pyrene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	50-32-8	
Benzo(g,h,i)perylene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	191-24-2	
Chrysene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	53-70-3	
Dibenzofuran	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	132-64-9	
Fluoranthene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	206-44-0	
Fluorene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	193-39-5	
Naphthalene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	91-20-3	
Phenanthrene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	85-01-8	
Pyrene	ND	ug/kg	10	1	01/29/19 09:52	01/30/19 17:44	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	55	%.	30-125	1	01/29/19 09:52	01/30/19 17:44	321-60-8	
p-Terphenyl-d14 (S)	67	%.	30-127	1	01/29/19 09:52	01/30/19 17:44	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

Sample: EW-012519 - 2.8 **Lab ID: 10462679001** Collected: 01/25/19 10:35 Received: 01/28/19 10:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	630-20-6	
1,1,1-Trichloroethane	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	79-34-5	
1,1,2-Trichloroethane	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	76-13-1	
1,1-Dichloroethane	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	75-34-3	
1,1-Dichloroethene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	75-35-4	
1,1-Dichloropropene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	87-61-6	
1,2,3-Trichloropropane	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/kg	9.6	1	01/30/19 11:39	01/30/19 18:05	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	95-50-1	
1,2-Dichloroethane	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	107-06-2	
1,2-Dichloropropane	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	108-67-8	
1,3-Dichlorobenzene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	541-73-1	
1,3-Dichloropropane	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	142-28-9	
1,4-Dichlorobenzene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	106-46-7	
2,2-Dichloropropane	ND	ug/kg	9.6	1	01/30/19 11:39	01/30/19 18:05	594-20-7	
2-Butanone (MEK)	ND	ug/kg	19.2	1	01/30/19 11:39	01/30/19 18:05	78-93-3	
2-Chlorotoluene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	19.2	1	01/30/19 11:39	01/30/19 18:05	108-10-1	
Acetone	ND	ug/kg	19.2	1	01/30/19 11:39	01/30/19 18:05	67-64-1	
Allyl chloride	ND	ug/kg	9.6	1	01/30/19 11:39	01/30/19 18:05	107-05-1	
Benzene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	71-43-2	
Bromobenzene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	108-86-1	
Bromochloromethane	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	74-97-5	
Bromodichloromethane	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	75-27-4	
Bromoform	ND	ug/kg	19.2	1	01/30/19 11:39	01/30/19 18:05	75-25-2	
Bromomethane	ND	ug/kg	19.2	1	01/30/19 11:39	01/30/19 18:05	74-83-9	
Carbon tetrachloride	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	56-23-5	
Chlorobenzene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	108-90-7	
Chloroethane	ND	ug/kg	9.6	1	01/30/19 11:39	01/30/19 18:05	75-00-3	
Chloroform	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	67-66-3	
Chloromethane	ND	ug/kg	9.6	1	01/30/19 11:39	01/30/19 18:05	74-87-3	
Dibromochloromethane	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	124-48-1	
Dibromomethane	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	74-95-3	
Dichlorodifluoromethane	ND	ug/kg	9.6	1	01/30/19 11:39	01/30/19 18:05	75-71-8	
Diethyl ether (Ethyl ether)	ND	ug/kg	9.6	1	01/30/19 11:39	01/30/19 18:05	60-29-7	
Ethylbenzene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	9.6	1	01/30/19 11:39	01/30/19 18:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	98-82-8	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

Sample: EW-012519 - 2.8 **Lab ID: 10462679001** Collected: 01/25/19 10:35 Received: 01/28/19 10:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Methyl-tert-butyl ether	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	1634-04-4	
Methylene Chloride	ND	ug/kg	19.2	1	01/30/19 11:39	01/30/19 18:05	75-09-2	
Naphthalene	ND	ug/kg	9.6	1	01/30/19 11:39	01/30/19 18:05	91-20-3	
Styrene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	100-42-5	
Tetrachloroethene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	127-18-4	
Tetrahydrofuran	ND	ug/kg	38.4	1	01/30/19 11:39	01/30/19 18:05	109-99-9	
Toluene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	108-88-3	
Trichloroethene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	79-01-6	
Trichlorofluoromethane	ND	ug/kg	9.6	1	01/30/19 11:39	01/30/19 18:05	75-69-4	
Vinyl chloride	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	75-01-4	
Xylene (Total)	ND	ug/kg	11.5	1	01/30/19 11:39	01/30/19 18:05	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	156-59-2	
cis-1,3-Dichloropropene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	10061-01-5	
n-Butylbenzene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	104-51-8	
n-Propylbenzene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	103-65-1	
p-Isopropyltoluene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	99-87-6	
sec-Butylbenzene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	98-06-6	
trans-1,2-Dichloroethene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	156-60-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.8	1	01/30/19 11:39	01/30/19 18:05	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	117	%.	75-125	1	01/30/19 11:39	01/30/19 18:05	17060-07-0	
Toluene-d8 (S)	96	%.	75-125	1	01/30/19 11:39	01/30/19 18:05	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1	01/30/19 11:39	01/30/19 18:05	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

QC Batch: 587661 Analysis Method: EPA 6010D
QC Batch Method: EPA 3050 Analysis Description: 6010D Solids
Associated Lab Samples: 10462679001

METHOD BLANK: 3180671 Matrix: Solid
Associated Lab Samples: 10462679001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	0.50	01/29/19 12:31	

LABORATORY CONTROL SAMPLE: 3180672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	45.5	45.2	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180673 3180674

Parameter	Units	10462653001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	23.1	250	250	252	252	92	92	75-125	0	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

QC Batch: 587674
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Associated Lab Samples: 10462679001

SAMPLE DUPLICATE: 3180720

Parameter	Units	10462608001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.3	21.6	1	30	

SAMPLE DUPLICATE: 3180721

Parameter	Units	12121104001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.1	9.4	3	30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

QC Batch: 587708 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035 Low Analysis Description: 8260B MSV 5035 Low Level
Associated Lab Samples: 10462679001

METHOD BLANK: 3180764 Matrix: Solid
Associated Lab Samples: 10462679001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	4.0	01/30/19 16:17	
1,1,1-Trichloroethane	ug/kg	ND	4.0	01/30/19 16:17	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4.0	01/30/19 16:17	
1,1,2-Trichloroethane	ug/kg	ND	4.0	01/30/19 16:17	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	4.0	01/30/19 16:17	
1,1-Dichloroethane	ug/kg	ND	4.0	01/30/19 16:17	
1,1-Dichloroethene	ug/kg	ND	4.0	01/30/19 16:17	
1,1-Dichloropropene	ug/kg	ND	4.0	01/30/19 16:17	
1,2,3-Trichlorobenzene	ug/kg	ND	4.0	01/30/19 16:17	
1,2,3-Trichloropropane	ug/kg	ND	4.0	01/30/19 16:17	
1,2,4-Trichlorobenzene	ug/kg	ND	4.0	01/30/19 16:17	
1,2,4-Trimethylbenzene	ug/kg	ND	4.0	01/30/19 16:17	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	01/30/19 16:17	
1,2-Dibromoethane (EDB)	ug/kg	ND	4.0	01/30/19 16:17	
1,2-Dichlorobenzene	ug/kg	ND	4.0	01/30/19 16:17	
1,2-Dichloroethane	ug/kg	ND	4.0	01/30/19 16:17	
1,2-Dichloropropane	ug/kg	ND	4.0	01/30/19 16:17	
1,3,5-Trimethylbenzene	ug/kg	ND	4.0	01/30/19 16:17	
1,3-Dichlorobenzene	ug/kg	ND	4.0	01/30/19 16:17	
1,3-Dichloropropane	ug/kg	ND	4.0	01/30/19 16:17	
1,4-Dichlorobenzene	ug/kg	ND	4.0	01/30/19 16:17	
2,2-Dichloropropane	ug/kg	ND	10.0	01/30/19 16:17	
2-Butanone (MEK)	ug/kg	ND	20.0	01/30/19 16:17	
2-Chlorotoluene	ug/kg	ND	4.0	01/30/19 16:17	
4-Chlorotoluene	ug/kg	ND	4.0	01/30/19 16:17	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	20.0	01/30/19 16:17	
Acetone	ug/kg	ND	20.0	01/30/19 16:17	
Allyl chloride	ug/kg	ND	10.0	01/30/19 16:17	
Benzene	ug/kg	ND	4.0	01/30/19 16:17	
Bromobenzene	ug/kg	ND	4.0	01/30/19 16:17	
Bromochloromethane	ug/kg	ND	4.0	01/30/19 16:17	
Bromodichloromethane	ug/kg	ND	4.0	01/30/19 16:17	
Bromoform	ug/kg	ND	20.0	01/30/19 16:17	
Bromomethane	ug/kg	ND	20.0	01/30/19 16:17	
Carbon tetrachloride	ug/kg	ND	4.0	01/30/19 16:17	
Chlorobenzene	ug/kg	ND	4.0	01/30/19 16:17	
Chloroethane	ug/kg	ND	10.0	01/30/19 16:17	
Chloroform	ug/kg	ND	4.0	01/30/19 16:17	
Chloromethane	ug/kg	ND	10.0	01/30/19 16:17	
cis-1,2-Dichloroethene	ug/kg	ND	4.0	01/30/19 16:17	
cis-1,3-Dichloropropene	ug/kg	ND	4.0	01/30/19 16:17	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

METHOD BLANK: 3180764 Matrix: Solid
Associated Lab Samples: 10462679001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	4.0	01/30/19 16:17	
Dibromomethane	ug/kg	ND	4.0	01/30/19 16:17	
Dichlorodifluoromethane	ug/kg	ND	10.0	01/30/19 16:17	
Diethyl ether (Ethyl ether)	ug/kg	ND	10.0	01/30/19 16:17	
Ethylbenzene	ug/kg	ND	4.0	01/30/19 16:17	
Hexachloro-1,3-butadiene	ug/kg	ND	10.0	01/30/19 16:17	
Isopropylbenzene (Cumene)	ug/kg	ND	4.0	01/30/19 16:17	
Methyl-tert-butyl ether	ug/kg	ND	4.0	01/30/19 16:17	
Methylene Chloride	ug/kg	ND	20.0	01/30/19 16:17	
n-Butylbenzene	ug/kg	ND	4.0	01/30/19 16:17	
n-Propylbenzene	ug/kg	ND	4.0	01/30/19 16:17	
Naphthalene	ug/kg	ND	10.0	01/30/19 16:17	
p-Isopropyltoluene	ug/kg	ND	4.0	01/30/19 16:17	
sec-Butylbenzene	ug/kg	ND	4.0	01/30/19 16:17	
Styrene	ug/kg	ND	4.0	01/30/19 16:17	
tert-Butylbenzene	ug/kg	ND	4.0	01/30/19 16:17	
Tetrachloroethene	ug/kg	ND	4.0	01/30/19 16:17	
Tetrahydrofuran	ug/kg	ND	40.0	01/30/19 16:17	
Toluene	ug/kg	ND	4.0	01/30/19 16:17	
trans-1,2-Dichloroethene	ug/kg	ND	4.0	01/30/19 16:17	
trans-1,3-Dichloropropene	ug/kg	ND	4.0	01/30/19 16:17	
Trichloroethene	ug/kg	ND	4.0	01/30/19 16:17	
Trichlorofluoromethane	ug/kg	ND	10.0	01/30/19 16:17	
Vinyl chloride	ug/kg	ND	4.0	01/30/19 16:17	
Xylene (Total)	ug/kg	ND	12.0	01/30/19 16:17	
1,2-Dichloroethane-d4 (S)	%.	100	75-125	01/30/19 16:17	
4-Bromofluorobenzene (S)	%.	103	75-125	01/30/19 16:17	
Toluene-d8 (S)	%.	99	75-125	01/30/19 16:17	

LABORATORY CONTROL SAMPLE & LCSD: 3180765 3180766

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	20	19.5	19.6	98	98	73-126	1	20	
1,1,1-Trichloroethane	ug/kg	20	18.4	18.2	92	91	72-128	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	20	19.5	19.4	98	97	74-126	1	20	
1,1,2-Trichloroethane	ug/kg	20	19.5	20.1	97	100	75-128	3	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	20	16.8	17.1	84	85	68-129	1	20	
1,1-Dichloroethane	ug/kg	20	19.2	19.4	96	97	71-131	1	20	
1,1-Dichloroethene	ug/kg	20	17.4	17.8	87	89	72-126	2	20	
1,1-Dichloropropene	ug/kg	20	18.1	17.9	90	90	73-125	1	20	
1,2,3-Trichlorobenzene	ug/kg	20	18.3	18.7	92	94	72-125	2	20	
1,2,3-Trichloropropane	ug/kg	20	19.1	20.6	96	103	74-125	7	20	
1,2,4-Trichlorobenzene	ug/kg	20	17.1	17.3	86	86	69-125	1	20	
1,2,4-Trimethylbenzene	ug/kg	20	18.6	18.4	93	92	72-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

LABORATORY CONTROL SAMPLE & LCSD: 3180765 3180766

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	50	50.9	53.6	102	107	70-125	5	20	
1,2-Dibromoethane (EDB)	ug/kg	20	19.6	19.8	98	99	75-126	1	20	
1,2-Dichlorobenzene	ug/kg	20	18.3	18.5	92	92	73-125	1	20	
1,2-Dichloroethane	ug/kg	20	18.7	18.9	94	94	72-125	1	20	
1,2-Dichloropropane	ug/kg	20	19.3	18.9	97	95	75-127	2	20	
1,3,5-Trimethylbenzene	ug/kg	20	18.1	17.9	90	90	70-126	1	20	
1,3-Dichlorobenzene	ug/kg	20	17.9	18.0	89	90	73-125	1	20	
1,3-Dichloropropane	ug/kg	20	19.6	19.8	98	99	75-125	1	20	
1,4-Dichlorobenzene	ug/kg	20	17.6	17.3	88	86	71-126	1	20	
2,2-Dichloropropane	ug/kg	20	19.2	18.7	96	93	67-134	3	20	
2-Butanone (MEK)	ug/kg	100	96.2	104	96	104	62-133	8	20	
2-Chlorotoluene	ug/kg	20	17.6	17.5	88	87	72-126	1	20	
4-Chlorotoluene	ug/kg	20	17.8	17.7	89	89	70-129	1	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	98.5	103	98	103	72-125	5	20	
Acetone	ug/kg	100	106	110	106	110	61-150	3	20	
Allyl chloride	ug/kg	20	17.6	17.8	88	89	69-127	1	20	
Benzene	ug/kg	20	18.4	18.2	92	91	71-129	1	20	
Bromobenzene	ug/kg	20	18.5	18.7	92	94	75-125	1	20	
Bromochloromethane	ug/kg	20	19.2	19.6	96	98	71-132	2	20	
Bromodichloromethane	ug/kg	20	19.4	19.7	97	98	75-125	1	20	
Bromoform	ug/kg	20	19.9J	20.2	100	101	71-125		20	
Bromomethane	ug/kg	20	27.5	25.1	137	125	75-145	9	20	
Carbon tetrachloride	ug/kg	20	18.1	17.7	91	88	69-131	2	20	
Chlorobenzene	ug/kg	20	17.7	17.5	88	88	72-126	1	20	
Chloroethane	ug/kg	20	23.7	22.3	119	112	73-140	6	20	
Chloroform	ug/kg	20	18.6	18.6	93	93	68-131	0	20	
Chloromethane	ug/kg	20	23.3	23.4	117	117	66-136	0	20	
cis-1,2-Dichloroethene	ug/kg	20	19.9	19.6	100	98	73-131	1	20	
cis-1,3-Dichloropropene	ug/kg	20	19.2	19.2	96	96	74-126	0	20	
Dibromochloromethane	ug/kg	20	20.2	20.7	101	103	74-125	2	20	
Dibromomethane	ug/kg	20	19.1	19.3	96	96	75-129	1	20	
Dichlorodifluoromethane	ug/kg	20	24.1	23.6	120	118	53-145	2	20	
Diethyl ether (Ethyl ether)	ug/kg	20	18.0	19.9	90	99	72-128	10	20	
Ethylbenzene	ug/kg	20	17.8	17.6	89	88	72-125	1	20	
Hexachloro-1,3-butadiene	ug/kg	20	17.6	17.2	88	86	69-129	3	20	
Isopropylbenzene (Cumene)	ug/kg	20	19.1	18.8	96	94	75-125	2	20	
Methyl-tert-butyl ether	ug/kg	20	19.9	20.6	100	103	72-129	4	20	
Methylene Chloride	ug/kg	20	18.3J	19J	91	95	56-150		20	
n-Butylbenzene	ug/kg	20	18.1	17.9	90	89	69-126	1	20	
n-Propylbenzene	ug/kg	20	18.7	18.5	94	92	68-130	1	20	
Naphthalene	ug/kg	20	18.8	19.3	94	97	71-125	3	20	
p-Isopropyltoluene	ug/kg	20	18.6	18.2	93	91	66-131	2	20	
sec-Butylbenzene	ug/kg	20	18.2	18.1	91	91	70-127	1	20	
Styrene	ug/kg	20	19.0	18.7	95	93	75-125	1	20	
tert-Butylbenzene	ug/kg	20	19.5	19.1	98	96	71-126	2	20	
Tetrachloroethene	ug/kg	20	17.6	17.3	88	87	70-130	2	20	
Tetrahydrofuran	ug/kg	200	210	208	105	104	67-146	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

LABORATORY CONTROL SAMPLE & LCSD: 3180765 3180766

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Toluene	ug/kg	20	18.1	17.8	90	89	70-125	2	20	
trans-1,2-Dichloroethene	ug/kg	20	19.8	19.4	99	97	69-132	2	20	
trans-1,3-Dichloropropene	ug/kg	20	19.9	20.2	99	101	75-125	2	20	
Trichloroethene	ug/kg	20	19.0	18.9	95	94	75-125	0	20	
Trichlorofluoromethane	ug/kg	20	24.8	23.1	124	115	65-138	7	20	
Vinyl chloride	ug/kg	20	22.8	22.7	114	113	68-129	1	20	
Xylene (Total)	ug/kg	60	54.2	53.1	90	89	72-125	2	20	
1,2-Dichloroethane-d4 (S)	%.				98	102	75-125			
4-Bromofluorobenzene (S)	%.				99	101	75-125			
Toluene-d8 (S)	%.				100	99	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

QC Batch: 587591 Analysis Method: EPA 8082A
QC Batch Method: EPA 3550 Analysis Description: 8082A GCS PCB
Associated Lab Samples: 10462679001

METHOD BLANK: 3180382 Matrix: Solid
Associated Lab Samples: 10462679001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	01/29/19 08:55	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	01/29/19 08:55	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	01/29/19 08:55	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	01/29/19 08:55	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	01/29/19 08:55	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	01/29/19 08:55	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	01/29/19 08:55	
Decachlorobiphenyl (S)	%.	104	49-125	01/29/19 08:55	
Tetrachloro-m-xylene (S)	%.	99	57-125	01/29/19 08:55	

LABORATORY CONTROL SAMPLE: 3180383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	667	604	91	69-125	
PCB-1260 (Aroclor 1260)	ug/kg	667	614	92	63-125	
Decachlorobiphenyl (S)	%.			99	49-125	
Tetrachloro-m-xylene (S)	%.			93	57-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180384 3180385

Parameter	Units	10462511001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	ND	764	762	646	666	84	87	56-125	3	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	764	762	658	679	86	89	45-125	3	30	
Decachlorobiphenyl (S)	%.						77	81	49-125			
Tetrachloro-m-xylene (S)	%.						78	83	57-125			

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REPORT OF LABORATORY ANALYSIS

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(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

QC Batch: 587722
QC Batch Method: EPA 3550
Analysis Method: EPA 8270D by SIM
Analysis Description: 8270D CPAH by SIM MSSV
Associated Lab Samples: 10462679001

METHOD BLANK: 3180779
Matrix: Solid
Associated Lab Samples: 10462679001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	10.0	01/30/19 15:39	
2-Chloronaphthalene	ug/kg	ND	10.0	01/30/19 15:39	
2-Methylnaphthalene	ug/kg	ND	10.0	01/30/19 15:39	
Acenaphthene	ug/kg	ND	10.0	01/30/19 15:39	
Acenaphthylene	ug/kg	ND	10.0	01/30/19 15:39	
Anthracene	ug/kg	ND	10.0	01/30/19 15:39	
Benzo(a)anthracene	ug/kg	ND	10.0	01/30/19 15:39	
Benzo(a)pyrene	ug/kg	ND	10.0	01/30/19 15:39	
Benzo(g,h,i)perylene	ug/kg	ND	10.0	01/30/19 15:39	
Chrysene	ug/kg	ND	10.0	01/30/19 15:39	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	01/30/19 15:39	
Dibenzofuran	ug/kg	ND	10.0	01/30/19 15:39	
Fluoranthene	ug/kg	ND	10.0	01/30/19 15:39	
Fluorene	ug/kg	ND	10.0	01/30/19 15:39	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	01/30/19 15:39	
Naphthalene	ug/kg	ND	10.0	01/30/19 15:39	
Phenanthrene	ug/kg	ND	10.0	01/30/19 15:39	
Pyrene	ug/kg	ND	10.0	01/30/19 15:39	
2-Fluorobiphenyl (S)	%.	71	30-125	01/30/19 15:39	
p-Terphenyl-d14 (S)	%.	71	30-127	01/30/19 15:39	

LABORATORY CONTROL SAMPLE: 3180780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	100	61.3	61	38-125	
2-Chloronaphthalene	ug/kg	200	126	63	41-125	
2-Methylnaphthalene	ug/kg	100	60.9	61	42-125	
Acenaphthene	ug/kg	100	68.0	68	43-125	
Acenaphthylene	ug/kg	100	70.5	70	38-125	
Anthracene	ug/kg	100	77.8	78	52-125	
Benzo(a)anthracene	ug/kg	100	72.0	72	56-125	
Benzo(a)pyrene	ug/kg	100	75.0	75	57-125	
Benzo(g,h,i)perylene	ug/kg	100	67.6	68	51-125	
Chrysene	ug/kg	100	73.4	73	60-125	
Dibenz(a,h)anthracene	ug/kg	100	70.3	70	51-125	
Dibenzofuran	ug/kg	200	139	69	48-125	
Fluoranthene	ug/kg	100	77.5	77	60-125	
Fluorene	ug/kg	100	74.3	74	50-125	
Indeno(1,2,3-cd)pyrene	ug/kg	100	70.7	71	52-125	
Naphthalene	ug/kg	100	59.7	60	39-125	

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REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
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(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

LABORATORY CONTROL SAMPLE: 3180780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	100	75.2	75	57-125	
Pyrene	ug/kg	100	78.5	78	59-125	
2-Fluorobiphenyl (S)	%.			61	30-125	
p-Terphenyl-d14 (S)	%.			68	30-127	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180781 3180782

Parameter	Units	10462679001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	ND	108	108	58.9	62.0	54	57	32-125	5	30	
2-Chloronaphthalene	ug/kg	ND	217	217	154	151	71	70	43-125	2	30	
2-Methylnaphthalene	ug/kg	ND	108	108	57.7	62.7	53	58	36-125	8	30	
Acenaphthene	ug/kg	ND	108	108	80.7	76.4	74	71	30-125	5	30	
Acenaphthylene	ug/kg	ND	108	108	84.5	80.0	78	74	39-125	5	30	
Anthracene	ug/kg	ND	108	108	91.6	88.9	84	82	30-126	3	30	
Benzo(a)anthracene	ug/kg	ND	108	108	79.1	78.2	73	72	30-150	1	30	
Benzo(a)pyrene	ug/kg	ND	108	108	78.4	77.9	72	72	30-146	1	30	
Benzo(g,h,i)perylene	ug/kg	ND	108	108	67.7	67.2	62	62	30-150	1	30	
Chrysene	ug/kg	ND	108	108	76.8	75.7	71	70	30-150	1	30	
Dibenz(a,h)anthracene	ug/kg	ND	108	108	69.4	69.2	64	64	30-125	0	30	
Dibenzofuran	ug/kg	ND	217	217	157	149	72	69	38-125	5	30	
Fluoranthene	ug/kg	ND	108	108	88.4	83.1	80	75	30-150	6	30	
Fluorene	ug/kg	ND	108	108	80.3	77.4	74	71	39-125	4	30	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	108	108	71.1	69.4	66	64	30-144	2	30	
Naphthalene	ug/kg	ND	108	108	47.6	64.7	44	60	30-125	30	30	
Phenanthrene	ug/kg	ND	108	108	89.1	86.7	82	80	30-150	3	30	
Pyrene	ug/kg	ND	108	108	85.5	80.7	78	73	30-150	6	30	
2-Fluorobiphenyl (S)	%.						66	64	30-125			
p-Terphenyl-d14 (S)	%.						68	65	30-127			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

QC Batch: 587593 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3550 Analysis Description: NWTPH-Dx GCS
Associated Lab Samples: 10462679001

METHOD BLANK: 3180399 Matrix: Solid
Associated Lab Samples: 10462679001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range	mg/kg	ND	15.0	01/29/19 09:00	
Motor Oil Range	mg/kg	ND	10.0	01/29/19 09:00	
n-Triacontane (S)	%.	98	50-150	01/29/19 09:00	
o-Terphenyl (S)	%.	93	50-150	01/29/19 09:00	

LABORATORY CONTROL SAMPLE: 3180400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel Range	mg/kg	50	47.8	96	50-150	
Motor Oil Range	mg/kg	50	46.5	93	50-150	
n-Triacontane (S)	%.			97	50-150	
o-Terphenyl (S)	%.			89	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180401 3180402

Parameter	Units	10462511001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Fuel Range	mg/kg	ND	57.6	57.5	51.9	53.2	89	92	50-150	2	30	
Motor Oil Range	mg/kg	ND	57.6	57.5	58.8	58.8	97	97	50-150	0	30	
n-Triacontane (S)	%.						92	98	50-150			
o-Terphenyl (S)	%.						83	88	50-150			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: 587999

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

METHOD CROSS REFERENCE TABLE

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

Parameter	Matrix	Analytical Method	Preparation Method
8260B MSV 5035 Low Level	Solid	SW-846 8260B	SW-846 5035A/5030B

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2004-004.002(8B) Former Provis
Pace Project No.: 10462679

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10462679001	**EW-012519 - 2.8**	EPA 3550	587591	EPA 8082A	587695
10462679001	**EW-012519 - 2.8**	EPA 3550	587593	NWTPH-Dx	587698
10462679001	**EW-012519 - 2.8**	EPA 3050	587661	EPA 6010D	587758
10462679001	**EW-012519 - 2.8**	ASTM D2974	587674		
10462679001	**EW-012519 - 2.8**	EPA 3550	587722	EPA 8270D by SIM	587990
10462679001	**EW-012519 - 2.8**	EPA 5035 Low	587708	EPA 8260B	587999

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Doc

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

WO# : 10462679

10462679

1580171

Section A
Required Client Information:

Company: ETG
Address: 1176 W 7th AVE
EUGENE, OR 97402
Email To: DAN LANDRY
Phone: 541-743-2600 Fax:
Requested Due Date/TAT: STANDARD

Section B
Required Project Information:

Report To: DAN LANDRY
Copy To: DAVE SEAVER
Purchase Order No.:
Project Name: ESTES WEST TRUCKING
Project Number: 2004-001.002 (BB)

Section C
Invoice Information:

Attention:
Company Name: ETG
Address: 1176 W 7TH AVE
Pace Quote Reference:
Pace Project Manager: JENNIFER GROSS
Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: WA

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: NWTPH-Dx (Diesel Oil)	VOC Full (8260B)	CARCINOGENIC (8270B SIM)	TOTAL LEAD (6010B)	PCBs (8082A)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	EW-012519-2.8	SL	GT			1/25/19	1035		7									X	X	X	X	X		001
2	TRIP BLANK					—			2										X				HOLD		002
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	STEVE MCCRAY / ETG	1/25/19	1100	[signature] / Pace	1/25/19	1525	2.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: STEVE R MCCRAY

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 1/25/19

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

ORIGINAL

Sample Condition Upon Receipt

Client Name: ETG

Project #: WO#: 10462679

PM: JMG Due Date: 02/04/19

CLIENT: ET Group

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number: 774280668018

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☐ Yes ☑ No

Thermometer Used: ☑ G87A9170600254 ☐ G87A9155100842

Type of Ice: ☑ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Cooler Temp Read (°C): 2.5 **Cooler Temp Corrected (°C):** 2.8

Temp should be above freezing to 6°C **Correction Factor:** +0.3 **Date and Initials of Person Examining Contents:** TL 1/28/19

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☑ No

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

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No		1.
Chain of Custody Filled Out?	☑ Yes	☐ No		2.
Chain of Custody Relinquished?	☑ Yes	☐ No		3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		6.
Rush Turn Around Time Requested?	☐ Yes	☑ No		7.
Sufficient Volume?	☑ Yes	☐ No		8.
Correct Containers Used?	☑ Yes	☐ No		9.
-Pace Containers Used?	☑ Yes	☐ No		
Containers Intact?	☑ Yes	☐ No		10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? Matrix: SL	☑ Yes	☐ No		12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes	☐ No	☑ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased): 092418-3				

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Steve McCray Date/Time: 01/25/19

Field Data Required? ☐ Yes ☐ No

Comments/Resolution: Update project name to 2008-004.002(8B) Former Provisioners Express Facility.

Project Manager Review: Jenni Gross **Date:** 01/28/19

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

Labeled by: TL

SCUR Exceptions: **Workorder #:**

Issue	Sample ID	Container Type/#
No temp blank found	1.9, 1.9, 3.1, 3.0 = 2.5	

pH Adjustment Log for Preserved Samples

Sample iD	Type of Preservative	pH Upon Receipt	Date Preservation Adjusted	Time Preservation Adjusted	Amount of Additional Preservative Added	Lot # of Preservative Added	pH After Adjustment	Initials

ATTACHMENT D
FIELD SAMPLING DATA SHEETS

FIELD SAMPLING DATA SHEET
LOW-FLOW GROUNDWATER SAMPLING

PROJECT NAME: ESTES West WELL ID: MW-9

SITE ADDRESS: Auburn, WA LABEL CODE: EW-02 19 19-01

DUPLICATE ID: _____

Wind From	N	NE	E	SE	S	SW	W	NW	Light	Medium	Heavy
Weather	Sunny		Cloudy		Rain		_____?		Temperature:	45 °F	____ °C

WELL DATA

Date	Time	Casing Diameter	DT-Product	DT-Water	Product Thickness
2/19/19	0802	2	—	4.70	—

PUMP/INTAKE DEPTH (ft btoc): _____

WATER QUALITY DATA

Time	Liters	PH	Temp	DO	Spec. Cond.	Redox	Turbidity
0850	0.5	5.60	8.9	0.65	302	43.3	CLEAR w/ YELLOW TINT
0852	0.7	5.62	9.6	0.58	200	44.8	"
0854	0.9	5.84	9.8	0.46	199	47.8	"
0856	1.1	5.85	9.8	0.47	198	48.1	"
0858	1.3	5.86	9.8	0.48	193	48.2	"

GROUNDWATER SAMPLE DATA

Sample Date: 2/19/19

Sample Time: 0900

Bottle Type	√	Amount	& Volume	Preservative	Filter	
VOA Glass	√	6	40 ml	HCl	No	
Amber Glass	√	2	250 ml	HCl	No	
Poly			250 ml			
Total Bottles		8				

Notes: PUMP RATE = 0.1 LPM. DTW HELD @ 4.90

Sampled By: Steve McCray Signature: Steve

FIELD SAMPLING DATA SHEET
LOW-FLOW GROUNDWATER SAMPLING

PROJECT NAME: ESTES West WELL ID: MW-6

SITE ADDRESS: Auburn, WA LABEL CODE: EW-02 19 19-2

DUPLICATE ID: _____

Wind From	N	NE	E	SE	S	SW	W	NW	Light	Medium	Heavy
Weather	Sunny		Cloudy		Rain		_____?		Temperature:	45 °F	____°C

WELL DATA

Date	Time	Casing Diameter	DT-Product	DT-Water	Product Thickness
2/19/19	0805	2	—	4.69	—

PUMP/INTAKE DEPTH (ft btoc): _____

WATER QUALITY DATA

Time	Liters	PH	Temp	DO	Spec. Cond.	Redox	Turbidity
0920	1	6.06	11.6	0.53	608	-54.4	CLEAR
0922	2	6.08	12.0	0.49	608	-54.8	"
0924	3	6.10	12.1	0.41	609	-57.1	"
0926	4	6.11	12.2	0.40	609	-59.0	"
0928	5	6.11	12.1	0.39	609	-59.2	"

GROUNDWATER SAMPLE DATA

Sample Date: 2/19/19

Sample Time: 0935

Bottle Type	√	Amount & Volume		Preservative	Filter	
VOA Glass			40 ml	HCl	No	
Amber Glass	√	2	250 ml	HCl	No	
Poly			250 ml			
Total Bottles		2				

Notes: No Drawn Down @ 0.5 LPM

Sampled By: Steve McCray Signature: _____

FIELD SAMPLING DATA SHEET
LOW-FLOW GROUNDWATER SAMPLING

PROJECT NAME: ESTES West WELL ID: MW-8

SITE ADDRESS: Auburn, WA LABEL CODE: EW-02 19 19-3

DUPLICATE ID: _____

Wind From	N	NE	E	SE	S	SW	W	NW	Light	Medium	Heavy
Weather	Sunny		Cloudy		Rain		_____?		Temperature:	45 °F	____ °C

WELL DATA

Date	Time	Casing Diameter	DT-Product	DT-Water	Product Thickness
2/19/19	0804	2	—	3.73	—

PUMP/INTAKE DEPTH (ft btoc): _____

WATER QUALITY DATA

Time	Liters	PH	Temp	DO	Spec. Cond.	Redox	Turbidity	
1110	0.5	6.44	11.9	0.41	741	-34.0	clear w/ yellow tint	
1112	1.1	6.45	11.9	0.42	741	-41.2	"	
1114	1.7	6.45	12.0	0.41	741	-41.8	"	
1116	2.3	6.45	11.9	0.41	744	-42.1	"	

GROUNDWATER SAMPLE DATA

Sample Date: 2/19/19

Sample Time: 1120

Bottle Type	√	Amount & Volume		Preservative	Filter	
VOA Glass			40 ml	HCl	No	
Amber Glass	✓	2	250 ml	HCl	No	
Poly			250 ml			
Total Bottles		2				

Notes: PUMP RATE 0.3 LPM

Sampled By: Steve McCray Signature: Steve McCray

FIELD SAMPLING DATA SHEET
LOW-FLOW GROUNDWATER SAMPLING

PROJECT NAME: ESTES West WELL ID: MW-3

SITE ADDRESS: Auburn, WA LABEL CODE: EW-02 19 19- 4

DUPLICATE ID: EW-021919-5

Wind From	N	NE	E	SE	S	SW	W	NW	Light	Medium	Heavy
Weather	Sunny		Cloudy		(Rain)		_____?		Temperature:	45 °F	____°C

WELL DATA

Date	Time	Casing Diameter	DT-Product	DT-Water	Product Thickness
2/19/19	0810	2		4.77	

PUMP/INTAKE DEPTH (ft btoc):_____

WATER QUALITY DATA

Time	Liters	PH	Temp	DO	Spec. Cond.	Redox	Turbidity
1200	1	6.45	12.5	0.33	653	-51.5	CLEAR
1202	2	6.43	12.5	0.34	653	-49.9	"
1204	3	6.42	12.5	0.33	648	-50.1	"
1206	4	6.42	12.5	0.34	650	-50.2	"

GROUNDWATER SAMPLE DATA

Sample Date: 2/19/19

Sample Time: 1210 DUPLICATE 1230

Bottle Type	√	Amount & Volume		Preservative	Filter	
VOA Glass			40 ml	HCl	No	
Amber Glass	✓	2x2	250 ml	HCl	No	
Poly			250 ml			
Total Bottles		4				

Notes: PUMP @ 0.5 LPM w/ NO DRAW DOWN

Sampled By: Steve McCray Signature: [signature]

FIELD SAMPLING DATA SHEET
LOW-FLOW GROUNDWATER SAMPLING

PROJECT NAME: ESTES West WELL ID: MW-10

SITE ADDRESS: Auburn, WA LABEL CODE: EW-02 19 19- 6

DUPLICATE ID: _____

Wind From	N	NE	E	SE	S	SW	W	NW	Light	Medium	Heavy
Weather	Sunny		Cloudy		Rain		_____?		Temperature:	45 °F	____°C

WELL DATA

Date	Time	Casing Diameter	DT-Product	DT-Water	Product Thickness
2/19/19	~~1550~~ 0812*	2	—	4.09*	—

* PRIOR TO DEV.

AFTER DEV. = 05.00

PUMP/INTAKE DEPTH (ft btoc): _____

WATER QUALITY DATA

Time	Liters	PH	Temp	DO	Spec. Cond.	Redox	Turbidity
1530	1	6.54	11.5	0.73	955	-48.0	CLEAR
1532	2	6.52	11.7	0.71	940	-48.2	"
1534	3	6.52	11.7	0.70	939	-48.3	"
1536	4	6.52	11.7	0.69	940	-48.4	"

GROUNDWATER SAMPLE DATA

Sample Date: 2/19/19

Sample Time: 1540

Bottle Type	√	Amount & Volume		Preservative	Filter	
VOA Glass	✓	6	40 ml	HCl	No	
Amber Glass	✓	2	250 ml	HCl	No	
Poly	✓	1	250 ml	HNO_3	NO	
AMBER	✓	4	1L	—	NO	
Total Bottles		13				

Notes: PUMP RATE 0.5 LPM

Sampled By: Steve McCray Signature: _____

GW SAMPLE / MW-10 DEVELOP.

2/19/19 (TUE)

0725 ETA ONSITE. COLLECT DTW

WELL	DTW
MW-1	3.88
MW-2	4.12
MW-3	4.77
MW-4	4.90
MW-5	4.80

WELL	DTW
MW-6	4.69
MW-7	3.85
MW-8	3.73
MW-9	4.70
MW-10	4.09 *

0830 BEGIN SAMPLE MW-9

~~BEGIN DEVELOPING MW-10~~

* BEFORE DEVELOP.

1000 BEGIN TO DEVELOP MW-10.

TOTAL PUMP VOL ≈ 80 GAL. SAMPLE WHILE DEVELOPING MW-10 (OTHER MWS)

1620 ETA OFFSITE

ATTACHMENT E
LABORATORY ANALYTICAL REPORT - GROUNDWATER

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

February 26, 2019

Dan Landry
Environmental Technologies Group, Inc
1176 West 7th Avenue
Eugene, OR 97402

RE: Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

Dear Dan Landry:
Enclosed are the analytical results for sample(s) received by the laboratory on February 21, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(206)957-2426
Project Manager

Enclosures

cc: Dave Seaver, Environmental Technologies Group, Inc.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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(612)607-1700

SAMPLE SUMMARY

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10464832001	**EW-021919-1**	Water	02/19/19 09:00	02/21/19 09:10
10464832002	**EW-021919-2**	Water	02/19/19 09:35	02/21/19 09:10
10464832003	**EW-021919-3**	Water	02/19/19 11:20	02/21/19 09:10
10464832004	**EW-021919-4**	Water	02/19/19 12:10	02/21/19 09:10
10464832005	**EW-021919-5**	Water	02/19/19 12:30	02/21/19 09:10
10464832006	**EW-021919-6**	Water	02/19/19 15:40	02/21/19 09:10
10464832007	**Trip Blank**	Water	02/19/19 00:00	02/21/19 09:10

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SAMPLE ANALYTE COUNT

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10464832001	**EW-021919-1**	NWTPH-Dx	ST1	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	MJD	7	PASI-M
10464832002	**EW-021919-2**	NWTPH-Dx	ST1	4	PASI-M
10464832003	**EW-021919-3**	NWTPH-Dx	ST1	4	PASI-M
10464832004	**EW-021919-4**	NWTPH-Dx	ST1	4	PASI-M
10464832005	**EW-021919-5**	NWTPH-Dx	ST1	4	PASI-M
10464832006	**EW-021919-6**	EPA 8082A	RAG	9	PASI-M
		NWTPH-Dx	ST1	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 8270D by SIM	AT1	19	PASI-M
		EPA 8260B	MJD	69	PASI-M

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

Sample: EW-021919-1 **Lab ID: 10464832001** Collected: 02/19/19 09:00 Received: 02/21/19 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range	ND	mg/L	0.40	1	02/22/19 12:34	02/24/19 15:59	68334-30-5	
Motor Oil Range	ND	mg/L	0.40	1	02/22/19 12:34	02/24/19 15:59		
Surrogates								
o-Terphenyl (S)	73	%.	50-150	1	02/22/19 12:34	02/24/19 15:59	84-15-1	
n-Triacontane (S)	71	%.	50-150	1	02/22/19 12:34	02/24/19 15:59	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		02/25/19 18:56		
Surrogates								
a,a,a-Trifluorotoluene (S)	95	%.	50-150	1		02/25/19 18:56	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		02/22/19 15:00	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		02/22/19 15:00	100-41-4	
Toluene	ND	ug/L	1.0	1		02/22/19 15:00	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		02/22/19 15:00	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%.	75-125	1		02/22/19 15:00	17060-07-0	
Toluene-d8 (S)	95	%.	75-125	1		02/22/19 15:00	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		02/22/19 15:00	460-00-4	

Sample: EW-021919-2 **Lab ID: 10464832002** Collected: 02/19/19 09:35 Received: 02/21/19 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range	**0.47**	mg/L	0.40	1	02/22/19 12:34	02/24/19 16:21	68334-30-5	
Motor Oil Range	ND	mg/L	0.40	1	02/22/19 12:34	02/24/19 16:21		
Surrogates								
o-Terphenyl (S)	82	%.	50-150	1	02/22/19 12:34	02/24/19 16:21	84-15-1	
n-Triacontane (S)	86	%.	50-150	1	02/22/19 12:34	02/24/19 16:21	638-68-6	

Sample: EW-021919-3 **Lab ID: 10464832003** Collected: 02/19/19 11:20 Received: 02/21/19 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range	ND	mg/L	0.40	1	02/22/19 12:34	02/24/19 15:48	68334-30-5	
Motor Oil Range	ND	mg/L	0.40	1	02/22/19 12:34	02/24/19 15:48		
Surrogates								
o-Terphenyl (S)	83	%.	50-150	1	02/22/19 12:34	02/24/19 15:48	84-15-1	
n-Triacontane (S)	76	%.	50-150	1	02/22/19 12:34	02/24/19 15:48	638-68-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

Sample: EW-021919-4 **Lab ID: 10464832004** Collected: 02/19/19 12:10 Received: 02/21/19 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range	ND	mg/L	0.40	1	02/22/19 12:34	02/24/19 16:32	68334-30-5	
Motor Oil Range	ND	mg/L	0.40	1	02/22/19 12:34	02/24/19 16:32		
Surrogates								
o-Terphenyl (S)	81	%.	50-150	1	02/22/19 12:34	02/24/19 16:32	84-15-1	
n-Triacontane (S)	84	%.	50-150	1	02/22/19 12:34	02/24/19 16:32	638-68-6	

Sample: EW-021919-5 **Lab ID: 10464832005** Collected: 02/19/19 12:30 Received: 02/21/19 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range	ND	mg/L	0.40	1	02/22/19 12:34	02/24/19 16:43	68334-30-5	
Motor Oil Range	ND	mg/L	0.40	1	02/22/19 12:34	02/24/19 16:43		
Surrogates								
o-Terphenyl (S)	91	%.	50-150	1	02/22/19 12:34	02/24/19 16:43	84-15-1	
n-Triacontane (S)	94	%.	50-150	1	02/22/19 12:34	02/24/19 16:43	638-68-6	

Sample: EW-021919-6 **Lab ID: 10464832006** Collected: 02/19/19 15:40 Received: 02/21/19 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA Mod. 3510C							
PCB-1016 (Aroclor 1016)	ND	ug/L	0.098	1	02/21/19 19:15	02/22/19 09:38	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.098	1	02/21/19 19:15	02/22/19 09:38	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.098	1	02/21/19 19:15	02/22/19 09:38	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.098	1	02/21/19 19:15	02/22/19 09:38	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.098	1	02/21/19 19:15	02/22/19 09:38	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.098	1	02/21/19 19:15	02/22/19 09:38	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.098	1	02/21/19 19:15	02/22/19 09:38	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	34	%.	30-125	1	02/21/19 19:15	02/22/19 09:38	877-09-8	
Decachlorobiphenyl (S)	45	%.	30-125	1	02/21/19 19:15	02/22/19 09:38	2051-24-3	
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range	ND	mg/L	0.40	1	02/22/19 12:34	02/24/19 16:54	68334-30-5	
Motor Oil Range	ND	mg/L	0.40	1	02/22/19 12:34	02/24/19 16:54		
Surrogates								
o-Terphenyl (S)	90	%.	50-150	1	02/22/19 12:34	02/24/19 16:54	84-15-1	
n-Triacontane (S)	102	%.	50-150	1	02/22/19 12:34	02/24/19 16:54	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		02/25/19 19:13		G-
Surrogates								
a,a,a-Trifluorotoluene (S)	91	%.	50-150	1		02/25/19 19:13	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

Sample: EW-021919-6 **Lab ID: 10464832006** Collected: 02/19/19 15:40 Received: 02/21/19 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010							
Lead	ND	ug/L	10.0	1	02/22/19 05:15	02/22/19 13:22	7439-92-1	
8270D MSSV CPAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA Mod. 3510C							
1-Methylnaphthalene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	91-57-6	
Acenaphthene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	83-32-9	
Acenaphthylene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	208-96-8	
Anthracene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	50-32-8	
Benzo(g,h,i)perylene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	191-24-2	
Chrysene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	53-70-3	
Dibenzofuran	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	132-64-9	
Fluoranthene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	206-44-0	
Fluorene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	193-39-5	
Naphthalene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	91-20-3	
Phenanthrene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	85-01-8	
Pyrene	ND	ug/L	0.039	1	02/21/19 19:16	02/22/19 18:12	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	57	%.	37-125	1	02/21/19 19:16	02/22/19 18:12	321-60-8	
p-Terphenyl-d14 (S)	67	%.	45-125	1	02/21/19 19:16	02/22/19 18:12	1718-51-0	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/19 12:42	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/22/19 12:42	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/19 12:42	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/22/19 12:42	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/22/19 12:42	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/22/19 12:42	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/22/19 12:42	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/22/19 12:42	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/22/19 12:42	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		02/22/19 12:42	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/22/19 12:42	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/22/19 12:42	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		02/22/19 12:42	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/22/19 12:42	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/22/19 12:42	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/22/19 12:42	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		02/22/19 12:42	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/22/19 12:42	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/22/19 12:42	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/22/19 12:42	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/22/19 12:42	106-46-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

Sample: EW-021919-6 **Lab ID: 10464832006** Collected: 02/19/19 15:40 Received: 02/21/19 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
2,2-Dichloropropane	ND	ug/L	4.0	1		02/22/19 12:42	594-20-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/22/19 12:42	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/22/19 12:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/22/19 12:42	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/22/19 12:42	108-10-1	
Acetone	ND	ug/L	20.0	1		02/22/19 12:42	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		02/22/19 12:42	107-05-1	
Benzene	ND	ug/L	1.0	1		02/22/19 12:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/22/19 12:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/22/19 12:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/22/19 12:42	75-27-4	
Bromoform	ND	ug/L	4.0	1		02/22/19 12:42	75-25-2	
Bromomethane	ND	ug/L	4.0	1		02/22/19 12:42	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/22/19 12:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/22/19 12:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/22/19 12:42	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/22/19 12:42	67-66-3	
Chloromethane	ND	ug/L	4.0	1		02/22/19 12:42	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/22/19 12:42	124-48-1	
Dibromomethane	ND	ug/L	4.0	1		02/22/19 12:42	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/22/19 12:42	75-71-8	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		02/22/19 12:42	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/22/19 12:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/22/19 12:42	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/22/19 12:42	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/22/19 12:42	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		02/22/19 12:42	75-09-2	
Naphthalene	ND	ug/L	4.0	1		02/22/19 12:42	91-20-3	
Styrene	ND	ug/L	1.0	1		02/22/19 12:42	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/22/19 12:42	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/22/19 12:42	109-99-9	
Toluene	ND	ug/L	1.0	1		02/22/19 12:42	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		02/22/19 12:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/22/19 12:42	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		02/22/19 12:42	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/22/19 12:42	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/19 12:42	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		02/22/19 12:42	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		02/22/19 12:42	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		02/22/19 12:42	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/22/19 12:42	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		02/22/19 12:42	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/22/19 12:42	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/19 12:42	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		02/22/19 12:42	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%.	75-125	1		02/22/19 12:42	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

Sample: EW-021919-6 **Lab ID: 10464832006** Collected: 02/19/19 15:40 Received: 02/21/19 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Surrogates								
Toluene-d8 (S)	98	%.	75-125	1		02/22/19 12:42	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		02/22/19 12:42	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

QC Batch: 591280 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10464832001, 10464832006

METHOD BLANK: 3197721 Matrix: Water
Associated Lab Samples: 10464832001, 10464832006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	02/25/19 15:34	
a,a,a-Trifluorotoluene (S)	%.	89	50-150	02/25/19 15:34	

METHOD BLANK: 3197722 Matrix: Water
Associated Lab Samples: 10464832001, 10464832006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	02/25/19 15:51	
a,a,a-Trifluorotoluene (S)	%.	95	50-150	02/25/19 15:51	

LABORATORY CONTROL SAMPLE & LCSD: 3197723 3197724

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1020	1060	102	106	75-125	4	20	
a,a,a-Trifluorotoluene (S)	%.				102	99	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3197859 3197860

Parameter	Units	10465040002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	<19.6	1000	1000	1020	1080	102	108	75-125	5	30	
a,a,a-Trifluorotoluene (S)	%.						101	104	50-150			

SAMPLE DUPLICATE: 3197858

Parameter	Units	10465040001 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	<19.6	ND		30	
a,a,a-Trifluorotoluene (S)	%.	86	88	2		

SAMPLE DUPLICATE: 3197861

Parameter	Units	10465040003 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	<19.6	ND		30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

SAMPLE DUPLICATE: 3197861

Parameter	Units	10465040003 Result	Dup Result	RPD	Max RPD	Qualifiers
a,a,a-Trifluorotoluene (S)	%.	91	88	4		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

QC Batch: 590972 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010 Analysis Description: 6010D Water
Associated Lab Samples: 10464832006

METHOD BLANK: 3195991 Matrix: Water
Associated Lab Samples: 10464832006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	10.0	02/22/19 13:10	

LABORATORY CONTROL SAMPLE: 3195992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1000	1030	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195993 3195994

Parameter	Units	10464803001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	ND	1000	1000	1030	1040	103	104	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

QC Batch: 591005 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W
Associated Lab Samples: 10464832006

METHOD BLANK: 3196083 Matrix: Water
Associated Lab Samples: 10464832006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/22/19 11:07	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/22/19 11:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/22/19 11:07	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/22/19 11:07	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	02/22/19 11:07	
1,1-Dichloroethane	ug/L	ND	1.0	02/22/19 11:07	
1,1-Dichloroethene	ug/L	ND	1.0	02/22/19 11:07	
1,1-Dichloropropene	ug/L	ND	1.0	02/22/19 11:07	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/22/19 11:07	
1,2,3-Trichloropropane	ug/L	ND	4.0	02/22/19 11:07	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/22/19 11:07	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	02/22/19 11:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	02/22/19 11:07	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/22/19 11:07	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/22/19 11:07	
1,2-Dichloroethane	ug/L	ND	1.0	02/22/19 11:07	
1,2-Dichloropropane	ug/L	ND	4.0	02/22/19 11:07	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	02/22/19 11:07	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/22/19 11:07	
1,3-Dichloropropane	ug/L	ND	1.0	02/22/19 11:07	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/22/19 11:07	
2,2-Dichloropropane	ug/L	ND	4.0	02/22/19 11:07	
2-Butanone (MEK)	ug/L	ND	5.0	02/22/19 11:07	
2-Chlorotoluene	ug/L	ND	1.0	02/22/19 11:07	
4-Chlorotoluene	ug/L	ND	1.0	02/22/19 11:07	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	02/22/19 11:07	
Acetone	ug/L	ND	20.0	02/22/19 11:07	
Allyl chloride	ug/L	ND	4.0	02/22/19 11:07	
Benzene	ug/L	ND	1.0	02/22/19 11:07	
Bromobenzene	ug/L	ND	1.0	02/22/19 11:07	
Bromochloromethane	ug/L	ND	1.0	02/22/19 11:07	
Bromodichloromethane	ug/L	ND	1.0	02/22/19 11:07	
Bromoform	ug/L	ND	4.0	02/22/19 11:07	
Bromomethane	ug/L	ND	4.0	02/22/19 11:07	
Carbon tetrachloride	ug/L	ND	1.0	02/22/19 11:07	
Chlorobenzene	ug/L	ND	1.0	02/22/19 11:07	
Chloroethane	ug/L	ND	1.0	02/22/19 11:07	
Chloroform	ug/L	ND	1.0	02/22/19 11:07	
Chloromethane	ug/L	ND	4.0	02/22/19 11:07	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/22/19 11:07	
cis-1,3-Dichloropropene	ug/L	ND	4.0	02/22/19 11:07	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

METHOD BLANK: 3196083 Matrix: Water
Associated Lab Samples: 10464832006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	02/22/19 11:07	
Dibromomethane	ug/L	ND	4.0	02/22/19 11:07	
Dichlorodifluoromethane	ug/L	ND	1.0	02/22/19 11:07	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	02/22/19 11:07	
Ethylbenzene	ug/L	ND	1.0	02/22/19 11:07	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/22/19 11:07	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	02/22/19 11:07	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/22/19 11:07	
Methylene Chloride	ug/L	ND	4.0	02/22/19 11:07	
n-Butylbenzene	ug/L	ND	1.0	02/22/19 11:07	
n-Propylbenzene	ug/L	ND	1.0	02/22/19 11:07	
Naphthalene	ug/L	ND	4.0	02/22/19 11:07	
p-Isopropyltoluene	ug/L	ND	1.0	02/22/19 11:07	
sec-Butylbenzene	ug/L	ND	1.0	02/22/19 11:07	
Styrene	ug/L	ND	1.0	02/22/19 11:07	
tert-Butylbenzene	ug/L	ND	1.0	02/22/19 11:07	
Tetrachloroethene	ug/L	ND	1.0	02/22/19 11:07	
Tetrahydrofuran	ug/L	ND	10.0	02/22/19 11:07	
Toluene	ug/L	ND	1.0	02/22/19 11:07	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/22/19 11:07	
trans-1,3-Dichloropropene	ug/L	ND	4.0	02/22/19 11:07	
Trichloroethene	ug/L	ND	0.40	02/22/19 11:07	
Trichlorofluoromethane	ug/L	ND	1.0	02/22/19 11:07	
Vinyl chloride	ug/L	ND	0.20	02/22/19 11:07	
Xylene (Total)	ug/L	ND	3.0	02/22/19 11:07	
1,2-Dichloroethane-d4 (S)	%.	94	75-125	02/22/19 11:07	
4-Bromofluorobenzene (S)	%.	100	75-125	02/22/19 11:07	
Toluene-d8 (S)	%.	98	75-125	02/22/19 11:07	

LABORATORY CONTROL SAMPLE: 3196084

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.1	95	75-125	
1,1,1-Trichloroethane	ug/L	20	20.2	101	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	17.8	89	71-128	
1,1,2-Trichloroethane	ug/L	20	19.4	97	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	21.9	109	73-125	
1,1-Dichloroethane	ug/L	20	19.1	96	75-125	
1,1-Dichloroethene	ug/L	20	20.2	101	69-125	
1,1-Dichloropropene	ug/L	20	20.9	105	73-125	
1,2,3-Trichlorobenzene	ug/L	20	18.2	91	70-129	
1,2,3-Trichloropropane	ug/L	20	18.8	94	75-125	
1,2,4-Trichlorobenzene	ug/L	20	18.9	94	71-126	
1,2,4-Trimethylbenzene	ug/L	20	20.4	102	73-127	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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QUALITY CONTROL DATA

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

LABORATORY CONTROL SAMPLE: 3196084

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	50	42.7	85	66-127	
1,2-Dibromoethane (EDB)	ug/L	20	20.1	100	75-125	
1,2-Dichlorobenzene	ug/L	20	20.2	101	75-125	
1,2-Dichloroethane	ug/L	20	18.0	90	71-125	
1,2-Dichloropropane	ug/L	20	19.0	95	72-125	
1,3,5-Trimethylbenzene	ug/L	20	20.6	103	75-125	
1,3-Dichlorobenzene	ug/L	20	20.5	103	75-125	
1,3-Dichloropropane	ug/L	20	19.5	98	75-125	
1,4-Dichlorobenzene	ug/L	20	19.6	98	75-125	
2,2-Dichloropropane	ug/L	20	20.1	101	65-127	
2-Butanone (MEK)	ug/L	100	80.3	80	74-125	
2-Chlorotoluene	ug/L	20	20.4	102	74-125	
4-Chlorotoluene	ug/L	20	20.3	101	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	88.6	89	75-132	
Acetone	ug/L	100	93.0	93	30-150	
Allyl chloride	ug/L	20	18.3	91	75-125	
Benzene	ug/L	20	18.8	94	75-125	
Bromobenzene	ug/L	20	19.3	96	75-125	
Bromochloromethane	ug/L	20	19.2	96	74-126	
Bromodichloromethane	ug/L	20	18.3	92	75-125	
Bromoform	ug/L	20	18.2	91	74-125	
Bromomethane	ug/L	20	20.6	103	30-150	
Carbon tetrachloride	ug/L	20	20.2	101	70-125	
Chlorobenzene	ug/L	20	19.7	99	75-125	
Chloroethane	ug/L	20	20.6	103	64-129	
Chloroform	ug/L	20	17.9	90	75-125	
Chloromethane	ug/L	20	18.6	93	67-125	
cis-1,2-Dichloroethene	ug/L	20	19.0	95	73-125	
cis-1,3-Dichloropropene	ug/L	20	19.2	96	75-125	
Dibromochloromethane	ug/L	20	20.1	101	75-125	
Dibromomethane	ug/L	20	18.9	95	75-125	
Dichlorodifluoromethane	ug/L	20	22.5	112	65-129	
Diethyl ether (Ethyl ether)	ug/L	20	17.7	89	74-125	
Ethylbenzene	ug/L	20	19.8	99	75-125	
Hexachloro-1,3-butadiene	ug/L	20	21.0	105	66-137	
Isopropylbenzene (Cumene)	ug/L	20	21.8	109	75-125	
Methyl-tert-butyl ether	ug/L	20	17.8	89	75-125	
Methylene Chloride	ug/L	20	18.3	91	72-125	
n-Butylbenzene	ug/L	20	21.9	110	69-132	
n-Propylbenzene	ug/L	20	21.2	106	74-125	
Naphthalene	ug/L	20	18.0	90	63-125	
p-Isopropyltoluene	ug/L	20	21.7	109	75-125	
sec-Butylbenzene	ug/L	20	21.8	109	75-125	
Styrene	ug/L	20	20.5	103	75-125	
tert-Butylbenzene	ug/L	20	21.3	106	75-125	
Tetrachloroethene	ug/L	20	21.6	108	75-125	
Tetrahydrofuran	ug/L	200	200	100	30-150	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

LABORATORY CONTROL SAMPLE: 3196084

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	19.4	97	75-125	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	70-125	
trans-1,3-Dichloropropene	ug/L	20	19.3	97	75-125	
Trichloroethene	ug/L	20	19.8	99	74-125	
Trichlorofluoromethane	ug/L	20	20.8	104	74-125	
Vinyl chloride	ug/L	20	21.9	110	71-125	
Xylene (Total)	ug/L	60	60.1	100	75-125	
1,2-Dichloroethane-d4 (S)	%.			94	75-125	
4-Bromofluorobenzene (S)	%.			100	75-125	
Toluene-d8 (S)	%.			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196106 3196107

Parameter	Units	10464833001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	18.0	17.6	90	88	30-150	2	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	21.1	19.9	106	100	30-150	6	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.7	16.8	88	84	30-150	5	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.8	17.9	94	90	30-150	5	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	23.0	21.7	115	109	30-150	6	30	
1,1-Dichloroethane	ug/L	ND	20	20	21.0	19.9	105	99	30-150	5	30	
1,1-Dichloroethene	ug/L	ND	20	20	21.9	20.7	109	103	30-150	6	30	
1,1-Dichloropropene	ug/L	ND	20	20	22.5	21.4	113	107	30-150	5	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	18.9	18.8	95	94	30-150	1	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.7	17.7	94	88	30-150	6	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.2	18.6	96	93	30-150	3	30	
1,2,4-Trimethylbenzene	ug/L	260	20	20	279	287	98	135	30-150	3	30	E
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	41.9	39.9	84	80	30-150	5	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.7	18.6	94	93	30-150	1	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.8	18.8	94	94	30-150	0	30	
1,2-Dichloroethane	ug/L	ND	20	20	17.4	16.8	87	84	30-150	4	30	
1,2-Dichloropropane	ug/L	ND	20	20	18.6	18.5	93	92	30-150	1	30	
1,3,5-Trimethylbenzene	ug/L	42.6	20	20	56.5	57.8	70	76	30-150	2	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.1	18.9	95	94	30-150	1	30	
1,3-Dichloropropane	ug/L	ND	20	20	18.4	18.0	92	90	30-150	2	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.3	18.2	91	91	30-150	0	30	
2,2-Dichloropropane	ug/L	ND	20	20	21.7	20.7	109	103	30-150	5	30	
2-Butanone (MEK)	ug/L	ND	100	100	99.5	92.9	99	93	30-150	7	30	
2-Chlorotoluene	ug/L	ND	20	20	29.9	30.7	150	154	30-150	3	30	M1
4-Chlorotoluene	ug/L	ND	20	20	18.4	19.2	92	96	30-150	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	86.1	81.9	86	82	30-150	5	30	
Acetone	ug/L	ND	100	100	110	112	94	95	30-150	1	30	
Allyl chloride	ug/L	ND	20	20	23.0	21.2	115	106	30-147	8	30	
Benzene	ug/L	ND	20	20	19.2	18.6	95	92	30-150	3	30	

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REPORT OF LABORATORY ANALYSIS

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(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196106 3196107

Parameter	Units	10464833001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromobenzene	ug/L	ND	20	20	18.5	18.3	93	92	30-150	1	30	
Bromochloromethane	ug/L	ND	20	20	18.3	17.7	91	89	30-150	3	30	
Bromodichloromethane	ug/L	ND	20	20	17.8	17.4	89	87	30-150	2	30	
Bromoform	ug/L	ND	20	20	16.8	16.5	84	83	30-150	2	30	
Bromomethane	ug/L	ND	20	20	19.3	19.0	97	95	30-150	2	30	
Carbon tetrachloride	ug/L	ND	20	20	21.3	20.1	106	101	30-150	6	30	
Chlorobenzene	ug/L	ND	20	20	18.8	18.5	94	93	30-150	1	30	
Chloroethane	ug/L	ND	20	20	18.3	18.5	92	93	30-150	1	30	
Chloroform	ug/L	ND	20	20	17.7	17.0	88	85	30-150	4	30	
Chloromethane	ug/L	ND	20	20	18.5	18.4	86	85	30-150	0	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.4	18.3	92	91	30-150	1	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.5	17.8	92	89	30-145	4	30	
Dibromochloromethane	ug/L	ND	20	20	18.6	18.4	93	92	30-150	1	30	
Dibromomethane	ug/L	ND	20	20	18.4	17.6	92	88	30-150	5	30	
Dichlorodifluoromethane	ug/L	ND	20	20	20.0	20.2	100	101	30-150	1	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	17.2	16.4	86	82	30-150	5	30	
Ethylbenzene	ug/L	195	20	20	196	199	6	19	30-150	1	30	M1
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.4	21.5	112	108	30-150	4	30	
Isopropylbenzene (Cumene)	ug/L	23.4	20	20	41.5	42.2	91	94	30-150	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	17.0	16.4	85	82	30-150	3	30	
Methylene Chloride	ug/L	ND	20	20	17.8	17.4	88	86	30-146	2	30	
n-Butylbenzene	ug/L	7.0	20	20	27.9	27.6	104	103	30-150	1	30	
n-Propylbenzene	ug/L	64.9	20	20	78.0	79.7	65	74	30-150	2	30	
Naphthalene	ug/L	30.8	20	20	44.8	46.6	70	79	30-150	4	30	
p-Isopropyltoluene	ug/L	3.2	20	20	26.9	27.2	119	120	30-150	1	30	
sec-Butylbenzene	ug/L	6.3	20	20	27.1	27.1	104	104	30-150	0	30	
Styrene	ug/L	ND	20	20	19.2	19.4	95	96	30-150	1	30	
tert-Butylbenzene	ug/L	ND	20	20	20.4	20.4	101	101	30-150	0	30	
Tetrachloroethene	ug/L	ND	20	20	21.5	21.2	108	106	30-150	1	30	
Tetrahydrofuran	ug/L	ND	200	200	184	186	92	93	30-150	1	30	
Toluene	ug/L	14.8	20	20	33.3	32.6	93	89	30-150	2	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.3	18.8	101	94	30-150	8	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.1	17.6	90	88	30-150	2	30	
Trichloroethene	ug/L	ND	20	20	20.2	19.4	101	97	30-150	4	30	
Trichlorofluoromethane	ug/L	ND	20	20	18.7	18.6	93	93	30-150	0	30	
Vinyl chloride	ug/L	ND	20	20	19.9	20.5	100	102	30-150	3	30	
Xylene (Total)	ug/L	335	60	60	352	358	30	38	30-150	1	30	MS
1,2-Dichloroethane-d4 (S)	%.						96	94	75-125			
4-Bromofluorobenzene (S)	%.						101	101	75-125			
Toluene-d8 (S)	%.						100	101	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

QC Batch: 591010 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10464832001

METHOD BLANK: 3196101 Matrix: Water
Associated Lab Samples: 10464832001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	02/22/19 12:10	
Ethylbenzene	ug/L	ND	1.0	02/22/19 12:10	
Toluene	ug/L	ND	1.0	02/22/19 12:10	
Xylene (Total)	ug/L	ND	3.0	02/22/19 12:10	
1,2-Dichloroethane-d4 (S)	%.	91	75-125	02/22/19 12:10	
4-Bromofluorobenzene (S)	%.	102	75-125	02/22/19 12:10	
Toluene-d8 (S)	%.	94	75-125	02/22/19 12:10	

LABORATORY CONTROL SAMPLE: 3196102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.7	94	75-125	
Ethylbenzene	ug/L	20	17.6	88	75-125	
Toluene	ug/L	20	18.5	93	75-125	
Xylene (Total)	ug/L	60	55.7	93	75-125	
1,2-Dichloroethane-d4 (S)	%.			89	75-125	
4-Bromofluorobenzene (S)	%.			101	75-125	
Toluene-d8 (S)	%.			96	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196109 3196110

Parameter	Units	10464824001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	13.6	19.5	68	98	30-150	36	30	R1
Ethylbenzene	ug/L	ND	20	20	12.5	17.7	62	89	30-150	35	30	R1
Toluene	ug/L	ND	20	20	13.0	19.1	65	95	30-150	38	30	R1
Xylene (Total)	ug/L	ND	60	60	38.4	56.6	64	94	30-150	38	30	RS
1,2-Dichloroethane-d4 (S)	%.						93	93	75-125			
4-Bromofluorobenzene (S)	%.						103	101	75-125			
Toluene-d8 (S)	%.						96	98	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

QC Batch: 590871 Analysis Method: EPA 8082A
QC Batch Method: EPA Mod. 3510C Analysis Description: 8082A GCS PCB
Associated Lab Samples: 10464832006

METHOD BLANK: 3195281 Matrix: Water
Associated Lab Samples: 10464832006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.10	02/22/19 08:22	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.10	02/22/19 08:22	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.10	02/22/19 08:22	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.10	02/22/19 08:22	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.10	02/22/19 08:22	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.10	02/22/19 08:22	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.10	02/22/19 08:22	
Decachlorobiphenyl (S)	%.	81	30-125	02/22/19 08:22	
Tetrachloro-m-xylene (S)	%.	54	30-125	02/22/19 08:22	

LABORATORY CONTROL SAMPLE & LCSD: 3195282 3195283

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2	1.4	1.4	71	70	45-125	2	20	
PCB-1260 (Aroclor 1260)	ug/L	2	1.6	1.6	82	79	49-125	3	20	
Decachlorobiphenyl (S)	%.				79	76	30-125			
Tetrachloro-m-xylene (S)	%.				48	47	30-125			

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REPORT OF LABORATORY ANALYSIS

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(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

QC Batch: 590939 Analysis Method: EPA 8270D by SIM
QC Batch Method: EPA Mod. 3510C Analysis Description: 8270D CPAH by SIM MSSV
Associated Lab Samples: 10464832006

METHOD BLANK: 3195652 Matrix: Water
Associated Lab Samples: 10464832006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	0.040	02/22/19 16:20	
2-Methylnaphthalene	ug/L	ND	0.040	02/22/19 16:20	
Acenaphthene	ug/L	ND	0.040	02/22/19 16:20	
Acenaphthylene	ug/L	ND	0.040	02/22/19 16:20	
Anthracene	ug/L	ND	0.040	02/22/19 16:20	
Benzo(a)anthracene	ug/L	ND	0.040	02/22/19 16:20	
Benzo(a)pyrene	ug/L	ND	0.040	02/22/19 16:20	
Benzo(g,h,i)perylene	ug/L	ND	0.040	02/22/19 16:20	
Chrysene	ug/L	ND	0.040	02/22/19 16:20	
Dibenz(a,h)anthracene	ug/L	ND	0.040	02/22/19 16:20	
Dibenzofuran	ug/L	ND	0.040	02/22/19 16:20	
Fluoranthene	ug/L	ND	0.040	02/22/19 16:20	
Fluorene	ug/L	ND	0.040	02/22/19 16:20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	02/22/19 16:20	
Naphthalene	ug/L	ND	0.040	02/22/19 16:20	
Phenanthrene	ug/L	ND	0.040	02/22/19 16:20	
Pyrene	ug/L	ND	0.040	02/22/19 16:20	
2-Fluorobiphenyl (S)	%.	64	37-125	02/22/19 16:20	
p-Terphenyl-d14 (S)	%.	78	45-125	02/22/19 16:20	

LABORATORY CONTROL SAMPLE & LCSD: 3195653 3195654

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	3	2.0	2.0	66	67	43-125	2	20	
2-Methylnaphthalene	ug/L	3	2.0	2.0	66	66	43-125	0	20	
Acenaphthene	ug/L	3	2.0	2.0	67	68	37-125	2	20	
Acenaphthylene	ug/L	3	2.0	2.1	68	69	30-125	1	20	
Anthracene	ug/L	3	2.3	2.3	75	77	46-125	2	20	
Benzo(a)anthracene	ug/L	3	2.4	2.4	80	81	48-125	2	20	
Benzo(a)pyrene	ug/L	3	2.7	2.7	89	90	52-125	2	20	
Benzo(g,h,i)perylene	ug/L	3	2.6	2.6	86	87	51-125	1	20	
Chrysene	ug/L	3	2.5	2.6	84	86	57-125	2	20	
Dibenz(a,h)anthracene	ug/L	3	2.7	2.7	89	90	51-125	1	20	
Dibenzofuran	ug/L	6	4.1	4.2	68	70	41-125	2	20	
Fluoranthene	ug/L	3	2.5	2.5	82	83	54-125	0	20	
Fluorene	ug/L	3	2.1	2.2	71	72	40-125	2	20	
Indeno(1,2,3-cd)pyrene	ug/L	3	2.7	2.7	89	89	51-125	0	20	
Naphthalene	ug/L	3	1.9	1.9	64	64	34-125	0	20	
Phenanthrene	ug/L	3	2.3	2.3	76	77	52-125	1	20	
Pyrene	ug/L	3	2.5	2.5	84	84	52-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

LABORATORY CONTROL SAMPLE & LCSD: 3195653 3195654

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2-Fluorobiphenyl (S)	%.				61	64	37-125			
p-Terphenyl-d14 (S)	%.				74	74	45-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

QC Batch: 591068 Analysis Method: NWTPH-Dx
QC Batch Method: EPA Mod. 3510C Analysis Description: NWTPH-Dx GCS LV
Associated Lab Samples: 10464832001, 10464832002, 10464832003, 10464832004, 10464832005, 10464832006

METHOD BLANK: 3196348 Matrix: Water
Associated Lab Samples: 10464832001, 10464832002, 10464832003, 10464832004, 10464832005, 10464832006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range	mg/L	ND	0.40	02/24/19 15:16	
Motor Oil Range	mg/L	ND	0.40	02/24/19 15:16	
n-Triacontane (S)	%.	83	50-150	02/24/19 15:16	
o-Terphenyl (S)	%.	85	50-150	02/24/19 15:16	

LABORATORY CONTROL SAMPLE & LCSD: 3196349 3196350

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Fuel Range	mg/L	2	1.7	1.2	85	58	50-150	38	20	R1
Motor Oil Range	mg/L	2	1.9	1.3	94	66	50-150	35	20	R1
n-Triacontane (S)	%.				97	64	50-150			
o-Terphenyl (S)	%.				88	62	50-150			

SAMPLE DUPLICATE: 3196351

Parameter	Units	10464832001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range	mg/L	ND	0.41		30	
Motor Oil Range	mg/L	ND	ND		30	
n-Triacontane (S)	%.	71	101	36		
o-Terphenyl (S)	%.	73	99	29		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: 590989

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 591095

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
G-	Early peaks present outside the GRO window.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1	RPD value was outside control limits.
RS	The RPD value in one of the constituent analytes was outside the control limits.

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METHOD CROSS REFERENCE TABLE

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

Parameter	Matrix	Analytical Method	Preparation Method
8260B MSV UST	Water	SW-846 8260B/5030B	N/A
8260B VOC	Water	SW-846 8260B/5030B	N/A

Pace Analytical Services, LLC
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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2004-004.002/1 Former Provisio
Pace Project No.: 10464832

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10464832006	**EW-021919-6**	EPA Mod. 3510C	590871	EPA 8082A	590989
10464832001	**EW-021919-1**	EPA Mod. 3510C	591068	NWTPH-Dx	591159
10464832002	**EW-021919-2**	EPA Mod. 3510C	591068	NWTPH-Dx	591159
10464832003	**EW-021919-3**	EPA Mod. 3510C	591068	NWTPH-Dx	591159
10464832004	**EW-021919-4**	EPA Mod. 3510C	591068	NWTPH-Dx	591159
10464832005	**EW-021919-5**	EPA Mod. 3510C	591068	NWTPH-Dx	591159
10464832006	**EW-021919-6**	EPA Mod. 3510C	591068	NWTPH-Dx	591159
10464832001	**EW-021919-1**	NWTPH-Gx	591280		
10464832006	**EW-021919-6**	NWTPH-Gx	591280		
10464832006	**EW-021919-6**	EPA 3010	590972	EPA 6010D	591054
10464832006	**EW-021919-6**	EPA Mod. 3510C	590939	EPA 8270D by SIM	591095
10464832006	**EW-021919-6**	EPA 8260B	591005		
10464832001	**EW-021919-1**	EPA 8260B	591010		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Dor

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

WO# : 10464832

10464832

Section A Required Client Information:

Company: ETG
Address: 1176 W. 7th AVE
EUGENE OR 97402
Email To: dlandry@etgroup.nw.com
Phone: 541-743-7600 Fax:
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: DAN LANDRY
Copy To: STEVE McCRAY
Purchase Order No.:
Project Name: FORMER PROVISIONERS EXPRESS
Project Number: 2004-004.002/1

Section C Invoice Information:

Attention:
Company Name: ETG
Address: 1176 W 7TH AVE
Pace Quote Reference:
Pace Project Manager: JENNIFER GROSS
Pace Profile #: 32819/1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: WA

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: NWTPH-Dx (D-ESCI) OIL	VOCs Full List (8260)	Total Lead	PCBs	NWTPH-Gx *	cPAHs + NAPHTHALENES *	BTEX	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	EW-021919-1	WT	G			2/19/19	0900		6				X					X				X	X				001
2	-2						0935		2				X					X									002
3	-3						1120		2				X					X									003
4	-4						1210		2				X					X									004
5	-5						1230		2				X					X									005
6	-6	↓	↓			↓	1540		12	X		X	X					X	X	X	X	X	X				006
7	TRIP BLANK																		X			X			HOLD		007
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*NAPTHALENES = NAPTHALENE, 1-METHYL NAPTHALENE, 2-METHYL NAPTHALENE	STEVE McCRAY / ETG	2/19/19	1600	Jennifer Jackson Pace	2/21/19	9:10	1.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: STEVE McCRAY
SIGNATURE of SAMPLER: Steve McCray
DATE Signed (MM/DD/YY): 2/19/19

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 06Feb2019 Page 1 of 1
	Document No.: **F-MN-L-213-rev.25**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: ETG

Project #: **WO#: 10464832**

PM: JMG **Due Date: 02/28/19**

CLIENT: ET Group

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exception** ☐

Tracking Number: 4486 7788 7408

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No **Seals Intact?** ☒ Yes ☐ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☒ Yes ☐ No

Thermometer: ☒ G87A9155100842 ☐ G87A9170600254 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Note: Each West Virginia Sample must have temp taken (no temp blanks)

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** _____ °C

Average Corrected Temp (no temp blank only): 1.8 °C **See Exceptions** ☒

Correction Factor: -0.2 **Cooler Temp Corrected w/temp blank:** _____ °C

USDA Regulated Soil: (☒ N/A, water sample/Other: _____)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

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

Date/Initials of Person Examining Contents: JJ 2/21/19

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used?	☒ Yes	☐ No		8.
-Pace Containers Used?	☒ Yes	☐ No		
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐
Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other				
All containers needing acid/base preservation have been checked?	☒ Yes	☐ No	☐ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☒ Yes	☐ No	☐ N/A	☐ NaOH ☒ HNO_3 6/1 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☒ Yes	☐ No	☐ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **See Exception** ☐
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☒ No	☐ N/A	13. **See Exception** ☒
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	14.
Trip Blank Custody Seals Present?	☒ Yes	☐ No	☐ N/A	Pace Trip Blank Lot # (if purchased): 195785

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ Jenni Gross _____ **Date:** 02/21/19

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

Labeled by: JJ

Pace Analytical	Document Name: **Headspace Exception**	Document Revised: 17Dec2018 Page 1 of 1
	Document No.: **F-MN-C-276-Rev.01**	Issuing Authority: Pace Minnesota Quality Office

Sample ID	Headspace greater than 6mm	Headspace less than 6mm	No Headspace	Total Vials	Sediment Present?
EW-021919-1	0	0	6	6	Y
EW-021919-6	0	4	2	6	Y
Trip Blank	0	3	3	6	N

Pace Analytical	Document Name: SCUR Exception Form – Coolers Above 6°C	Document Revised: 04Feb2019 Page 1 of 1
	Document No.: F-MN-C-298-Rev.01	Issuing Authority: Pace Minnesota Quality Office

During sample triage, this form is to be placed in each cooler that arrives above 6.0 degrees Celsius

SCUR Exceptions: **Workorder #:** 10464832

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? ☐Yes ☐No
			If yes, indicate who was contacted/date/time. If no, indicate reason why.
			Multiple Cooler Project? ☐Yes ☐No If you answered yes, fill out information to the left.

No Temp Blank		
Read Temp	Corrected Temp	Average Temp
1.0	1.4	1.8
1.6	1.4	
2.5	2.3	
2.3	2.1	

Other Issues

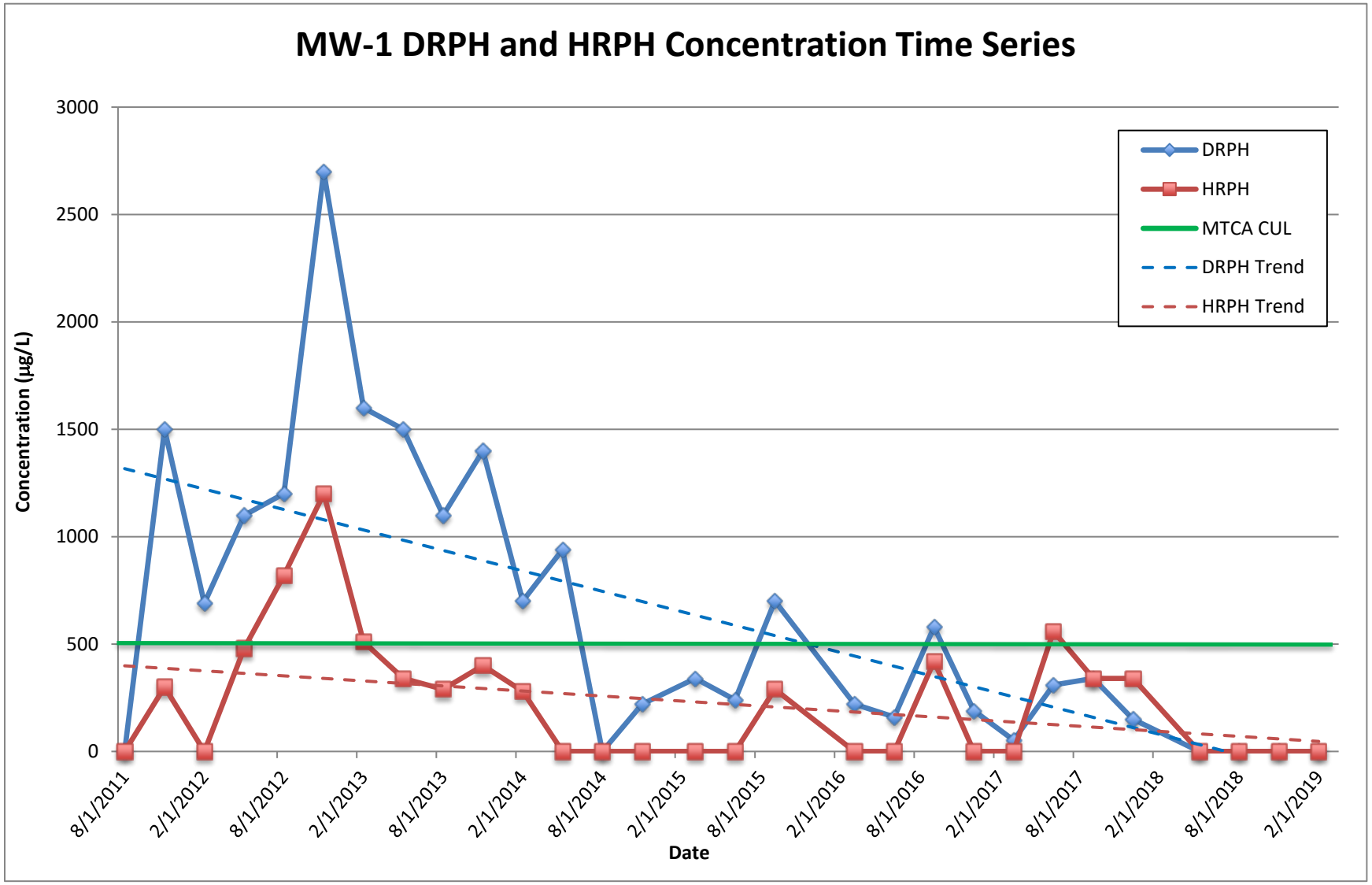
Issue Type: Sample ID	Container Type	# of Containers

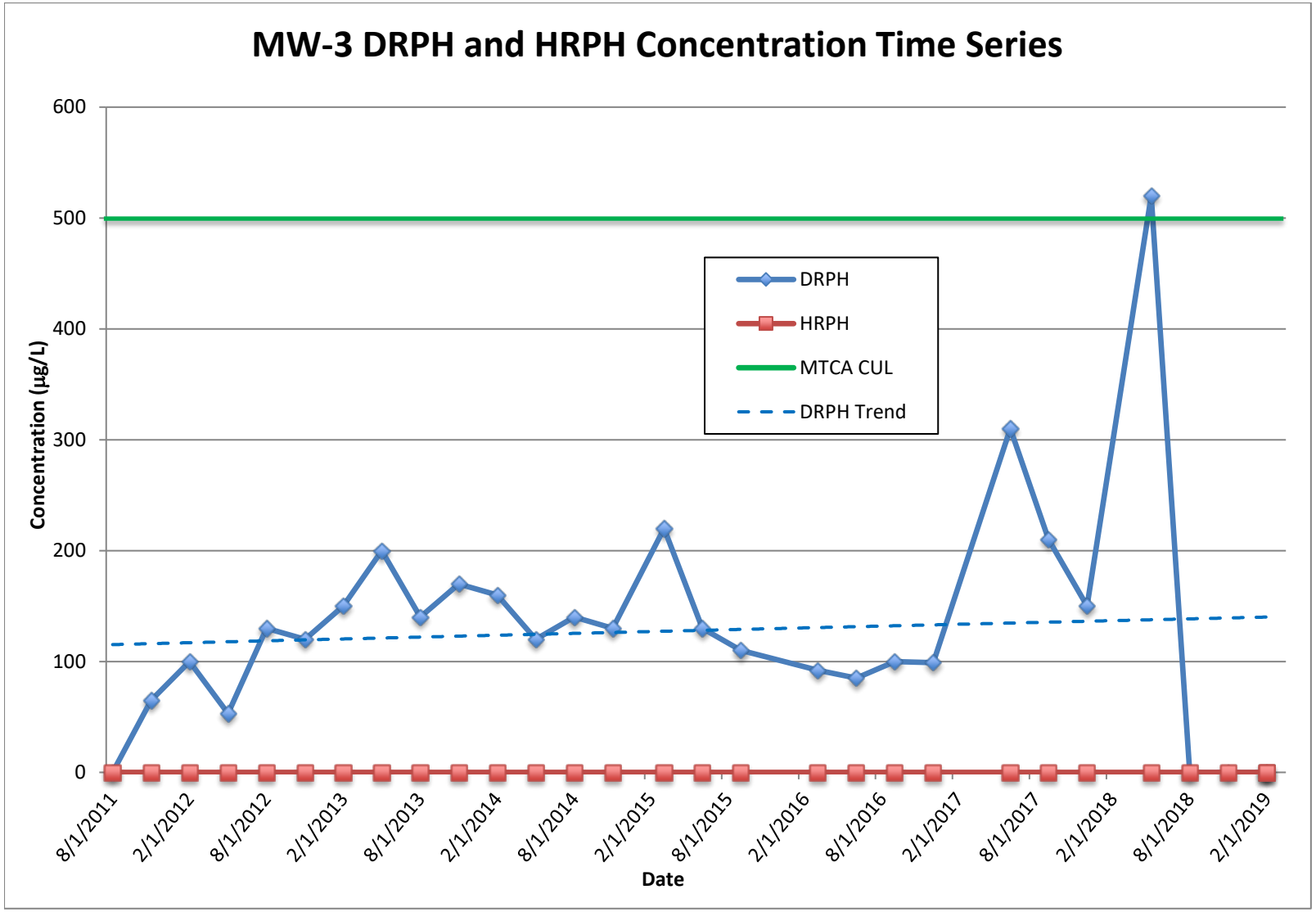
Tracking Number	

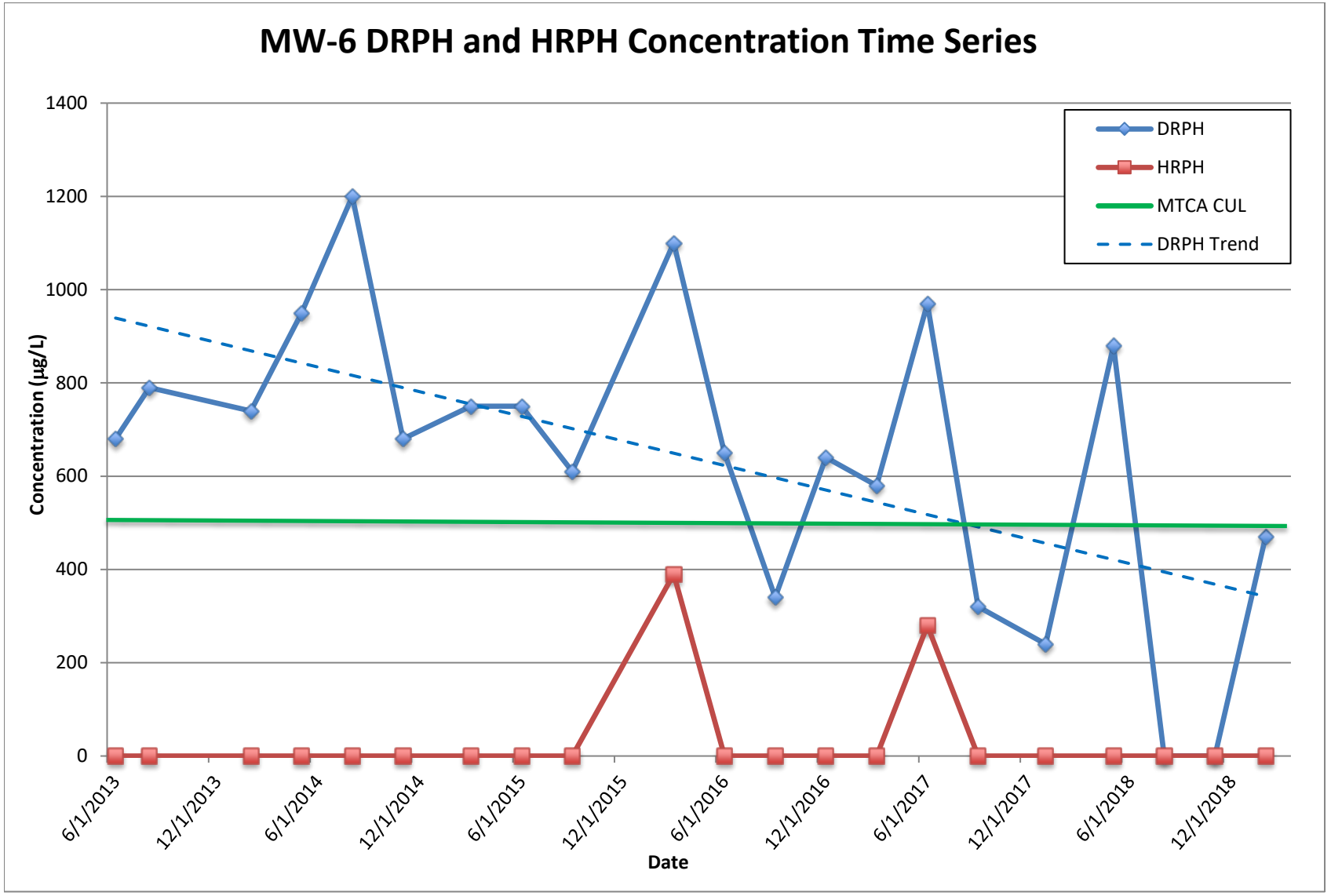
pH Adjustment Log for Preserved Samples

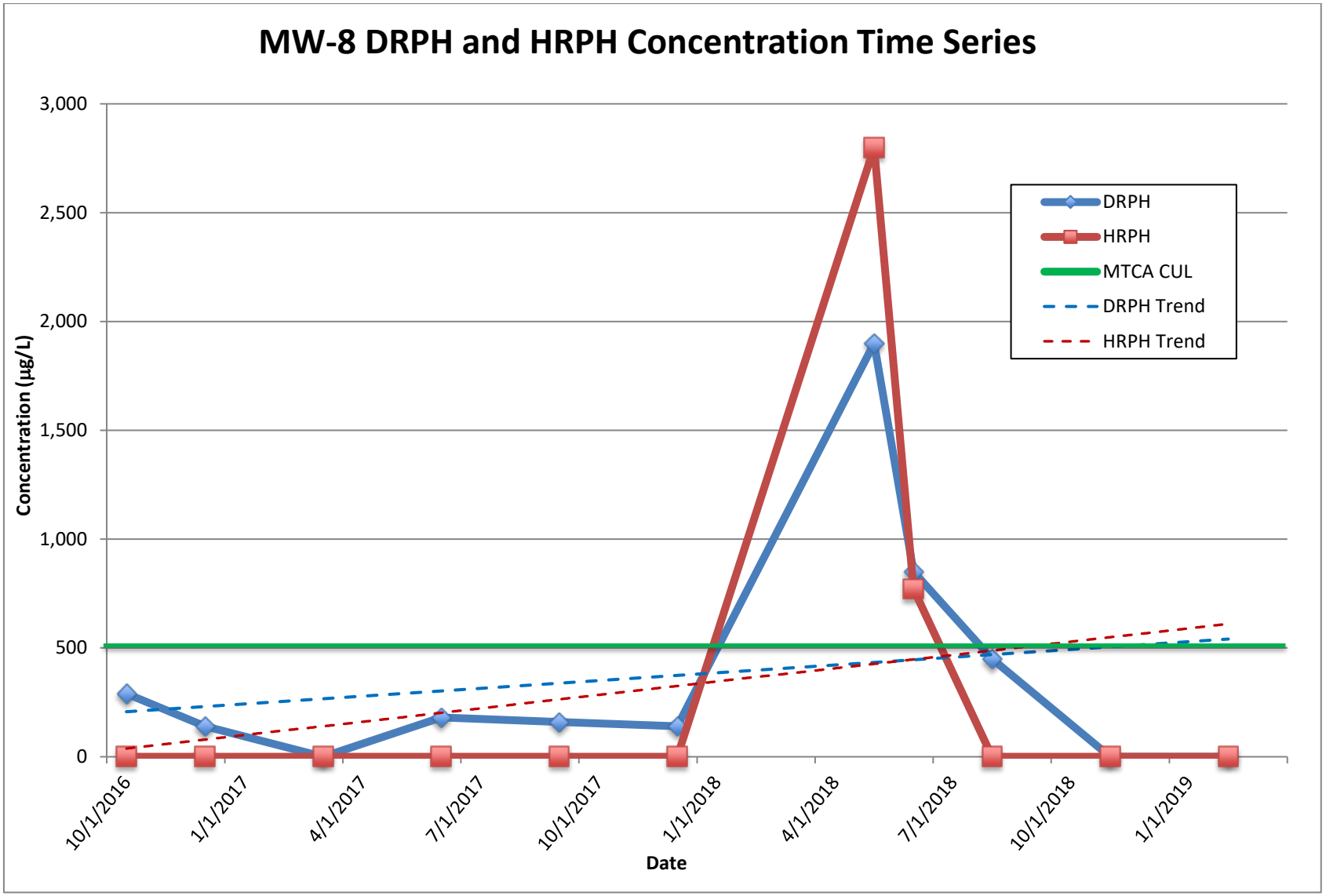
Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

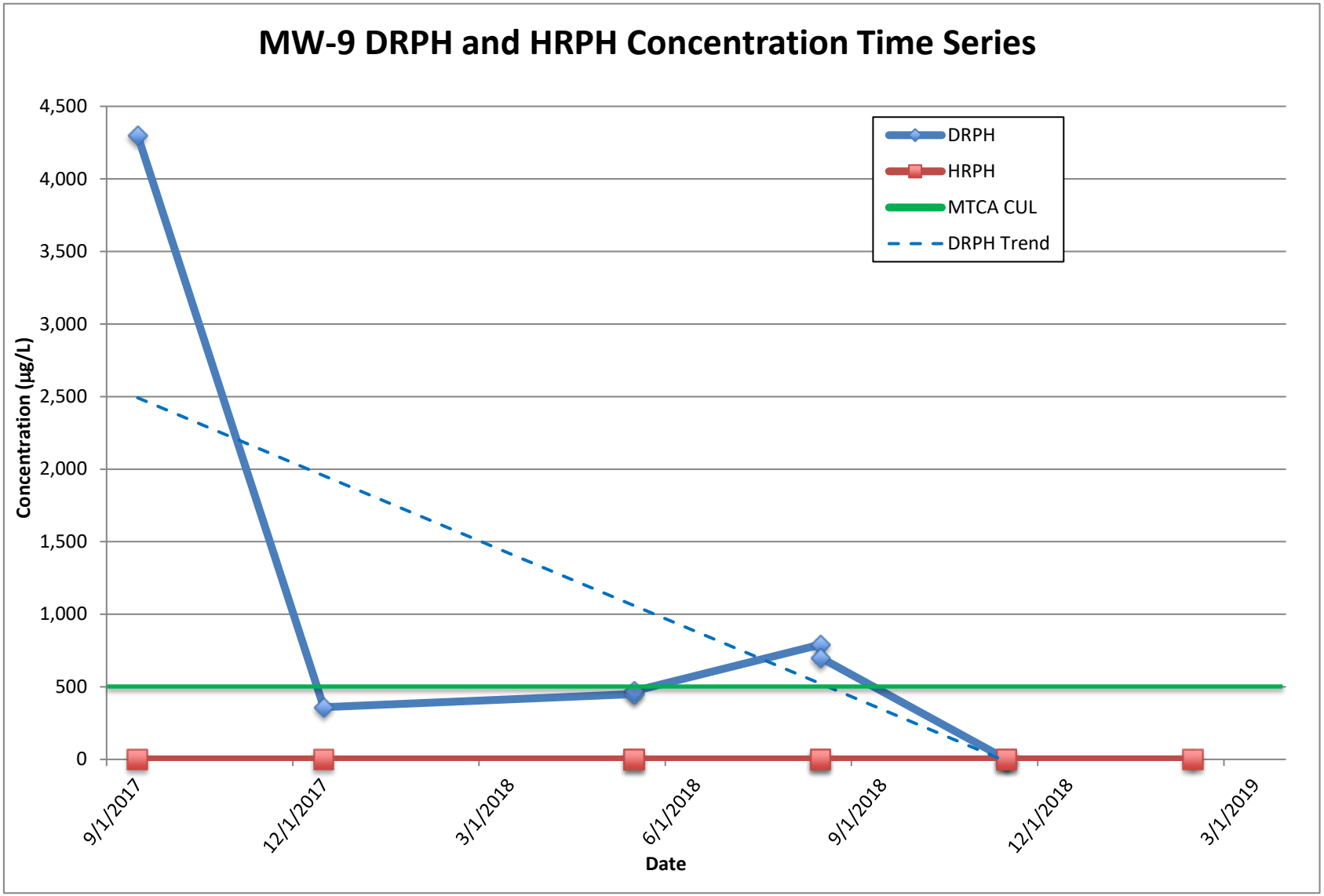
ATTACHMENT F
GROUNDWATER ANALYSIS TREND CHARTS


MW-1 DRPH and HRPH Concentration Time Series
Concentration (µg/L)
3000
2500
2000
1500
1000
500
0
8/1/2011
2/1/2012
8/1/2012
2/1/2013
8/1/2013
2/1/2014
8/1/2014
2/1/2015
8/1/2015
2/1/2016
8/1/2016
2/1/2017
8/1/2017
2/1/2018
8/1/2018
2/1/2019
Date
DRPH
HRPH
MTCA CUL
DRPH Trend
HRPH Trend


MW-3 DRPH and HRPH Concentration Time Series
600
500
400
300
200
100
0
Concentration (µg/L)
DRPH
HRPH
MTCA CUL
DRPH Trend
8/1/2011
2/1/2012
8/1/2012
2/1/2013
8/1/2013
2/1/2014
8/1/2014
2/1/2015
8/1/2015
2/1/2016
8/1/2016
2/1/2017
8/1/2017
2/1/2018
8/1/2018
2/1/2019
Date


MW-6 DRPH and HRPH Concentration Time Series
1400
1200
1000
800
600
400
200
0
Concentration (µg/L)
6/1/2013
12/1/2013
6/1/2014
12/1/2014
6/1/2015
12/1/2015
6/1/2016
12/1/2016
6/1/2017
12/1/2017
6/1/2018
12/1/2018
Date
DRPH
HRPH
MTCA CUL
DRPH Trend


MW-8 DRPH and HRPH Concentration Time Series
3,000
2,500
2,000
1,500
1,000
500
0
Concentration (µg/L)
10/1/2016
1/1/2017
4/1/2017
7/1/2017
10/1/2017
1/1/2018
4/1/2018
7/1/2018
10/1/2018
1/1/2019
Date
DRPH
HRPH
MTCA CUL
DRPH Trend
HRPH Trend


MW-9 DRPH and HRPH Concentration Time Series
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
Concentration (µg/L)
DRPH
HRPH
MTCA CUL
DRPH Trend
9/1/2017
12/1/2017
3/1/2018
6/1/2018
9/1/2018
12/1/2018
3/1/2019
Date