

December 9, 2021 Project 2004-0003

Ms. Jing Song Washington Department of Ecology -Toxic Cleanup Program, NWRO 15700 Dayton Avenue North Shoreline, Washington 98133

Re: Quarterly Groundwater Monitoring and Remedial Operations Report – November 2021, 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:

A&M Engineering and Environmental Services, Inc. (A&M), on behalf of Commerce Road Terminals, LLC (CRT), has prepared this groundwater monitoring and remedial operations report to provide the results of quarterly groundwater monitoring and remedial operations 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 November 17, 2021 for the October through December 2021 monitoring period.

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 facility 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 (μ g/L) and a benzene concentration of 12.0 μ g/L. The reported TPH-g

concentration was less than the MTCA Method A CUL of 800 $\mu g/L$. However, the benzene concentration exceeded the MTCA Method A CUL of 5 $\mu g/L$. 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 rinseate 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, Environmental Technologies Group, Inc. (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).

On January 25, 2019, consistent with the Ecology approved *Groundwater Assessment Work Plan* (ETG, 2018), groundwater monitoring well MW-10 was constructed downgradient of MW-8 and surveyed. The monitoring well was developed and sampled during the first quarter groundwater monitoring event in February 2019. Laboratory analytical results indicated TPH-g, TPH-d, TPH-o, volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), carcinogenic polynuclear aromatic hydrocarbons (cPAHs) including naphthalene, 1-methyl naphthalene and 2-methyl naphthalene, and total lead were not reported at, or above, laboratory method reporting limits (MRLs) in the groundwater sample collected from the well.

In February 2020, following discussions with Ecology, groundwater monitoring was modified from a quarter frequency to a semi-annual frequency with events occurring during first and third quarter of the calendar year, the high and low groundwater elevation periods of the year.

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 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 after repair in 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 and remained inactive until February 2021.

Based on the September 2020 semi-annual groundwater monitoring results, it was determined that operation of the air injection system would be beneficial in increasing the rate of degradation for residual contaminants in the vicinity of MW-9. On December 15, 2020, an attempt was made to restart the air injection system. It was discovered that the injection blower had been damaged by an attempt theft of the equipment. A new injection blower was installed on February 9, 2021, and the air injection system restarted. All six (6) air injection wells were opened and the operating pressure set to approximately 11 pounds per square inch (psi).

On July 29, 2021, the air injection system was shutdown prior to August 23, 2021, groundwater monitoring event. On August 23, 2021, following the groundwater sampling event the system was inspected and maintained. The AS System was restarted after system maintenance. The AS System condensate was drained, and flow and pressure data collected and recorded on an Air Sparing Treatment System Data Sheet (TSDS). A copy of the TSDS for the event is provided as Attachment A.

On August 30, 2021, following the receipt of groundwater monitoring analytical results, the AS System was shutdown.

GROUNDWATER MONITORING

On November 17, 2021, A&M conducted a quarterly groundwater monitoring event for the fourth quarter 2021 monitoring period. The monitoring event included collection of depth-to-water measurements from monitoring wells MW-2 through MW-10 and collection of a primary and duplicate groundwater sample from monitoring well MW-9. A depth-to-water measurement was not collected from MW-1 due to the presence of a solid waste dumpster over the monitoring well location. Depth-to-water measurements and groundwater elevation data are provided in Table 1.

Monitoring Procedures

During the monitoring event, groundwater samples were collected utilizing "low-flow" sampling techniques in general accordance with the United States Environmental Protection Agency (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. A groundwater sample was 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 a field sampling data sheet (FSDS). A copy of the FSDS is provided as Attachment A.

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 chain-of-custody (COC) procedure to Pace Analytical Services, LLC (PACE), a State of Washington certified laboratory (No. C486), in Minneapolis, Minnesota.

All groundwater samples were analyzed for TPH-d and TPH-o by Ecology Method NWTPH-Dx. For quality assurance/quality control (QA/QC) purposes, a duplicate groundwater sample was also collected from monitoring well MW-9.

All purge water was stored on-Site in a United States Department of Transportation (USDOT) approved 55-gallon drum pending proper off-Site disposal.

Groundwater Elevation and Flow Direction

Based on the depth-to-water measurements collected on November 17, 2021, from the nine (9) monitoring wells, a groundwater elevation contour map was generated for the

Site (Figure 3) using field measurements and data from well surveys completed on September 19, 2017 (MW-1 through MW-9) and February 5, 2019 (MW-10). Groundwater elevation data indicated a predominantly southern groundwater flow direction. The horizontal groundwater gradient was calculated to be less than 0.01 feet per foot (ft/ft) during the November 17, 2021 groundwater monitoring event.

Groundwater Analytical Results

A summary of the laboratory analytical results for the samples collected on November 17, 2021, from monitoring well MW-9 are provided in Table 2 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 B.

Analytical results for groundwater samples collected on November 17, 2021, from monitoring well MW-9 indicated the following:

Diesel Range Hydrocarbons

• TPH-d was not reported at, or above, the laboratory method reporting limit (MRL) in the primary and duplicate groundwater samples collected from monitoring well MW-9.

Oil Range Hydrocarbons

• TPH-o was not reported at, or above, the laboratory MRL in the primary and duplicate groundwater samples collected from monitoring well MW-9.

Total Diesel and Oil Range Hydrocarbons

• Total TPH was not reported at, or above, the laboratory MRL in the primary and duplicate groundwater samples collected from monitoring well MW-9.

GROUNDWATER ANALYSIS TREND CHARTS

In Ecology's Opinion Letter dated December 20, 2018 (Ecology, 2018) groundwater analysis trend charts were requested for monitoring wells MW-1, MW-3, MW-6, MW-8, and MW-9. Currently, only MW-9 in being monitored. A copy of the groundwater analysis trend chart for MW-9 is provided as Attachment C. The trend chart indicates the following:

• Laboratory analyses for samples collected from MW-9 indicate an overall declining trend since well installation in September 2017. TPH-0 has never been reported in groundwater samples collected from MW-9 at concentrations above the MRL. Groundwater quality data for TPH-d were compliant with Ecology MTCA Method A during the August and November 2021 monitoring event.

REMEDIAL SYSTEM OPERATION

Based on the November 17, 2021, groundwater monitoring results, air injection system operation will continue to be suspended. The air injection system is not scheduled to operate at this time. Based on the groundwater monitoring event results, quarterly compliance groundwater monitoring will continue in first quarter 2021.

SCHEDULED ACTIONS

The next groundwater monitoring event will occur in February/March 2022 and will included collection of depth-to-water measurements from monitoring wells MW-1 through MW-10, and a groundwater sample from monitoring well MW-9. The monitoring event will represent the third consecutive groundwater compliance monitoring event. Following completion of the groundwater monitoring event, a groundwater monitoring report will be prepared and submitted to Ecology.

If there are any questions regarding this report, please call.

Sincerely,

A&M Engineering and Environmental Services, Inc.

Daniel J. Landry

Senior Project Manager

Attachments: References

Limitations

Tables 1 and 2

Figures 1, 2, 3, and 4

Attachment A, B, and C

David M. Seaver, L.G. Senior Geologist

Geologist

DAVID W. SEAVER

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.
- ETG. 2019. Response to Ecology Opinion Letter, 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. March 28.

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
Groundwater Elevation Summary

					1 1
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 4.99	54.49	-0.93
	11/15/12 02/14/13		5.22	55.78 55.55	1.29 -0.23
	05/16/13		5.42	55.35	-0.23
	08/14/13	0.21	6.17	54.60	-0.75
	11/25/13	0.21	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 09/05/17	0.93 0.49	4.25 6.17	56.52 54.60	-0.92 -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
	05/21/19		5.19	55.58	-1.31
	08/21/19		5.64	55.13	-0.45
	11/12/19	0.43	4.92	55.85	0.72
	03/04/20		4.25	56.52	0.67
	09/03/20		5.50	55.27	-1.25
	03/19/21		4.58	56.19	0.92
	08/23/21		NC NC		
	11/17/21		NC		
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
60.85	02/02/99 08/12/11		5.09 5.51	95.47 55.34	-0.61
00.83	11/11/11		5.13	55.72	0.38
	02/10/12		4.94	55.91	0.38
	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

Table 1
Groundwater Elevation Summary

Measurement		Г			1
MW-2 Continued 08/14/14 0.12 0.12 0.81/14/14 0.13 0.36 11/24/14 0.14 0.14 0.37 0.55.99 1.23 0.37/15 1.23 0.37/15 1.23 0.37/15 0.28 0.28 0.36 0.54.49 0.92/8/15 0.84 0.50 0.84 0.50 0.84 0.50 0.84 0.60 0.87 0.74 0.95 0.87 0.87 0.87 0.87 0.87 0.87 0.87 0.87					-
Continued 08/14/14	MW-2	05/15/14	4.86	55 99	-2 63
11/24/14					
03/31/15	Continued				
06/29/15					
09/28/15					
03/03/16					l II
06/21/16					l II
09/16/16					
12/20/16					l II
03/24/17					l II
06/16/17 0.51 4.75 56.10 -1.66					
09/05/17					
12/20/17					l II
05/17/18					
08/23/18					l II
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$1 - \frac{1}{\sqrt{2}} \frac{1}{\sqrt{3}} \frac{1}{$		08/23/18	 6.63	54.17	-1.00

Table 1
Groundwater Elevation Summary

				I	
Well Number/ TOC Elevation	Date of Measurement	Dissolved Oxygen	DTW (feet)	SWL (feet)	Change in SWL (feet)
MW-3	11/15/18	(mg/L) 1.91	5.48	55.32	1.15
Continued	02/19/19	0.34	4.77	56.03	0.71
Continued		0.34			-0.54
	05/21/19	0.36	5.31 5.75	55.49	-0.34
	08/21/19			55.05	
	11/12/19		5.07	55.73	0.68
	03/04/20		4.72	56.08	0.35
	09/03/20		5.62	55.18	-0.90
	03/19/21		4.58	56.22	1.04
	08/23/21		6.05	54.75	-1.47
	11/17/21		3.28	57.52	2.77
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
	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
	05/21/19		5.41	55.52	-0.51
	08/21/19		5.83	55.10	-0.42
	11/12/19		5.22	55.71	0.61
	03/04/20		4.81	56.12	0.41
	09/03/20		5.70	55.23	-0.89
	03/19/21		4.75	56.18	0.95
	08/23/21		6.11	54.82	-1.36
	11/17/21		4.21	56.72	1.90
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

Table 1
Groundwater Elevation Summary

Well Number/ TOC Elevation						
NW-5	Well Number/	Date of		DTW	SWL	Change in SWL
MW-5 Continued 06/29/15 028 6.35 09/28/15 0.28 0.52 0.52 0.53 03/03/16 0.052 0.62/16 0.040 0.596 54.94 09/16/16 0.100 0.11 12/20/16 0.07 06/21/16 0.09 05/17 0.51 0.52/17 0.51 0.52/17 0.51 0.52/17 0.51 0.52/17 0.51 0.52/17 0.51 0.52/17 0.51 0.52/17 0.53/17/18 0.95 0.52/17 0.53/17/18 0.95 0.54/19 0.54/19 0.56/19/19 0.57/19/19 0.58/19/19 0.58/19/19 0.58/19/19 0.58/19/19 0.58/19/19 0.58/19/19 0.58/19/19 0.59/19/19/19/19/19/19/19/19/19/19/19/19/19	TOC Elevation	Measurement		(feet)	(feet)	(feet)
Continued 06/29/15 09/28/15 09/28/15 00.52 0.51 03/05/16 2.03 4.59 56.31 1.92 06/21/16 0.40 0.596 54.94 1.37 09/16/16 0.10 0.11 12/20/16 1.09 0.31/6 03/24/17	MW-5	03/31/15		5.17	55 73	0.07
09/28/15 0.52 6.51 54.39 -0.16						
03/03/16	Continued					
06/21/16						
09/16/16 0.10 6.11 54.79 -0.15						
12/20/16						
03/24/17						
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 0.35 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 05/21/19 5.73 55.17 -0.42 11/12/19 5.73 55.17 -0.42 11/12/19 5.06 55.84 0.67 03/04/20 4.72 56.18 0.34 09/03/20 5.61 55.29 -0.89 03/19/21 4.69 56.21 0.92 08/23/21 5.98 54.92 -1.29 11/17/21 4.05 56.85 1.93 MW-6 60.76 08/14/13 5.13 55.63 1.08 02/20/14 0.29 4.27 56.49 0.86 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 09/03/16 0.52 5.91 54.85 -1.38 06/21/16 0.52 5.91 54.85 -1.38 06/16/17 0.23 5.18 55.59 -0.60 09/05/17 0.61 6.23 54.55 -1.105 12/20/16 1.30 5.14 55.62 0.87 09/05/17 0.61 6.23 54.55 -0.10 09/05/17 0.61 6.23 54.55 -0.10 09/05/17 0.61 6.23 55.54 -0.66 09/05/17 0.61 6.23 55.57 55.19 -0.77 08/23/18 0.48 6.51 54.25 -0.94 11/15/18 1.22 5.39 55.56 1.43 11/12/19 5.63 55.13 55.56 -0.00 05/17/18 0.35 5.57 55.19 -0.77 08/23/18 0.48 6.51 54.25 -0.94 0.17/19/19 0.39 4.69 56.07 0.70 0.5/21/19 0.32 5.22 55.54 -0.53 0.9/03/20 5.63 55.13 -0.41 11/12/19 5.64 6.67 6.77 6.77 0.56 0.56 0.39 0.56 0.00 0.57/17/18 0.35 5.57 55.19 -0.77 0.68 0.77 0.76 0.76 0.76 0.70 0.5/21/19 0.32 5.22 55.54 -0.53 0.8/23/21 5.50 55.26 -0.88 0.3/19/21 5.50 55.26 -0.88 0.3/19/21 5.50 55.26 -0.88 0.3/19/21 5.50 55.26 -0.88 0.3/19/21 5.50 55.26						
09/05/17 0.51 6.27 54.63 -1.00 12/20/17 0.93 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 05/21/19 5.31 55.59 -0.51 08/21/19 5.73 55.17 -0.42 11/12/19 5.06 55.84 0.67 03/04/20 4.72 56.18 0.34 09/03/20 5.61 55.29 -0.89 03/19/21 4.69 56.21 0.92 08/23/21 5.98 54.92 -1.29 11/17/21 4.05 56.85 1.93 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 05/315/14 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 03/33/15 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 06/21/16 0.52 5.91 54.85 -1.38 06/21/16 0.52 5.91 54.85 -1.38 06/21/16 0.52 5.91 54.85 -1.38 06/21/16 0.52 5.91 54.85 -1.38 09/05/17 0.61 6.23 54.53 -1.05 09/05/17 0.61 6.23 54.53 -1.05 09/16/18 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 05/21/19 0.32 5.22 55.54 -0.53 08/21/19 5.63 55.13 -0.41 11/12/19 5.63 55.13 -0.41 11/12/19 5.63 55.14 55.62 0.49 03/04/20 4.62 56.14 55.62 0.49 03/04/20 4.62 56.14 55.62 0.49 03/04/20 4.62 56.14 55.20 0.49 03/04/21 5.63 55.76 56.17 0.91 08/23/21 5.90 54.86 -1.31						
1220/17						
01/02/18 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 0.5/21/19 5.31 55.59 -0.51 08/21/19 5.73 55.17 -0.42 11/12/19 5.06 55.84 0.67 03/04/20 4.72 56.18 0.34 0.90/03/20 5.61 55.29 -0.89 03/19/21 4.69 56.21 0.92 08/23/21 5.98 54.92 -1.29 11/17/21 5.13 55.63 1.08 02/20/14 0.29 4.27 56.49 0.86 0.5/15/14 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 0.928/15 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 0.916/16 0.33 6.01 54.75 -0.10 12/20/16 1.30 5.14 55.62 0.87 0.976/17 0.976/17 0.61 6.23 54.53 -1.08 0.976/17 0.61 6.23 54.53 -1.08 0.976/17 0.61 6.23 54.53 -1.05 1.2/20/17 0.61 6.23 54.53 -1.05 1.2/20/17 0.61 6.23 54.53 -1.05 1.2/20/17 0.76 4.80 55.96 0.00 0.00/23/18 0.86 4.80 55.96 0.00 0.00/23/18 0.86 4.80 55.96 0.00 0.00/23/18 0.86 4.80 55.96 0.00 0.00/23/18 0.86 4.80 55.96 0.00 0.00/23/18 0.86 4.80 55.96 0.00 0.00/23/18 0.86 4.80 55.96 0.00 0.00/23/18 0.86 4.80 55.96 0.00 0.00/23/18 0.48 6.51 54.25 -0.94 11/15/18 1.22 5.39 55.37 1.12 0.2/19/19 0.39 4.69 56.07 0.70 0.00/23/19 0.30/30/20 5.63 55.26 -0.88 0.3/19/21 5.90 54.86 -1.31 0.8/23/21 5.90 54.86 -1.31 0.8/23/21 5.90 54.86 -1.31 0.8/23/21 5.90 54.86 -1.31 0.90/23/21 5.90 54.86 -1.31 0.90/23/21 5.90 54.86 -1.31 0.90/23/21 5.90 54.86 -1.31 0.90/23/21 5.90 54.86 -1.31 0.90/23/21 5.90 54.86 -1.31 0.90/23/21 5.90 54.86						
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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 05/21/19 5.31 55.59 -0.51 08/21/19 5.73 55.17 -0.42 11/12/19 5.06 55.84 0.67 03/04/20 4.72 56.18 0.34 09/03/20 5.61 55.29 -0.89 03/19/21 4.69 56.21 0.92 08/23/21 5.98 54.92 -1.29 11/17/21 4.05 56.85 1.93						
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60.76 08/14/13 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 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 05/21/19 0.32 5.14 55.62 0.49 03/04/20 5.63 55.26 -0.88 03/19/21 5.90 54.86 -1.31		11/17/21		4.05	56.85	1.93
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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 0.00 05/1	00.70					
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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 0.00 05/17/18 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 05/21/19 5.63 55.13 -0.41 11/12/1				5.10		
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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 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 05/21/19 0.32 5.22 55.54 -0.53 08/21/19 5.63 55.13 -0.41 11/12/19 5.14 55.62 0.49 03/04/20 4.62 56.14 0.52 09/03/20 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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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 05/21/19 0.32 5.22 55.54 -0.53 08/21/19 5.63 55.13 -0.41 11/12/19 5.14 55.62 0.49 03/04/20 4.62 56.14 0.52 09/03/20 5.50 55.26 -0.88 03/19/21 4.59 56.17 0.91 08/23/21 5.90 54.86 -1.31						
11/15/18 1.22 5.39 55.37 1.12 02/19/19 0.39 4.69 56.07 0.70 05/21/19 0.32 5.22 55.54 -0.53 08/21/19 5.63 55.13 -0.41 11/12/19 5.14 55.62 0.49 03/04/20 4.62 56.14 0.52 09/03/20 5.50 55.26 -0.88 03/19/21 4.59 56.17 0.91 08/23/21 5.90 54.86 -1.31						
02/19/19 0.39 4.69 56.07 0.70 05/21/19 0.32 5.22 55.54 -0.53 08/21/19 5.63 55.13 -0.41 11/12/19 5.14 55.62 0.49 03/04/20 4.62 56.14 0.52 09/03/20 5.50 55.26 -0.88 03/19/21 4.59 56.17 0.91 08/23/21 5.90 54.86 -1.31						
05/21/19 0.32 5.22 55.54 -0.53 08/21/19 5.63 55.13 -0.41 11/12/19 5.14 55.62 0.49 03/04/20 4.62 56.14 0.52 09/03/20 5.50 55.26 -0.88 03/19/21 4.59 56.17 0.91 08/23/21 5.90 54.86 -1.31						
08/21/19 5.63 55.13 -0.41 11/12/19 5.14 55.62 0.49 03/04/20 4.62 56.14 0.52 09/03/20 5.50 55.26 -0.88 03/19/21 4.59 56.17 0.91 08/23/21 5.90 54.86 -1.31						
11/12/19 5.14 55.62 0.49 03/04/20 4.62 56.14 0.52 09/03/20 5.50 55.26 -0.88 03/19/21 4.59 56.17 0.91 08/23/21 5.90 54.86 -1.31						
03/04/20 4.62 56.14 0.52 09/03/20 5.50 55.26 -0.88 03/19/21 4.59 56.17 0.91 08/23/21 5.90 54.86 -1.31						
09/03/20 5.50 55.26 -0.88 03/19/21 4.59 56.17 0.91 08/23/21 5.90 54.86 -1.31						
03/19/21 4.59 56.17 0.91 08/23/21 5.90 54.86 -1.31						
08/23/21 5.90 54.86 -1.31						
11/17/21 4.02 56.74 1.88						
		11/17/21		4.02	56.74	1.88

Table 1
Groundwater Elevation Summary

		D'andrad			
Well Number/ TOC Elevation	Date of Measurement	Dissolved Oxygen	DTW (feet)	SWL (feet)	Change in SWL (feet)
	1v1cusur cinent	(mg/L)	(leet)	(Icci)	(Icct)
MW-7	00/4/6/4/6				
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 11/15/18		5.67 4.49	54.20 55.38	-0.96 1.18
	02/19/19		3.85	56.02	0.64
	05/21/19		4.36	55.51	-0.51
	08/21/19		4.76	55.11	-0.40
	11/12/19		4.70	55.73	0.62
	03/04/20		3.77	56.10	0.02
	09/03/20		4.62	55.25	-0.85
	03/19/21		3.72	56.15	0.90
	08/23/21		5.19	54.68	-1.47
	11/17/21		3.10	56.77	2.09
MYZ	11/1//21	<u> </u>			2.07
MW-8	00/16/16	0.52	7 00	54.61	
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 0.34	4.21 5.31	55.49 54.39	-0.54
	09/05/17 12/20/17	1.39	3.78	55.92	-1.10 1.53
	05/17/18	0.62	4.66	55.04	-0.88
	06/05/18	0.62	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
	05/21/19	0.39	4.20	55.50	-0.47
	08/21/19		4.62	55.08	-0.42
	11/12/19		3.89	55.81	0.73
	03/04/20		3.61	56.09	0.28
	09/03/20		4.49	55.21	-0.88
	03/19/21		3.55	56.15	0.94
	08/23/21		4.92	54.78	-1.37
	11/17/21		2.97	56.73	1.95
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
	05/21/19	0.29	5.33	55.58	-0.63
	08/21/19	0.29	5.80	55.11	-0.47
	11/12/19	0.50	5.09	55.82	0.71
	03/04/20	0.35	4.72	56.19	0.37
	09/03/20	0.42	5.67	55.24	-0.95
	03/19/21	4.97	4.54	56.37	1.13
	08/23/21	1.73	6.09	54.82	-1.55
	11/17/21	6.09	4.03	56.88	2.06

Table 1
Groundwater Elevation Summary

Well Number/ TOC Elevation	Date of Measurement	Dissolved Oxygen (mg/L)	DTW (feet)	SWL (feet)	Change in SWL (feet)
MW-10					
59.80	02/19/19	0.69	4.09	55.71	
	05/21/19	0.30	4.36	55.44	-0.27
	08/21/19	0.47	4.75	55.05	-0.39
	11/12/19	0.40	4.46	55.34	0.29
	03/04/20		3.89	55.91	0.57
	09/03/20		4.62	55.18	-0.73
	03/19/21		3.64	56.16	0.98
	08/23/21		5.05	54.75	-1.41
	11/17/21		3.04	56.76	2.01

Notes:

TOC - Top of casing

SWL - Static water level

mg/L - Milligrams per liter

NC - Not collected

DTW - Depth to water

-- - Not applicable/Not measured

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 2
Summary of Groundwater Analytical Results

			Ecology Method NWTPH-Gx (µg/L)		cology Metho NWTPH-Dx (µg/L)			SEPA Met	ganic Compoun thod 8021B/826 (µg/L)	
Well ID	Sample ID	Collection Date	TPH-g	TPH-d	TPH-0	Total TPH (C ₁₂ - C ₃₆₎	Benzene		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								
	NS	5/21/2019								
	NS	8/21/2019								
	EW-111219-3	11/12/2019		220 J	160 J	380 J				
	NS	3/4/2020								
	NS	9/3/2020								
	NS	3/19/2021								
	NS	8/23/2021								
	NS	11/17/2021								
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 NA	2/20/2014		<50	<250	<250				
1	NA NA	5/15/2014		<50	<250	<250				

Table 2
Summary of Groundwater Analytical Results

			Ecology Method NWTPH-Gx		cology Metho			SEPA Met	ganic Compoun thod 8021B/826	
Well ID	Sample ID	Collection	(μg/L) TPH-g	TPH-d	(μg/L) TPH-0	Total TPH	Benzene		(μg/L) Ethylbenzene	Total
MW 2	NT A	Date 8/14/2014		100	<250	(C ₁₂ - C ₃₆₎				Xylenes
MW-2	NA	11/24/2014		100	<250	100				
Continued	NA			<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				
	NA	12/20/2016		<50	<250	<250				
	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								
	NS	5/21/2019								
	NS	8/21/2019								
	NS	11/12/2019								
	NS	3/4/2020								
	NS	9/3/2020								
	NS	3/19/2021								
	NS	8/23/2021								
	NS	11/17/2021								
MW-3	MW-3	12/23/1998		<250	<500	<500				
WI W - 3		8/12/2011	 <100	<250	<500	<500		 -1	 <1	
	NA		<100 <100	65		65	<1 <1	<1	1	<3 <3
	NA	11/11/2011			<250			<1	<1	
	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 NA	12/20/2017		150	<250	150				
	EW-051718-9	5/17/2018		520	<400	520			<u> </u>	
	NS	8/23/2018								

Table 2
Summary of Groundwater Analytical Results

			Ecology Method NWTPH-Gx		cology Metho NWTPH-Dx				ganic Compoun thod 8021B/826	
			(µg/L)		(µg/L)				(μg/L)	
Well ID	Sample ID	Collection Date	ТРН-д	TPH-d	ТРН-о	Total TPH (C ₁₂ - C ₃₆₎	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-3	EW-111518-1	11/15/2018		<390	<390	<390				
Continued	EW-021919-4	2/19/2019		<400	<400	<400				
duplicate	EW-021919-5	2/19/2019		<400	<400	<400				
aupmente	EW-052119-3	5/21/2019		<410	<410	<410				
duplicate	EW-052119-4	5/21/2019		<400	<400	<400				
aupireate	EW-082119-3	8/21/2019		<410	<410	<410				
duplicate	EW-082119-4	8/21/2019		<390	<390	<390				
dapneate	NS NS	11/12/2019								
	NS	3/4/2020								
	NS	9/3/2020								
	NS	3/19/2021								
	NS	8/23/2021								
	NS NS	11/17/2021								
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				
	NA	11/24/2014		290	<250	290				
	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 NA	9/5/2017		150	<250	150				
	NA NA	1/2/2018		<50	<250	<250				
	EW-051718-8	5/17/2018		<400	<400	<400				
	NS	8/23/2018			\ -1 00	\ -1 00				
	NS NS	11/15/2018								
	NS NS	2/19/2019								
	NS NS	5/21/2019								
					<u></u>					
	NS NS	8/21/2019								
	NS	11/12/2019								
	NS	3/4/2020								
	NS	9/3/2020								
	NS	3/19/2021								
	NS	8/23/2021								
	NS	11/17/2021								

Table 2
Summary of Groundwater Analytical Results

			Ecology Method NWTPH-Gx (µg/L)		cology Metho NWTPH-Dx (µg/L)			SEPA Met	ganic Compoun thod 8021B/826 (µg/L)	
Well ID	Sample ID	Collection Date	TPH-g	TPH-d	TPH-0	Total TPH (C ₁₂ - C ₃₆₎	Benzene		Ethylbenzene	Total Xylenes
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								
	NS	5/21/2019								
	NS	8/21/2019								
	NS	11/12/2019								
	NS	3/4/2020								
	NS	9/3/2020								
	NS	3/19/2021								
	NS	8/23/2021								
	NS	11/17/2021								
MW-6	NA	6/5/2013	<100	680	<250	680	<1	<1	<1	<3
11211	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 NA	6/29/2015		750	<250	750				
	NA NA	9/28/2015		610	<250	610				
	NA NA	3/3/2016		1,100	390	1,490				
	NA NA	6/21/2016		650	<250	650				
	NA NA	9/16/2016		340	<250	340				
	NA NA	12/20/2016		640	<250	640				
	NA NA	3/24/2017		580	<250	580				
	NA NA	6/19/2017		970	280	1,250				
	NA NA	9/5/2017		320	<250	320				
	na Na	1/2/2018		240	<250	240				
	NA EW-051718-6	5/17/2018		880	<400					
						880				
	EW-082318-4	8/23/2018 11/15/2018		<400 <380	<400	<400				
	EW-082318-3			<380	<380	<380				
	EW-021919-2	2/19/2019		470	<400	470				
	EW-052119-2	5/21/2019		<390	<390	<390				
	NS	8/21/2019								
	NS	11/12/2019								
	NS	3/4/2020								
	NS	9/3/2020								
	NS	3/19/2021								

Table 2
Summary of Groundwater Analytical Results

			Ecology Method NWTPH-Gx		cology Metho			SEPA Met	ganic Compoun thod 8021B/826	
			(μg/L)		(µg/L)	T		I	(μg/L)	
Well ID	Sample ID	Collection Date	ТРН-д	TPH-d	ТРН-о	Total TPH (C ₁₂ - C ₃₆₎	Benzene	Toluene	Ethylbenzene	Total Xylenes
NAME (NG	8/23/2021				,				Aylenes
MW-6	NS									
Continued	NS	11/17/2021								
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								
	NS	5/21/2019								
	NS	8/21/2019								
	NS	11/12/2019								
	NS	3/4/2020								
	NS	9/3/2020								
	NS	3/19/2021								
	NS	8/23/2021								
	NS	11/17/2021								
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				
	EW-052119-5	5/21/2019		<400	<400	<400				
	NS	8/21/2019								
	NS	11/12/2019								
	NS	3/4/2020								
	NS	9/3/2020								
	NS	3/19/2021								
	NS	8/23/2021								
	NS	11/17/2021								
MW-9	NA	9/5/2017		4,300	<250	4,300				
141 44 -3	NA NA	12/20/2017		360	<250	360				
	EW-051718-2	5/17/2018	<u> </u>	450	<400	450				
duplicate	EW-051718-2 EW-051718-3	5/17/2018	<u> </u>	470	<390	470				
aupiteate	EW-031718-3 EW-082318-1	8/23/2018		790	<400	790			I	
duplicate	EW-082318-1 EW-082318-2	8/23/2018		700	<400	700				
aupireate	EW-082318-2 EW-111518-4	11/15/2018		<390	<390	<390				
duplicate	EW-111518-4 EW-111518-5	11/15/2018		<400	<400	<400				
aupireate	EW-111318-3 EW-021919-1	2/19/2019	<100	<400 <400	<400	<400	<1.0	<1.0	<1.0	<3.0
	EW-021919-1 EW-052119-1	5/21/2019		510	<410	510	~1.0 	<1.0 		\3.U

Table 2
Summary of Groundwater Analytical Results

			Ecology Method NWTPH-Gx (µg/L)		cology Metho NWTPH-Dx			SEPA Met	ganic Compoun thod 8021B/826	
Well ID	Sample ID	Collection Date	трн-g	TPH-d	(μg/L) TPH-ο	Total TPH (C ₁₂ - C ₃₆₎	Benzene		(μg/L) Ethylbenzene	Total Xylenes
MW-9	EW-082119-1	8/21/2019		630	<390	630				
Continued	EW-111219-1	11/12/2019		520	91 J	611 J				
duplicate	EW-111219-2	11/12/2019		380 J	92 J	472 J				
	EW-030420-1	3/4/2020		260 J	89 J	349 J				
duplicate	EW-030420-2	3/4/2020		290 J	93 J	383 J				
	EW-090320-1	9/3/2020		750	150 J	900 J				
duplicate	EW-090320-2	9/3/2020		850	150 J	1,000 J				
	EW-031921-01	3/19/2021		140 J	<120	140 J				
duplicate	EW-031921-02	3/19/2021		180 J	<120	180 J				
	EW-082321-01	8/23/2021		240 J	<220	240 J				
duplicate	EW-082321-02	8/23/2021		280 J	<190	280 J				
	EW-111721-01	11/17/2021		<120	<190	<190				
duplicate	EW-111721-02	11/17/2021		<150	<230	<230				
MW-10	EW-021919-6	2/19/2019	<100	<400	<400	<400	<1.0	<1.0	<1.0	<3.0
	EW-052119-6	5/21/2019		< 390	<390	<390				
	EW-082119-2	8/21/2019		< 400	<400	<400				
	EW-111219-4	11/12/2019		200 J	100 J	300 J				
	NS	3/4/2020								
	NS	9/3/2020								
	NS	3/19/2021								
	NS	8/23/2021								
	NS	11/17/2021								
MTCA M	Iethod A Cleanup Groundwater ^a	Levels for	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

 $\mu g/L$ - micrograms per liter

-- - Not Analyzed

< - Not reported at, or above the indicated laboratory MRL

NS - Not Sampled

NA - Not Applicable

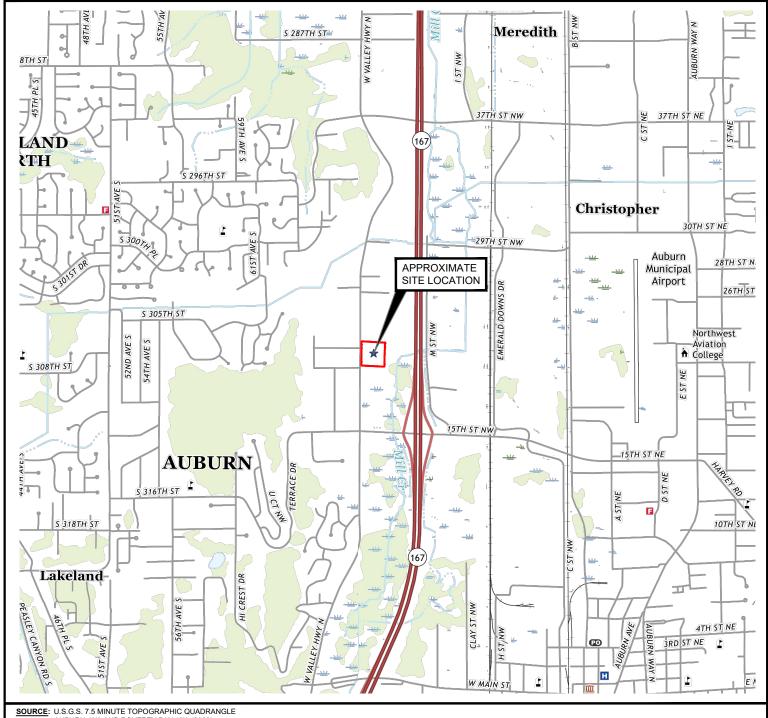
Shaded value indicates compound was reported either at, or above the laboratory MRL or MDL

J - Estimated concentration above the adjusted laboratory method detection limit (MDL) and below the adjusted laboratory method reporting limit (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.



SOURCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLE AUBURN, WA AND POVERTY BAY, WA (2020)





Scale: 1"=2,000'

2,000 4,000 1,000



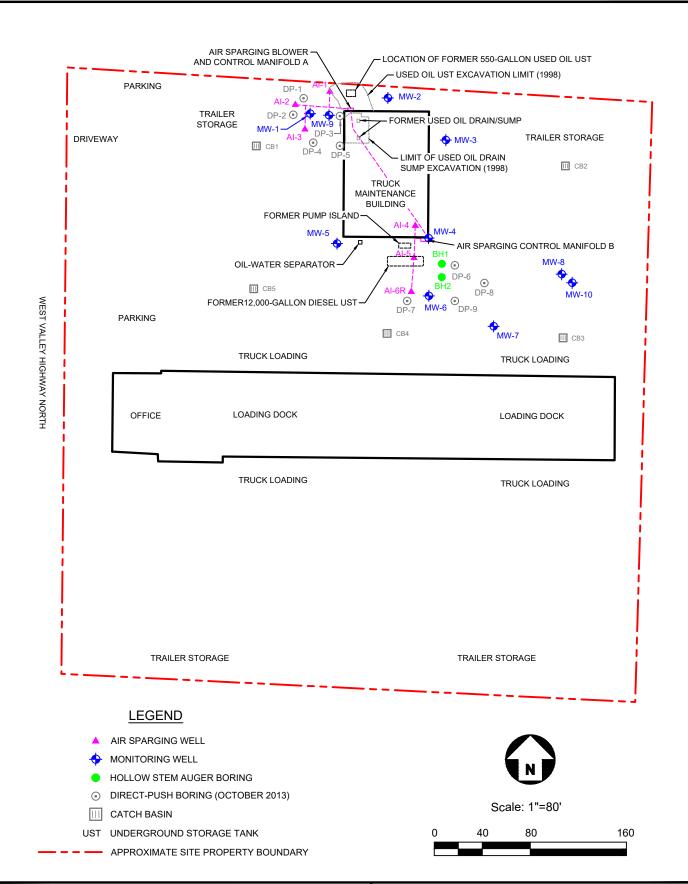
A & M Engineering and **Environmental Services, Inc.**

Consulting - Design - Construction - Remediation

SITE LOCATION MAP

QUARTERLY GROUNDWATER MONITORING REPORT - NOVEMBER 2021 FORMER PROVISIONERS EXPRESS FACILITY 2102 WEST VALLEY HIGHWAY NORTH, AUBURN, WASHINGTON

SCALE: AS SHOWN	DATE: 12/2/21	FIGURE NO.
APPROVED BY:	DRAWN BY:	PROJECT NO.
DJL	SRM	2004-0003





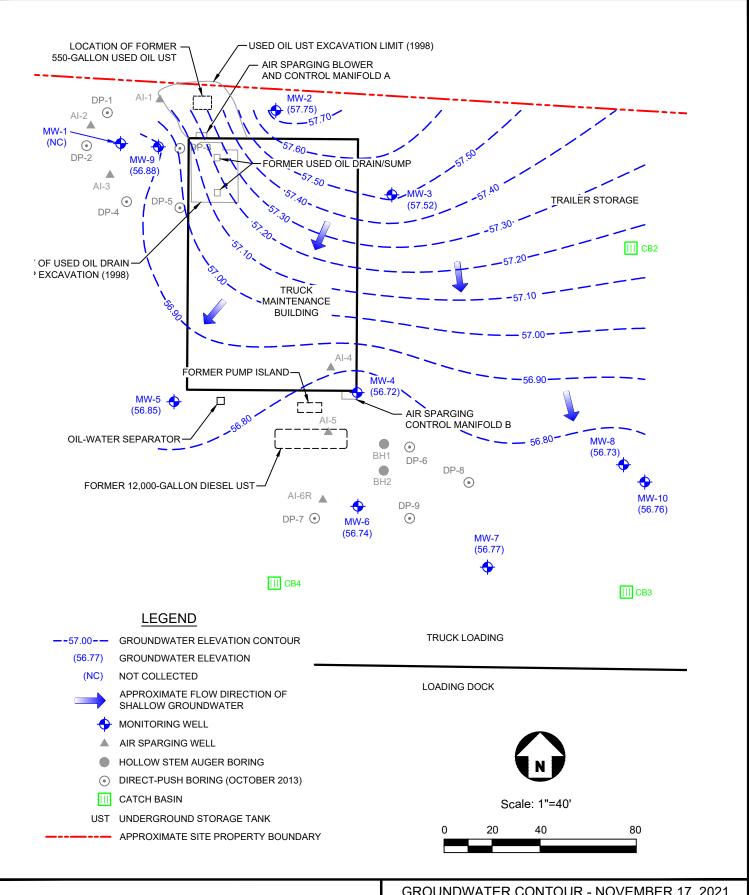
A & M Engineering and Environmental Services, Inc.

Consulting - Design - Construction - Remediation

SITE MAP

QUARTERLY GROUNDWATER MONITORING REPORT - NOVEMBER 2021 FORMER PROVISIONERS EXPRESS FACILITY 2102 WEST VALLEY HIGHWAY NORTH, AUBURN, WASHINGTON

		•
SCALE: AS SHOWN	DATE: 12/2/21	FIGURE NO. 2
APPROVED BY: DJL	DRAWN BY: SRM	PROJECT NO. 2004-0003



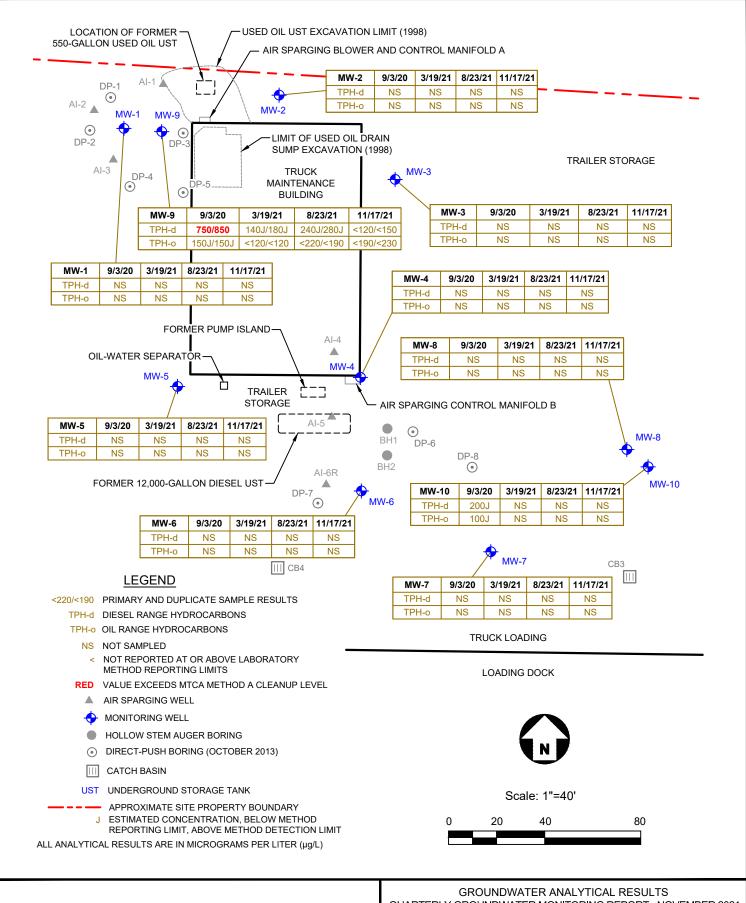


A & M Engineering and Environmental Services, Inc.

Consulting - Design - Construction - Remediation

GROUNDWATER CONTOUR - NOVEMBER 17, 2021
QUARTERLY GROUNDWATER MONITORING REPORT - NOVEMBER 2021
FORMER PROVISIONERS EXPRESS FACILITY
2102 WEST VALLEY HIGHWAY NORTH, AUBURN, WASHINGTON

		· ·
SCALE:	DATE:	FIGURE NO.
AS SHOWN	12/2/21	3
APPROVED BY:	DRAWN BY:	PROJECT NO.
DJL	SRM	2004-0003





A & M Engineering and Environmental Services, Inc.

Consulting - Design - Construction - Remediation

GROUNDWATER ANALYTICAL RESULTS
QUARTERLY GROUNDWATER MONITORING REPORT - NOVEMBER 2021
FORMER PROVISIONERS EXPRESS FACILITY
2102 WEST VALLEY HIGHWAY NORTH, AUBURN, WASHINGTON

		· ·
SCALE:	DATE:	FIGURE NO.
AS SHOWN	12/2/21	4
APPROVED BY:	DRAWN BY:	PROJECT NO.
DJL	SRM	2004-0003

ATTACHMENT A FIELD SAMPLING DATA SHEETS

FIELD SAMPLING DATA SHEET LOW-FLOW GROUNDWATER SAMPLING

PROJECT	NAM	E: <u>_ F</u>	ESTES	West				1	WELL I	D: 1	1W-	9			
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									Di	UPLIC.	ATE I	D:	-02	141	5
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Weather	Sur	nny	Clo	oudy	R	ain	? Tempera		Temperature:			°F	°C		
WINDER DA															
Date		Гіте	1	To aim a	D:		D.T. D.	•	-						
11-17-21		1 IIIIe	-	Casing	Diame	eter				Produc	t Thic	kness			
11-17-4 2 4.03															
PUMP/IN7	TAKE	DEP	TH (fi	btoc):											
WATER Q)UAL	ITY D	ATA		0	-	ppm		u	<	M	V			
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1404	0.	9	100	37		15	6.2	2	60		22	5.1		11	
1406	-	/	5.	37	19	1.5	6.2	4	60	. /	22	2.6		1	
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GROUND				E DAT	$\Gamma \mathbf{A}$										
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Sample Tir	ne:/	1480	0/	14	15										
Bottle Type		V	An	nount &	& Volu	ıme	Preserv	vative	Filt	er					
VOA Glass					40 m	ıl	НС		No						
Amber Glass		1	2		250 n		HC	\$92.02	No						
Poly					250 n	nl									
7.0			Resource:												
Total Bottles		XZ	4												
Notes: #	401/	w -	DINT	70 1	NATI	и.	pump	RAT	EF	0.10	LPM.				
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Sampled By	: Stev	e McC	Cray					Sign	nature:_	1	fu	- 5			
										1		-		- XIII	

2000 to 2000 t		1 30 2		517.10 Sample				- 44
San G	3		2 g	72 50				

ATTACHMENT B LABORATORY ANALYTICAL REPORT

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



December 03, 2021

Dan Landry A & M Engineering and Environmental Services, Inc. 1176 West 7th Avenue Eugene, OR 97402

RE: Project: 2004-0003/TASK 1 Former West E

Pace Project No.: 10588269

Dear Dan Landry:

Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Minneapolis

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

Sincerely,

JENNI GROSS

Jennifer Gross jennifer.gross@pacelabs.com (612)607-1700 Project Manager

Enclosures





CERTIFICATIONS

Project: 2004-0003/TASK 1 Former West E

Pace Project No.: 10588269

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air

Lab

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 Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW

Certification #: via MN 027-053-137 Florida Certification #: E87605* Georgia Certification #: 959 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 BW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: Al-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240* Mississippi Certification #: MN00064 Missouri Certification #: 10100
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 (1700) #: CL 101

Ohio VAP Certification (1700) #: CL101 Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*

Oregon Primary 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*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*

Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

*Please Note: Applicable air certifications are denoted with

an asterisk (*).

REPORT OF LABORATORY ANALYSIS





SAMPLE SUMMARY

Project: 2004-0003/TASK 1 Former West E

Pace Project No.: 10588269

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10588269001	EW-111721-01	Water	11/17/21 14:00	11/18/21 14:10
10588269002	EW-111721-02	Water	11/17/21 14:15	11/18/21 14:10

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project: 2004-0003/TASK 1 Former West E

Pace Project No.: 10588269

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10588269001	EW-111721-01	NWTPH-Dx	TT2	4	PASI-M
10588269002	EW-111721-02	NWTPH-Dx	TT2	4	PASI-M

PASI-M = Pace Analytical Services - Minneapolis



ANALYTICAL RESULTS

Project: 2004-0003/TASK 1 Former West E

Pace Project No.: 10588269

Date: 12/03/2021 09:52 AM

Sample: EW-111721-01	Lab ID:	10588269001	Collected	l: 11/17/21	14:00	Received: 11/	18/21 14:10 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical	Method: NWTF	H-Dx Prepa	aration Me	thod: EF	PA Mod. 3510C			
	Pace Anal	ytical Services	- Minneapol	is					
Diesel Fuel Range	<0.12	mg/L	0.42	0.12	1	11/19/21 14:50	11/23/21 16:21	68334-30-5	P2
Motor Oil Range Surrogates	<0.19	mg/L	0.42	0.19	1	11/19/21 14:50	11/23/21 16:21		P2
o-Terphenyl (S)	86	%.	50-150		1	11/19/21 14:50	11/23/21 16:21	84-15-1	
n-Triacontane (S)	81	%.	50-150		1	11/19/21 14:50	11/23/21 16:21		
Sample: EW-111721-02	Lab ID:	10588269002	Collected	l: 11/17/21	14:15	Received: 11/	18/21 14:10 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical	Method: NWTF	H-Dx Prepa	aration Me	thod: Ef	PA Mod. 3510C			
	·	utical Carriage	- Minneapol	is					
	Pace Anal	ylicai Services							
Diesel Fuel Range	Pace Anal	mg/L	0.50	0.15	1	11/19/21 14:50	11/23/21 16:44	68334-30-5	H5
Diesel Fuel Range Motor Oil Range Surrogates		•	•	0.15 0.23	1 1	11/19/21 14:50 11/19/21 14:50	11/23/21 16:44 11/23/21 16:44	68334-30-5	H5 H5
Motor Oil Range	<0.15	mg/L	0.50		•		=		-

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: 2004-0003/TASK 1 Former West E

Pace Project No.: 10588269

Date: 12/03/2021 09:52 AM

QC Batch: 784888 Analysis Method: NWTPH-Dx

QC Batch Method: EPA Mod. 3510C Analysis Description: NWTPH-Dx GCS LV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10588269001, 10588269002

METHOD BLANK: 4178324 Matrix: Water

Associated Lab Samples: 10588269001, 10588269002

		Blank	Reporting			
Parameter	Units Result		Limit	MDL	Analyzed	Qualifiers
Diesel Fuel Range	mg/L	<0.12	0.40	0.12	11/23/21 15:46	
Motor Oil Range	mg/L	<0.18	0.40	0.18	11/23/21 15:46	
n-Triacontane (S)	%.	48	50-150		11/23/21 15:46	S0
o-Terphenyl (S)	%.	66	50-150		11/23/21 15:46	

LABORATORY CONTROL SAMPLE & I	LCSD: 4178325		41	178326						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
Diesel Fuel Range	mg/L	2	1.5	1.7	75	86	50-150	14	20	
Motor Oil Range	mg/L	2	1.6	1.9	81	94	50-150	15	20	
n-Triacontane (S)	%.				54	72	50-150			
o-Terphenyl (S)	%.				77	88	50-150			

SAMPLE DUPLICATE: 4178327							
		10588269001	Dup		Max		
Parameter	Units	Result	Result	RPD	RPD	Qualifiers	
Diesel Fuel Range	mg/L	<0.12	<0.14		30 P2		
Motor Oil Range	mg/L	<0.19	<0.22		3	0 P2	
n-Triacontane (S)	%.	81	81				
o-Terphenyl (S)	%.	86	81				

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



QUALIFIERS

Project: 2004-0003/TASK 1 Former West E

Pace Project No.: 10588269

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 12/03/2021 09:52 AM

- H5 Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.
- P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.
- S0 Surrogate recovery outside laboratory control limits.





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2004-0003/TASK 1 Former West E

Pace Project No.: 10588269

Date: 12/03/2021 09:52 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10588269001	EW-111721-01	EPA Mod. 3510C	784888	NWTPH-Dx	785821
10588269002	EW-111721-02	EPA Mod. 3510C	784888	NWTPH-Dx	785821

REPORT OF LABORATORY ANALYSIS

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	Page: Of		Parties Statement Regulatory Agency place and the sail		State	Requested Analysis Filtered (YNV)		W1PH-Ox (Diesel					CVV X	700	0300036	60700CM				LIATION SAMPLE SAMPLE CONDITIONS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			ио ра	DATE Signad: TEMP I TEMP I TEMP I TEMP I TEMP I	
Section G	Invoice Internation: Attention	Company Name: ETG	Address: 1176 West 7th Avenue	Pace Quote:	CO2/1 Pace Profile #: 328/9/1		CTED Preservatives	AMPLE TEMP AT C. MARIE TEMP AT C. MASSO3 MASSO3 MASSO3 MASSO3 MASSO3 MASSO3 MASSO3 MASSO3 MASSO3	3			× 2 coμ γ/ν/	× 2 51/11/1/1/		⊤ ₹ :	T - #OM		10588269		DATE TIMES ACCEPTED BY (AFFLATION	- 333 ME Wall Bu	11-12-21		SAMPLER NAME AND SIGNATURE. PRINT Name of SAMPLER:	SIGNATURE OF SAMPLER:	1 1 200
Section B Rectified Decision Merimations	Report To:		Distribution of Produce 46.	Project Name: Econory Descriptions on Information			(611)	 本の表表の WATRIX CODE (see WATRIX CODE (see				1 2	1 52/24		,					RETINGUISHED BY / AFFILIATION	STRUE TO STREET	STEVA MCCARY	7	SAMPLER	SIGN	
: Section A Required Client Information:	1		Eugene, OR 97402	Phone; Fax	Standar			One Character per box. Ci (A-Z, 0-9 i, -) Neo Sample Ids must be unique Chen				10-125111-W3	EW-111721-02							ADDITIONAL COMMENTS						
Section A Required	Company:	Address:	i de	Phone	Request			TEM#		,	8	•	5	9	8	67	0	.	72	}} :				Pag	e 9 of	11

Pace Analytical*

Document Name:

Sample Condition Upon Receipt (SCUR) - MN

Document No.:

ENV-FRM-MIN4-0150 Rev.02

Document Revised: 14Apr2021

Page 1 of 1

Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt Olympia			Project	#:	MC)#:	105	58826	39	
Pace SpeeDee	USPS Commer	cial	Client		PM:	JMG	&M Eng	Due Date		3/21
Tracking Number: 1686 7304 1770	-		ee Exception		<u> </u>					<u> </u>
Custody Seal on Cooler/Box Present? Yes	No	Se	als Intact	? X Y	es 🔲	No i	Biological	Tissue Frozen	? 🔲 Yes	s □No ⊠ N/A
Packing Material: Bubble Wrap Bubble B	ags [None	□Oth	er:				Temp Blank	. □.v	es N o
Thermometer:	□OS418 □16028		Type of Ice:	₩et	∐Blue	e □N	one []Dry M el	ted	•
Did Samples Originate in West Virginia? ☐Yes 🔀 No	We	re All Co	ontainer '	Temps T	ken? 🔲	′es □N	o 🔀N/A			
Temp should be above feel zing to 6°C Cooler Temp Re Correction Factor: Cooler Temp Corrected		-				0	Tei	erage Correcte mp (no temp b	lank 🗓	See Exceptions NV-FRM-MIN4-0142 11 Container
USDA Regulated Soil: (X N/A, water sample/Other:	aps)? [Yes	□No	A, Did Hav	samples or vaii and Pu	riginate fr erto Rico)	om a forei ?		nationally No	Z //· /8 , including
·	-						CO	MMENTS:		
Chain of Custody Present and Filled Out?	Yes	□No		1.						
hain of Custody Relinquished? ampler Name and/or Signature on COC?	Yes		□N/A	2.						1
amples Arrived within Hold Time?	Yes		UN/A	4.						***
nort Hold Time Analysis (<72 hr)?	∐Yes	⊠No		5.	Fecal Colifo	orm []HP	C Total (Coliform/E coli Orthophos 0	BOD/cBOI	D Hex Chrome
ush Turn Around Time Requested?	□Yes	ХДNo		6.						
ufficient Volume?	¥Yes	□No		7.						
orrect Containers Used?	Yes	□No		8.						
-Pace Containers Used? ontainers Intact?	¥Yes ▼Yes	∐No □No		9.	 					····
eld Filtered Volume Received for Dissolved Tests?	□Yes	□No	™ N/A		codimon	t vicible i	a tha diss	olved container	? 🎞 Yes	
sufficient information available to reconcile the samples of the COC?	Yes	□No	KAIN/A	 		***		niner Below:		No See Exception ENV-FRM-MIN4-01
Matrix: Mwater □Soil □Oil □Other □ Soil □Other □ Soil □Other □ Soil □Other □ Soil □Oil □Other □ Soil □Oil □Other □ Soil □Oil □Other □ Soil □ Soil □Oil □ Soil	Yes	□No	⊅ N/A	12. Sar	nple#			<u></u>		
II containers needing preservation are found to be in ompliance with EPA recommendation? HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	∐Yes	□No	N/A		☐ NaOH] HNO₃	∏H₂SO₄		Zinc Acetate
ceptions: VOA, Coliform, TOC/DOC Oil and Grease,	Yes	□No	□n/a	Positive Chlorin Res. Ch		Yes No 0-6 Ro		aper Lot#		See Exception NV-FRM-MIN4-014
xtra labels present on soil VOA or WIDRO containers?	Yes	□No	∑ N/A ∑ N/A	13.		0 0 1110		o o surp		See Exception
eadspace in VOA Vials (greater than 6mm)? rip Blank Present?	☐ Yes	□No		14.					El	NV-FRM-MIN4-014
rip Blank Custody Seals Present?	∐Yes □Yes	∐No ∐No	₹ZN/A		ce Trip Bl	ank Lot #	(if purcha	ased):	· 	
CLIENT NOTIFICATION/RESOLUTION erson Contacted: omments/Resolution:					Time: _	Cath		ta Required?	∐Yes	□No
Project Manager Review: te: Whenever there is a discrepancy affecting North Carolina	i Gro			£ 4b.i - £-	Date	: 1	1/18/2	1	4161	-055

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Pace Analytical®

Document Name:

Sample Condition Upon Receipt (SCUR) Exception Form

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Minneapolis

Pace Analytical Services -

SCUR Exceptions:

Scort Exceptions.	Par vision in the second constraint	A THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE				W	orkor	der#:	
Out of Temp Sample IDs	Container Type	# of Container	S		PM	Notified?	∐Yes [No.	
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Tracking Number/To	emperature		Issu	ıe Type: Sa	mple D		THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW		t of
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	priAujo	stment	LOG TOF	Preserv	ed Sam	pies	1	T	Τ
Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amoun t Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								Yes No	
		ļ ·						□Yes □No	
								☐Yes ☐No	
								☐Yes ☐No	
Comments:									
		-							

ATTACHMENT C GROUNDWATER ANALYSIS TREND CHART

