

2023 ANNUAL REPORT

North Marina Ameron/Hulbert Site Everett, Washington

September 6, 2023

Prepared for

Port of Everett

2023 Annual Report North Marina Ameron/Hulbert Site 1130 West Marine View Drive Everett, Washington

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Project Coordinator: LJL



2023 Annual Report North Marina Ameron/Hulbert Site

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LIST OF ABBREVIATIONS AND ACRONYMS

°C	degrees Celsius
μg/L	micrograms per liter
μS/cm	microSiemens per centimeter
1,1-DCE	1,1-dichloroethene
BEHP	bis(2-ethylhexyl) phthalate
bgs	below ground surface
CAP	cleanup action plan
CMP	compliance monitoring plan
CUL	cleanup levels
Ecology	Washington State Department of Ecology
EDR	engineering design report
EPA	US Environmental Protection Agency
ft	feet, foot
Holt	Holt Services, Inc.
Landau	Landau Associates, Inc.
mg/L	milligrams per liter
mV	millivolts
NTU	nephelometric turbidity units
ORP	oxidation reduction potential
PLP	potentially liable persons
Port	Port of Everett
PVC	polyvinyl chloride
RI	remedial investigation
RL	reporting limit
RPD	relative percent difference
sf	square feet
SGC	silica gel cleanup
Site	North Marina Ameron/Hulbert Site
SVOC	semivolatile organic compound
TPH	total petroleum hydrocarbons
TPH-D	diesel-range total petroleum hydrocarbons
	oil-range total petroleum hydrocarbons
VOC	volatile organic compound

1.0 INTRODUCTION

Landau Associates, Inc. (Landau) has prepared this report to present an annual summary of compliance monitoring conducted June 2022 through March 2023 at the North Marina Ameron/Hulbert Site located in Everett, Washington (Site; Figure 1). The Site is owned by the Port of Everett (Port), which is implementing the final cleanup action for the Site. Activities presented in this report include decommissioning and re-installation of a monitoring well, monitoring well development/ redevelopment, and groundwater compliance monitoring.

1.1 Background

The Port is implementing the approved Cleanup Action Plan (CAP) under Consent Decree No. 15 2 01720 7 between Site Potentially Liable Persons (PLPs) and the Washington State Department of Ecology (Ecology; Ecology 2014). As documented in the Cleanup Action Report, cleanup activities conducted to date included soil excavation and disposal in two areas (Cleanup Areas G-2 and G-4), and capping and institutional controls in the remaining cleanup areas (Landau 2022). Groundwater compliance monitoring is being completed in accordance with the Compliance Monitoring Plan (CMP; Landau 2021a). The CMP was submitted as an attachment to the Engineering Design Report (EDR), which describes the final cleanup action (Landau 2021b). The CMP and associated Consent Decree and CAP require confirmational groundwater monitoring to demonstrate that Site groundwater achieves the groundwater cleanup standards established for the Site.

1.2 Site Description

The Site is owned by the Port and is located at 1130 West Marine View Drive, Everett, Washington, as shown on Figure 1. The Site is relatively flat and generally bounded to the east by West Marine View Drive, to the north by the TC Systems Site, to the west by the North Marina, and to the south by the Hotel Indigo. The surrounding area consists of commercial and industrial development.

1.3 Capping Status

Containment and institutional controls are utilized as aspects of the cleanup in areas other than Cleanup Areas G-2 and G-4, which were addressed by excavation. Cleanup areas addressed by excavation and containment/institutional controls are shown on Figure 2. As described in the CAP, containment in these areas is accomplished by utilizing existing pavement and/or buildings that serve as a cap, except for a small area in the northeast portion of Cleanup Area J-3a which will be paved as a part of Site redevelopment. As shown on Figure 2, a portion of the previously unpaved J-3a area (approximately 350 square feet [sf]) has been paved; approximately 350 sf remain unpaved. The remaining unpaved area will be capped in conjunction with additional redevelopment activities by the Port and will be documented to demonstrate compliance with the CAP.

2.0 GROUNDWATER COMPLIANCE MONITORING

Quarterly groundwater compliance monitoring was conducted at nine wells identified in the CMP: RI-MW-1, RI-MW-2, RI-MW-3, RI-MW-4, RI-MW-6, RI-MW-7, P-10, SEE-EC-3, and ECI-MW-3. Well locations are shown on Figure 2. As discussed in Section 2.1, monitoring well P-10 was decommissioned and replaced before initiating compliance monitoring activities.

2.1 P-10 Reinstallation

Monitoring well P-10 (Figure 2) was decommissioned in May 2022 due to its location in the path of a planned ramp. It was replaced by monitoring well P-10R in June 2022 after construction ended and was developed prior to the June 2022 groundwater monitoring event. Activities for the replacement of well P-10 were communicated to Ecology by email prior to and following replacement activities.

2.1.1 Monitoring Well Decommissioning

Monitoring well P-10 was decommissioned by Holt Services, Inc. (Holt) on May 6, 2022, and decommissioning activities were observed and documented by Landau. The well was filled with bentonite chips from 0 to 8 feet (ft) below ground surface (bgs) and hydrated. The former well monument was removed, and the surface was sealed with concrete. The well decommissioning report submitted by Holt to Ecology can be found in Appendix A.

2.1.2 Monitoring Well Installation

Monitoring well P-10 was replaced by P-10R on June 13, 2022. The well was installed outside the area of the newly constructed ramp, and approximately 40 ft northeast of the former location of P-10. Prior to drilling, the proposed location was cleared for utilities by the public one-call system and a private utility locator service. Cascade Environmental installed the well using direct-push drilling equipment to 8 ft bgs. The well was constructed of 2-inch diameter, schedule 40 polyvinyl chloride (PVC) pipe and a 5-ft pre-packed screen from 3 to 8 ft bgs with a 0.020 slot size. The sand pack was created with 12-2 sand, and hydrated bentonite chips created the seal. The soil boring log and detailed well log are provided in Appendix A. During installation, a slight sheen and slight to moderate petroleum-like odor was observed in soil cuttings at approximately 7–8 ft bgs. As discussed below in Section 2.2, the Port conservatively added analysis of total petroleum hydrocarbons (TPH) to the list of analytes for the first quarter groundwater monitoring.

2.1.3 Monitoring Well Development

Eight of the nine monitoring wells identified in the CMP to be sampled as part of the compliance monitoring needed to be re-developed before sampling due to their lack of use for several years. The newly installed P-10R also needed to be developed for the first time. The well depths were measured and compared to records to determine sediment build-up and then wells were developed using an electric submersible pump and stainless-steel bailer or a Honda pump with dedicated tubing. Based on the well depth measurements before and after development, up to approximately 1.05 ft of sediment were removed from the wells during development. The wells were bailed and pumped at a high velocity

until the water ran clear or 10 well casing volumes had been removed. No odor or sheen was observed during the development activities, including at new monitoring well P-10R.

2.2 Groundwater Sampling and Analysis

Quarterly groundwater monitoring was conducted in June 2022, September 2022, December 2022, and March 2023.

2.2.1 Groundwater Elevation Survey

During the December and March monitoring events, a groundwater elevation survey was conducted prior to sampling the wells. The depth to water for the following nine wells was measured: RI-MW-1, RI-MW-2, RI-MW-3, RI-MW-4, RI-MW-6, RI-MW-7, P-10R, SEE-EC-3, and ECI-MW-3. Due to the tidal influence at some wells, the elevation survey was conducted within an approximately 1-hour window, and in particular, measurements at shoreline wells RI-MW-1, RI-MW-2, and RI-MW-3 were collected within an approximately 10-minute window to minimize the tidal influence between wells. Depth to groundwater data is presented in Table 1.

2.2.2 Groundwater Sampling

Groundwater samples were collected using a peristaltic pump following low-flow groundwater procedures. The depth to water was first measured before the well was purged with field parameters (temperature in degrees Celsius [°C], conductivity in microSiemens per centimeter [μ S/cm], dissolved oxygen in milligrams per liter [mg/L], pH, oxidation reduction potential [ORP] in millivolts [mV] and turbidity in nephelometric turbidity units [NTU]) were recorded every 3 minutes until stabilization. Once stabilization occurred, groundwater was sampled and stored on ice. Monitoring wells RI-MW 1, RI-MW-2 and RI-MW-3 were sampled within +/- 1 hour of low tide to avoid influence by marine surface water.

2.2.3 Laboratory Analysis

Compliance monitoring groundwater samples were analyzed by ALS Laboratory in Everett, Washington. In accordance with the CAP, the wells listed below were analyzed for the following:

- RI-MW-1—dissolved arsenic, dissolved copper
- RI-MW-2—dissolved arsenic, dissolved copper
- RI-MW-3—dissolved arsenic, dissolved copper, semivolatile organic compounds (SVOCs; bis[2-ethylhexyl] phthalate [BEHP] only)
- RI-MW-4—diesel- and oil-range TPH (TPH-D and TPH-O, respectively)
- RI-MW-6—dissolved arsenic, TPH-D, and TPH-O
- RI-MW-7—SVOCs (BEHP only)
- P-10R—dissolved arsenic, dissolved copper, TPH-D, and TPH-O (June 2022 only)
- SEE-EC-3—dissolved arsenic

• ECI-MW-3—dissolved arsenic, volatile organic compounds (VOCs; 1,1-dichloroethene [1,1-DCE] only).

Dissolved metals were analyzed by US Environmental Protection Agency (EPA) Method 6020, SVOCs (BEHP) by EPA Method 8270D, VOCs (1,1-DCE only) by EPA Method 8260, and TPH-D and TPH-O by Method NWTPH-Dx both with and without the acid/silica gel cleanup (SGC) preparation method. Use of the SGC preparation method is consistent with analytical procedures used during the remedial investigation.

As indicated above, TPH-D and TPH-O were analyzed at P-10R in June 2022, the quarter immediately following well installation. This analysis was not required by the CMP but was conservatively added based on the observation of sheen and odor during well installation. Based on the lack of TPH detected in the sample (discussed below), TPH analysis at P-10R did not continue after this one monitoring event.

A summary of groundwater sample chemical analyses, analytical methods, cleanup levels (CULs), and analytical results are presented in Table 2.

2.3 Quality Assurance/Quality Control

In accordance with the CMP, field, and laboratory quality control samples were used to evaluate data precision, accuracy, representativeness, completeness, and comparability of the analytical results. The quality control samples included analysis of laboratory control samples, method blanks, and trip blanks, and collection and analysis of one field duplicate for each analysis performed.

Validation of the analytical data was performed by Landau following the guidelines in applicable sections of the EPA Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review (EPA 2020a, b).

Based on the validation, all the data were determined to be acceptable for use. No qualification of the data was necessary, except for one dissolved arsenic result and one TPH-D/O result, which were marked as estimated values due to high relative percent difference (RPD) between the parent and duplicate samples.

3.0 RESULTS

This section presents the results of the quarterly groundwater monitoring events conducted from June 2022 through March 2023, consisting of groundwater quality and elevation data.

3.1 Groundwater Elevations and Flow Direction

Groundwater contour maps were based on depth to water measurements taken in December 2022 (Figure 3) and March 2023 (Figure 4). As shown on these figures, groundwater flows generally to the west toward the three shoreline wells (RI-MW-1, RI-MW-2, and RI-MW-3). This flow direction is consistent with flow direction data from previous investigation at the Site.

3.2 Analytical Results

The Site CULs and laboratory data from all four quarters are presented in Table 2, the laboratory analytical reports are included in Appendix B, and are summarized as follows:

- Dissolved arsenic results indicated concentrations less than the laboratory reporting limit (RL) or the CUL at interior wells P-10R and RI-MW-6, and at shoreline wells RI-MW-1, RI-MW-2, and RI-MW-3 during the four quarters of monitoring. Results indicated dissolved arsenic exceedances of the Site CUL at interior wells ECI-MW-3 and SEE-EC-3 during compliance monitoring events.
 - At ECI-MW-3 concentrations of dissolved arsenic range between 16 micrograms per liter (μg/L) and 96 μg/L. Previous data at this well collected during the remedial investigation (RI; Landau 2014) ranged from 18.2 μg/L to 65.8 μg/L. The concentration at ECI-MW-3 in March 2023 was slightly lower (16 μg/L) than the previous three quarters, but still greater than the CUL.
 - At SEE-EC-3, the dissolved arsenic concentration was lower and below the CUL in the March 2023 monitoring event (4.0 μg/L), but concentrations in the previous quarters ranged from 17 μg/L to 80 μg/L. For comparison, these concentrations were generally less than dissolved arsenic concentrations detected during the RI, which ranged between 34.6 μg/L and 256 μg/L.
- Dissolved copper was not detected at concentrations greater than the laboratory RL and/or the CUL at P-10R or RI-MW-2 during any quarterly events, or at RI-MW-1 and RI-MW-3 during the June 2022 or September 2022 events. Dissolved copper was detected at concentrations slightly greater than the CUL at RI-MW-1 and RI-MW-3 during the December 2022 and March 2023 monitoring events.
 - At P-10R, the dissolved copper was only detected at a concentration greater than the laboratory RL during the March 2023 monitoring event (2.1 μ g/L); this concentration was less than the CUL.
 - At RI-MW-1, dissolved copper was detected at concentrations slightly greater than the CUL of 3 μg/L in December of 2022 (4.0 μg/L) and in March 2023 (3.2 μg/L). Results during the two previous monitoring events indicated dissolved copper concentration less than the laboratory RL (and CUL).
 - At RI-MW-2, dissolved copper results were less than the RL or the CUL during all four quarters.

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- At RI-MW-3, results were less than the RL or the CUL in all samples except the field duplicate sample in December 2022 (3.2 μg/L; the parent sample concentration was 2.4 μg/L) and the parent sample in March 2023 (3.6 μg/L; the duplicate sample concentration was less than the RL.
- TPH-D and TPH-O concentrations were consistently less than the RLs and/or CULs.
 - At P-10R, TPH-D and TPH-O were analyzed in June 2022 only (immediately following installation of P-10R), and concentrations were less than the RL for both analytes, both with and without SGC.
 - At RI-MW-4, TPH-D and TPH-O concentrations were all less than the RL for all samples except one detection of TPH-D without SGC of 160 μg/L, which is well below the CUL.
 - At RI-MW6, TPH-D concentrations without SGC are consistently just below the CUL of 500 μg/L (ranging from 300 μg/L to 480 μg/L). With SGC, concentrations are below the RL or detected at concentrations just above the RL. TPH-O was detected at a concentration greater than the RL in only three samples; all results were less than the CUL.
- SVOCs (1,1 DCE) and VOCs (BEHP) were not detected at concentrations greater than the RL during any monitoring event.

4.0 CONCLUSIONS

Groundwater compliance monitoring was conducted quarterly from June 2022 through March 2023 in accordance with the CMP. Results of the four quarters of groundwater monitoring indicate the following:

- Groundwater flow direction at the Site is generally to the west toward the three shoreline monitoring wells RI-MW-1, RI-MW-2, and RI-MW-3. These wells are interpreted to be downgradient wells, and groundwater at these wells is representative of groundwater discharging from the Site to surface water.
- TPH-D, TPH-O, SVOCs (1,1-DCE), and VOCs (BEHP) were not detected at concentrations greater than their CULs in any well.
- Dissolved arsenic concentrations were less than CULs at all wells during all four quarters, except at ECI-MW-3 and SEE-EC-3.
- Dissolved copper concentrations were less than CULs at all wells during all four quarters except at RI-MW-1 and RI-MW-3. These detections were generally just slightly greater than the CUL (detections of 4.0 µg/L or less as compared to a CUL of 3.0 µg/L).

Overall, groundwater cleanup standards for the Site are being achieved except for four exceedances of the dissolved arsenic and dissolved copper CULs at RI-MW-1, RI-MW-3, ECI-MW-3, and SEE-EC-3. Two of these wells (ECI-MW-3 and SEE-EC-3) are interior wells with exceedance of dissolved arsenic; dissolved arsenic concentrations at shoreline wells indicate compliance with cleanup standards at the point of discharge.

Based on the results summarized above, the Port recommends continued quarterly groundwater compliance monitoring at the Site beginning with the June 2023 event. The scope of continued monitoring will be modified from the original scope presented in the CMP and will include analysis of dissolved copper at shoreline wells RI-MW-1 and RI-MW-3 to further evaluate compliance at these wells where groundwater discharges to surface water from the Site. The Port also conservatively recommends continued analysis of dissolved arsenic at ECI-MW-3 and SEE-EC-3 to collect additional data from these interior locations.

5.0 USE OF THIS REPORT

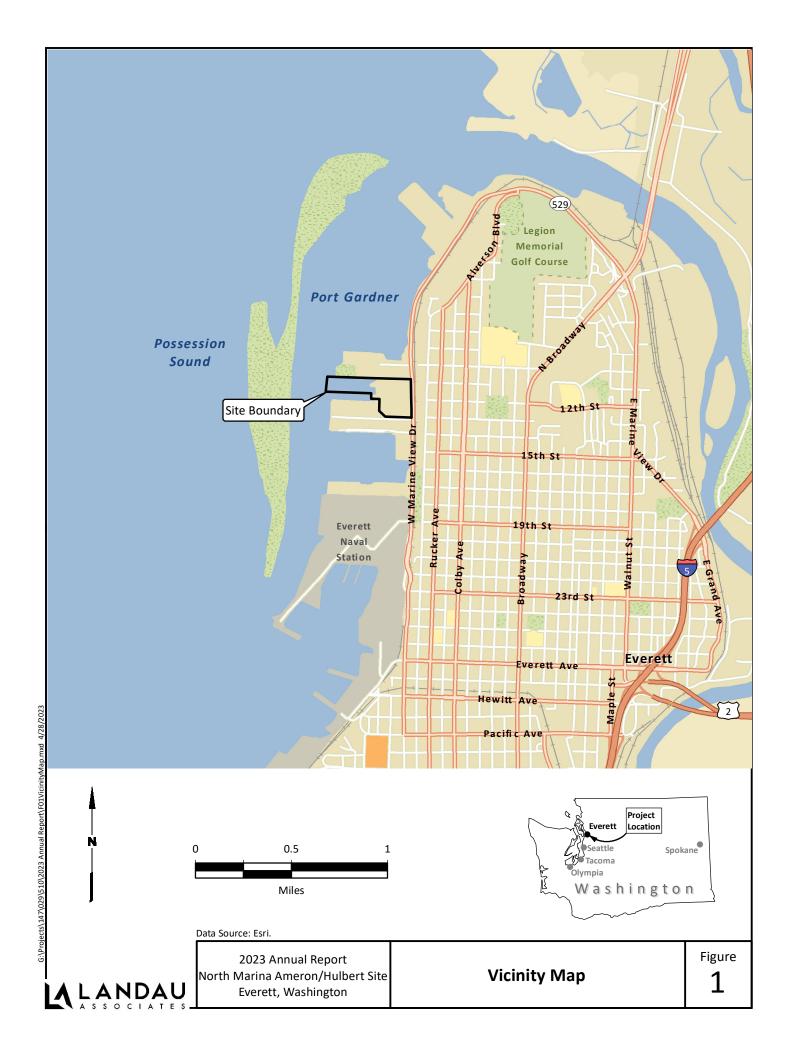
This report has been prepared for the exclusive use of the Port for specific application to the North Marina Ameron/Hulbert Site. No other party is entitled to rely on the information, conclusions, and recommendations included in this document without the express written consent of Landau. Further, the reuse of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and authorization by Landau, shall be at the user's sole risk. Landau warrants that within the limitations of scope, schedule, and budget, our services have been provided in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as this project. We make no other warranty, either express or implied.

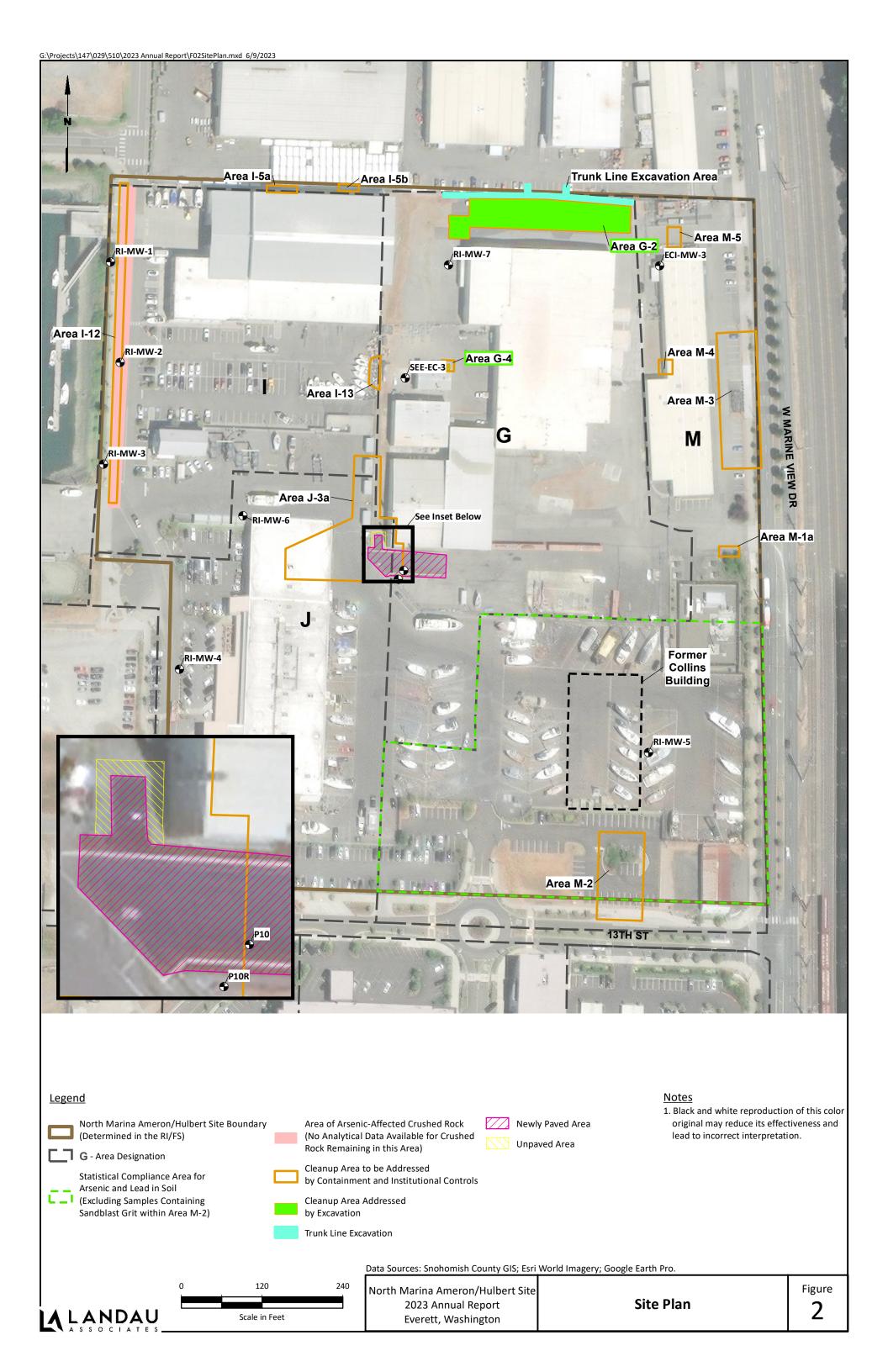
6.0 REFERENCES

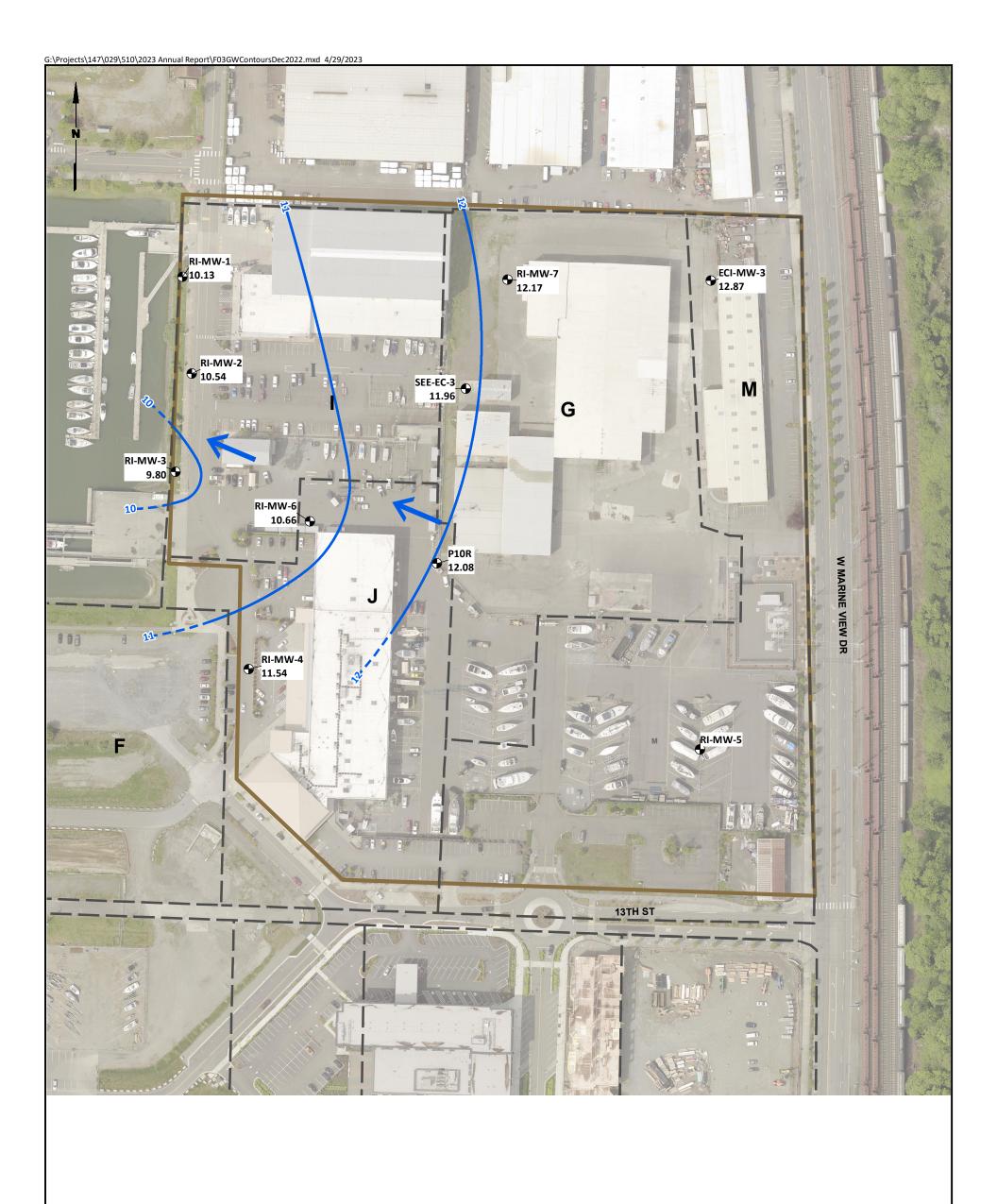
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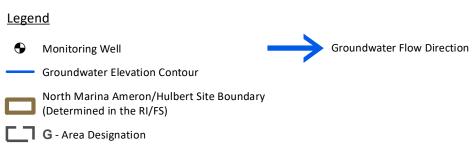
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<u>Notes</u>

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

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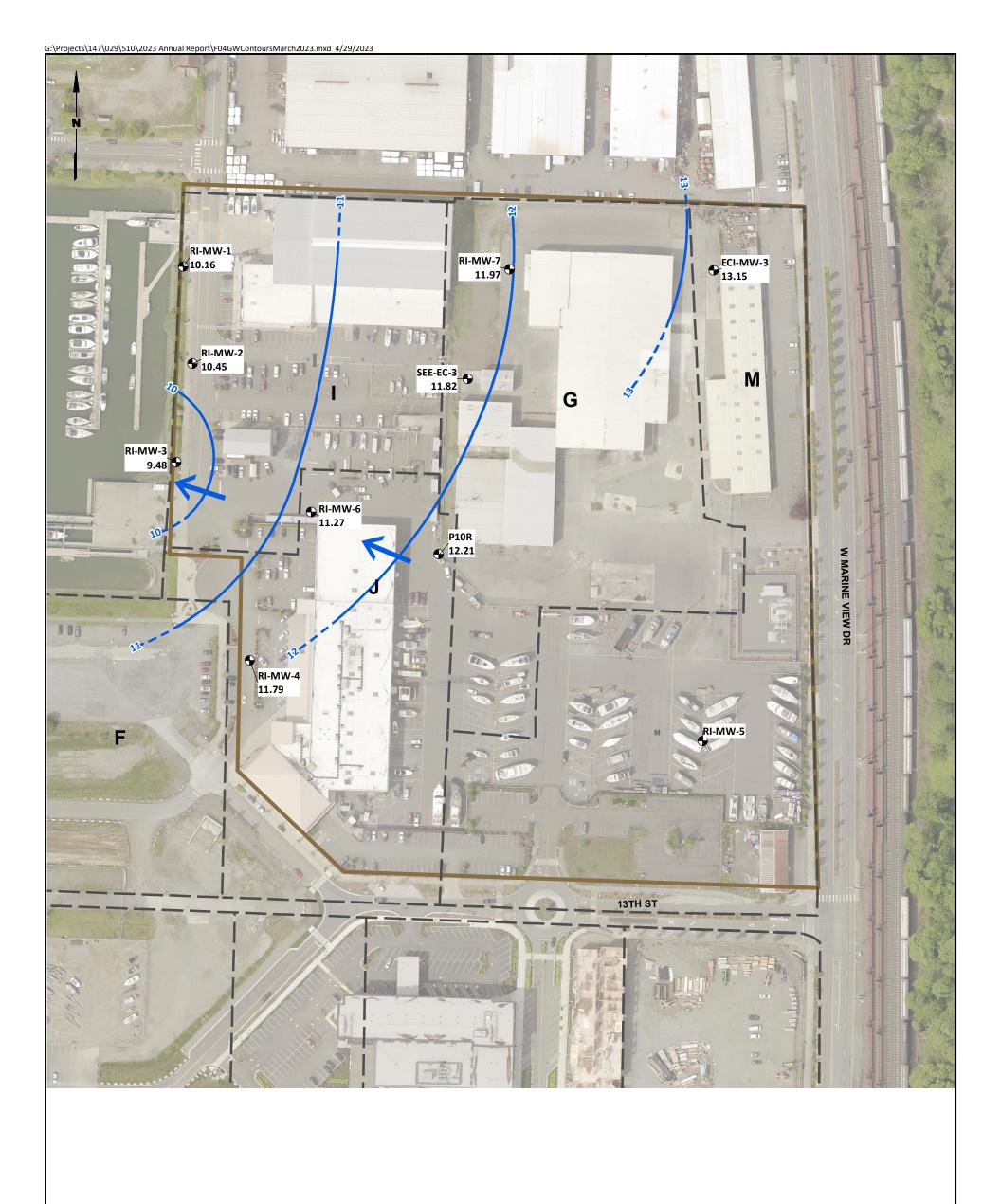
LANDAU Scale in Feet

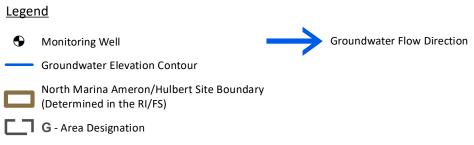
Data Source: Snohomish County GIS.

North Marina Ameron/Hulbert Site 2023 Annual Report Everett, Washington

Groundwater Elevation Contours December 2022

Figure 3





<u>Notes</u>

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LANDAU Scale in Feet

Data Source: Snohomish County GIS.

North Marina Ameron/Hulbert Site 2023 Annual Report Everett, Washington

Groundwater Elevation Contours March 2023

Figure **4**

Table 1
Groundwater Elevations
North Marina Ameron/Hulbert Site
Everett, Washington

Monitoring Well	Sample Date	TOC Elevation (ft)*	Depth to Groundwater (ft from TOC)*	Groundwater Elevation (ft)*	Tide Elevation at Time of Measurement (ft)	Sample Date	Depth to Groundwater (ft from TOC)*	Groundwater Elevation (ft)*	Tide Elevation at Time of Measurement (ft)
RI-MW-1	12/9/2022	17.23	7.1	10.13	~ 8.5	3/9/2023	7.07	10.16	~ 9.8
KI-IVIVV-1	12/9/2022	17.25	7.1	10.15	0.5	3/9/2023	7.07	10.16	9.0
RI-MW-2	12/9/2022	17.66	7.12	10.54	~ 8.5	3/9/2023	7.21	10.45	~ 9.8
RI-MW-3	12/9/2022	18.07	8.27	9.8	~ 8.5	3/9/2023	8.67	9.4	~ 9.8
RI-MW-4	12/9/2022	18.1	6.56	11.54	~ 8.5	3/9/2023	6.31	11.79	~ 9.8
RI-MW-6	12/9/2022	17.42	6.76	10.66	~ 8.5	3/9/2023	6.15	11.27	~ 9.8
RI-MW-7	12/9/2022	15.05	2.88	12.17	~ 8.5	3/9/2023	3.08	11.97	~ 9.8
ECI-MW-3	12/9/2022	15.07	2.2	12.87	~ 8.5	3/9/2023	1.92	13.15	~ 9.8
P10R	12/9/2022	16.41	4.33	12.08	~ 8.5	3/9/2023	4.2	12.21	~ 9.8
SEE-EC-3	12/9/2022	16.48	4.52	11.96	~ 8.5	3/9/2023	4.66	11.82	~ 9.8

Notes:

Abbreviations and Acronyms:

* Elevations are in mean lower low water.

ft = feet

Tide elevation from NOAA.

TOC = top of casing (2-inch diameter polyvinyl chloride well casing)

Table 2
Groundwater Analytical Results
North Marina Ameron/Hulbert Site
Everett, Washington

				Analytical Method, Unit of Measurement, Analyte, Site-Specific Cleanup Level (a)					
				EPA 200.8	(μg/L)	NWTPH-Dx/-DXSG (μg/L)		SW-846 8260D (μg/L)	SW-846 8270E (μg/L)
				Dissolved Arsenic	Dissolved Copper	Diesel Range Organics (b)	Oil Range Organics (b)	1,1-Dichloroethene	bis(2-Ethylhexyl) Phthalate
Sample Location	Sample Date	Laboratory SDG	Sample Type	5	3	500	500	3.2	2.2
ECI-MW-3	6/23/2022	EV22060151	N	65				2.0 U	
ECI-MW-3	6/23/2022	EV22060151	FD	64				2.0 U	
ECI-MW-3	9/19/2022	EV22090083	N	96				2.0 U	
ECI-MW-3	9/19/2022	EV22090083	FD					2.0 U	
ECI-MW-3	12/8/2022	EV22120069	N	60				2.0 U	
ECI-MW-3	12/8/2022	EV22120069	FD					2.0 U	
ECI-MW-3	3/9/2023	EV23030073	N	16				2.0 U	
ECI-MW-3	3/9/2023	EV23030073	FD					2.0 U	
P-10R-2	6/23/2022	EV22060151	N	1.6	2.0 U	130 UJ/130 UJ	250 UJ/250 UJ		
P-10R-2	9/20/2022	EV22090083	N	1.9	2.0 U				
P-10R-2	12/8/2022	EV22120069	N	1.1	2.0 U				
P-10R-2	3/9/2023	EV23030073	N	1.0 U	2.1				
RI-MW1	6/23/2022	EV22060151	N	1.0 U	2.0 U				
RI-MW1	9/19/2022	EV22090083	N	1.0 U	2.0 U				
RI-MW1	12/9/2022	EV22120069	N	1.0 U	4.0				
RI-MW1	3/9/2023	EV23030073	N	1.0 U	3.2				
RI-MW2	6/23/2022	EV22060151	N	1.0 U	2.3				
RI-MW2	9/19/2022	EV22090083	N	1.0 U	2.0 U				
RI-MW2	12/8/2022	EV22120069	N	1.0 U	2.3				
RI-MW2	3/9/2023	EV23030073	N	1.0 U	2.0 U				

Table 2
Groundwater Analytical Results
North Marina Ameron/Hulbert Site
Everett, Washington

				Analytical Method, Unit of Measurement, Analyte, Site-Specific Cleanup Level (a)							
				EPA 200.8	(μg/L)	NWTPH-Dx/-DXSG (μg/L)		SW-846 8260D (μg/L)	SW-846 8270E (μg/L)		
				Dissolved Arsenic	Dissolved Copper	Diesel Range Organics (b)	Oil Range Organics (b)	1,1-Dichloroethene	bis(2-Ethylhexyl) Phthalate		
Sample Location	Sample Date	Laboratory SDG	Sample Type	5	3	500	500	3.2	2.2		
RI-MW3	6/24/2022	EV22060161	N	1.0 U	2.0 U				2.0 U		
RI-MW3	9/19/2022	EV22090083	N	1.0 UJ	2.0 U				2.0 U		
RI-MW3	9/19/2022	EV22090083	FD	4.7 J	2.0 U						
RI-MW3	12/8/2022	EV22120069	N	1.0 U	2.4				2.0 U		
RI-MW3	12/8/2022	EV22120069	FD	1.0	3.2				2.0 U		
RI-MW3	3/10/2023	EV23030073	N	1.0 U	3.6				2.0 U		
RI-MW3	3/10/2023	EV23030073	FD	1.0 U	2.0 U				2.0 U		
RI-MW4	6/24/2022	EV22060161	N			130 U/130 U	250 U/250 U				
RI-MW4	9/19/2022	EV22090083	N			130 U/130 U	250 U/ 250 U				
RI-MW4	12/8/2022	EV22120069	N			160 /130 U	250 U/250 U				
RI-MW4	3/9/2023	EV23030073	N			130 U/130 U	250 U/250 U				
RI-MW-6	6/24/2022	EV22060161	N	2.6		300 /130 U	250 U/250 U				
RI-MW-6	6/24/2022	EV22060161	FD	3.3		340 /130 U	250 U/250 U				
RI-MW-6	9/20/2022	EV22090083	N	4.6		430/150	250 U/ 250 U				
RI-MW-6	9/20/2022	EV22090083	FD			420/140	250 J / 250 U				
RI-MW-6	12/9/2022	EV22120069	N	3.5		480/170	320 /250 U				
RI-MW-6	12/9/2022	EV22120069	FD			440/140	300 /250 U				
RI-MW-6	3/9/2023	EV23030073	N	2.5		300/130 U	250 U/250 U				
RI-MW-6	3/9/2023	EV23030073	FD			330/130 U	250 U/250 U				
RI-MW-7	6/23/2022	EV22060151	N						2.0 U		
RI-MW-7	6/23/2022	EV22060151	FD						2.0 U		
RI-MW-7	9/19/2022	EV22090083	N						2.0 U		
RI-MW-7	9/19/2022	EV22090083	FD						2.0 U		
RI-MW-7	12/8/2022	EV22120069	N						2.0 U		
RI-MW-7	3/9/2023	EV23030073	N						2.0 UJ		

Table 2

Groundwater Analytical Results North Marina Ameron/Hulbert Site Everett, Washington

				Analytical Method, Unit of Measurement, Analyte, Site-Specific Cleanup Level (a)						
				EPA 200.8 (μg/L)		NWTPH-Dx/-	-DXSG (μg/L)	SW-846 8260D (µg/L)	SW-846 8270E (μg/L)	
					Dissolved	Diesel Range	Oil Range		bis(2-Ethylhexyl)	
				Dissolved Arsenic	Copper	Organics (b)	Organics (b)	1,1-Dichloroethene	Phthalate	
Sample Location	Sample Date	Laboratory SDG	Sample Type	5	3	500	500	3.2	2.2	
SEE-EC-3	6/23/2022	EV22060151	N	63						
SEE-EC-3	9/19/2022	EV22090083	N	80					-	
SEE-EC-3	12/8/2022	EV22120069	N	17						
SEE-EC-3	3/9/2023	EV23030073	N	4.0					-	

Notes:

(a) Cleanup levels from Final Compliance Monitoring Plan, North Marina Ameron/Hulbert Site, Everett, Washington (Landau. 2021. Final Compliance Monitoring Plan, North Marina Ameron/Hulbert Site, Everett, Washington. Landau Associates, Inc. January 20.).

(b) Results reported without and with silica gel cleanup, respectively.

Bold text indicates detected analyte

Green shading indicates detected analyte exceeds applicable cleanup level

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Abbreviations and Acronyms:

-- = not analyzed μg/L = micrograms per liter

μg/L = micrograms per liter

EPA = US Environmental Protection Agency

FD = field duplicate

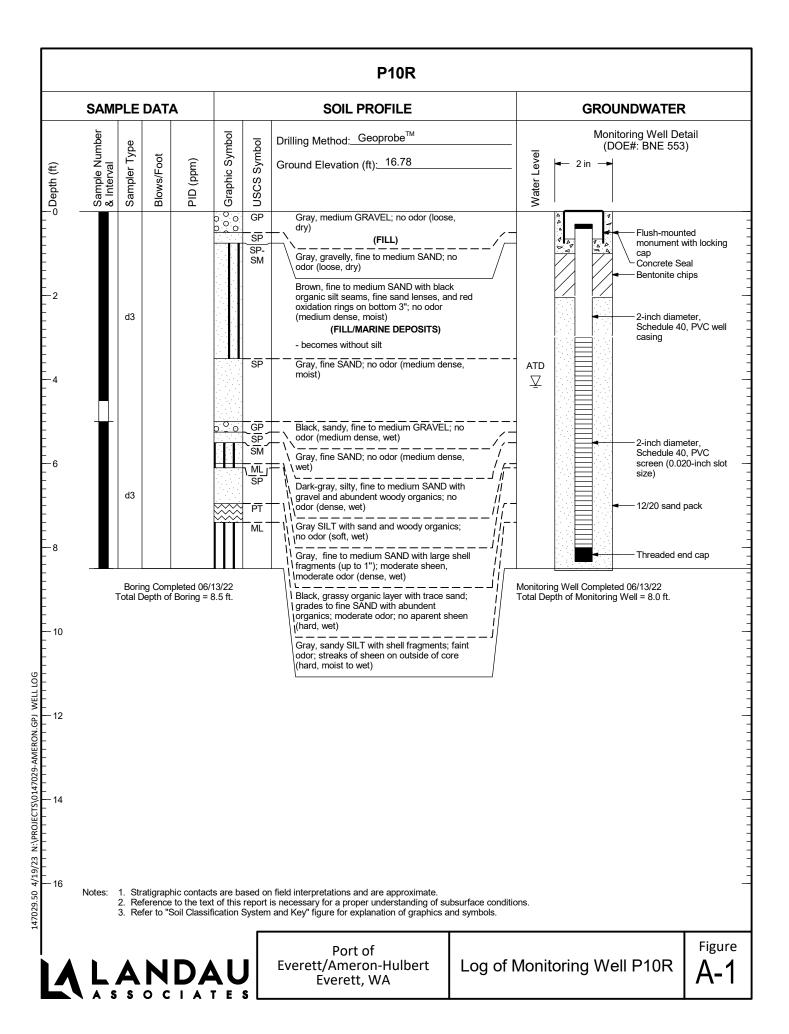
N = primary sample

NWTPH = Northwest Total Petroleum Hydrocarbon

SDG = sample delivery group

Monitoring Well Decommissioning Report/ Reinstallation Logs

RESOURCE PROTECTION WELL RESOURCE PROTECTION WELL RESOURCE (SUBMIT ONE WELL REPORT PER WELL INSTALLED)	PORT CURRENT Notice of Intent No. AF79746
Construction/Decommission	Type of Well
Construction	X Resource Protection
X Decommission ORIGINAL INSTALLATION Notice	Geotechnical Soil Boring
of Intent Number <u>P</u> 1 ₆ 5419	Property Owner PORT OF EVERBIT
	Site Address 410 14th Street
Consulting Firm <u>landau</u>	City Guenett County Snohowish
Unique Ecology Well ID	EWM
Tag No. Atl N 538	TE IN PILA OF OR
WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for	Lat/Long (s,t,r Lat Deg <u>n/a</u> Lat Min/Sec <u>n/a</u>
construction of this well, and its compliance with all Washington well construction standards	still Required) Long Deg n/a Long Min/Sec n/a
Materials used and the information reported above are true to my best knowledge and belief	Tax Parcel No.
Driller Trainee Name (Print) Jendenson, Cody	
Driller/Trainee Signature Driller/Trainee License No.	Cased or Uncased Diameter 2.75 Static Level 4
State France Process No.	Work/Decommision Start Date 2/11/2004
If trainee, licensed drillers'	Work/Decommision Start Date 2/11/2004 Work/Decommision Completed Date 5/6/2022
Signature and License No.	Work/Decommission Completed Date 5/6/2022
Construction/Design We	Il Data Formation Description
	FACE SEAL - FT FT 10C-8' FT - FT 3/8" MEDIUM BOUGHUR COUPS REQUIRED INFORMATION (Must get one or both if available) GY WELL TAG#: AHN 538
CLIENT WELL II DEPTH OF BORING	
Scale 1" =	Page of ECY 050-12 (Rec=v 2/01)



Laboratory Data Reports



July 14, 2022

Mr. Dylan Frazer Landau Associates, Inc. 155 NE 100th St, Ste 302 Seattle, WA 98125

Dear Mr. Frazer,

On June 23rd, 9 samples were received by our laboratory and assigned our laboratory project number EV22060151. The project was identified as your Ameron / 147029.510. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Glen Perry

Iller Perry

Laboratory Director



CLIENT: Landau Associates, Inc.

DATE: 7/14/2022 155 NE 100th St, Ste 302 ALS JOB#: EV22060151 Seattle, WA 98125

ALS SAMPLE#: EV22060151-01 DATE RECEIVED:

CLIENT CONTACT: Dylan Frazer 06/23/2022 **CLIENT PROJECT:** Ameron / 147029.510 **COLLECTION DATE:** 6/23/2022 7:30:00 AM

CLIENT SAMPLE ID R1-MW-2-220623 WDOE ACCREDITATION: C601

			REPORTING	DILUTION		ANALYSIS A	ANALYSIS	
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY	
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2022	RAL	
Copper (Dissolved)	EPA-200.8	2.3	2.0	1	UG/L	06/27/2022	RAL	

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 7/14/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22060151 Seattle, WA 98125 ALS SAMPLE#: EV22060151-02

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 06/23/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 6/23/2022 8:35:00 AM

CLIENT SAMPLE ID R1-MW-1-220623 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2022	RAL
Copper (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2022	RAL

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 7/14/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22060151 Seattle, WA 98125 ALS SAMPLE#: EV22060151-03

Dylan Frazer DATE RECEIVED: 06/23/2022

CLIENT CONTACT: CLIENT PROJECT: Ameron / 147029.510 **COLLECTION DATE:** 6/23/2022 10:10:00 AM

CLIENT SAMPLE ID P-10R-2-220623 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

			DEDODENIA	DULITION		41141 7/010		
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A DATE	ANALYSIS BY	
TPH-Diesel Range (C12-C24)	NWTPH-DX	U, H	130	1	UG/L	07/12/2022	JNF	
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U, H	130	1	UG/L	07/13/2022	JNF	
TPH-Oil Range (C24-C40)	NWTPH-DX	U, H	250	1	UG/L	07/12/2022	JNF	
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U, H	250	1	UG/L	07/13/2022	JNF	
Arsenic (Dissolved)	EPA-200.8	1.6	1.0	1	UG/L	06/27/2022	RAL	
Copper (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2022	RAL	

			ANALYSIS	ANALYSIS ANALYSIS		
SURROGATE	METHOD	%REC	DATE	BY		
C25	NWTPH-DX	76.5	07/12/2022	JNF		
C25	NWTPH-DX w/ SGA	88.1	07/13/2022	JNF		

U - Analyte analyzed for but not detected at level above reporting limit.

Environmental 🚂

H - Sample analyzed outside of hold time.



CLIENT: Landau Associates, Inc.

155 NE 100th St, Ste 302 ALS JOB#: EV22060151 Seattle, WA 98125 ALS SAMPLE#: EV22060151-04

DATE:

7/14/2022

Dylan Frazer DATE RECEIVED: 06/23/2022

CLIENT CONTACT: CLIENT PROJECT: Ameron / 147029.510 **COLLECTION DATE:** 6/23/2022 11:50:00 AM

CLIENT SAMPLE ID SEE-EC-3-220623 WDOE ACCREDITATION: C601

			REPORTING	DILUTION		ANALYSIS A	ANALYSIS
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY
Arsenic (Dissolved)	EPA-200.8	63	1.0	1	UG/L	06/27/2022	RAL



CLIENT: Landau Associates, Inc. DATE: 7/14/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22060151 Seattle, WA 98125 ALS SAMPLE#: EV22060151-05

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 06/23/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 6/23/2022 1:05:00 PM

CLIENT SAMPLE ID R1-MW-7-220623 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	07/01/2022	JMK
						ANALYSIS	ANALYSIS
SURROGATE	METHOD	%REC				DATE	BY
Terphenyl-d14	EPA-8270	95.3				07/01/2022	JMK

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 7/14/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22060151 Seattle, WA 98125 ALS SAMPLE#: EV22060151-06

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 06/23/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 6/23/2022 12:30:00 PM

CLIENT SAMPLE ID DUP -220623 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	07/01/2022	JMK
						ANALYSIS	ANALYSIS
SURROGATE	METHOD	%REC				DATE	BY
Terphenyl-d14	EPA-8270	95.4				07/01/2022	JMK

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT CONTACT:

CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/14/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22060151 Seattle, WA 98125 ALS SAMPLE#: EV22060151-07

Dylan Frazer DATE RECEIVED: 06/23/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 6/23/2022 2:50:00 PM

CLIENT SAMPLE ID ECI-MW-3-220623 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/06/2022	DLC
Arsenic (Dissolved)	EPA-200.8	65	1.0	1	UG/L	06/27/2022	RAL
SURROGATE	METHOD	%REC				ANALYSIS A	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	98.4				07/06/2022	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 7/14/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22060151 Seattle, WA 98125 ALS SAMPLE#: EV22060151-08

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 06/23/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 6/23/2022 4:00:00 PM

CLIENT SAMPLE ID DUP3-220623 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/06/2022	DLC
Arsenic (Dissolved)	EPA-200.8	64	1.0	1	UG/L	06/27/2022	RAL
SURROGATE	METHOD	%REC				ANALYSIS A	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	99.2				07/06/2022	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE:

7/14/2022 155 NE 100th St, Ste 302 ALS JOB#: EV22060151

ALS SAMPLE#:

EV22060151-09

Seattle, WA 98125

CLIENT CONTACT: Dylan Frazer

DATE RECEIVED: 06/23/2022 **CLIENT PROJECT:** Ameron / 147029.510 **COLLECTION DATE:** 6/23/2022

CLIENT SAMPLE ID Tripblanks WDOE ACCREDITATION: C601

ANALYTE 1,1-Dichloroethene	METHOD EPA-8260	RESULTS U	REPORTING LIMITS 2.0	DILUTION FACTOR	UNITS UG/L	ANALYSIS A DATE 07/06/2022	ANALYSIS BY DLC
SURROGATE	METHOD	%REC				ANALYSIS A	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	99.4				07/06/2022	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc.

155 NE 100th St. Ste 302

Seattle, WA 98125

WDOE ACCREDITATION: C601

DATE:

ALS SDG#:

7/14/2022

EV22060151

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510

LABORATORY BLANK RESULTS

MB-070822W - Batch 181166 - Water by NWTPH-DX

				REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY
TPH-Diesel Range (C12-C24)	NWTPH-DX	U	UG/L	130	07/12/2022	JNF
TPH-Oil Range (C24-C40)	NWTPH-DX	U	UG/L	250	07/12/2022	JNF

U - Analyte analyzed for but not detected at level above reporting limit.

MB-070522W - Batch 180861 - Water by EPA-8260

				REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY	
1,1-Dichloroethene	EPA-8260	U	UG/L	2.0	07/05/2022	DLC	

U - Analyte analyzed for but not detected at level above reporting limit.

MB-063022W - Batch 180753 - Water by EPA-8270

				REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	UG/L	3.2	07/01/2022	JMK

U - Analyte analyzed for but not detected at level above reporting limit.

MB-062422W - Batch 180484 - Water by EPA-200.8

				REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY
Arsenic (Dissolved)	EPA-200.8	U	UG/L	1.0	06/27/2022	RAL
Copper (Dissolved)	EPA-200.8	U	UG/L	2.0	06/27/2022	RAL

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc.

155 NE 100th St, Ste 302

Seattle, WA 98125

ALS SDG#:

DATE:

7/14/2022 EV22060151

WDOE ACCREDITATION: C601

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 181166 - Water by NWTPH-DX

				LIN	IIIS	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
TPH-Diesel Range (C12-C24) - BS	NWTPH-DX	85.1		67	125.2	07/12/2022	JNF
TPH-Diesel Range (C12-C24) - BSD	NWTPH-DX	84.2	1	67	125.2	07/12/2022	JNF

ALS Test Batch ID: 180861 - Water by EPA-8260

			LIM	ITS	ANALYSIS	ANALYSIS BY	
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
1,1-Dichloroethene - BS	EPA-8260	121		72.5	136	07/05/2022	DLC
1,1-Dichloroethene - BSD	EPA-8260	114	6	72.5	136	07/05/2022	DLC

ALS Test Batch ID: 180753 - Water by EPA-8270

				LIM	ITS	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
Bis(2-Ethylhexyl)Phthalate - BS	EPA-8270	104		20	150	06/30/2022	JMK
Bis(2-Ethylhexyl)Phthalate - BSD	EPA-8270	108	4	20	150	07/01/2022	JMK

ALS Test Batch ID: 180484 - Water by EPA-200.8

				LIN	IITS	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
Arsenic (Dissolved) - BS	EPA-200.8	98.6		89.1	110	06/27/2022	RAL
Arsenic (Dissolved) - BSD	EPA-200.8	99.7	1	89.1	110	06/27/2022	RAL
Copper (Dissolved) - BS	EPA-200.8	101		85.4	109	06/27/2022	RAL
Copper (Dissolved) - BSD	EPA-200.8	103	1	85.4	109	06/27/2022	RAL

APPROVED BY

Laboratory Director

F12206015

ころろう	77	of Accelerated Accelerated			Special Handling Requirements:	Shipment Method: O (O p G P	Stored on ice: (Yes)/ No		COSSET VALIDATES COLUMNICATION	— Allow water samples to settle, collect	aliquot from clear portion	NWTPH-Dx - Acid wash cleanup [- Silica gel cleanup	X Dissolved metal samples were field filtered		377 BY 6 7171		SON YOU AND LOCK	44	Changes in red	by DSB 6/24/22	* bis ethylhexyl phthalate	(BEHP) ONLY				Received by	Signature	Printed Name
	Date <u>6/25</u>	Page	Testing Parameters																										
	Spokane (509) 327-9737	Portland (503) 542-1080	Test					155 15 15 15 15 15 15 15 15 15 15 15 15	<u> </u>	>	XXX				XXX	>< >< >< ******************************	<u>×</u>										Refinquished by	Signature	Printed Name
	North Seattle (206) 631-8660	☐ Tacoma (253) 926-2493 ☐ Olympia (360) 791-3178	147029.510		-		and Elise Grand Sty 9	11/1/1			\$ 2 \delta \delt)	× 0+	\ \ \	-T	するさ	AQ 2		٠						11/2 2/16	DMF 4/0/22	5	<u> </u> →\	Obandon Hu
		Record	Project No	Project Location/EventiVintity Moising Amous (Halbort GN 62-711 12 2022			Syranson No.	opto O	67272	6/2/2	0/2/2/2	23 6/21/2/15/6	6/25/22/12	6/22/21	62112	12/5/3	- We law									1/M X/	Received by		Printed Name
			Project Name AMENDY	Project Location/Event Nink X	Sampler's Name Kalvava	Project Contact Dylky Frazev	Send Results To Day King Fro		01-WW-7-120623	1	7-100-120623	SFF- EC-3-20023		1 had - 226623	11W - 3	773067 - 700A	, march									&) Uylan addood	Relinquished by	Signature T	Printed Name - SQIIPQNQ_1

PINK COPY - Client Representative

YELLOW COPY - Project File

Company. Date

16.35

Date (23/227 Time

Company

23

Time .

Company Landau Date 6/25/22 WHITE COPY - Laboratory

Printed Name Company Date 10/2018

ALS ENVIRONMENTAL Sample Receiving Checklist

Client: Landau	ALS Job #: 5 220 60151
Project: Ameron	
Received Date: 6/23/2022 Received Time: 16	040 By: <u>δMH</u>
Type of shipping container: Cooler Box	Other
Shipped via: FedEx Ground UPS Mail FedEx Express	Courier Hand Delivered
Were custody seals on outside of shipping container? If yes, how many? Where? Custody seal date: Seal name:	
Was Chain of Custody properly filled out (ink, signed, dated,	etc.)?
Did all bottles have labels?	<u> </u>
Did all bottle labels and tags agree with Chain of Custody?	<u>×</u>
Were samples received within hold time?	<u>×</u>
Did all bottles arrive in good condition (unbroken, etc.)?	<u> </u>
Was sufficient amount of sample sent for the tests indicated?	X
Was correct preservation added to samples?	<u> </u>
If no, Sample Control added preservative to the following: Sample Number Reagent Analyte ———————————————————————————————————	(Field-filtered waters preserved with 03 whom sample feceipt)—8mm
Were VOA vials checked for absence of air bubbles? Bubbles present in sample #:	
Temperature of cooler upon receipt: 4.6°C on ice	Cold Cool Ambient N/A
Was client contacted? Who was called?	



July 1, 2022

Mr. Dylan Frazer Landau Associates, Inc. 155 NE 100th St, Ste 302 Seattle, WA 98125

Dear Mr. Frazer,

On June 24th, 4 samples were received by our laboratory and assigned our laboratory project number EV22060161. The project was identified as your Ameron / 147029.510. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Glen Perry

Iller Perry

Laboratory Director



CLIENT CONTACT:

CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/1/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22060161 Seattle, WA 98125 ALS SAMPLE#: EV22060161-01

Dylan Frazer DATE RECEIVED: 06/24/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 6/24/2022 8:40:00 AM

CLIENT SAMPLE ID R1-MW-3-220624 WDOE ACCREDITATION: C601

		O/ WIT EL	DITTITUTE				
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS By
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	07/01/2022	JMK
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2022	EBS
Copper (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2022	EBS
						ANALYSIS A	
SURROGATE	METHOD	%REC				DATE	BY
Terphenyl-d14	EPA-8270	113				07/01/2022	JMK

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 7/1/2022

> 155 NE 100th St, Ste 302 ALS JOB#: EV22060161 Seattle, WA 98125 ALS SAMPLE#: EV22060161-02

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 06/24/2022

CLIENT PROJECT: Ameron / 147029.510 **COLLECTION DATE:** 6/24/2022 10:40:00 AM

R1-MW-4-220624 WDOE ACCREDITATION: **CLIENT SAMPLE ID** C601

			REPORTING	DILUTION		ANALYSIS ANALYSIS			
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY		
TPH-Diesel Range (C12-C24)	NWTPH-DX	U	130	1	UG/L	06/30/2022	JNF		
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	130	1	UG/L	06/30/2022	JNF		
TPH-Oil Range (C24-C40)	NWTPH-DX	U	250	1	UG/L	06/30/2022	JNF		
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	250	1	UG/L	06/30/2022	JNF		

			ANAL 1515 AN	ANALTSIS ANALTSIS		
SURROGATE	METHOD	%REC	DATE	BY		
C25	NWTPH-DX	77.6	06/30/2022	JNF		
C25	NWTPH-DX w/ SGA	80.8	06/30/2022	JNF		

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 7/1/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22060161 Seattle, WA 98125 ALS SAMPLE#: EV22060161-03

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 06/24/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 6/24/2022 12:40:00 PM

CLIENT SAMPLE ID R1-MW-6-220624 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
TPH-Diesel Range (C12-C24)	NWTPH-DX	300	130	1	UG/L	06/30/2022	JNF
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	130	1	UG/L	06/30/2022	JNF
TPH-Oil Range (C24-C40)	NWTPH-DX	U	250	1	UG/L	06/30/2022	JNF
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	250	1	UG/L	06/30/2022	JNF
Arsenic (Dissolved)	EPA-200.8	2.6	1.0	1	UG/L	06/27/2022	EBS

SURROGATE	METHOD	%REC	DATE	BY			
C25	NWTPH-DX	79.2	06/30/2022	JNF			
C25	NWTPH-DX w/ SGA	85.6	06/30/2022	JNF			

U - Analyte analyzed for but not detected at level above reporting limit.

Chromatogram indicates that it is likely that sample contains an unidentified diesel range product.

ANALYSIS ANALYSIS



CLIENT: Landau Associates, Inc. DATE: 7/1/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22060161 Seattle, WA 98125 ALS SAMPLE#: EV22060161-04

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 06/24/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 6/24/2022 5:00:00 PM

CLIENT SAMPLE ID DUP1-220624 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
TPH-Diesel Range (C12-C24)	NWTPH-DX	340	130	1	UG/L	06/30/2022	JNF
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	130	1	UG/L	06/30/2022	JNF
TPH-Oil Range (C24-C40)	NWTPH-DX	U	250	1	UG/L	06/30/2022	JNF
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	250	1	UG/L	06/30/2022	JNF
Arsenic (Dissolved)	EPA-200.8	3.3	1.0	1	UG/L	06/27/2022	EBS

			ANALYSIS	ANALYSIS
SURROGATE	METHOD	%REC	DATE	BY
C25	NWTPH-DX	80.4	06/30/2022	JNF
C25	NWTPH-DX w/ SGA	89.2	06/30/2022	JNF

U - Analyte analyzed for but not detected at level above reporting limit.

Chromatogram indicates that it is likely that sample contains an unidentified diesel range product.

ALS Group USA, Corp dba ALS Environmental



CLIENT: Landau Associates, Inc.

CLIENT CONTACT:

155 NE 100th St, Ste 302

Seattle, WA 98125

Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510

7/1/2022

DATE: ALS SDG#:

EV22060161

WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB2-062922W - Batch 180743 - Water by NWTPH-DX

				REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY	
TPH-Diesel Range (C12-C24)	NWTPH-DX	U	UG/L	130	06/30/2022	JNF	
TPH-Oil Range (C24-C40)	NWTPH-DX	U	UG/L	250	06/30/2022	JNF	

U - Analyte analyzed for but not detected at level above reporting limit.

MB-063022W - Batch 180753 - Water by EPA-8270

				REPORTING		ANALYSIS	
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY	
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	UG/L	3.2	07/01/2022	JMK	

U - Analyte analyzed for but not detected at level above reporting limit.

MB-062722W - Batch 180501 - Water by EPA-200.8

				REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	ВҮ	
Arsenic (Dissolved)	EPA-200.8	U	UG/L	1.0	06/27/2022	EBS	
Copper (Dissolved)	EPA-200.8	U	UG/L	2.0	06/27/2022	EBS	

U - Analyte analyzed for but not detected at level above reporting limit.

ALS Group USA, Corp dba ALS Environmental



CLIENT: Landau Associates, Inc.

155 NE 100th St, Ste 302

Seattle, WA 98125

ALS SDG#: WDOE ACCREDITATION:

DATE:

7/1/2022 EV22060161

C601

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 180743 - Water by NWTPH-DX

				LIIV	1115	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
TPH-Diesel Range (C12-C24) - BS	NWTPH-DX	100		67	125.2	06/30/2022	JNF
TPH-Diesel Range (C12-C24) - BSD	NWTPH-DX	101	1	67	125.2	06/30/2022	JNF

ALS Test Batch ID: 180753 - Water by EPA-8270

				LIM	ITS	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
Bis(2-Ethylhexyl)Phthalate - BS	EPA-8270	104		20	150	06/30/2022	JMK
Bis(2-Ethylhexyl)Phthalate - BSD	EPA-8270	108	4	20	150	07/01/2022	JMK

ALS Test Batch ID: 180501 - Water by EPA-200.8

				LIN	IITS	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
Arsenic (Dissolved) - BS	EPA-200.8	94.7		89.1	110	06/27/2022	EBS
Arsenic (Dissolved) - BSD	EPA-200.8	96.6	2	89.1	110	06/27/2022	EBS
Copper (Dissolved) - BS	EPA-200.8	99.2		85.4	109	06/27/2022	EBS
Copper (Dissolved) - BSD	EPA-200.8	101	2	85.4	109	06/27/2022	EBS

APPROVED BY

Laboratory Director

EV2206016 Date 6/24/2022 North Seattle (206) 631-8660
Tacoma (253) 926-2493

Shipment Method: Drop of Dissolved metal samples were field filtered Special Handling Requirements: Allow water samples to settle, collect aliquot from clear portion \square Observations/Comments NWTPH-Dx - Acid wash cleanup - Silica gel cleanup Stored on ice: Time Accelerated Received by **Printed Name** Signature Company Other of Date Time Relinquished by **Printed Name** Company Signature YELLOW COPY - Project File Date Project Location/Event North May Machinera/ Hulkey GNW 02- ZUR ZUZL Olympia (360) 791-3178 Date 6/24/22 Time 17:00 Containers Project No. 147029.51C Send Results To Dulan Franch, Peran Brondt, Elik Grichewald Received by Mutter Matrix Project Contact Dulan Frazer, Dagn Branch Printed Name Chain-of-Custody Time 6/24/11 1240 6/24/22 170 6/24/12 1040 8410 Company Sampler's Name Kalpava frasa 6/21/21 Date Record Time (300 -MW-6-220624 AMMIGN RI-MW-4-120624 1729017 RI-MW-3-2206241 Printed Name Kaly and Sample I.D. LANDAU
ASSOCIATES Date 6/24/22 Company Lanch Project Name Relinquished by Signature (CC) Dopl

WHITE COPY - Laboratory

PINK COPY - Client Representative

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Landay ALS	S Job#: E V 22060 [6]	
Project: Ameron		_
Received Date: 6/24/22 Received Time: 17:0	0 By: <i>PAP</i>	_
Type of shipping container: Cooler Box C	Other	
Shipped via: FedEx Ground UPS Mail FedEx Express		_
Were custody seals on outside of shipping container? If yes, how many? Where? Custody seal date: Seal name:	Yes No N/A	
Was Chain of Custody properly filled out (ink, signed, dated, etc.))?	
Did all bottles have labels?		
Did all bottle labels and tags agree with Chain of Custody?		
Were samples received within hold time?		
Did all bottles arrive in good condition (unbroken, etc.)?	_X	
Was sufficient amount of sample sent for the tests indicated?	\	
Was correct preservation added to samples?	X	
If no, Sample Control added preservative to the following: Sample Number Reagent Analyte ———————————————————————————————————		
Were VOA vials checked for absence of air bubbles? Bubbles present in sample #:		
Temperature of cooler upon receipt: 5.9°C Cold Explain any discrepancies:		_
Was client contacted? Who was called? By Outcome of call:	y whom? Date:	_



October 3, 2022

Mr. Dylan Frazer Landau Associates, Inc. 155 NE 100th St, Ste 302 Seattle, WA 98125

Dear Mr. Frazer,

On September 20th, 14 samples were received by our laboratory and assigned our laboratory project number EV22090083. The project was identified as your Ameron / 147029.510. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Glen Perry

Mla Perny

Laboratory Director



CLIENT: Landau Associates, Inc. DATE: 10/3/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22090083 Seattle, WA 98125 ALS SAMPLE#: EV22090083-0

Seattle, WA 98125 ALS SAMPLE#: EV22090083-01
Dylan Frazer DATE RECEIVED: 09/20/2022

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 09/20/2022 CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 9/19/2022 5:57:00 AM

CLIENT SAMPLE ID R1-MW-1-2209 WDOE ACCREDITATION: C601

			REPORTING	DILUTION		ANALYSIS A		;
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY	
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	09/23/2022	RAL	
Copper (Dissolved)	EPA-200.8	U	2.0	1	UG/L	09/23/2022	RAL	

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 10/3/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22090083 Seattle, WA 98125 ALS SAMPLE#: EV22090083-02

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 09/20/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 9/19/2022 6:30:00 AM

CLIENT SAMPLE ID R1-MW-2-2209 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY	
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	09/23/2022	RAL	
Copper (Dissolved)	EPA-200.8	U	2.0	1	UG/L	09/23/2022	RAL	

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 10/3/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22090083 Seattle, WA 98125 ALS SAMPLE#: EV22090083-03

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 09/20/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 9/19/2022 7:00:00 AM

CLIENT SAMPLE ID R1-MW-3-2209 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY	S
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	09/26/2022	JMK	
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	09/23/2022	RAL	
Copper (Dissolved)	EPA-200.8	U	2.0	1	UG/L	09/23/2022	RAL	
						ANALYSIS A	ANALYSI!	s

 SURROGATE
 METHOD
 %REC
 DATE
 BY

 Terphenyl-d14
 EPA-8270
 95.0
 09/26/2022
 JMK

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 10/3/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22090083 Seattle, WA 98125 ALS SAMPLE#: EV22090083-04

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 09/20/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 9/19/2022 9:15:00 AM

CLIENT SAMPLE ID R1-MW-4-2209 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY	j
TPH-Diesel Range (C12-C24)	NWTPH-DX	U	130	1	UG/L	09/26/2022	DHM	
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	130	1	UG/L	09/27/2022	DHM	
TPH-Oil Range (C24-C40)	NWTPH-DX	U	250	1	UG/L	09/26/2022	DHM	
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	250	1	UG/L	09/27/2022	DHM	

			ANALYSIS
SURROGATE	METHOD	%REC	DATE
C25	NWTPH-DX	68.3	09/26/2022
C25	NWTPH-DX w/ SGA	69.0	09/27/2022

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 10/3/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22090083 Seattle, WA 98125 ALS SAMPLE#: EV22090083-05

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 09/20/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 9/20/2022 9:55:00 AM

CLIENT SAMPLE ID R1-MW-6-2209 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSI BY	3
TPH-Diesel Range (C12-C24)	NWTPH-DX	430	130	1	UG/L	09/26/2022	DHM	
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	150	130	1	UG/L	09/27/2022	DHM	
TPH-Oil Range (C24-C40)	NWTPH-DX	U	250	1	UG/L	09/26/2022	DHM	
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	250	1	UG/L	09/27/2022	DHM	
Arsenic (Dissolved)	EPA-200.8	4.6	1.0	1	UG/L	09/23/2022	RAL	

			ANALYSIS	ANALYSIS
SURROGATE	METHOD	%REC	DATE	BY
C25	NWTPH-DX	78.2	09/26/2022	DHM
C25	NWTPH-DX w/ SGA	89.6	09/27/2022	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

Chromatogram indicates that it is likely that sample contains an unidentified diesel range product.



CLIENT: Landau Associates, Inc. DATE: 10/3/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22090083 Seattle, WA 98125 ALS SAMPLE#: EV22090083-06

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 09/20/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 9/19/2022 12:30:00 PM

CLIENT SAMPLE ID R1-MW-7-2209 WDOE ACCREDITATION: C601

ANALYTE Bio(2 Ethyllogyd) Dhtholoto	METHOD EPA-8270	RESULTS	REPORTING LIMITS 2.0	DILUTION FACTOR	UNITS UG/L	ANALYSIS A DATE 09/26/2022	ANALYSIS BY
Bis(2-Ethylhexyl)Phthalate	EFA-6270	U	2.0	I	UG/L	09/20/2022	JIVIN
						ANALYSIS A	
SURROGATE	METHOD	%REC				DATE	BY
Terphenyl-d14	EPA-8270	69.5				09/26/2022	JMK

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 10/3/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22090083 Seattle, WA 98125 ALS SAMPLE#: EV22090083-07

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 09/20/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 9/20/2022 8:40:00 AM

CLIENT SAMPLE ID P-10R-2209 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY	
Arsenic (Dissolved)	EPA-200.8	1.9	1.0	1	UG/L	09/23/2022	RAL	
Copper (Dissolved)	EPA-200.8	U	2.0	1	UG/L	09/23/2022	RAL	

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT CONTACT:

CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc.

10/3/2022 155 NE 100th St, Ste 302 ALS JOB#: EV22090083 Seattle, WA 98125 ALS SAMPLE#: EV22090083-08

DATE:

Dylan Frazer DATE RECEIVED: 09/20/2022

CLIENT PROJECT: Ameron / 147029.510 **COLLECTION DATE:** 9/19/2022 1:50:00 PM

CLIENT SAMPLE ID SEE-EC-3-2209 WDOE ACCREDITATION: C601

			REPORTING	DILUTION		ANALYSIS A	ANALYSIS
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY
Arsenic (Dissolved)	EPA-200.8	80	1.0	1	UG/L	09/23/2022	RAL



CLIENT: Landau Associates, Inc. DATE: 10/3/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22090083 Seattle, WA 98125 ALS SAMPLE#: EV22090083-09

09/22/2022

DLC

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 09/20/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 9/19/2022 10:55:00 AM

CLIENT SAMPLE ID ECI-MW-3-2209 WDOE ACCREDITATION: C601

103

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY	3
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	09/22/2022	DLC	
Arsenic (Dissolved)	EPA-200.8	96	1.0	1	UG/L	09/23/2022	RAL	
SURROGATE	METHOD	%REC				ANALYSIS A	ANALYSIS BY	3

U - Analyte analyzed for but not detected at level above reporting limit.

1,2-Dichloroethane-d4

EPA-8260



CLIENT: Landau Associates, Inc. DATE: 10/3/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22090083 Seattle, WA 98125 ALS SAMPLE#: EV22090083-10

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 09/20/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 9/19/2022 5:00:00 AM

CLIENT SAMPLE ID DUP-1-2209 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
Arsenic (Dissolved)	EPA-200.8	4.7	1.0	1	UG/L	09/23/2022	RAL
Copper (Dissolved)	EPA-200.8	U	2.0	1	UG/L	09/23/2022	RAL

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT CONTACT:

CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 10/3/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22090083 Seattle, WA 98125 ALS SAMPLE#: EV22090083-11

ANIAL VOIO ANIAL VO

Dylan Frazer DATE RECEIVED: 09/20/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 9/20/2022 8:00:00 AM

CLIENT SAMPLE ID DUP-2-2209 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY	
TPH-Diesel Range (C12-C24)	NWTPH-DX	420	130	1	UG/L	09/27/2022	DHM	
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	140	130	1	UG/L	09/27/2022	DHM	
TPH-Oil Range (C24-C40)	NWTPH-DX	250	250	1	UG/L	09/27/2022	DHM	
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	250	1	UG/L	09/27/2022	DHM	

			ANALYSIS	ANAL Y SI
SURROGATE	METHOD	%REC	DATE	BY
C25	NWTPH-DX	81.0	09/27/2022	DHM
C25	NWTPH-DX w/ SGA	85.0	09/27/2022	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and an unidentified oil range product.

Oil range product results biased high due to diesel range product overlap.



CLIENT: Landau Associates, Inc. DATE: 10/3/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22090083 Seattle, WA 98125 ALS SAMPLE#: EV22090083-12

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 09/20/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 9/19/2022 12:00:00 PM

CLIENT SAMPLE ID DUP-3-2209 WDOE ACCREDITATION: C601

ANALYTE 1,1-Dichloroethene	METHOD EPA-8260	RESULTS U	REPORTING LIMITS 2.0	DILUTION FACTOR	UNITS UG/L	ANALYSIS A DATE 09/22/2022	ANALYSIS BY DLC
- <u>'</u>			· · · · · · · · · · · · · · · · · · ·			ANALYSIS /	ANALYSIS BY
SURROGATE 1,2-Dichloroethane-d4	METHOD EPA-8260	%REC 104				09/22/2022	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 10/3/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22090083 ALS SAMPLE#: EV22090083-13

Seattle, WA 98125

Dylan Frazer **CLIENT CONTACT:** DATE RECEIVED: 09/20/2022 **CLIENT PROJECT:** Ameron / 147029.510 **COLLECTION DATE:** 9/19/2022

CLIENT SAMPLE ID Trip Blanks WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	BY
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	09/22/2022	DLC
SURROGATE	METHOD	%REC				ANALYSIS A	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	104				09/22/2022	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 10/3/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22090083 Seattle, WA 98125 ALS SAMPLE#: EV22090083-14

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 09/20/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 9/19/2022 2:00:00 PM

CLIENT SAMPLE ID DUP-4-2209 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	09/26/2022	JMK
						ANALYSIS	
SURROGATE	METHOD	%REC				DATE	BY
Terphenyl-d14	EPA-8270	67.1				09/26/2022	JMK

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc.

155 NE 100th St, Ste 302

Seattle, WA 98125

WDOE ACCREDITATION:

DATE:

ALS SDG#:

10/3/2022 EV22090083 C601

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510

LABORATORY BLANK RESULTS

MB-092322W - Batch 184011 - Water by NWTPH-DX

				REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY
TPH-Diesel Range (C12-C24)	NWTPH-DX	U	UG/L	130	09/26/2022	DHM
TPH-Oil Range (C24-C40)	NWTPH-DX	U	UG/L	250	09/26/2022	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

MB-092222W - Batch 183981 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	LIMITS	ANALYSIS Date	ANALYSIS BY
1,1-Dichloroethene	EPA-8260	U	UG/L	2.0	09/22/2022	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-092622W - Batch 184075 - Water by EPA-8270

				REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	UG/L	3.2	09/26/2022	JMK

U - Analyte analyzed for but not detected at level above reporting limit.

MB-092322W - Batch 184130 - Water by EPA-200.8

				REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY
Arsenic (Dissolved)	EPA-200.8	U	UG/L	1.0	09/23/2022	RAL
Copper (Dissolved)	EPA-200.8	U	UG/L	2.0	09/23/2022	RAL

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc.

155 NE 100th St, Ste 302

Seattle, WA 98125

ALS SDG#:

10/3/2022 EV22090083

WDOE ACCREDITATION:

DATE:

C601

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 184011 - Water by NWTPH-DX

				LIIV	1115	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
TPH-Diesel Range (C12-C24) - BS	NWTPH-DX	99.5		67	125.2	09/26/2022	DHM
TPH-Diesel Range (C12-C24) - BSD	NWTPH-DX	106	6	67	125.2	09/26/2022	DHM

ALS Test Batch ID: 183981 - Water by EPA-8260

				LIM	IITS	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
1,1-Dichloroethene - BS	EPA-8260	115		72.5	136	09/22/2022	DLC
1,1-Dichloroethene - BSD	EPA-8260	116	1	72.5	136	09/22/2022	DLC

ALS Test Batch ID: 184075 - Water by EPA-8270

				LIM	ITS	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
Bis(2-Ethylhexyl)Phthalate - BS	EPA-8270	106		20	150	09/26/2022	JMK
Bis(2-Ethylhexyl)Phthalate - BSD	EPA-8270	112	5	20	150	09/26/2022	JMK

ALS Test Batch ID: 184130 - Water by EPA-200.8

				LIN	IITS	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
Arsenic (Dissolved) - BS	EPA-200.8	101		89.1	110	09/23/2022	RAL
Arsenic (Dissolved) - BSD	EPA-200.8	102	1	89.1	110	09/23/2022	RAL
Copper (Dissolved) - BS	EPA-200.8	104		85.4	109	09/23/2022	RAL
Copper (Dissolved) - BSD	EPA-200.8	105	1	85.4	109	09/23/2022	RAL

APPROVED BY

Laboratory Director

LANDAU
ASSOCIATES

Chain-of-Custody Record Project Location/Event NOXHO Main/a Ancion/Hulbevt GM C3-Septendrey 2022

North Seattle (206) 631-8660
Tacoma (253) 926-2493 Olympia (360) 791-3178

147029,510

Project No.

Project Name Ameyon

☐ Portland (503) 542-1080 Spokane (509) 327-9737

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EV22090083

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Printed Name Received by Signature

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RI-MW-3-2209 RI-MW-4-2709

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RI-HW-1-2209

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Send Results To Dylay (Tazer, Recan Branch, Elix Gracual)

Project Contact Dalan Frazer, Daran Branch

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ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Landav Associates	ALS Job #: E	.v22090	0083	
Project: Ameron				
Received Date: 9-20-22 Received Time: 125	Ó	Ву: М	4	
Type of shipping container: Cooler X Box	Other			
Shipped via: FedEx Ground UPS Mail FedEx Express	Courier _	I	Iand Deli	vered <u>X</u>
Were custody seals on outside of shipping container? If yes, how many? Where? Custody seal date: Seal name:		Yes	<u>No</u>	N/A
Was Chain of Custody properly filled out (ink, signed, dated,	etc.)?	X		
Did all bottles have labels?		<u> </u>		
Did all bottle labels and tags agree with Chain of Custody?		Χ		
Were samples received within hold time?		K		
Did all bottles arrive in good condition (unbroken, etc.)?		X		
Was sufficient amount of sample sent for the tests indicated?		X		
Was correct preservation added to samples?		X		
If no, Sample Control added preservative to the following: Sample Number Reagent Analyte ———————————————————————————————————				
Were VOA vials checked for absence of air bubbles? Bubbles present in sample #:	-	X		
Temperature of cooler upon receipt: 2.9 °C Tec	Cold Cool	Ambi	ent N/	A
Explain any discrepancies:				
Was client contacted? Who was called?	By whom?			



December 27, 2022

Mr. Dylan Frazer Landau Associates, Inc. 155 NE 100th St, Ste 302 Seattle, WA 98125

Dear Mr. Frazer,

On December 9th, 13 samples were received by our laboratory and assigned our laboratory project number EV22120069. The project was identified as your Ameron / 147029.510. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Glen Perry

Mla Perny

Laboratory Director

Environmental 🚴



CLIENT: Landau Associates, Inc. DATE: 12/27/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22120069
Seattle, WA 98125 ALS SAMPLE#: EV22120069-

Seattle, WA 98125 ALS SAMPLE#: EV22120069-01

Dylan Frazer DATE RECEIVED: 12/09/2022

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 12/09/2022
CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 12/8/2022 8:00:00 AM

CLIENT SAMPLE ID DUP-1-221208 WDOE ACCREDITATION: C601

91.8

SAMPLE DATA RESULTS

		O/ 22	DATATION					
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS By	
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	12/16/2022	GAP	
Arsenic (Dissolved)	EPA-200.8	1.0	1.0	1	UG/L	12/21/2022	EBS	
Copper (Dissolved)	EPA-200.8	3.2	2.0	1	UG/L	12/21/2022	EBS	
SURROGATE	METHOD	%REC				ANALYSIS A	ANALYSIS BY	

12/16/2022

GAP

EPA-8270

Terphenyl-d14

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 12/27/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22120069 Seattle, WA 98125 ALS SAMPLE#: EV22120069-02

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 12/09/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 12/8/2022 9:35:00 AM

CLIENT SAMPLE ID R1-MW-4-221208 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY	i
TPH-Diesel Range (C12-C24)	NWTPH-DX	160	130	1	UG/L	12/16/2022	DHM	
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	130	1	UG/L	12/19/2022	DHM	
TPH-Oil Range (C24-C40)	NWTPH-DX	U	250	1	UG/L	12/16/2022	DHM	
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	250	1	UG/L	12/19/2022	DHM	

			ANALTSIS	ANAL 1 313
SURROGATE	METHOD	%REC	DATE	BY
C25	NWTPH-DX	76.2	12/16/2022	DHM
C25	NWTPH-DX w/ SGA	70.6	12/19/2022	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

Chromatogram indicates that it is likely that sample contains an unidentified diesel range product.



CLIENT: Landau Associates, Inc. DATE: 12/27/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22120069
Seattle, WA 98125 ALS SAMPLE#: EV22120069-03

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 12/09/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 12/8/2022 10:45:00 AM

CLIENT SAMPLE ID R1-MW-3-221208 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS By
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	12/16/2022	GAP
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	12/21/2022	EBS
Copper (Dissolved)	EPA-200.8	2.4	2.0	1	UG/L	12/21/2022	EBS
						ANAI VSIS	

 SURROGATE
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 BY

 Terphenyl-d14
 EPA-8270
 92.8
 12/16/2022
 GAP

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc.

155 NE 100th St, Ste 302

Seattle, WA 98125

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510

CLIENT SAMPLE ID R1-MW-2-221208 WDOE ACCREDITATION: C601

ALS SAMPLE#: EV22120069-04

DATE:

ALS JOB#:

DATE RECEIVED:

EV22120069 12/09/2022

12/27/2022

COLLECTION DATE: 12/8/2022 11:35:00 AM

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS By
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	12/21/2022	EBS
Copper (Dissolved)	EPA-200.8	2.3	2.0	1	UG/L	12/21/2022	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc.

DATE: 12/27/2022 155 NE 100th St, Ste 302 ALS JOB#: EV22120069

ALS SAMPLE#:

EV22120069-05

Seattle, WA 98125

CLIENT CONTACT: Dylan Frazer

DATE RECEIVED: 12/09/2022 **CLIENT PROJECT:** Ameron / 147029.510 **COLLECTION DATE:** 12/8/2022 1:20:00 PM

CLIENT SAMPLE ID R1-MW-7-221208 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	12/16/2022	GAP
SURROGATE	METHOD	%REC				ANALYSIS A	ANALYSIS BY
Terphenyl-d14	EPA-8270	68.6				12/16/2022	GAP

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 12/27/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22120069
Seattle, WA 98125 ALS SAMPLE#: EV22120069-06

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 12/09/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 12/8/2022 2:20:00 PM

CLIENT SAMPLE ID EC1-MW-3-221208 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/13/2022	DLC
Arsenic (Dissolved)	EPA-200.8	60	1.0	1	UG/L	12/21/2022	EBS
SURROGATE	METHOD	%REC				ANALYSIS A	ANALYSIS By
1,2-Dichloroethane-d4	EPA-8260	97.3				12/13/2022	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



ALS SAMPLE#:

DATE RECEIVED:

EV22120069-07

12/09/2022

CLIENT: Landau Associates, Inc.

DATE: 12/27/2022 155 NE 100th St, Ste 302 ALS JOB#: EV22120069

Seattle, WA 98125

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510 **COLLECTION DATE:** 12/8/2022 3:50:00 PM

CLIENT SAMPLE ID SEE-EC-3-221208 WDOE ACCREDITATION: C601

			REPORTING	DILUTION	ANALYSIS ANALYSIS			
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY	
Arsenic (Dissolved)	EPA-200.8	17	1.0	1	UG/L	12/21/2022	EBS	



CLIENT CONTACT:

CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc.

DATE: 12/27/2022 155 NE 100th St, Ste 302 ALS JOB#: EV22120069 Seattle, WA 98125 ALS SAMPLE#: EV22120069-08

Dylan Frazer DATE RECEIVED: 12/09/2022

CLIENT PROJECT: Ameron / 147029.510 **COLLECTION DATE:** 12/8/2022 4:30:00 PM

CLIENT SAMPLE ID DUP-3-221208 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS By
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/13/2022	DLC
						ANALYSIS A	ANALYSIS
SURROGATE	METHOD	%REC				DATE	BY
1,2-Dichloroethane-d4	EPA-8260	97.9				12/13/2022	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc.

155 NE 100th St, Ste 302

Seattle, WA 98125

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510

CLIENT SAMPLE ID P-10R-221208 DATE:

12/27/2022 EV22120069

ALS JOB#:

EV22120069-09

ALS SAMPLE#:

DATE RECEIVED:

12/09/2022 12/8/2022 4:45:00 PM

WDOE ACCREDITATION: C601

COLLECTION DATE:

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY	
Arsenic (Dissolved)	EPA-200.8	1.1	1.0	1	UG/L	12/21/2022	EBS	
Copper (Dissolved)	EPA-200.8	U	2.0	1	UG/L	12/21/2022	EBS	

U - Analyte analyzed for but not detected at level above reporting limit.

Environmental 🚂



CLIENT: Landau Associates, Inc. DATE: 12/27/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22120069
Seattle, WA 98125 ALS SAMPLE#: EV22120069-10

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 12/09/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 12/9/2022 8:00:00 AM

CLIENT SAMPLE ID DUP-2-221209 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
TPH-Diesel Range (C12-C24)	NWTPH-DX	440	130	1	UG/L	12/16/2022	DHM
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	140	130	1	UG/L	12/19/2022	DHM
TPH-Oil Range (C24-C40)	NWTPH-DX	300	250	1	UG/L	12/16/2022	DHM
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	250	1	UG/L	12/19/2022	DHM

SURROGATE	METHOD	%REC
C25	NWTPH-DX	73.9
C25	NWTPH-DX w/ SGA	69.5

U - Analyte analyzed for but not detected at level above reporting limit.

Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and an unidentified oil range product.



CLIENT: Landau Associates, Inc.

DATE: 12/27/2022 155 NE 100th St, Ste 302 ALS JOB#: EV22120069

Seattle, WA 98125 ALS SAMPLE#:

Dylan Frazer DATE RECEIVED: 12/09/2022

CLIENT CONTACT: CLIENT PROJECT: Ameron / 147029.510 **COLLECTION DATE:** 12/9/2022 11:10:00 AM

> WDOE ACCREDITATION: C601

EV22120069-11

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	12/21/2022	EBS
Copper (Dissolved)	EPA-200.8	4.0	2.0	1	UG/L	12/21/2022	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

R1-MW-1-221209

CLIENT SAMPLE ID



CLIENT: Landau Associates, Inc. DATE: 12/27/2022

155 NE 100th St, Ste 302 ALS JOB#: EV22120069
Seattle, WA 98125 ALS SAMPLE#: EV22120069-12

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 12/09/2022

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 12/9/2022 12:00:00 PM

CLIENT SAMPLE ID R1-MW-6-221209 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS By
TPH-Diesel Range (C12-C24)	NWTPH-DX	480	130	1	UG/L	12/16/2022	DHM
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	170	130	1	UG/L	12/19/2022	DHM
TPH-Oil Range (C24-C40)	NWTPH-DX	320	250	1	UG/L	12/16/2022	DHM
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	250	1	UG/L	12/19/2022	DHM
Arsenic (Dissolved)	EPA-200.8	3.5	1.0	1	UG/L	12/21/2022	EBS

			ANALYSIS	ANALYSIS
SURROGATE	METHOD	%REC	DATE	BY
C25	NWTPH-DX	72.6	12/16/2022	DHM
C25	NWTPH-DX w/ SGA	69.8	12/19/2022	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and an unidentified oil range product.



CLIENT: Landau Associates, Inc.

DATE: 12/27/2022 155 NE 100th St, Ste 302 ALS JOB#: EV22120069

ALS SAMPLE#:

EV22120069-13

Seattle, WA 98125

Dylan Frazer **CLIENT CONTACT:**

DATE RECEIVED: 12/09/2022 **CLIENT PROJECT:** Ameron / 147029.510 **COLLECTION DATE:** 12/9/2022

CLIENT SAMPLE ID Trip Blanks WDOE ACCREDITATION: C601

ANALYTE 1,1-Dichloroethene	METHOD EPA-8260	RESULTS U	REPORTING LIMITS 2.0	DILUTION FACTOR	UNITS UG/L	ANALYSIS A DATE 12/13/2022	ANALYSIS BY DLC
SURROGATE	METHOD	%REC				ANALYSIS A	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	97.3				12/13/2022	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc.

155 NE 100th St, Ste 302

Seattle, WA 98125

ALS SDG#:

12/27/2022 EV22120069

WDOE ACCREDITATION: C601

DATE:

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510

LABORATORY BLANK RESULTS

MB-121222W - Batch 187493 - Water by NWTPH-DX

				REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY
TPH-Diesel Range (C12-C24)	NWTPH-DX	U	UG/L	130	12/16/2022	DHM
TPH-Oil Range (C24-C40)	NWTPH-DX	U	UG/L	250	12/16/2022	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

MB-121322W - Batch 187515 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	LIMITS	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene	EPA-8260	U	UG/L	2.0	12/13/2022	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-121522W - Batch 187492 - Water by EPA-8270

				REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	UG/L	3.2	12/16/2022	GAP

U - Analyte analyzed for but not detected at level above reporting limit.

MB-121422W - Batch 187548 - Water by EPA-200.8

				REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY
Arsenic (Dissolved)	EPA-200.8	U	UG/L	1.0	12/21/2022	EBS
Copper (Dissolved)	EPA-200.8	U	UG/L	2.0	12/21/2022	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc.

155 NE 100th St, Ste 302

Seattle, WA 98125

ALS SDG#:

12/27/2022 EV22120069

WDOE ACCREDITATION:

DATE:

C601

CLIENT CONTACT: D

Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 187493 - Water by NWTPH-DX

				LIM	IIIS	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
TPH-Diesel Range (C12-C24) - BS	NWTPH-DX	106		67	125.2	12/16/2022	DHM
TPH-Diesel Range (C12-C24) - BSD	NWTPH-DX	99.3	6	67	125.2	12/16/2022	DHM

ALS Test Batch ID: 187515 - Water by EPA-8260

				LIM	ITS	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
1,1-Dichloroethene - BS	EPA-8260	108		72.5	136	12/13/2022	DLC
1,1-Dichloroethene - BSD	EPA-8260	103	5	72.5	136	12/13/2022	DLC

ALS Test Batch ID: 187492 - Water by EPA-8270

				LIM	ITS	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
Bis(2-Ethylhexyl)Phthalate - BS	EPA-8270	103		20	150	12/16/2022	GAP
Bis(2-Ethylhexyl)Phthalate - BSD	EPA-8270	108	4	20	150	12/16/2022	GAP

ALS Test Batch ID: 187548 - Water by EPA-200.8

				LIN	IITS	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
Arsenic (Dissolved) - BS	EPA-200.8	104		89.1	110	12/21/2022	EBS
Arsenic (Dissolved) - BSD	EPA-200.8	103	1	89.1	110	12/21/2022	EBS
Copper (Dissolved) - BS	EPA-200.8	107		85.4	109	12/21/2022	EBS
Copper (Dissolved) - BSD	EPA-200.8	106	1	85.4	109	12/21/2022	EBS

APPROVED BY

Laboratory Director

Shipment Method: Orap Off — Dissolved metal samples were field filtered Special Handling Requirements: Observations/Comments EVA 2120069 Turnaround Time: Accelerated Standard __ NWTPH-Dx - Acid wash Allow water samp aliquot from cleai Received by 72/60/2 of Lesting Parameters Date Page Relinquished by X Signature /Hullpert GAV BH Decomber-27 X North Seattle (206) 631-8660
Tacoma (253) 926-2493 Send Results To Dylan Fraza, Devan Branch, Flise Grandle X Olympia (360) 791-3178 Containers 147 029 51U 20 Received by Signature Matrix ABB Project Contact Dalam Frazer , Devan Branch Project No. Chain-of-Custody Time 045 1135 971 550 549 8 800 320 800 200 110 Project Location/Event Nov4M Marings America Sampler's Name Kalpanca grasace 12/08/22 Date Record 12 DUY-2-221209 \$1-14W-2-221208 21-MW-7-221208 EC1-14W-3-221209 21-HW-6-221209 AMYON SEE-E(-5-221208 PI-MW-7-7-221208 DI-WW-3-221208 UP-3-221208 P-10R-221208 DUP-1-221208 Sample I.D. LANDAU
ASSOCIATES Trip Blanks Relinquished by Project Name Signature 🔾 0

YELLOW COPY - Project File

Time

Printed Name Company

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Signature

Date

PINK COPY - Client Representative

8 Company A U Printed Name

Printed Name

Company

Date 12/9/22

Time 3:059M

Printed Name (CA) PONCE Prose Date 12/09/12 Company

WHITE COPY - Laboratory

Date

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Landau Associates	ALS Job #: _	EV	12212	.0069	
Project: Ameron 147029 510					
Received Date: $\frac{12/9/22}{}$ Received Time: $\frac{15}{}$	202	Ву: _	82		
Type of shipping container: Cooler Box	Other				
Shipped via: FedEx Ground UPS Mail FedEx Express	_ Courier		Hand Deliv	vered	
Were custody seals on outside of shipping container? If yes, how many? Where? Side of Container? Custody seal date: Seal name: Landau	ooler	Yes	<u>No</u>	<u>N/A</u>	
Was Chain of Custody properly filled out (ink, signed, dated, e	tc.)?	<u>X</u>			
Did all bottles have labels?		X			
Did all bottle labels and tags agree with Chain of Custody?		X			
Were samples received within hold time?		X			
Did all bottles arrive in good condition (unbroken, etc.)?		<u>X</u>	— <u>(</u>		(
Was sufficient amount of sample sent for the tests indicated?			\times	only I anal	ce
Was correct preservation added to samples?		<u>X</u>		only I anal	L-
If no, Sample Control added preservative to the following: <u>Sample Number</u> <u>Reagent</u> <u>Analyte</u>					
Were VOA vials checked for absence of air bubbles? Bubbles present in sample #:	_	X			
Temperature of cooler upon receipt: 6.40 04	cool Cool	Amb	oient N/	A	
Explain any discrepancies: 1/2 Ltr Ambers were received for Dx	received tests	for	210C	tests and	9
Was client contacted? Yes Who was called? Kalpana	By whom?	Sha	un Date	: 12/9/22	
Outcome of call: After talking with Carl, we SVOC in this case since only I analyte. If	can use they needed	the danox	1/2 Ltr hefamal	for the ye, we won	ld



March 27, 2023

Mr. Dylan Frazer Landau Associates, Inc. 155 NE 100th St, Ste 302 Seattle, WA 98125

Dear Mr. Frazer,

On March 10th, 13 samples were received by our laboratory and assigned our laboratory project number EV23030073. The project was identified as your Ameron / 147029.510. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer

Laboratory Director

Environmental 🚴



CLIENT: Landau Associates, Inc.

155 NE 100th St, Ste 302

Seattle, WA 98125

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510

CLIENT SAMPLE ID DUP-3-230309

DATE: 3/27/2023

ALS JOB#: EV23030073

ALS SAMPLE#: EV23030073-01

DATE RECEIVED: 03/10/2023

COLLECTION DATE: 3/9/2023 8:00:00 AM

WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	BY
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/14/2023	DLC
SURROGATE	METHOD	%REC				ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	108				03/14/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE:

3/27/2023 155 NE 100th St, Ste 302 ALS JOB#: EV23030073

Seattle, WA 98125 ALS SAMPLE#: EV23030073-02 Dylan Frazer DATE RECEIVED: 03/10/2023

CLIENT CONTACT: CLIENT PROJECT: Ameron / 147029.510 **COLLECTION DATE:** 3/9/2023 10:10:00 AM

CLIENT SAMPLE ID ECI-MW-3-230309 WDOE ACCREDITATION: C601

108

SAMPLE DATA RESULTS

			2,1,,,,,,,				
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/14/2023	DLC
Arsenic (Dissolved)	EPA-200.8	16	1.0	1	UG/L	03/13/2023	RAL
SURROGATE	METHOD	%REC				ANALYSIS A	ANALYSIS BY

03/14/2023

DLC

1,2-Dichloroethane-d4

EPA-8260

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc.

DATE: 3/27/2023 155 NE 100th St, Ste 302 ALS JOB#: EV23030073

Seattle, WA 98125 ALS SAMPLE#: EV23030073-03

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 03/10/2023

CLIENT PROJECT: Ameron / 147029.510 **COLLECTION DATE:** 3/9/2023 11:25:00 AM

CLIENT SAMPLE ID RI-MW-1-230309 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	03/13/2023	RAL
Copper (Dissolved)	EPA-200.8	3.2	2.0	1	UG/L	03/13/2023	RAL

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc.

DATE: 3/27/2023 155 NE 100th St, Ste 302 ALS JOB#: EV23030073

Seattle, WA 98125 ALS SAMPLE#: EV23030073-04

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 03/10/2023

CLIENT PROJECT: Ameron / 147029.510 **COLLECTION DATE:** 3/9/2023 12:15:00 PM

CLIENT SAMPLE ID RI-MW-2-230309 WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS By
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	03/13/2023	RAL
Copper (Dissolved)	EPA-200.8	U	2.0	1	UG/L	03/13/2023	RAL

U - Analyte analyzed for but not detected at level above reporting limit.



DATE:

ALS SAMPLE#:

DATE RECEIVED:

3/27/2023

EV23030073

03/10/2023

EV23030073-05

3/9/2023 2:44:00 PM

CLIENT: Landau Associates, Inc.

155 NE 100th St, Ste 302 ALS JOB#:

Seattle, WA 98125

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE:

CLIENT SAMPLE ID RI-MW-7-230309 WDOE ACCREDITATION: C601

		O/ ===	27117111200210				
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	03/16/2023	DBA
						ANALYSIS A	
SURROGATE	METHOD	%REC				DATE	BY
Terphenyl-d14	EPA-8270	44.1 SUR02				03/16/2023	DBA

U - Analyte analyzed for but not detected at level above reporting limit.

SUR02 -One or more surrogate recoveries were below the lower control limits. The sample results may be biased low.



CLIENT: Landau Associates, Inc.

DATE: 3/27/2023 155 NE 100th St, Ste 302 ALS JOB#: EV23030073

Seattle, WA 98125

ALS SAMPLE#: EV23030073-06

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 03/10/2023

CLIENT PROJECT: Ameron / 147029.510 **COLLECTION DATE:** 3/9/2023 2:49:00 PM **CLIENT SAMPLE ID** P-10R-230309 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY	
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	03/13/2023	RAL	
Copper (Dissolved)	EPA-200.8	2.1	2.0	1	UG/L	03/13/2023	RAL	

U - Analyte analyzed for but not detected at level above reporting limit.

Environmental 🔈



CLIENT: Landau Associates, Inc.

DATE: 3/27/2023 155 NE 100th St, Ste 302 ALS JOB#: EV23030073 ALS SAMPLE#: EV23030073-07

DATE RECEIVED:

03/10/2023

Seattle, WA 98125

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510 **COLLECTION DATE:** 3/9/2023 3:45:00 PM

CLIENT SAMPLE ID RI-MW-6-230309 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
TPH-Diesel Range (C12-C24)	NWTPH-DX	300	130	1	UG/L	03/24/2023	DHM
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	130	1	UG/L	03/26/2023	DHM
TPH-Oil Range (C24-C40)	NWTPH-DX	U	250	1	UG/L	03/24/2023	DHM
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	250	1	UG/L	03/26/2023	DHM
Arsenic (Dissolved)	EPA-200.8	2.5	1.0	1	UG/L	03/13/2023	RAL
						ANAI VSIS	ANAI VSIS

			740/21010 740/21010	•
SURROGATE	METHOD	%REC	DATE BY	
C25	NWTPH-DX	95.3	03/24/2023 DHM	
C25	NWTPH-DX w/ SGA	102	03/26/2023 DHM	

U - Analyte analyzed for but not detected at level above reporting limit.

Chromatogram indicates that it is likely that sample contains an unidentified diesel range product.



CLIENT: Landau Associates, Inc. DATE:

3/27/2023 155 NE 100th St, Ste 302 ALS JOB#: EV23030073

Seattle, WA 98125 ALS SAMPLE#: EV23030073-08

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 03/10/2023

CLIENT PROJECT: Ameron / 147029.510 **COLLECTION DATE:** 3/9/2023 4:45:00 PM

CLIENT SAMPLE ID DUP-2-230309 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS By	
TPH-Diesel Range (C12-C24)	NWTPH-DX	330	130	1	UG/L	03/24/2023	DHM	
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	130	1	UG/L	03/26/2023	DHM	
TPH-Oil Range (C24-C40)	NWTPH-DX	U	250	1	UG/L	03/24/2023	DHM	
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	250	1	UG/L	03/26/2023	DHM	

			ANALYSIS	ANALYSIS
SURROGATE	METHOD	%REC	DATE	BY
C25	NWTPH-DX	85.6	03/24/2023	DHM
C25	NWTPH-DX w/ SGA	94.4	03/26/2023	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

Chromatogram indicates that it is likely that sample contains an unidentified diesel range product.



CLIENT: Landau Associates, Inc. DATE:

3/27/2023 155 NE 100th St, Ste 302 ALS JOB#: EV23030073

Seattle, WA 98125 ALS SAMPLE#: EV23030073-09

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 03/10/2023

CLIENT PROJECT: Ameron / 147029.510 **COLLECTION DATE:** 3/9/2023 4:59:00 PM RI-MW-4-230309 **CLIENT SAMPLE ID** WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS By	
TPH-Diesel Range (C12-C24)	NWTPH-DX	U	130	1	UG/L	03/24/2023	DHM	
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	130	1	UG/L	03/26/2023	DHM	
TPH-Oil Range (C24-C40)	NWTPH-DX	U	250	1	UG/L	03/24/2023	DHM	
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	250	1	UG/L	03/26/2023	DHM	

			ANALY	SIS ANALYSIS
SURROGATE	METHOD	%REC	DAT	E BY
C25	NWTPH-DX	96.7	03/24/20	023 DHM
C25	NWTPH-DX w/ SGA	106	03/26/20	023 DHM

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT CONTACT:

CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 3/27/2023

155 NE 100th St, Ste 302 ALS JOB#: EV23030073 Seattle, WA 98125 ALS SAMPLE#: EV23030073-10

Dylan Frazer DATE RECEIVED: 03/10/2023

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 3/10/2023 11:58:00 AM

CLIENT SAMPLE ID RI-MW-3-230310 WDOE ACCREDITATION: C601

			REPORTING	DILUTION		ANALYSIS A	ANALYSIS	3
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY	
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	03/16/2023	DBA	
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	03/13/2023	RAL	
Copper (Dissolved)	EPA-200.8	3.6	2.0	1	UG/L	03/13/2023	RAL	

			ANALYSIS AN	IALYSIS	SIS	
SURROGATE	METHOD	%REC	DATE	BY		
Terphenyl-d14	EPA-8270	82.5	03/16/2023	DBA		

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE: 3/27/2023

155 NE 100th St, Ste 302 ALS JOB#: EV23030073 Seattle, WA 98125 ALS SAMPLE#: EV23030073-11

CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 03/10/2023

CLIENT PROJECT: Ameron / 147029.510 COLLECTION DATE: 3/10/2023 12:00:00 PM

CLIENT SAMPLE ID DUP-1-230310 WDOE ACCREDITATION: C601

			REPORTING	DILUTION		ANALYSIS A	ANALYSIS	S
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY	
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	03/16/2023	DBA	
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	03/13/2023	RAL	
Copper (Dissolved)	EPA-200.8	U	2.0	1	UG/L	03/13/2023	RAL	

			ANALYSIS AN	ALYSIS	3
SURROGATE	METHOD	%REC	DATE	BY	
Terphenyl-d14	EPA-8270	83.9	03/16/2023	DBA	

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc.

DATE: 3/27/2023 155 NE 100th St, Ste 302 ALS JOB#: EV23030073

ALS SAMPLE#:

DATE RECEIVED:

COLLECTION DATE:

EV23030073-12

03/10/2023

3/9/2023

Seattle, WA 98125

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510

CLIENT SAMPLE ID Trip Blanks WDOE ACCREDITATION: C601

		O/ ==	27117111200210				
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS By
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/14/2023	DLC
						ANALYSIS A	
SURROGATE	METHOD	%REC				DATE	BY
1,2-Dichloroethane-d4	EPA-8260	107				03/14/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc. DATE:

3/27/2023 155 NE 100th St, Ste 302 ALS JOB#: EV23030073

Seattle, WA 98125 ALS SAMPLE#: EV23030073-13 Dylan Frazer DATE RECEIVED: 03/10/2023

CLIENT CONTACT: CLIENT PROJECT: Ameron / 147029.510 **COLLECTION DATE:** 3/9/2023 3:54:00 PM

CLIENT SAMPLE ID SEE-EC-3-230309 WDOE ACCREDITATION: C601

			REPORTING	DILUTION		ANALYSIS A	ANALYSIS
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY
Arsenic (Dissolved)	EPA-200.8	4.0	1.0	1	UG/L	03/13/2023	RAL



CLIENT: Landau Associates, Inc.

DATE: 3/27/2023 155 NE 100th St, Ste 302 ALS SDG#: EV23030073

Seattle, WA 98125

WDOE ACCREDITATION: C601

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT: Ameron / 147029.510

LABORATORY BLANK RESULTS

MB-031723W - Batch 190976 - Water by NWTPH-DX

				REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY	
TPH-Diesel Range (C12-C24)	NWTPH-DX	U	UG/L	130	03/24/2023	DHM	
TPH-Oil Range (C24-C40)	NWTPH-DX	U	UG/L	250	03/24/2023	DHM	

U - Analyte analyzed for but not detected at level above reporting limit.

MB-031423W - Batch 190835 - Water by EPA-8260

				REPORTING	ANALYSIS I	ANALYSIS	
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY	
1,1-Dichloroethene	EPA-8260	U	UG/L	2.0	03/14/2023	DLC	

U - Analyte analyzed for but not detected at level above reporting limit.

MB-031623W - Batch 190960 - Water by EPA-8270

				REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	UG/L	3.2	03/16/2023	DBA

U - Analyte analyzed for but not detected at level above reporting limit.

MB-031123W - Batch 190814 - Water by EPA-200.8

				REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY
Arsenic (Dissolved)	EPA-200.8	U	UG/L	1.0	03/13/2023	RAL
Copper (Dissolved)	EPA-200.8	U	UG/L	2.0	03/13/2023	RAL

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: Landau Associates, Inc.

DATE: 3/27/2023 155 NE 100th St, Ste 302 ALS SDG#: EV23030073

Seattle, WA 98125

WDOE ACCREDITATION: C601

Dylan Frazer **CLIENT CONTACT:**

CLIENT PROJECT: Ameron / 147029.510

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 190976 - Water by NWTPH-DX

				LIIV	LIMITS		ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
TPH-Diesel Range (C12-C24) - BS	NWTPH-DX	95.3		67	125.2	03/24/2023	DHM
TPH-Diesel Range (C12-C24) - BSD	NWTPH-DX	93.9	2	67	125.2	03/24/2023	DHM

ALS Test Batch ID: 190835 - Water by EPA-8260

				LIM	115	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
1,1-Dichloroethene - BS	EPA-8260	104		72.5	136	03/14/2023	DLC
1,1-Dichloroethene - BSD	EPA-8260	97.4	7	72.5	136	03/14/2023	DLC

ALS Test Batch ID: 190960 - Water by EPA-8270

			LIM	ITS	ANALYSIS	ANALYSIS BY	
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
Bis(2-Ethylhexyl)Phthalate - BS	EPA-8270	89.8		20	150	03/16/2023	DBA
Bis(2-Ethylhexyl)Phthalate - BSD	EPA-8270	90.4	1	20	150	03/16/2023	DBA

ALS Test Batch ID: 190814 - Water by EPA-200.8

				LIMITS		ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
Arsenic (Dissolved) - BS	EPA-200.8	96.1		89.1	110	03/13/2023	RAL
Arsenic (Dissolved) - BSD	EPA-200.8	96.1	0	89.1	110	03/13/2023	RAL
Copper (Dissolved) - BS	EPA-200.8	103		85.4	109	03/13/2023	RAL
Copper (Dissolved) - BSD	EPA-200.8	101	2	85.4	109	03/13/2023	RAL

APPROVED BY

Rob Greer Laboratory Director

Shipment Method: Clap of and withrost Dissolved metal samples were field filtered Special Handling Requirements: Ex 23030073 Allow water samples to settle, collect aliquot from clear portion \square 1:1-1-15C Observations/Comments NWTPH-Dx - Acid wash cleanup - Silica gel cleanup 00 23 Stored on ice: Time Accelerated Standard 3 2303 SGI Received by Printed Name 0 Signature 1 Other Company Date of **Pasting Parameters** Date 3/ Page | Portland (503) 542-1080 Spokane (509) 327-9737 Relinquished by Printed Name Signature Company YELLOW COPY - Project File X Project Location/Event North Haviry Andray Hulbay GIM QI March 2023 North Seattle (206) 631-8660
Tacoma (253) 926-2493 4 2 0 Frazer, Devan Brandt, Elix Grand Olympia (360) 791-3178 17:51 Matrix Containers 000 I Time WHITE COPY - Laboratory Sampler's Name Lalpana Prasad and Adam 3/10/2013 Doran Brand Chain-of-Custody Project No. Printed Name 170 5HS Received by 0 0 エエア 659 Time 25 1557 6415 38 Signature Company _ Date_ 10/23 3/4/23 Date 3/9/23 Julan Frazar, alpana Trasau Record 3-230309 Company Landay Associal -30809 3-230300 -230309 -MW-7-230309 -MW-6-220309 AMERON -3-230309 0300 DUP-2-23030 CM Send Results To Wildy -230300 Sample I.D. LANDAU
ASSOCIATES Project Contact 7-MM-Project Name MW-4 Relinquished by Printed Name 20 Signature _ CNT

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PINK COPY - Client Representative

ALS ENVIRONMENTAL Sample Receiving Checklist

Client: LANDAV	ALS Job #:	FURS	0300	73
Project: MERON / PORT OF EVOLET		,		
Received Date: 3/10/23 Received Time: 14!	55	Ву:	RF	
Type of shipping container: Cooler Box	Other			
Shipped via: FedEx Ground UPS Mail FedEx Express	Courier	На	and Deliv	-
Were custody seals on outside of shipping container? If yes, how many? Where? Custody seal date: Seal name:		<u>Yes</u>	No/	<u>N/A</u>
Was Chain of Custody properly filled out (ink, signed, dated, e	etc.)?	<u>\</u>		
Did all bottles have labels?		<u> </u>		
Did all bottle labels and tags agree with Chain of Custody?		4		- sonen
Were samples received within hold time?				
Did all bottles arrive in good condition (unbroken, etc.)?				
Was sufficient amount of sample sent for the tests indicated?		_/		
Was correct preservation added to samples?				
If no, Sample Control added preservative to the following: Sample Number Reagent Analyte ———————————————————————————————————		/		
Were VOA vials checked for absence of air bubbles? Bubbles present in sample #:				
Temperature of cooler upon receipt: $\frac{3}{2}$ $\frac{2^{\circ}}{2}$ $\frac{3}{2}$ $\frac{3^{\circ}}{2}$	Cold Cool	Ambie	nt N/A	A
Explain any discrepancies:				
Was client contacted? Who was called?				