

Appendix G-4

Division A1 Delineation and Sampling Report

MEMORANDUM

TO: Mr. Wade Melton, Remediation Management Services Company

FROM: Garrett Crowe, Antea Group

CC: Noel Russ, Antea Group
Christopher Meyer, Antea Group

DATE: March 12, 2024

SUBJECT: Soil Excavation and Soil Sampling Summary
OPLC MP 46 Release - Conway, Washington

INTRODUCTION

The purpose of this memorandum is to briefly describe the background and Antea Group's involvement in the source removal excavation process following the gasoline release located at WA-534, Mount Vernon, WA 98274, near pipeline milepost 46, hereafter referred to as the Site. The process included soil screening, sampling protocols, and analytical testing parameters, intended to verify the effectiveness of source removal for the Olympic Pipe Line Company (OPLC) MP 46 release.

Approximately 25,000 gallons of gasoline was released at the Site, originating from the OPLC pipeline block valve containment vault and migrated on the surface downslope through a grassy area and a tree windbreak to the Hill Ditch irrigation canal.

On behalf of U.S. Pipeline (USPL), Antea Group's services were obtained to delineate the extent of the petroleum-contaminated soils (PCS) impacted by the release and collect confirmation soil samples following over-excavation of the area designated during response activities in A-1, depicted in **Figure 1**.

SOIL SAMPLING SUPPORT

From December 14 to 18, 2023, prior to over-excavation activities, Antea Group delineated gasoline impacts in A-1 by installing shallow soil borings and test pits using hand tools, and screening soil samples from these locations using a photoionization detector (PID). The delineation process included 67 staked locations at depths varying from 0 to 18 inches below ground surface (bgs). The environmental consulting firm, CTEH, collected GPS coordinates for each staked location. The field delineation assessment data and exposed soils in sidewalls of the shallow trenches used for water and product removal indicated that the spill pathway is underlain by clay. These soils appeared to have limited the extent of vertical migration of gasoline.

From December 19 to 27, 2023, gasoline impacted soils in the area of A-1 were excavated to limits defined by field PID screening and confirmed by soil sample analytical results from a Washington State Department of Ecology Certified Laboratory. The limits of excavation were based on PID screening levels less than 300 parts per

million (ppm). One soil sample was collected from each sidewall and two representative soil samples were collected from the bottom of the excavation for each 25 linear foot section of excavation to confirm concentrations of petroleum hydrocarbon compounds. Each soil sample for volatile organic analyses was collected in accordance with EPA Sampling Method 5035A using Terracores™ and was submitted to ALS Environmental in Everett, WA for analyses of: Total Petroleum Hydrocarbons (TPH) as gasoline by method NWTPH-Gx; and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260. A rush turn-around time of 24 hours was requested from the lab. Laboratory Analytical Reports are included in **Appendix A**. The initial excavated area from the OPLC pipeline valve containment vault to the tree windbreak line, the area of A-1, contained 25 bottom and 31 sidewall soil sample locations. The sidewall samples were collected at 12 and 24 inches bgs. The bottom samples were collected at 24 inches bgs. CTEH conducted air monitoring while soil samples were collected in the excavation pit and collected GPS coordinates for each sample location.

Antea Group compared the soil analytical data collected from soil sampling activities between December 19 and 27, 2023, to Washington State Department of Ecology's (Ecology) Model Toxics Control Act (MTCA) Method A Cleanup Levels. Antea Group determined that additional over-excavation activities would be necessary in certain portions of the area A-1 excavation. From January 5 to 29, 2024, Antea Group provided guidance for areas in need of additional over-excavation. Over-excavation activities included 21 bottom sample locations collected between 30 and 90 inches bgs and 16 sidewall sample locations collected between 12 and 47 inches bgs.

Six confirmatory endpoint soil sample locations, B-21 90" bgs, SW-N-1B 12" bgs, SW-S-1 12" bgs, SW-N-2 24" bgs, SW-E-3 12" and 24" bgs, and SW-E-4C 12" and 36" bgs, contained one or more analytical parameters above MTCA Method A Cleanup Levels. The B-21 and SW-N-2 sample locations both contained slight exceedance for benzene above MTCA Method A Cleanup Levels, 0.047 mg/kg and 0.21 mg/kg respectively, and were subsequently not over-excavated. The SW-E-4C and SW-S-1 sample locations could not be over-excavated due to the proximity of the nearby cathodic protection of the pipeline block valve. The SW-N-1B sample location could not be over excavated due to the proximity of the underground gas lines. The SW-E-3 sample location was a sidewall sample and was over-excavated. Nearby sample locations of B-4, B-17, SW-S-2, and SW-S-9 represent clean bottom and sidewall sample locations in the area of SW-E-3. The remaining confirmation endpoint samples were all below MTCA Method A Cleanup Levels and no further over-excavation was pursued. The excavated PCS was loaded directly into trucks and transported off-site to a licensed waste disposal facility in accordance with all applicable local, state, and federal regulations. Confirmation soil sample locations are depicted in **Figure 1** and soil sample analytical results are summarized in **Table 1**.

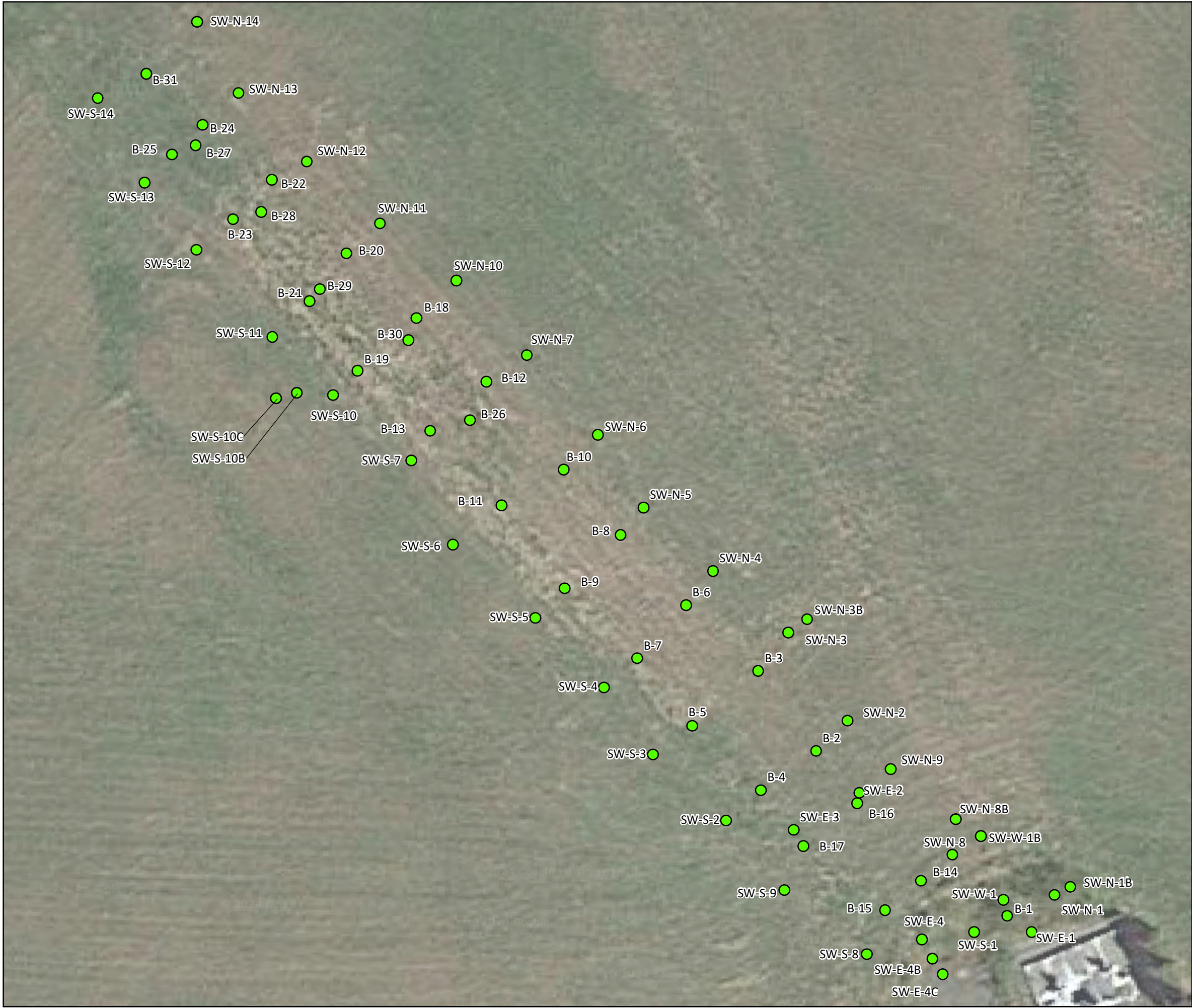
CONTACT INFORMATION

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Enclosure: Table 1 – Soil Analytical Table
Figure 1 - Sample Locations
Appendix A - Analytical Lab Reports and Chain-of-Custody Documentation CONWAY

Figure



Legend
● Sample Location

Locations tested for Benzene, Toluene, Ethylbenzene, Xylenes, and Gasoline Range Organics

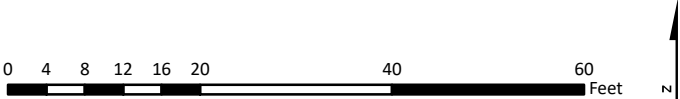


FIGURE 1
SAMPLE LOCATIONS
USPL OLYMPIC MOUNT VERNON RELEASE
MOUNT VERNON, WASHINGTON

PROJECT NO. USPL	PREPARED BY SAA	REF SCALE 1:240	
DATE 2/2/2024	REVIEWED BY MR	MAP SCALE 1 INCH = 20 FEET	

Table

TABLE 1
SOIL ANALYTICAL DATA
OPLC MP 46 Release - Conway, Washington

Sample ID	Date	Sample Depth (in)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (Total) (mg/kg)	Total Petroleum Hydrocarbons as Gasoline (mg/kg)
WA - MTCA Method A Cleanup Levels SOIL			0.03	7	6	9	30
B-1	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	17
B-2	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-3	12/19/2023	24	0.55	5.2	0.3	1.48	24
B-3	1/29/2024	36	< 0.018	< 0.011	< 0.015	< 0.049	< 3.0
B-4	12/19/2023	24	0.72	3	< 0.01	0.042	12
B-4	1/23/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-5	12/20/2023	24	0.026	0.055	< 0.01	< 0.03	4.1
B-6	12/20/2023	24	0.04	1.8	0.022	0.112	9.4
B-6	1/19/2024	30	< 0.0050	0.028	< 0.01	0.01	< 3.0
B-7	12/20/2023	24	< 0.0050	0.01	< 0.01	< 0.03	< 3.0
B-8	12/20/2023	24	0.045	2.1	0.043	1.25	12
B-8	1/24/2024	36	< 0.0050	0.013	< 0.01	0.014	< 3.0
B-9	12/20/2023	24	0.06	1.6	< 0.01	< 0.03	6.2
B-9	1/24/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-10	12/21/2023	24	0.019	0.66	0.1	0.53	7.6
B-11	12/21/2023	24	0.034	3.5	0.016	0.114	21
B-11	1/24/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-12	12/27/2023	24	2.1 E2	7.7 E2	0.97 E2	2.78 E2	9,200
B-12	1/5/2024	47	0.0073	0.37	0.014	0.079	5.9
B-12	1/10/2024	72	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-13	12/27/2023	24	< 0.0050	0.1	< 0.01	0.019	13
B-14	12/21/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-15	12/21/2023	24	2.9	27	5.1	28.9	440
B-15	1/23/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-16	12/21/2023	24	0.0066	0.015	< 0.01	< 0.03	< 3.0
B-17	12/21/2023	24	0.021	2.2	< 0.01	0.062	12
B-18	12/27/2023	24	0.055	0.34	0.035	0.155	20
B-18	1/16/2024	72	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-19	12/27/2023	24	1 E2	3.6 E2	0.68 E2	2.27 E2	3,200
B-19	1/5/2024	47	26	860	170	860	10,000
B-19	1/16/2024	84	0.0091	0.046	< 0.01	< 0.03	< 3.0
B-20	12/27/2023	24	10	680 E	140	700	9,000
B-20	1/5/2024	47	3.8	170	46	180	2,700
B-20	1/16/2024	72	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-21	12/27/2023	24	11	350	89	460	6,100
B-21	1/16/2024	84	0.053	0.47	0.031	0.152	3.3
B-21	1/19/2024	90	0.047	0.4	< 0.01	< 0.03	< 3.0
B-22	12/27/2023	24	6.7	230 E	51	262	3,600
B-22	1/5/2024	47	5.6	200	46	235	2,600
B-22	1/19/2024	72	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-23	12/27/2023	24	0.37	11	0.57	5.4	50
B-23	1/25/2024	36	< 0.038	0.74	0.11	1.75	20
B-24	12/27/2023	24	2.1	85	25	132	2,100
B-24	1/5/2024	47	0.25	19	14	86	1,200
B-24	1/19/2024	72	< 0.0050	0.012	< 0.01	< 0.03	< 3.0
B-25	12/27/2023	24	0.008	0.047	< 0.01	0.018	13
B-26	1/5/2024	47	2.3	130	51	279	3,500
B-26	1/10/2024	72	< 0.0050	0.017	< 0.01	< 0.03	< 3.0
B-27	1/5/2024	47	1.8	31	6.3	35	510
B-27	1/19/2024	72	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-28	1/5/2024	47	1.4	26	4	22.3	220
B-28	1/19/2024	72	0.017	0.034	< 0.01	0.035	< 3.0
B-29	1/5/2024	47	25	790	180	940	11,000
B-29	1/16/2024	84	0.028	0.44	0.03	0.138	< 3.0
B-30	1/5/2024	47	9.8	450	100	520	6,100
B-30	1/16/2024	84	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-31	1/19/2024	84	0.023	0.052	< 0.01	< 0.03	< 3.0
SW-N-1	12/19/2023	12	1.2	17	1.4	8.3	110
SW-N-1	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 5.0
SW-N-1B	1/29/2024	12	< 0.019	1.4	0.073	12.8	110
SW-E-1	12/19/2023	12	0.012	0.23	< 0.01	0.021	< 3.0
SW-E-1	12/19/2023	24	0.0085	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-1	12/19/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	54
SW-S-1	12/19/2023	24	0.0062	0.28	0.012	0.067	8.2
SW-W-1	12/19/2023	12	1	1.7	< 0.01	0.041	6.6
SW-W-1B	1/23/2024	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-W-1B	1/23/2024	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-2	12/19/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-2	12/19/2023	24	0.21	1.7	< 0.01	0.011	6.8
SW-E-2	12/19/2023	12	0.022	0.077	< 0.01	< 0.03	< 3.0
SW-E-2	12/19/2023	24	< 0.0050	< 0.01	< 0.01	0.027	< 3.0
SW-S-2	12/19/2023	12	< 0.0050	0.017	< 0.01	< 0.03	< 3.0
SW-S-2	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-3	12/19/2023	12	0.024	2.5	0.024	0.62	13
SW-N-3	12/19/2023	24	0.23	3	0.17	1.11	17
SW-N-3B	1/29/2024	12	< 0.027	< 0.016	< 0.023	< 0.072	< 3.0
SW-N-3B	1/29/2024	24	< 0.017	< 0.01	< 0.014	< 0.046	< 3.0
SW-E-3	12/19/2023	12	0.0068	3.5	0.39	4.1	44
SW-E-3	12/19/2023	24	0.55	12	2.6	15.4	170
SW-S-3	12/20/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-3	12/20/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0

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B-3	12/19/2023	24	0.55	5.2	0.3	1.48	24
B-3	1/29/2024	36	< 0.018	< 0.011	< 0.015	< 0.049	< 3.0
B-4	12/19/2023	24	0.72	3	< 0.01	0.042	12
B-4	1/23/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-5	12/20/2023	24	0.026	0.055	< 0.01	< 0.03	4.1
B-6	12/20/2023	24	0.04	1.8	0.022	0.112	9.4
B-6	1/19/2024	30	< 0.0050	0.028	< 0.01	0.01	< 3.0
B-7	12/20/2023	24	< 0.0050	0.01	< 0.01	< 0.03	< 3.0
B-8	12/20/2023	24	0.045	2.1	0.043	1.25	12
B-8	1/24/2024	36	< 0.0050	0.013	< 0.01	0.014	< 3.0
SW-N-4	12/20/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-4	12/20/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-E-4	12/27/2023	12	5.4	370 E	83	400 E	5,700
SW-E-4	12/27/2023	24	1.8	110	29	150	1,800
SW-E-4B	1/23/2024	12	0.028	4.4	2.7	34	390
SW-E-4B	1/23/2024	24	0.14	5.2	0.16	3.4	35
SW-E-4C	1/29/2024	12	0.33	18	3.6	33	300
SW-E-4C	1/29/2024	24	< 0.023	0.055	< 0.019	0.154	< 3.0
SW-E-4C	1/29/2024	36	0.24	0.014	0.053	< 0.058	91
SW-S-4	12/20/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-4	12/20/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-5	12/20/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-5	12/20/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-5	12/20/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-5	12/20/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-6	12/21/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-6	12/21/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-6	12/21/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-6	12/21/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-7	12/27/2023	12	< 0.0050	< 0.01	< 0.01	0.053	10
SW-N-7	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-7	1/5/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-7	1/10/2024	47	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-7	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	6.4
SW-S-7	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-8	12/21/2023	12	0.77	6.6	0.28	0.9	30
SW-N-8	12/21/2023	24	< 0.0050	0.013	< 0.01	< 0.03	< 3.0
SW-N-8B	1/23/2024	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-8	12/21/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-8	12/21/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-9	12/21/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-9	12/21/2023	24	0.011	0.49	< 0.01	0.034	< 3.0
SW-S-9	12/21/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-9	12/21/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-10	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-10	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-10	1/16/2024	47	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-10	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	23
SW-S-10	12/27/2023	24	0.3 E2	0.98 E2	0.68 E2	2.53 E2	460
SW-S-10	1/5/2024	47	< 0.021	0.64	0.16	0.93	13
SW-S-10	1/16/2024	47	< 0.0050	0.018	< 0.01	0.011	< 3.0
SW-S-10B	1/16/2024	24	0.25	7.3	1	5.1	67
SW-S-10C	1/19/2024	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-11	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-11	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-11	1/5/2024	47	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-11	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-11	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-12	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	5.3
SW-N-12	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-12	1/5/2024	47	< 0.0050	0.02	< 0.01	< 0.03	< 3.0
SW-S-12	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-12	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-13	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	3.9
SW-N-13	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-13	1/5/2024	47	< 0.0050	0.014	< 0.01	< 0.03	< 3.0
SW-S-13	12/27/2023	12	< 0.0050	0.018	< 0.01	0.043	10
SW-S-13	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-14	1/19/2024	47	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-14	1/19/2024	47	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0

Notes:

Results in bold exceed MTCA action limit

(mg/kg) = milligrams/kilograms

in = Inches

-- = No information

ND = Not detected

< = Not detected at or above indicated laboratory reporting limit

E = Reported result is an estimate because it exceeds the calibration range.

E2 = Reported result is an estimate because it exceeds the calibration range. The actual value for this analyte may be much higher than reported. Resampling and reanalysis is recommended.

Appendix A – Laboratory Analytical Reports



January 30, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 29th, 7 samples were received by our laboratory and assigned our laboratory project number EV24010184. The project was identified as your MP-46. 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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS JOB#:	EV24010184
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010184-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/29/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/29/2024 9:50:00 AM
CLIENT SAMPLE ID	B-3_36_20240129	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2024	MNC
Benzene	EPA-8260	U	18	1	UG/KG	01/30/2024	DLC
Toluene	EPA-8260	U	11	1	UG/KG	01/30/2024	DLC
Ethylbenzene	EPA-8260	U	15	1	UG/KG	01/30/2024	DLC
m,p-Xylene	EPA-8260	U	30	1	UG/KG	01/30/2024	DLC
o-Xylene	EPA-8260	U	19	1	UG/KG	01/30/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	71.4	01/30/2024	MNC
Toluene-d8	EPA-8260	101	01/30/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS JOB#:	EV24010184
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010184-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/29/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/29/2024 10:00:00 AM
CLIENT SAMPLE ID	SW-N-3b-12_20240129	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2024	MNC
Benzene	EPA-8260	U	27	1	UG/KG	01/30/2024	DLC
Toluene	EPA-8260	U	16	1	UG/KG	01/30/2024	DLC
Ethylbenzene	EPA-8260	U	23	1	UG/KG	01/30/2024	DLC
m,p-Xylene	EPA-8260	U	44	1	UG/KG	01/30/2024	DLC
o-Xylene	EPA-8260	U	28	1	UG/KG	01/30/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	81.1	01/30/2024	MNC
Toluene-d8	EPA-8260	102	01/30/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS JOB#:	EV24010184
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010184-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/29/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/29/2024 10:05:00 AM
CLIENT SAMPLE ID	SW-N-3b-24_20240129	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2024	MNC
Benzene	EPA-8260	U	17	1	UG/KG	01/30/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/30/2024	DLC
Ethylbenzene	EPA-8260	U	14	1	UG/KG	01/30/2024	DLC
m,p-Xylene	EPA-8260	U	28	1	UG/KG	01/30/2024	DLC
o-Xylene	EPA-8260	U	18	1	UG/KG	01/30/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	87.9	01/30/2024	MNC
Toluene-d8	EPA-8260	101	01/30/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS JOB#:	EV24010184
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010184-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/29/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/29/2024 10:10:00 AM
CLIENT SAMPLE ID	SW-N-1b-12_20240129	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	110	30	10	MG/KG	01/30/2024	MNC
Benzene	EPA-8260	U	19	1	UG/KG	01/30/2024	DLC
Toluene	EPA-8260	1400	11	1	UG/KG	01/30/2024	DLC
Ethylbenzene	EPA-8260	73	16	1	UG/KG	01/30/2024	DLC
m,p-Xylene	EPA-8260	8500	320	10	UG/KG	01/30/2024	DLC
o-Xylene	EPA-8260	4300	200	10	UG/KG	01/30/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	79.5	01/30/2024	MNC
Toluene-d8	EPA-8260	109	01/30/2024	DLC
Toluene-d8 10X Dilution	EPA-8260	103	01/30/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS JOB#:	EV24010184
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010184-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/29/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/29/2024 10:20:00 AM
CLIENT SAMPLE ID	SW-E-4c_12_20240129	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	300	30	10	MG/KG	01/30/2024	MNC
Benzene	EPA-8260	330	18	1	UG/KG	01/30/2024	DLC
Toluene	EPA-8260	18000	110	10	UG/KG	01/30/2024	DLC
Ethylbenzene	EPA-8260	3600	150	10	UG/KG	01/30/2024	DLC
m,p-Xylene	EPA-8260	23000	290	10	UG/KG	01/30/2024	DLC
o-Xylene	EPA-8260	10000	180	10	UG/KG	01/30/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	107	01/30/2024	MNC
Toluene-d8	EPA-8260	86.9	01/30/2024	DLC
Toluene-d8 10X Dilution	EPA-8260	102	01/30/2024	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS JOB#:	EV24010184
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010184-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/29/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/29/2024 10:25:00 AM
CLIENT SAMPLE ID	SW-E-4c_24	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2024	MNC
Benzene	EPA-8260	U	23	1	UG/KG	01/30/2024	DLC
Toluene	EPA-8260	55	14	1	UG/KG	01/30/2024	DLC
Ethylbenzene	EPA-8260	U	19	1	UG/KG	01/30/2024	DLC
m,p-Xylene	EPA-8260	110	38	1	UG/KG	01/30/2024	DLC
o-Xylene	EPA-8260	44	24	1	UG/KG	01/30/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	78.8	01/30/2024	MNC
Toluene-d8	EPA-8260	101	01/30/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS JOB#:	EV24010184
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010184-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/29/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/29/2024 10:30:00 AM
CLIENT SAMPLE ID	SW-E-4c_36_20240129	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	91	3.0	1	MG/KG	01/30/2024	MNC
Benzene	EPA-8260	240	22	1	UG/KG	01/30/2024	DLC
Toluene	EPA-8260	14	13	1	UG/KG	01/30/2024	DLC
Ethylbenzene	EPA-8260	53	18	1	UG/KG	01/30/2024	DLC
m,p-Xylene	EPA-8260	U	36	1	UG/KG	01/30/2024	DLC
o-Xylene	EPA-8260	U	22	1	UG/KG	01/30/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	85.5	01/30/2024	MNC
Toluene-d8	EPA-8260	95.7	01/30/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
 Chromatogram indicates that it is likely that sample contains weathered gasoline.
 Gasoline range product results biased high due to semivolatile range product overlap.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/30/2024
ALS SDG#: EV24010184
WDOE ACCREDITATION: C601

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY BLANK RESULTS

MBG-012924S - Batch 206680 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	01/29/2024	MNC

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

MB-012924S2 - Batch 206698 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	01/29/2024	DLC
Toluene	EPA-8260	U	UG/KG	10	01/29/2024	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	01/29/2024	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	01/29/2024	DLC
o-Xylene	EPA-8260	U	UG/KG	10	01/29/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS SDG#:	EV24010184
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 206680 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	89.9			66.5	122.7	01/30/2024	MNC
TPH-Volatile Range - BSD	NWTPH-GX	96.6	7		66.5	122.7	01/30/2024	MNC

ALS Test Batch ID: 206698 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	96.3			75	138	01/29/2024	DLC
Benzene - BSD	EPA-8260	101	5		75	138	01/29/2024	DLC
Toluene - BS	EPA-8260	98.0			71.6	122.1	01/29/2024	DLC
Toluene - BSD	EPA-8260	103	5		71.6	122.1	01/29/2024	DLC
Ethylbenzene - BS	EPA-8260	95.4			50	150	01/29/2024	DLC
Ethylbenzene - BSD	EPA-8260	101	6		50	150	01/29/2024	DLC
m,p-Xylene - BS	EPA-8260	95.1			50	150	01/29/2024	DLC
m,p-Xylene - BSD	EPA-8260	101	6		50	150	01/29/2024	DLC
o-Xylene - BS	EPA-8260	95.3			50	150	01/29/2024	DLC
o-Xylene - BSD	EPA-8260	100	5		50	150	01/29/2024	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV24010184

Date 1/29/24 Page 1 Of 1

PROJECT ID: MP-46					ANALYSIS REQUESTED															OTHER (Specify)								
REPORT TO COMPANY: Antea Group					NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	TAL	RCRA-8	Pri Pol	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
PROJECT MANAGER: Megan Richard																												
ADDRESS: 18378-B Redmond Way																												
Redmond, WA																												
PHONE: 206-854-0399 P.O. #:																												
E-MAIL: Megan.Richard@anteagroup.us																												
INVOICE TO COMPANY: Same as above																												
ATTENTION: Digital Solutions, Equis, Antea Group, US																												
ADDRESS: Same as above																												
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																								
1. B-3-36-20240129	1/29/24	9:50	Soil	1			X	X																				
2. SW-N-36-12-20240129	1/29/24	10:00	Soil	2			X	X																				
3. SW-N-36-24-20240129	1/29/24	10:05	Soil	3			X	X																				
4. SW-N-16-12-20240129	1/29/24	10:10	Soil	4			X	X																				
5. SW-E-4c-12-20240129	1/29/24	10:20	Soil	5			X	X																				
6. SW-E-4c-24	1/29/24	10:25	Soil	6			X	X																				
7. SW-E-4c-36-20240129	1/29/24	10:30	Soil	7			X	X																				
8.																												
9.																												
10.																												

SPECIAL INSTRUCTIONS Sample #4 is "one B" 16, NOT "16"

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Mariah Murphy Antea Group 12:15 1/29/24

Received By: ALSE 1/29/24 1220

2. Relinquished By:

Received By:

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis

10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

OTHER: Specify: 24 HR TAT

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Antea Group ALS Job#: EV24010184

Project: MP-46

Login Date: 1/29/24 Login Time: 1220 Login By: CE

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

Yes No N/A

Were custody seals on outside of shipping container?

If yes, how many? Where?

Custody seal date: Seal name:

 X

Was Chain of Custody properly filled out (ink, signed, dated, etc.)?

X

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.)?

X

Was sufficient amount of sample sent for the tests indicated?

X

Was correct preservation added to samples?

X

Subcontract test containers added to Subcontract Bin?

 X

Wetchem test containers marked with required Tests?

 X

Short hold time test containers delivered to analysts?

 X

Were VOA vials checked for absence of air bubbles?

 X

Bubbles present in sample #:

5035A kits received?
Low Kits:

High Kits: 7

X
sodium bisulfates

5035A kits returned?

Low Kits:

High Kits:

Temperature of cooler upon receipt: 12.9°C On ice? X

Explain any discrepancies: trip blank not added to chain. Received 1. labelled Sample #8

Was client contacted? Who was called? By whom? Date:

Outcome of call:



January 25, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 24th, 3 samples were received by our laboratory and assigned our laboratory project number EV24010144. The project was identified as your MP-46. 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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/25/2024
	18378-B Redmond Way	ALS JOB#:	EV24010144
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010144-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/24/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/24/2024 12:20:00 PM
CLIENT SAMPLE ID	B-8_36_20240124	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/25/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/25/2024	DLC
Toluene	EPA-8260	13	10	1	UG/KG	01/25/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/25/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/25/2024	DLC
o-Xylene	EPA-8260	14	10	1	UG/KG	01/25/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	70.9	01/25/2024	MNC
Toluene-d8	EPA-8260	100	01/25/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/25/2024
	18378-B Redmond Way	ALS JOB#:	EV24010144
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010144-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/24/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/24/2024 12:09:00 PM
CLIENT SAMPLE ID	B-9_36_20240124	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/25/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/25/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/25/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/25/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/25/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/25/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	65.6	01/25/2024	MNC
Toluene-d8	EPA-8260	101	01/25/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/25/2024
	18378-B Redmond Way	ALS JOB#:	EV24010144
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010144-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/24/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/24/2024 12:00:00 PM
CLIENT SAMPLE ID	B-11_36_20240124	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/25/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/25/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/25/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/25/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/25/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/25/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	76.1	01/25/2024	MNC
Toluene-d8	EPA-8260	100	01/25/2024	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/25/2024
ALS SDG#: EV24010144
WDOE ACCREDITATION: C601

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY BLANK RESULTS

MBG-012524S - Batch 206473 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	01/25/2024	MNC

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

MB-012524S - Batch 206462 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	01/25/2024	DLC
Toluene	EPA-8260	U	UG/KG	10	01/25/2024	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	01/25/2024	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	01/25/2024	DLC
o-Xylene	EPA-8260	U	UG/KG	10	01/25/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/25/2024
	18378-B Redmond Way	ALS SDG#:	EV24010144
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 206473 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	106			66.5	122.7	01/25/2024	MNC
TPH-Volatile Range - BSD	NWTPH-GX	105	1		66.5	122.7	01/25/2024	MNC

ALS Test Batch ID: 206462 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	90.3			75	138	01/25/2024	DLC
Benzene - BSD	EPA-8260	89.6	1		75	138	01/25/2024	DLC
Toluene - BS	EPA-8260	92.2			71.6	122.1	01/25/2024	DLC
Toluene - BSD	EPA-8260	91.2	1		71.6	122.1	01/25/2024	DLC
Ethylbenzene - BS	EPA-8260	91.6			50	150	01/25/2024	DLC
Ethylbenzene - BSD	EPA-8260	91.0	1		50	150	01/25/2024	DLC
m,p-Xylene - BS	EPA-8260	91.2			50	150	01/25/2024	DLC
m,p-Xylene - BSD	EPA-8260	90.7	1		50	150	01/25/2024	DLC
o-Xylene - BS	EPA-8260	92.3			50	150	01/25/2024	DLC
o-Xylene - BSD	EPA-8260	92.8	1		50	150	01/25/2024	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV24010144

Date _____ Page _____ Of _____

PROJECT ID: <u>MP-46</u>					ANALYSIS REQUESTED														OTHER (Specify)									
REPORT TO COMPANY: <u>Antea Group</u>					NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	Metals-MTCA-5	RCRA-8	Pri Pol	TAL	Metals Other (Specify)	TCPLP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?
PROJECT MANAGER: <u>Megan Richard</u>																												
ADDRESS: <u>18378-B Redmond Way</u>																												
<u>Redmond, WA</u>																												
PHONE: <u>206, 854, 0399</u> P.O. #:																												
E-MAIL: <u>Megan.richard@anteagroup.us</u>																												
INVOICE TO COMPANY: <u>same as above</u>																												
ATTENTION: <u>Digital Solutions, ED@ALS@anteagroup.us</u>																												
ADDRESS: <u>same as above</u>																												
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																								
1. <u>B-8-36-20240124</u>	<u>1/24/24</u>	<u>1220</u>	<u>S</u>	<u>1</u>			X	X																				
2. <u>B-9-36-20240124</u>	<u>1/24/24</u>	<u>1209</u>	<u>S</u>	<u>2</u>			X	X																				
3. <u>B-11-36-20240124</u>	<u>1/24/24</u>	<u>1200</u>	<u>S</u>	<u>3</u>			X	X																				
4.																												
5.																												
6.																												
7.																												
8.																												
9.																												
10.																												

SPECIAL INSTRUCTIONS

★ HOLD ALL 3 Samples ★ 1/25/24 - Ezra removed hold on all samples. S

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Ezra Coyne, Antea Group, 1/24/24, 1415
Received By: ALS 1/24/24 1415
2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

OTHER:

Specify: _____

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Antea ALS Job#: EV24010144

Project: MP-46

Login Date: 1/24/24 Login Time: 1415 Login By: ce

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

	Yes	No	N/A
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?	☒		
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.)?	☒		
Was sufficient amount of sample sent for the tests indicated?	☒		
Was correct preservation added to samples?	☒		
Subcontract test containers added to Subcontract Bin?			☒
Wetchem test containers marked with required Tests?			☒
Short hold time test containers delivered to analysts?			☒
Were VOA vials checked for absence of air bubbles?			☒
Bubbles present in sample #: _____			

5035A kits received? 3 # Low Kits: 3 # High Kits: 175 ^{cc} ☒

5035A kits returned? Sodium # Low Kits: _____ # High Kits: _____

Temperature of cooler upon receipt: 12.9° On ice? ☒

Explain any discrepancies: Samples on Hold

Was client contacted? _____ Who was called? _____ By whom? _____ Date: _____

Outcome of call: _____



January 24, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 23rd, 8 samples were received by our laboratory and assigned our laboratory project number EV24010127. The project was identified as your MP-46. 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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS JOB#:	EV24010127
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010127-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/23/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/23/2024 2:58:00 PM
CLIENT SAMPLE ID	B-4_36_20240123	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/24/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/24/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/24/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.0	01/24/2024	MNC
Toluene-d8	EPA-8260	100	01/24/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS JOB#:	EV24010127
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010127-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/23/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/23/2024 2:52:00 PM
CLIENT SAMPLE ID	B-15_36_20240123	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/24/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/24/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/24/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	78.0	01/24/2024	MNC
Toluene-d8	EPA-8260	100	01/24/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS JOB#:	EV24010127
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010127-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/23/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/23/2024 2:45:00 PM
CLIENT SAMPLE ID	SW-E-4b_12_20240123	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	390	30	10	MG/KG	01/24/2024	MNC
Benzene	EPA-8260	28	22	1	UG/KG	01/24/2024	DLC
Toluene	EPA-8260	4400	130	10	UG/KG	01/24/2024	DLC
Ethylbenzene	EPA-8260	2700	19	1	UG/KG	01/24/2024	DLC
m,p-Xylene	EPA-8260	22000	370	10	UG/KG	01/24/2024	DLC
o-Xylene	EPA-8260	12000	230	10	UG/KG	01/24/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	47.9 SUR12	01/24/2024	MNC
Toluene-d8 10X Dilution	EPA-8260	101	01/24/2024	DLC
Toluene-d8	EPA-8260	95.9	01/24/2024	DLC

SUR12 -Surrogate recoveries were outside of the control limits due to matrix interference. Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS JOB#:	EV24010127
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010127-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/23/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/23/2024 2:48:00 PM
CLIENT SAMPLE ID	SW-E-4b_24_20240123	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	35	3.0	1	MG/KG	01/24/2024	MNC
Benzene	EPA-8260	140	23	1	UG/KG	01/24/2024	DLC
Toluene	EPA-8260	5200	140	10	UG/KG	01/24/2024	DLC
Ethylbenzene	EPA-8260	160	19	1	UG/KG	01/24/2024	DLC
m,p-Xylene	EPA-8260	1800	38	1	UG/KG	01/24/2024	DLC
o-Xylene	EPA-8260	1600	24	1	UG/KG	01/24/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	99.7	01/24/2024	MNC
Toluene-d8	EPA-8260	103	01/24/2024	DLC
Toluene-d8 10X Dilution	EPA-8260	102	01/24/2024	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS JOB#:	EV24010127
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010127-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/23/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/23/2024 2:33:00 PM
CLIENT SAMPLE ID	SW-W-1b_12_20240123	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/24/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/24/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/24/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	81.8	01/24/2024	MNC
Toluene-d8	EPA-8260	102	01/24/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS JOB#:	EV24010127
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010127-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/23/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/23/2024 2:35:00 PM
CLIENT SAMPLE ID	SW-W-1b_24_20240123	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/24/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/24/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/24/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	85.8	01/24/2024	MNC
Toluene-d8	EPA-8260	108	01/24/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS JOB#:	EV24010127
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010127-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/23/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/23/2024 2:25:00 PM
CLIENT SAMPLE ID	SW-N-8b_12_20240123	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/24/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/24/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/24/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	79.9	01/24/2024	MNC
Toluene-d8	EPA-8260	105	01/24/2024	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/24/2024
ALS SDG#: EV24010127
WDOE ACCREDITATION: C601
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY BLANK RESULTS

MBG-012324S2 - Batch 206378 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	01/24/2024	MNC

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

MB-012424S - Batch 206406 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	01/24/2024	DLC
Toluene	EPA-8260	U	UG/KG	10	01/24/2024	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	01/24/2024	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	01/24/2024	DLC
o-Xylene	EPA-8260	U	UG/KG	10	01/24/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS SDG#:	EV24010127
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 206378 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	99.4			66.5	122.7	01/24/2024	MNC
TPH-Volatile Range - BSD	NWTPH-GX	98.7	1		66.5	122.7	01/24/2024	MNC

ALS Test Batch ID: 206406 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	92.4			75	138	01/24/2024	DLC
Benzene - BSD	EPA-8260	89.3	4		75	138	01/24/2024	DLC
Toluene - BS	EPA-8260	94.6			71.6	122.1	01/24/2024	DLC
Toluene - BSD	EPA-8260	91.1	4		71.6	122.1	01/24/2024	DLC
Ethylbenzene - BS	EPA-8260	97.4			50	150	01/24/2024	DLC
Ethylbenzene - BSD	EPA-8260	91.8	6		50	150	01/24/2024	DLC
m,p-Xylene - BS	EPA-8260	95.2			50	150	01/24/2024	DLC
m,p-Xylene - BSD	EPA-8260	90.8	5		50	150	01/24/2024	DLC
o-Xylene - BS	EPA-8260	97.5			50	150	01/24/2024	DLC
o-Xylene - BSD	EPA-8260	92.9	5		50	150	01/24/2024	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Job# (Laboratory Use Only)

EV24010127

Date 1/23/24 Page 1 Of 1

[illegible]

SPECIAL INSTRUCTIONS

★ PLEASE HOLD SW-N-86-24-20240123 ★

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Josh Nugent / Antea / 1/23/24 / 1705

Received By: [Signature] ACS 11/23/24 1705

2. Relinquished By: _____

Received By: _____

TURNAROUND REQUESTED in Business Days*

OTHER:

Organic, Metals & Inorganic Analysis

10 5 3 2 1 SAM
DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAM
DAY

Specify: _____

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: AUTEA GROUP ALS Job#: EV24010127

Project: MP-46

Login Date: 1/23/24 Login Time: 1710 Login By: CN/AF

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

	Yes	No	N/A
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?	☒		
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.)?	☒		
Was sufficient amount of sample sent for the tests indicated?	☒		
Was correct preservation added to samples?	☒		
Subcontract test containers added to Subcontract Bin?			☒
Wetchem test containers marked with required Tests?			☒
Short hold time test containers delivered to analysts?			☒
Were VOA vials checked for absence of air bubbles?			☒
Bubbles present in sample #: _____			

5035A kits received? _____
 # Low Kits: 8 # High Kits: _____

5035A kits returned? _____
 # Low Kits: 2 # High Kits: 5

Temperature of cooler upon receipt: 5.4 On ice? ☒

Explain any discrepancies:

Was client contacted? _____ Who was called? _____ By whom? _____ Date: _____

Outcome of call:



January 22, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 19th, 10 samples were received by our laboratory and assigned our laboratory project number EV24010111. The project was identified as your MP-46. 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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 1:15:00 PM
CLIENT SAMPLE ID	B-22_72_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.1	01/22/2024	MNC
Toluene-d8	EPA-8260	100	01/22/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 1:15:00 PM
CLIENT SAMPLE ID	B-24_72_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	12	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	80.7	01/22/2024	MNC
Toluene-d8	EPA-8260	100	01/22/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 1:55:00 PM
CLIENT SAMPLE ID	B-27_72_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	72.6	01/22/2024	MNC
Toluene-d8	EPA-8260	99.4	01/22/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 2:00:00 PM
CLIENT SAMPLE ID	B-28_72_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	17	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	34	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	24	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	11	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	87.3	01/22/2024	MNC
Toluene-d8	EPA-8260	100	01/22/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 2:40:00 PM
CLIENT SAMPLE ID	B-6_30_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	28	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	10	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.6	01/22/2024	MNC
Toluene-d8	EPA-8260	98.8	01/22/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 2:30:00 PM
CLIENT SAMPLE ID	SW-S-10C_24_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	99.4	01/22/2024	MNC
Toluene-d8	EPA-8260	99.6	01/22/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 3:00:00 PM
CLIENT SAMPLE ID	B-21_90_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	47	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	400	15	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	81.7	01/22/2024	MNC
Toluene-d8	EPA-8260	99.6	01/22/2024	DLC
Toluene-d8	EPA-8260	101	01/22/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-08
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 4:30:00 PM
CLIENT SAMPLE ID	SW-N-14_47_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	84.1	01/22/2024	MNC
Toluene-d8	EPA-8260	99.5	01/22/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-09
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 4:30:00 PM
CLIENT SAMPLE ID	SW-S-14_47_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	90.9	01/22/2024	MNC
Toluene-d8	EPA-8260	100	01/22/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-10
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 4:30:00 PM
CLIENT SAMPLE ID	B-31_84_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	23	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	52	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	83.8	01/22/2024	MNC
Toluene-d8	EPA-8260	100	01/22/2024	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/22/2024
ALS SDG#: EV24010111
WDOE ACCREDITATION: C601
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY BLANK RESULTS

MBG-012124S - Batch 206274 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	01/21/2024	MNC

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

MB-012224S - Batch 206275 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	01/22/2024	DLC
Toluene	EPA-8260	U	UG/KG	10	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	01/22/2024	DLC
o-Xylene	EPA-8260	U	UG/KG	10	01/22/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS SDG#:	EV24010111
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 206274 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	93.4			66.5	122.7	01/21/2024	MNC
TPH-Volatile Range - BSD	NWTPH-GX	100	7		66.5	122.7	01/22/2024	MNC

ALS Test Batch ID: 206275 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	95.8			75	138	01/22/2024	DLC
Benzene - BSD	EPA-8260	87.1	10		75	138	01/22/2024	DLC
Toluene - BS	EPA-8260	98.0			71.6	122.1	01/22/2024	DLC
Toluene - BSD	EPA-8260	89.0	10		71.6	122.1	01/22/2024	DLC
Ethylbenzene - BS	EPA-8260	97.6			50	150	01/22/2024	DLC
Ethylbenzene - BSD	EPA-8260	90.9	7		50	150	01/22/2024	DLC
m,p-Xylene - BS	EPA-8260	95.8			50	150	01/22/2024	DLC
m,p-Xylene - BSD	EPA-8260	89.5	7		50	150	01/22/2024	DLC
o-Xylene - BS	EPA-8260	98.0			50	150	01/22/2024	DLC
o-Xylene - BSD	EPA-8260	91.9	6		50	150	01/22/2024	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Job# (Laboratory Use Only)

EV24010111

Date 1/19/24 Page 1 Of 1

[illegible]

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

Received By: AS 1/19/24 1752

Received By:

TURNAROUND REQUESTED in Business Days*

OTHER:

Organic, Metals & Inorganic Analysis

10	5	3	2	1	SAME DAY
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Fuels & Hydrocarbon Analysis

5 3 1 SAM
DAY

Specify: _____

24 h

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Antea ALS Job#: EV2401011

Project: MP-46

Login Date: 1/19/24 Login Time: 1752 Login By: CCM

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☐ ALS Courier ☒
FedEx Express ☐

	Yes	No	N/A
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?	☒		
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.)?	☒		
Was sufficient amount of sample sent for the tests indicated?	☒		
Was correct preservation added to samples?	☒		
Subcontract test containers added to Subcontract Bin?			☒
Wetchem test containers marked with required Tests?			☒
Short hold time test containers delivered to analysts?			☒
Were VOA vials checked for absence of air bubbles?			☒
Bubbles present in sample #: _____			

5035A kits received? 10 # Low Kits: 10 # High Kits: _____

5035A kits returned? # Low Kits: _____ # High Kits: _____

Temperature of cooler upon receipt: 3.9C On ice? ☒

Explain any discrepancies:

Was client contacted? _____ Who was called? _____ By whom? _____ Date: _____

Outcome of call:



January 17, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 16th, 9 samples were received by our laboratory and assigned our laboratory project number EV24010091. The project was identified as your MP-46. 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



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/17/2024
ALS JOB#: EV24010091
ALS SAMPLE#: EV24010091-01
CLIENT CONTACT: Megan Richard
DATE RECEIVED: 01/16/2024
CLIENT PROJECT: MP-46
COLLECTION DATE: 1/16/2024 11:00:00 AM
CLIENT SAMPLE ID: B-19_84_20240116
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/16/2024	MNC
Benzene	EPA-8260	9.1	5.0	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	46	10	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	91.3	01/16/2024	MNC
Toluene-d8	EPA-8260	95.9	01/17/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 11:10:00 AM
CLIENT SAMPLE ID	B-30_84_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/16/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	86.8	01/16/2024	MNC
Toluene-d8	EPA-8260	94.4	01/17/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 11:15:00 AM
CLIENT SAMPLE ID	B-18_72_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/16/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	103	01/16/2024	MNC
Toluene-d8	EPA-8260	95.9	01/17/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 11:30:00 AM
CLIENT SAMPLE ID	SW-S-10_47_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/16/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	18	10	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	11	10	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	81.1	01/16/2024	MNC
Toluene-d8	EPA-8260	92.2	01/17/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 11:35:00 AM
CLIENT SAMPLE ID	SW-N-10_47_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/17/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	82.9	01/17/2024	MNC
Toluene-d8	EPA-8260	94.7	01/17/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 11:37:00 AM
CLIENT SAMPLE ID	SW-S-10b_24_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	67	3.0	1	MG/KG	01/17/2024	MNC
Benzene	EPA-8260	250	23	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	7300	140	10	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	1000	20	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	3600	38	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	1500	24	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	109	01/17/2024	MNC
Toluene-d8	EPA-8260	95.4	01/17/2024	DLC
Toluene-d8 10X Dilution	EPA-8260	98.9	01/17/2024	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 11:50:00 AM
CLIENT SAMPLE ID	B-21_84_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	3.3	3.0	1	MG/KG	01/17/2024	MNC
Benzene	EPA-8260	53	20	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	470	12	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	31	17	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	100	34	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	52	21	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	87.5	01/17/2024	MNC
Toluene-d8	EPA-8260	99.3	01/17/2024	DLC

Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-08
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 11:55:00 AM
CLIENT SAMPLE ID	B-29_84_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/17/2024	MNC
Benzene	EPA-8260	28	24	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	440	14	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	30	20	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	94	39	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	44	24	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	86.5	01/17/2024	MNC
Toluene-d8	EPA-8260	100	01/17/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-09
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 12:05:00 PM
CLIENT SAMPLE ID	B-20_72_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/17/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	86.2	01/17/2024	MNC
Toluene-d8	EPA-8260	95.0	01/17/2024	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/17/2024
ALS SDG#: EV24010091
WDOE ACCREDITATION: C601
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY BLANK RESULTS

MBG-011624S - Batch 206062 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	01/16/2024	MNC

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

MB-011624S - Batch 206061 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	01/16/2024	DLC
Toluene	EPA-8260	U	UG/KG	10	01/16/2024	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	01/16/2024	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	01/16/2024	DLC
o-Xylene	EPA-8260	U	UG/KG	10	01/16/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS SDG#:	EV24010091
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 206062 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	97.1			66.5	122.7	01/16/2024	MNC
TPH-Volatile Range - BSD	NWTPH-GX	100	3		66.5	122.7	01/16/2024	MNC

ALS Test Batch ID: 206061 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	98.2			75	138	01/16/2024	DLC
Benzene - BSD	EPA-8260	98.6	0		75	138	01/16/2024	DLC
Toluene - BS	EPA-8260	98.3			71.6	122.1	01/16/2024	DLC
Toluene - BSD	EPA-8260	98.7	0		71.6	122.1	01/16/2024	DLC
Ethylbenzene - BS	EPA-8260	97.9			50	150	01/16/2024	DLC
Ethylbenzene - BSD	EPA-8260	97.5	0		50	150	01/16/2024	DLC
m,p-Xylene - BS	EPA-8260	97.5			50	150	01/16/2024	DLC
m,p-Xylene - BSD	EPA-8260	97.4	0		50	150	01/16/2024	DLC
o-Xylene - BS	EPA-8260	100			50	150	01/16/2024	DLC
o-Xylene - BSD	EPA-8260	99.7	0		50	150	01/16/2024	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
<http://www.alsglobal.com>

Chain Of Custody/ Laboratory Analysis Request

ALS Lab# 8620 Holly Drive, Suite 100

EV24010091

Date 1/16/24 Page 1 Of 1

PROJECT ID: <u>MP-46</u>					ANALYSIS REQUESTED															OTHER (Specify)							
REPORT TO COMPANY: <u>Antea Group</u>					NWTPH-HCID NWTPH-DX NWTPH-GX BTEX by EPA 8021 MTBE by EPA 8021 Halogenated Volatiles by EPA 8260 Volatile Organic Compounds by EPA 8260 EDB / EDC by EPA 8260 SIM (water) EDB / EDC by EPA 8260 (soil) Semivolatile Organic Compounds by EPA 8270 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM PCB by EPA 8082 Pesticides by EPA 8081 Metals-MTCA-5 RCRA-8 Pri Pol TAL Metals Other (Specify) TCLP-Metals VOA Semi-Vol Pest Herbs																						
PROJECT MANAGER: <u>Megan Richard</u>																											
ADDRESS: <u>18316-B Redmond Way</u>																											
<u>Redmond, WA</u>																											
PHONE: <u>206-854-0349</u> P.O. #:																											
E-MAIL: <u>Megan.Richard@anteagroup.us</u>																				NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?							
INVOICE TO COMPANY: <u>same as above</u>																											
ATTENTION: <u>DigitalSolutions.equis@anteagroup.us</u>																											
ADDRESS: <u>same as above</u>																											
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	Metals-MTCA-5	RCRA-8	Pri Pol	TAL	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs
1. <u>B-19-84-20240116</u>	<u>1/16/24</u>	<u>11:00</u>	<u>Soil</u>	<u>1</u>			X	X																			
2. <u>B-30-84-20240116</u>	<u>1/16/24</u>	<u>11:10</u>	<u>1</u>	<u>2</u>			X	X																			
3. <u>B-18-72-20240116</u>	<u>1/16/24</u>	<u>11:15</u>	<u>1</u>	<u>3</u>			X	X																			
4. <u>SW-5-10-47-20240116</u>	<u>1/16/24</u>	<u>11:30</u>	<u>1</u>	<u>4</u>			X	X																			
5. <u>SW-N-10-47-20240116</u>	<u>1/16/24</u>	<u>11:35</u>	<u>1</u>	<u>5</u>			X	X																			
6. <u>SW-5-10b-24-20240116</u>	<u>1/16/24</u>	<u>11:37</u>	<u>1</u>	<u>6</u>			X	X																			
7. <u>B-21-84-20240116</u>	<u>1/16/24</u>	<u>11:50</u>	<u>1</u>	<u>7</u>			X	X																			
8. <u>B-29-84-20240116</u>	<u>1/16/24</u>	<u>11:55</u>	<u>1</u>	<u>8</u>			X	X																			
9. <u>B-20-72-20240116</u>	<u>1/16/24</u>	<u>12:05</u>	<u>✓</u>	<u>9</u>			X	X																			
10.																											

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

- Relinquished By: Mariah Murphy, Agt, 1/16/24
Received By: B-Acs 1/16/24 1415
- Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

10 Standard 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 Standard 3 1 SAME DAY

OTHER:

Specify: 24 HR
TAT

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: ANTEA GROUP

ALS Job#: E24010091

Project: ME-46

Login Date: 01-16-24

Login Time: 1420

Login By: AHF

Type of Shipping Container: Cooler ☒

Box ☐

Other ☐

Shipped via: FedEx Ground ☐
FedEx Express ☐

UPS ☐

Courier ☐

Hand Delivered ☒

ALS Courier ☐

Yes

No

N/A

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?

☒

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.)?

☒

Was sufficient amount of sample sent for the tests indicated?

☒

Was correct preservation added to samples?

☒

Subcontract test containers added to Subcontract Bin?

Wetchem test containers marked with required Tests?

Short hold time test containers delivered to analysts?

Were VOA vials checked for absence of air bubbles?

Bubbles present in sample #:

5035A kits received?

Low Kits: 9*

High Kits:

☒

5035A kits returned?

Low Kits:

High Kits:

Temperature of cooler upon receipt: 12.1 °C

On ice? ☒

Explain any discrepancies: ON SAMPLES 4, 5 & 7, CLIENT PROVIDED ADDITIONAL SODIUM BISULFATE INSTEAD OF MEQML VIAL. LOW-KIT COMPLETED FROM 402 SAMPLE

Was client contacted? Who was called? By whom? Date:

Outcome of call:



January 11, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 10th, 3 samples were received by our laboratory and assigned our laboratory project number EV24010062. The project was identified as your MP-46. 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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/11/2024
	18378-B Redmond Way	ALS JOB#:	EV24010062
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010062-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/10/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/10/2024 12:10:00 PM
CLIENT SAMPLE ID	SW-N-7_47_20240110	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/11/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/11/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/11/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	71.1	01/11/2024	MNC
Toluene-d8	EPA-8260	92.2	01/11/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/11/2024
	18378-B Redmond Way	ALS JOB#:	EV24010062
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010062-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/10/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/10/2024 12:05:00 PM
CLIENT SAMPLE ID	B-12_72_20240110	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/11/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/11/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/11/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	75.6	01/11/2024	MNC
Toluene-d8	EPA-8260	92.3	01/11/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/11/2024
	18378-B Redmond Way	ALS JOB#:	EV24010062
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010062-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/10/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/10/2024 12:00:00 PM
CLIENT SAMPLE ID	B-26_72_20240110	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/11/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/11/2024	DLC
Toluene	EPA-8260	17	10	1	UG/KG	01/11/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/11/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	82.7	01/11/2024	MNC
Toluene-d8	EPA-8260	92.7	01/11/2024	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/11/2024
ALS SDG#: EV24010062
WDOE ACCREDITATION: C601

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY BLANK RESULTS

MBG-011124S - Batch 205928 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	01/11/2024	MNC

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

MB-011124S - Batch 205922 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	01/11/2024	DLC
Toluene	EPA-8260	U	UG/KG	10	01/11/2024	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	01/11/2024	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	01/11/2024	DLC
o-Xylene	EPA-8260	U	UG/KG	10	01/11/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/11/2024
	18378-B Redmond Way	ALS SDG#:	EV24010062
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 205928 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	99.9			66.5	122.7	01/11/2024	MNC
TPH-Volatile Range - BSD	NWTPH-GX	99.4	0		66.5	122.7	01/11/2024	MNC

ALS Test Batch ID: 205922 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	119			75	138	01/11/2024	DLC
Benzene - BSD	EPA-8260	105	13		75	138	01/11/2024	DLC
Toluene - BS	EPA-8260	119			71.6	122.1	01/11/2024	DLC
Toluene - BSD	EPA-8260	104	13		71.6	122.1	01/11/2024	DLC
Ethylbenzene - BS	EPA-8260	110			50	150	01/11/2024	DLC
Ethylbenzene - BSD	EPA-8260	97.1	12		50	150	01/11/2024	DLC
m,p-Xylene - BS	EPA-8260	111			50	150	01/11/2024	DLC
m,p-Xylene - BSD	EPA-8260	97.9	12		50	150	01/11/2024	DLC
o-Xylene - BS	EPA-8260	106			50	150	01/11/2024	DLC
o-Xylene - BSD	EPA-8260	94.7	11		50	150	01/11/2024	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Job# (Laboratory Use Only)

EV24010062

Date 1/10/24 Page 1 Of 1

[illegible]

SIGNATURES (Name, Company, Date, Time):

Received By: che 1/10/24 ALSE 1420

Received By:

TURNAROUND REQUESTED in Business Days*

OTHER:

Organic, Metals & Inorganic Analysis

10 5 3 2 1 SAM DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAM
DA

Specify: _____

Zuhr
TAT

**Turnaround request less than standard may incur Rush Charges*

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Antea ALS Job#: EV24010062

Project: MP-46

Login Date: 1/10/24 Login Time: 1420 Login By: CE

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

Yes No N/A

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? ☒ ☐ ☐

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.)? ☒ ☐ ☐

Was sufficient amount of sample sent for the tests indicated? ☒ ☐ ☐

Was correct preservation added to samples? ☒ ☐ ☐

Subcontract test containers added to Subcontract Bin? ☐ ☐ ☒

Wetchem test containers marked with required Tests? ☐ ☐ ☒

Short hold time test containers delivered to analysts? ☒ ☐ ☐

Were VOA vials checked for absence of air bubbles? ☐ ☐ ☒

Bubbles present in sample #:

5035A kits received?

Low Kits: 3 # High Kits:

Y
Sodium Bisulfate Kits

5035A kits returned?

Low Kits: # High Kits:

Temperature of cooler upon receipt: 9.8° On ice? ☐ ☒ ☐

Explain any discrepancies:

Was client contacted? Who was called? By whom? Date:

Outcome of call:



January 8, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 5th, 15 samples were received by our laboratory and assigned our laboratory project number EV24010034. The project was identified as your MP-46. 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



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 11:50:00 AM
CLIENT SAMPLE ID	SW-N-7_36_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/05/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	126	01/05/2024	MNC
Toluene-d8	EPA-8260	95.5	01/07/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 11:55:00 AM
CLIENT SAMPLE ID	B-12_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	5.9	3.0	1	MG/KG	01/05/2024	MNC
Benzene	EPA-8260	7.3	5.0	1	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	370	12	1	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	14	10	1	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	55	20	1	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	24	10	1	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	97.8	01/05/2024	MNC
Toluene-d8	EPA-8260	95.3	01/07/2024	DLC
Toluene-d8	EPA-8260	98.2	01/07/2024	DLC

Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 12:00:00 PM
CLIENT SAMPLE ID	B-26_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	3500	300	100	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	2300	240	10	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	130000	1400	100	UG/KG	01/08/2024	DLC
Ethylbenzene	EPA-8260	51000	2000	100	UG/KG	01/08/2024	DLC
m,p-Xylene	EPA-8260	200000	4000	100	UG/KG	01/08/2024	DLC
o-Xylene	EPA-8260	79000	2500	100	UG/KG	01/08/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	241 SUR07	01/08/2024	MNC
Toluene-d8 10X Dilution	EPA-8260	107	01/07/2024	DLC
Toluene-d8 100X Dilution	EPA-8260	97.2	01/08/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 12:45:00 PM
CLIENT SAMPLE ID	SW-N-13_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/05/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	14	10	1	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	92.4	01/05/2024	MNC
Toluene-d8	EPA-8260	94.6	01/07/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 12:50:00 PM
CLIENT SAMPLE ID	B-24_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	1200	300	100	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	250	220	10	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	19000	130	10	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	14000	180	10	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	64000	360	10	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	22000	230	10	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	01/08/2024	MNC
Toluene-d8 10X Dilution	EPA-8260	102	01/07/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 12:55:00 PM
CLIENT SAMPLE ID	B-27_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	510	300	100	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	1800	210	10	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	31000	130	10	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	6300	180	10	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	25000	350	10	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	10000	220	10	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	01/08/2024	MNC
Toluene-d8 10X Dilution	EPA-8260	95.7	01/07/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 1:10:00 PM
CLIENT SAMPLE ID	SW-N-12_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/05/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	20	10	1	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	92.6	01/05/2024	MNC
Toluene-d8	EPA-8260	94.6	01/07/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-08
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 1:15:00 PM
CLIENT SAMPLE ID	B-22_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	2600	300	100	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	5600	250	10	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	200000	1500	100	UG/KG	01/08/2024	DLC
Ethylbenzene	EPA-8260	46000	2100	100	UG/KG	01/08/2024	DLC
m,p-Xylene	EPA-8260	170000	4100	100	UG/KG	01/08/2024	DLC
o-Xylene	EPA-8260	65000	2600	100	UG/KG	01/08/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	01/08/2024	MNC
Toluene-d8 10X Dilution	EPA-8260	102	01/07/2024	DLC
Toluene-d8 100X Dilution	EPA-8260	97.7	01/08/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-09
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 1:20:00 PM
CLIENT SAMPLE ID	B-28_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	220	30	10	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	1400	240	10	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	26000	140	10	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	4000	200	10	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	16000	400	10	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	6300	250	10	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	77.6	01/08/2024	MNC
Toluene-d8 10X Dilution	EPA-8260	97.8	01/07/2024	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	1/8/2024
		ALS JOB#:	EV24010034
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV24010034-10
CLIENT PROJECT:	MP-46	DATE RECEIVED:	01/05/2024
CLIENT SAMPLE ID	SW-N-11_47_20240105	COLLECTION DATE:	1/5/2024 1:40:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/05/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	98.1	01/05/2024	MNC
Toluene-d8	EPA-8260	96.1	01/07/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-11
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 1:45:00 PM
CLIENT SAMPLE ID	B-20_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	2700	300	100	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	3800	270	10	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	170000	1600	100	UG/KG	01/08/2024	DLC
Ethylbenzene	EPA-8260	46000	220	10	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	130000	4400	100	UG/KG	01/08/2024	DLC
o-Xylene	EPA-8260	50000	2800	100	UG/KG	01/08/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	01/08/2024	MNC
Toluene-d8 10X Dilution	EPA-8260	105	01/07/2024	DLC
Toluene-d8 100X Dilution	EPA-8260	97.7	01/08/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-12
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 1:50:00 PM
CLIENT SAMPLE ID	B-29_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	11000	600	200	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	25000	6900	200	UG/KG	01/08/2024	DLC
Toluene	EPA-8260	790000	4100	200	UG/KG	01/08/2024	DLC
Ethylbenzene	EPA-8260	180000	5800	200	UG/KG	01/08/2024	DLC
m,p-Xylene	EPA-8260	680000	11000	200	UG/KG	01/08/2024	DLC
o-Xylene	EPA-8260	260000	7100	200	UG/KG	01/08/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 200X Dilution	NWTPH-GX	U, SUR07	01/08/2024	MNC
Toluene-d8 200X Dilution	EPA-8260	98.7	01/08/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-13
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 2:05:00 PM
CLIENT SAMPLE ID	SW-S-10_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	13	3.0	1	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	U	21	1	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	640	12	1	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	160	18	1	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	660	35	1	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	270	22	1	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	67.4	01/08/2024	MNC
Toluene-d8	EPA-8260	96.7	01/07/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-14
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 2:10:00 PM
CLIENT SAMPLE ID	B-19_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	10000	600	200	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	26000	2500	100	UG/KG	01/08/2024	DLC
Toluene	EPA-8260	860000	7300	500	UG/KG	01/08/2024	DLC
Ethylbenzene	EPA-8260	170000	2100	100	UG/KG	01/08/2024	DLC
m,p-Xylene	EPA-8260	620000	4100	100	UG/KG	01/08/2024	DLC
o-Xylene	EPA-8260	240000	2600	100	UG/KG	01/08/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 200X Dilution	NWTPH-GX	U, SUR07	01/08/2024	MNC
Toluene-d8 100X Dilution	EPA-8260	99.4	01/08/2024	DLC
Toluene-d8 500X Dilution	EPA-8260	97.7	01/08/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-15
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 2:15:00 PM
CLIENT SAMPLE ID	B-30_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	6100	600	200	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	9800	3800	200	UG/KG	01/08/2024	DLC
Toluene	EPA-8260	450000	2300	200	UG/KG	01/08/2024	DLC
Ethylbenzene	EPA-8260	100000	3200	200	UG/KG	01/08/2024	DLC
m,p-Xylene	EPA-8260	380000	6300	200	UG/KG	01/08/2024	DLC
o-Xylene	EPA-8260	140000	4000	200	UG/KG	01/08/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 200X Dilution	NWTPH-GX	U, SUR07	01/08/2024	MNC
Toluene-d8 200X Dilution	EPA-8260	97.7	01/08/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE: 1/8/2024 ALS SDG#: EV24010034 WDOE ACCREDITATION: C601
CLIENT CONTACT:	Megan Richard	
CLIENT PROJECT:	MP-46	

LABORATORY BLANK RESULTS
MBG-010524S - Batch 205754 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	01/05/2024	MNC

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

MB-010724S - Batch 205776 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	01/07/2024	DLC
Toluene	EPA-8260	U	UG/KG	10	01/07/2024	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	01/07/2024	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	01/07/2024	DLC
o-Xylene	EPA-8260	U	UG/KG	10	01/07/2024	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS SDG#:	EV24010034
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 205754 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	99.4			66.5	122.7	01/05/2024	MNC
TPH-Volatile Range - BSD	NWTPH-GX	98.5	1		66.5	122.7	01/05/2024	MNC

ALS Test Batch ID: 205776 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	109			75	138	01/07/2024	DLC
Benzene - BSD	EPA-8260	108	0		75	138	01/07/2024	DLC
Toluene - BS	EPA-8260	107			71.6	122.1	01/07/2024	DLC
Toluene - BSD	EPA-8260	108	0		71.6	122.1	01/07/2024	DLC
Ethylbenzene - BS	EPA-8260	104			50	150	01/07/2024	DLC
Ethylbenzene - BSD	EPA-8260	104	0		50	150	01/07/2024	DLC
m,p-Xylene - BS	EPA-8260	105			50	150	01/07/2024	DLC
m,p-Xylene - BSD	EPA-8260	105	0		50	150	01/07/2024	DLC
o-Xylene - BS	EPA-8260	104			50	150	01/07/2024	DLC
o-Xylene - BSD	EPA-8260	104	0		50	150	01/07/2024	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Job# (Laboratory Use Only)

EV24010034

Date 1/5/24 Page 1 Of 2

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Golin Dechenne, Antea bray, 1/5/24

Received By: 19-Acs 1/5/24 1535

2. Relinquished By:

Received By:

TURNAROUND REQUESTED in Business Days*

OTHER:

Organic, Metals & Inorganic Analysis

Fuels & Hydrocarbon Analysis

5 3 1 SAM
DA

Specify: 24 hr
TAT

*Turnaround request less than standard may incur Rush Charges



ALS Job# (Laboratory Use Only)

Q 24010030

Date 1/5/24 Page 2 Of 2

[illegible]

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Colin DeGuzman, Antec Group, 1/5/24,
Received By: [Signature] ACS 1/5/24 1535

2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

OTHER:

Specify: _____

Standard 10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

Standard

24 h

**Turnaround request less than standard may incur Rush Charges*

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Arden ALS Job#: EV24010034

Project: MP-46

Login Date: 1/5/14 Login Time: 1545 Login By: CAW

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

Yes No N/A

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? ☒ ☐ ☐

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.)? ☒ ☐ ☐

Was sufficient amount of sample sent for the tests indicated? ☒ ☐ ☐

Was correct preservation added to samples? ☒ ☐ ☐

Subcontract test containers added to Subcontract Bin? ☐ ☐ ☒

Wetchem test containers marked with required Tests? ☐ ☐ ☒

Short hold time test containers delivered to analysts? ☐ ☐ ☒

Were VOA vials checked for absence of air bubbles? ☐ ☐ ☒

Bubbles present in sample #:

5035A kits received? 15 ☒ ☐ ☐
Low Kits: # High Kits:

5035A kits returned? ☐ ☐ ☐
Low Kits: # High Kits:

Temperature of cooler upon receipt: 4.9C On ice? ☒ ☐ ☐

Explain any discrepancies:

Was client contacted? Who was called? By whom? Date:

Outcome of call:



January 2, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 2nd, 7 samples were received by our laboratory and assigned our laboratory project number EV24010001. The project was identified as your MP-46. 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



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/2/2024
ALS JOB#: EV24010001
ALS SAMPLE#: EV24010001-01
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46
DATE RECEIVED: 01/02/2024
COLLECTION DATE: 12/27/2023 11:30:00 AM
CLIENT SAMPLE ID: B-24_24_20231227
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2400	50	UG/KG	12/29/2023	DLC
Chloromethane	EPA-8260	U	2200	50	UG/KG	12/29/2023	DLC
Vinyl Chloride	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
Bromomethane	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
Chloroethane	EPA-8260	U	1900	50	UG/KG	12/29/2023	DLC
Carbon Tetrachloride	EPA-8260	U	1200	50	UG/KG	12/29/2023	DLC
Trichlorofluoromethane	EPA-8260	U	1600	50	UG/KG	12/29/2023	DLC
Carbon Disulfide	EPA-8260	U	1700	50	UG/KG	12/29/2023	DLC
Acetone	EPA-8260	U	2600	50	UG/KG	12/29/2023	DLC
1,1-Dichloroethene	EPA-8260	U	2400	50	UG/KG	12/29/2023	DLC
Methylene Chloride	EPA-8260	U	15000	50	UG/KG	12/29/2023	DLC
Acrylonitrile	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
Methyl T-Butyl Ether	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2300	50	UG/KG	12/29/2023	DLC
1,1-Dichloroethane	EPA-8260	U	1300	50	UG/KG	12/29/2023	DLC
2-Butanone	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	1400	50	UG/KG	12/29/2023	DLC
2,2-Dichloropropane	EPA-8260	U	1800	50	UG/KG	12/29/2023	DLC
Bromochloromethane	EPA-8260	U	1700	50	UG/KG	12/29/2023	DLC
Chloroform	EPA-8260	U	2300	50	UG/KG	12/29/2023	DLC
1,1,1-Trichloroethane	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
1,1-Dichloropropene	EPA-8260	U	2000	50	UG/KG	12/29/2023	DLC
1,2-Dichloroethane	EPA-8260	U	710	50	UG/KG	12/29/2023	DLC
Benzene	EPA-8260	2100	1200	50	UG/KG	12/29/2023	DLC
Trichloroethene	EPA-8260	U	1300	50	UG/KG	12/29/2023	DLC
1,2-Dichloropropane	EPA-8260	U	760	50	UG/KG	12/29/2023	DLC
Dibromomethane	EPA-8260	U	2400	50	UG/KG	12/29/2023	DLC
Bromodichloromethane	EPA-8260	U	740	50	UG/KG	12/29/2023	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	1600	50	UG/KG	12/29/2023	DLC
4-Methyl-2-Pentanone	EPA-8260	U	2900	50	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	85000	710	50	UG/KG	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	1000	50	UG/KG	12/29/2023	DLC
1,1,2-Trichloroethane	EPA-8260	U	620	50	UG/KG	12/29/2023	DLC
2-Hexanone	EPA-8260	U	4200	50	UG/KG	12/29/2023	DLC
1,3-Dichloropropane	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
Tetrachloroethylene	EPA-8260	U	1600	50	UG/KG	12/29/2023	DLC
Dibromochloromethane	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
1,2-Dibromoethane	EPA-8260	U	570	50	UG/KG	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:30:00 AM
CLIENT SAMPLE ID	B-24_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chlorobenzene	EPA-8260	U	680	50	UG/KG	12/29/2023	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	930	50	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	25000	1000	50	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	95000	2000	50	UG/KG	12/29/2023	DLC
Styrene	EPA-8260	U	970	50	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	37000	1200	50	UG/KG	12/29/2023	DLC
Bromoform	EPA-8260	U	870	50	UG/KG	12/29/2023	DLC
Isopropylbenzene	EPA-8260	2600	920	50	UG/KG	12/29/2023	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	1700	50	UG/KG	12/29/2023	DLC
1,2,3-Trichloropropane	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
Bromobenzene	EPA-8260	U	1100	50	UG/KG	12/29/2023	DLC
N-Propyl Benzene	EPA-8260	11000	930	50	UG/KG	12/29/2023	DLC
2-Chlorotoluene	EPA-8260	U	1300	50	UG/KG	12/29/2023	DLC
1,3,5-Trimethylbenzene	EPA-8260	15000	1300	50	UG/KG	12/29/2023	DLC
4-Chlorotoluene	EPA-8260	U	890	50	UG/KG	12/29/2023	DLC
T-Butyl Benzene	EPA-8260	U	2300	50	UG/KG	12/29/2023	DLC
1,2,4-Trimethylbenzene	EPA-8260	57000	1300	50	UG/KG	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	U	1400	50	UG/KG	12/29/2023	DLC
P-Isopropyltoluene	EPA-8260	U	1100	50	UG/KG	12/29/2023	DLC
1,3-Dichlorobenzene	EPA-8260	U	780	50	UG/KG	12/29/2023	DLC
1,4-Dichlorobenzene	EPA-8260	U	960	50	UG/KG	12/29/2023	DLC
N-Butylbenzene	EPA-8260	2800	1800	50	UG/KG	12/29/2023	DLC
1,2-Dichlorobenzene	EPA-8260	U	840	50	UG/KG	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	1400	50	UG/KG	12/29/2023	DLC
Hexachlorobutadiene	EPA-8260	U	1300	50	UG/KG	12/29/2023	DLC
Naphthalene	EPA-8260	3800	930	50	UG/KG	12/29/2023	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	710	50	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 50X Dilution	EPA-8260	99.9	12/29/2023	DLC
Toluene-d8 50X Dilution	EPA-8260	93.6	12/29/2023	DLC
4-Bromofluorobenzene 50X Dilution	EPA-8260	103	12/29/2023	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:45:00 AM
CLIENT SAMPLE ID	B-22_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2400	50	UG/KG	12/29/2023	DLC
Chloromethane	EPA-8260	U	2200	50	UG/KG	12/29/2023	DLC
Vinyl Chloride	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
Bromomethane	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
Chloroethane	EPA-8260	U	1900	50	UG/KG	12/29/2023	DLC
Carbon Tetrachloride	EPA-8260	U	1200	50	UG/KG	12/29/2023	DLC
Trichlorofluoromethane	EPA-8260	U	1500	50	UG/KG	12/29/2023	DLC
Carbon Disulfide	EPA-8260	U	1700	50	UG/KG	12/29/2023	DLC
Acetone	EPA-8260	U	2600	50	UG/KG	12/29/2023	DLC
1,1-Dichloroethene	EPA-8260	U	2300	50	UG/KG	12/29/2023	DLC
Methylene Chloride	EPA-8260	U	12000	50	UG/KG	12/29/2023	DLC
Acrylonitrile	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
Methyl T-Butyl Ether	EPA-8260	U	2400	50	UG/KG	12/29/2023	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2200	50	UG/KG	12/29/2023	DLC
1,1-Dichloroethane	EPA-8260	U	1200	50	UG/KG	12/29/2023	DLC
2-Butanone	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	1400	50	UG/KG	12/29/2023	DLC
2,2-Dichloropropane	EPA-8260	U	1800	50	UG/KG	12/29/2023	DLC
Bromochloromethane	EPA-8260	U	1600	50	UG/KG	12/29/2023	DLC
Chloroform	EPA-8260	U	2300	50	UG/KG	12/29/2023	DLC
1,1,1-Trichloroethane	EPA-8260	U	2400	50	UG/KG	12/29/2023	DLC
1,1-Dichloropropene	EPA-8260	U	2000	50	UG/KG	12/29/2023	DLC
1,2-Dichloroethane	EPA-8260	U	700	50	UG/KG	12/29/2023	DLC
Benzene	EPA-8260	6700	1200	50	UG/KG	12/29/2023	DLC
Trichloroethene	EPA-8260	U	1300	50	UG/KG	12/29/2023	DLC
1,2-Dichloropropane	EPA-8260	U	750	50	UG/KG	12/29/2023	DLC
Dibromomethane	EPA-8260	U	2400	50	UG/KG	12/29/2023	DLC
Bromodichloromethane	EPA-8260	U	730	50	UG/KG	12/29/2023	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	1600	50	UG/KG	12/29/2023	DLC
4-Methyl-2-Pentanone	EPA-8260	U	2900	50	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	230000 E	700	50	UG/KG	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	1000	50	UG/KG	12/29/2023	DLC
1,1,2-Trichloroethane	EPA-8260	U	610	50	UG/KG	12/29/2023	DLC
2-Hexanone	EPA-8260	U	4200	50	UG/KG	12/29/2023	DLC
1,3-Dichloropropane	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
Tetrachloroethylene	EPA-8260	U	1500	50	UG/KG	12/29/2023	DLC
Dibromochloromethane	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
1,2-Dibromoethane	EPA-8260	U	570	50	UG/KG	12/29/2023	DLC
Chlorobenzene	EPA-8260	U	660	50	UG/KG	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:45:00 AM
CLIENT SAMPLE ID	B-22_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	920	50	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	51000	990	50	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	190000	2000	50	UG/KG	12/29/2023	DLC
Styrene	EPA-8260	U	950	50	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	72000	1200	50	UG/KG	12/29/2023	DLC
Bromoform	EPA-8260	U	860	50	UG/KG	12/29/2023	DLC
Isopropylbenzene	EPA-8260	4400	910	50	UG/KG	12/29/2023	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	1700	50	UG/KG	12/29/2023	DLC
1,2,3-Trichloropropane	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
Bromobenzene	EPA-8260	U	1100	50	UG/KG	12/29/2023	DLC
N-Propyl Benzene	EPA-8260	18000	920	50	UG/KG	12/29/2023	DLC
2-Chlorotoluene	EPA-8260	U	1200	50	UG/KG	12/29/2023	DLC
1,3,5-Trimethylbenzene	EPA-8260	23000	1300	50	UG/KG	12/29/2023	DLC
4-Chlorotoluene	EPA-8260	U	870	50	UG/KG	12/29/2023	DLC
T-Butyl Benzene	EPA-8260	U	2300	50	UG/KG	12/29/2023	DLC
1,2,4-Trimethylbenzene	EPA-8260	84000	1200	50	UG/KG	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	U	1400	50	UG/KG	12/29/2023	DLC
P-Isopropyltoluene	EPA-8260	U	1100	50	UG/KG	12/29/2023	DLC
1,3-Dichlorobenzene	EPA-8260	U	770	50	UG/KG	12/29/2023	DLC
1,4-Dichlorobenzene	EPA-8260	U	950	50	UG/KG	12/29/2023	DLC
N-Butylbenzene	EPA-8260	3800	1800	50	UG/KG	12/29/2023	DLC
1,2-Dichlorobenzene	EPA-8260	U	820	50	UG/KG	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	1400	50	UG/KG	12/29/2023	DLC
Hexachlorobutadiene	EPA-8260	U	1200	50	UG/KG	12/29/2023	DLC
Naphthalene	EPA-8260	5100	920	50	UG/KG	12/29/2023	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	700	50	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 50X Dilution	EPA-8260	101	12/29/2023	DLC
Toluene-d8 50X Dilution	EPA-8260	92.8	12/29/2023	DLC
4-Bromofluorobenzene 50X Dilution	EPA-8260	102	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
E - Reported result is an estimate because it exceeds the calibration range.



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:10:00 PM
CLIENT SAMPLE ID	B-20_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	5300	100	UG/KG	12/29/2023	DLC
Chloromethane	EPA-8260	U	4900	100	UG/KG	12/29/2023	DLC
Vinyl Chloride	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromomethane	EPA-8260	U	5500	100	UG/KG	12/29/2023	DLC
Chloroethane	EPA-8260	U	4100	100	UG/KG	12/29/2023	DLC
Carbon Tetrachloride	EPA-8260	U	2700	100	UG/KG	12/29/2023	DLC
Trichlorofluoromethane	EPA-8260	U	3400	100	UG/KG	12/29/2023	DLC
Carbon Disulfide	EPA-8260	U	3700	100	UG/KG	12/29/2023	DLC
Acetone	EPA-8260	U	5800	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethene	EPA-8260	U	5200	100	UG/KG	12/29/2023	DLC
Methylene Chloride	EPA-8260	U	45000	100	UG/KG	12/29/2023	DLC
Acrylonitrile	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Methyl T-Butyl Ether	EPA-8260	U	5400	100	UG/KG	12/29/2023	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	4900	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethane	EPA-8260	U	2700	100	UG/KG	12/29/2023	DLC
2-Butanone	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	3100	100	UG/KG	12/29/2023	DLC
2,2-Dichloropropane	EPA-8260	U	3900	100	UG/KG	12/29/2023	DLC
Bromochloromethane	EPA-8260	U	3600	100	UG/KG	12/29/2023	DLC
Chloroform	EPA-8260	U	5100	100	UG/KG	12/29/2023	DLC
1,1,1-Trichloroethane	EPA-8260	U	5400	100	UG/KG	12/29/2023	DLC
1,1-Dichloropropene	EPA-8260	U	4400	100	UG/KG	12/29/2023	DLC
1,2-Dichloroethane	EPA-8260	U	1600	100	UG/KG	12/29/2023	DLC
Benzene	EPA-8260	10000	2600	100	UG/KG	12/29/2023	DLC
Trichloroethene	EPA-8260	U	2900	100	UG/KG	12/29/2023	DLC
1,2-Dichloropropane	EPA-8260	U	1700	100	UG/KG	12/29/2023	DLC
Dibromomethane	EPA-8260	U	5300	100	UG/KG	12/29/2023	DLC
Bromodichloromethane	EPA-8260	U	1600	100	UG/KG	12/29/2023	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	3500	100	UG/KG	12/29/2023	DLC
4-Methyl-2-Pentanone	EPA-8260	U	6400	100	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	680000 E	1600	100	UG/KG	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
1,1,2-Trichloroethane	EPA-8260	U	1300	100	UG/KG	12/29/2023	DLC
2-Hexanone	EPA-8260	U	9200	100	UG/KG	12/29/2023	DLC
1,3-Dichloropropane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Tetrachloroethylene	EPA-8260	U	3400	100	UG/KG	12/29/2023	DLC
Dibromochloromethane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
1,2-Dibromoethane	EPA-8260	U	1300	100	UG/KG	12/29/2023	DLC
Chlorobenzene	EPA-8260	U	1500	100	UG/KG	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/2/2024
ALS JOB#: EV24010001
ALS SAMPLE#: EV24010001-03
CLIENT CONTACT: Megan Richard
DATE RECEIVED: 01/02/2024
CLIENT PROJECT: MP-46
COLLECTION DATE: 12/27/2023 12:10:00 PM
CLIENT SAMPLE ID: B-20_24_20231227
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	2000	100	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	140000	2200	100	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	500000	4300	100	UG/KG	12/29/2023	DLC
Styrene	EPA-8260	U	2100	100	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	200000	2700	100	UG/KG	12/29/2023	DLC
Bromoform	EPA-8260	U	1900	100	UG/KG	12/29/2023	DLC
Isopropylbenzene	EPA-8260	12000	2000	100	UG/KG	12/29/2023	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	3800	100	UG/KG	12/29/2023	DLC
1,2,3-Trichloropropane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromobenzene	EPA-8260	U	2400	100	UG/KG	12/29/2023	DLC
N-Propyl Benzene	EPA-8260	46000	2000	100	UG/KG	12/29/2023	DLC
2-Chlorotoluene	EPA-8260	U	2800	100	UG/KG	12/29/2023	DLC
1,3,5-Trimethylbenzene	EPA-8260	53000	2900	100	UG/KG	12/29/2023	DLC
4-Chlorotoluene	EPA-8260	U	1900	100	UG/KG	12/29/2023	DLC
T-Butyl Benzene	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
1,2,4-Trimethylbenzene	EPA-8260	200000	2700	100	UG/KG	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	U	3100	100	UG/KG	12/29/2023	DLC
P-Isopropyltoluene	EPA-8260	U	2500	100	UG/KG	12/29/2023	DLC
1,3-Dichlorobenzene	EPA-8260	U	1700	100	UG/KG	12/29/2023	DLC
1,4-Dichlorobenzene	EPA-8260	U	2100	100	UG/KG	12/29/2023	DLC
N-Butylbenzene	EPA-8260	7500	4000	100	UG/KG	12/29/2023	DLC
1,2-Dichlorobenzene	EPA-8260	U	1800	100	UG/KG	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	3000	100	UG/KG	12/29/2023	DLC
Hexachlorobutadiene	EPA-8260	U	2700	100	UG/KG	12/29/2023	DLC
Naphthalene	EPA-8260	10000	2000	100	UG/KG	12/29/2023	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	1500	100	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	99.4	12/29/2023	DLC
Toluene-d8 100X Dilution	EPA-8260	92.2	12/29/2023	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	102	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
E - Reported result is an estimate because it exceeds the calibration range.



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:15:00 PM
CLIENT SAMPLE ID	B-21_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	4400	100	UG/KG	12/29/2023	DLC
Chloromethane	EPA-8260	U	4100	100	UG/KG	12/29/2023	DLC
Vinyl Chloride	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromomethane	EPA-8260	U	4600	100	UG/KG	12/29/2023	DLC
Chloroethane	EPA-8260	U	3400	100	UG/KG	12/29/2023	DLC
Carbon Tetrachloride	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
Trichlorofluoromethane	EPA-8260	U	2800	100	UG/KG	12/29/2023	DLC
Carbon Disulfide	EPA-8260	U	3100	100	UG/KG	12/29/2023	DLC
Acetone	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethene	EPA-8260	U	4300	100	UG/KG	12/29/2023	DLC
Methylene Chloride	EPA-8260	U	35000	100	UG/KG	12/29/2023	DLC
Acrylonitrile	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Methyl T-Butyl Ether	EPA-8260	U	4500	100	UG/KG	12/29/2023	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	4100	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethane	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
2-Butanone	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2600	100	UG/KG	12/29/2023	DLC
2,2-Dichloropropane	EPA-8260	U	3300	100	UG/KG	12/29/2023	DLC
Bromochloromethane	EPA-8260	U	3000	100	UG/KG	12/29/2023	DLC
Chloroform	EPA-8260	U	4200	100	UG/KG	12/29/2023	DLC
1,1,1-Trichloroethane	EPA-8260	U	4500	100	UG/KG	12/29/2023	DLC
1,1-Dichloropropene	EPA-8260	U	3700	100	UG/KG	12/29/2023	DLC
1,2-Dichloroethane	EPA-8260	U	1300	100	UG/KG	12/29/2023	DLC
Benzene	EPA-8260	11000	2200	100	UG/KG	12/29/2023	DLC
Trichloroethene	EPA-8260	U	2400	100	UG/KG	12/29/2023	DLC
1,2-Dichloropropane	EPA-8260	U	1400	100	UG/KG	12/29/2023	DLC
Dibromomethane	EPA-8260	U	4500	100	UG/KG	12/29/2023	DLC
Bromodichloromethane	EPA-8260	U	1400	100	UG/KG	12/29/2023	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	3000	100	UG/KG	12/29/2023	DLC
4-Methyl-2-Pentanone	EPA-8260	U	5300	100	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	350000	1300	100	UG/KG	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	1900	100	UG/KG	12/29/2023	DLC
1,1,2-Trichloroethane	EPA-8260	U	1100	100	UG/KG	12/29/2023	DLC
2-Hexanone	EPA-8260	U	7700	100	UG/KG	12/29/2023	DLC
1,3-Dichloropropane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Tetrachloroethylene	EPA-8260	U	2800	100	UG/KG	12/29/2023	DLC
Dibromochloromethane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
1,2-Dibromoethane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Chlorobenzene	EPA-8260	U	1200	100	UG/KG	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:15:00 PM
CLIENT SAMPLE ID	B-21_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	1700	100	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	89000	1800	100	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	330000	3600	100	UG/KG	12/29/2023	DLC
Styrene	EPA-8260	U	1800	100	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	130000	2300	100	UG/KG	12/29/2023	DLC
Bromoform	EPA-8260	U	1600	100	UG/KG	12/29/2023	DLC
Isopropylbenzene	EPA-8260	8400	1700	100	UG/KG	12/29/2023	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	3100	100	UG/KG	12/29/2023	DLC
1,2,3-Trichloropropane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromobenzene	EPA-8260	U	2000	100	UG/KG	12/29/2023	DLC
N-Propyl Benzene	EPA-8260	34000	1700	100	UG/KG	12/29/2023	DLC
2-Chlorotoluene	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
1,3,5-Trimethylbenzene	EPA-8260	45000	2400	100	UG/KG	12/29/2023	DLC
4-Chlorotoluene	EPA-8260	U	1600	100	UG/KG	12/29/2023	DLC
T-Butyl Benzene	EPA-8260	U	4200	100	UG/KG	12/29/2023	DLC
1,2,4-Trimethylbenzene	EPA-8260	170000	2300	100	UG/KG	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	U	2600	100	UG/KG	12/29/2023	DLC
P-Isopropyltoluene	EPA-8260	U	2100	100	UG/KG	12/29/2023	DLC
1,3-Dichlorobenzene	EPA-8260	U	1400	100	UG/KG	12/29/2023	DLC
1,4-Dichlorobenzene	EPA-8260	U	1800	100	UG/KG	12/29/2023	DLC
N-Butylbenzene	EPA-8260	7400	3300	100	UG/KG	12/29/2023	DLC
1,2-Dichlorobenzene	EPA-8260	U	1500	100	UG/KG	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2500	100	UG/KG	12/29/2023	DLC
Hexachlorobutadiene	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
Naphthalene	EPA-8260	11000	1700	100	UG/KG	12/29/2023	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	1300	100	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	101	12/29/2023	DLC
Toluene-d8 100X Dilution	EPA-8260	92.6	12/29/2023	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	101	12/29/2023	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:40:00 PM
CLIENT SAMPLE ID	SW-S-10_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	41	1	UG/KG	01/02/2024	DLC
Chloromethane	EPA-8260	U	37	1	UG/KG	01/02/2024	DLC
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	01/02/2024	DLC
Bromomethane	EPA-8260	U	42	1	UG/KG	01/02/2024	DLC
Chloroethane	EPA-8260	U	32	1	UG/KG	01/02/2024	DLC
Carbon Tetrachloride	EPA-8260	U	21	1	UG/KG	01/02/2024	DLC
Trichlorofluoromethane	EPA-8260	U	26	1	UG/KG	01/02/2024	DLC
Carbon Disulfide	EPA-8260	U	28	1	UG/KG	01/02/2024	DLC
Acetone	EPA-8260	U	50	1	UG/KG	01/02/2024	DLC
1,1-Dichloroethene	EPA-8260	U	40	1	UG/KG	01/02/2024	DLC
Methylene Chloride	EPA-8260	U	460	1	UG/KG	01/02/2024	DLC
Acrylonitrile	EPA-8260	U	50	1	UG/KG	01/02/2024	DLC
Methyl T-Butyl Ether	EPA-8260	U	41	1	UG/KG	01/02/2024	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	38	1	UG/KG	01/02/2024	DLC
1,1-Dichloroethane	EPA-8260	U	21	1	UG/KG	01/02/2024	DLC
2-Butanone	EPA-8260	U	50	1	UG/KG	01/02/2024	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	24	1	UG/KG	01/02/2024	DLC
2,2-Dichloropropane	EPA-8260	U	30	1	UG/KG	01/02/2024	DLC
Bromochloromethane	EPA-8260	U	28	1	UG/KG	01/02/2024	DLC
Chloroform	EPA-8260	U	39	1	UG/KG	01/02/2024	DLC
1,1,1-Trichloroethane	EPA-8260	U	41	1	UG/KG	01/02/2024	DLC
1,1-Dichloropropene	EPA-8260	U	34	1	UG/KG	01/02/2024	DLC
1,2-Dichloroethane	EPA-8260	U	12	1	UG/KG	01/02/2024	DLC
Benzene	EPA-8260	400	20	1	UG/KG	01/02/2024	DLC
Trichloroethene	EPA-8260	U	22	1	UG/KG	01/02/2024	DLC
1,2-Dichloropropane	EPA-8260	U	13	1	UG/KG	01/02/2024	DLC
Dibromomethane	EPA-8260	U	41	1	UG/KG	01/02/2024	DLC
Bromodichloromethane	EPA-8260	U	12	1	UG/KG	01/02/2024	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	27	1	UG/KG	01/02/2024	DLC
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	01/02/2024	DLC
Toluene	EPA-8260	25000	1200	100	UG/KG	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	17	1	UG/KG	01/02/2024	DLC
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	01/02/2024	DLC
2-Hexanone	EPA-8260	U	71	1	UG/KG	01/02/2024	DLC
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	01/02/2024	DLC
Tetrachloroethylene	EPA-8260	U	26	1	UG/KG	01/02/2024	DLC
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	01/02/2024	DLC
1,2-Dibromoethane	EPA-8260	U	9.6	1	UG/KG	01/02/2024	DLC
Chlorobenzene	EPA-8260	U	11	1	UG/KG	01/02/2024	DLC



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/2/2024
ALS JOB#: EV24010001
ALS SAMPLE#: EV24010001-05
CLIENT CONTACT: Megan Richard
DATE RECEIVED: 01/02/2024
CLIENT PROJECT: MP-46
COLLECTION DATE: 12/27/2023 12:40:00 PM
CLIENT SAMPLE ID: SW-S-10_24_20231227
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	16	1	UG/KG	01/02/2024	DLC
Ethylbenzene	EPA-8260	6400	1700	100	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	24000	3300	100	UG/KG	12/29/2023	DLC
Styrene	EPA-8260	U	16	1	UG/KG	01/02/2024	DLC
o-Xylene	EPA-8260	8400	2100	100	UG/KG	12/29/2023	DLC
Bromoform	EPA-8260	U	15	1	UG/KG	01/02/2024	DLC
Isopropylbenzene	EPA-8260	560	15	1	UG/KG	01/02/2024	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	29	1	UG/KG	01/02/2024	DLC
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	01/02/2024	DLC
Bromobenzene	EPA-8260	U	19	1	UG/KG	01/02/2024	DLC
N-Propyl Benzene	EPA-8260	2100	16	1	UG/KG	01/02/2024	DLC
2-Chlorotoluene	EPA-8260	U	21	1	UG/KG	01/02/2024	DLC
1,3,5-Trimethylbenzene	EPA-8260	2600	22	1	UG/KG	01/02/2024	DLC
4-Chlorotoluene	EPA-8260	U	15	1	UG/KG	01/02/2024	DLC
T-Butyl Benzene	EPA-8260	U	39	1	UG/KG	01/02/2024	DLC
1,2,4-Trimethylbenzene	EPA-8260	10000	2100	100	UG/KG	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	150	23	1	UG/KG	01/02/2024	DLC
P-Isopropyltoluene	EPA-8260	70	19	1	UG/KG	01/02/2024	DLC
1,3-Dichlorobenzene	EPA-8260	U	13	1	UG/KG	01/02/2024	DLC
1,4-Dichlorobenzene	EPA-8260	U	16	1	UG/KG	01/02/2024	DLC
N-Butylbenzene	EPA-8260	470	30	1	UG/KG	01/02/2024	DLC
1,2-Dichlorobenzene	EPA-8260	U	14	1	UG/KG	01/02/2024	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	01/02/2024	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	23	1	UG/KG	01/02/2024	DLC
Hexachlorobutadiene	EPA-8260	U	21	1	UG/KG	01/02/2024	DLC
Naphthalene	EPA-8260	210	16	1	UG/KG	01/02/2024	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	12	1	UG/KG	01/02/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	101	12/29/2023	DLC
1,2-Dichloroethane-d4	EPA-8260	94.9	01/02/2024	DLC
Toluene-d8 100X Dilution	EPA-8260	95.8	12/29/2023	DLC
Toluene-d8	EPA-8260	87.2	01/02/2024	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	102	12/29/2023	DLC
4-Bromofluorobenzene	EPA-8260	99.9	01/02/2024	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

DATE: 1/2/2024
ALS JOB#: EV24010001
ALS SAMPLE#: EV24010001-06

CLIENT CONTACT: Megan Richard

DATE RECEIVED: 01/02/2024

CLIENT PROJECT: MP-46

COLLECTION DATE: 12/27/2023 1:05:00 PM

CLIENT SAMPLE ID B-19_24_20231227

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	5700	100	UG/KG	12/29/2023	DLC
Chloromethane	EPA-8260	U	5200	100	UG/KG	12/29/2023	DLC
Vinyl Chloride	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromomethane	EPA-8260	U	5900	100	UG/KG	12/29/2023	DLC
Chloroethane	EPA-8260	U	4400	100	UG/KG	12/29/2023	DLC
Carbon Tetrachloride	EPA-8260	U	2900	100	UG/KG	12/29/2023	DLC
Trichlorofluoromethane	EPA-8260	U	3600	100	UG/KG	12/29/2023	DLC
Carbon Disulfide	EPA-8260	U	3900	100	UG/KG	12/29/2023	DLC
Acetone	EPA-8260	U	6200	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethene	EPA-8260	U	5600	100	UG/KG	12/29/2023	DLC
Methylene Chloride	EPA-8260	U	28000	100	UG/KG	12/29/2023	DLC
Acrylonitrile	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Methyl T-Butyl Ether	EPA-8260	U	5800	100	UG/KG	12/29/2023	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	5300	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethane	EPA-8260	U	2900	100	UG/KG	12/29/2023	DLC
2-Butanone	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	3300	100	UG/KG	12/29/2023	DLC
2,2-Dichloropropane	EPA-8260	U	4200	100	UG/KG	12/29/2023	DLC
Bromochloromethane	EPA-8260	U	3900	100	UG/KG	12/29/2023	DLC
Chloroform	EPA-8260	U	5400	100	UG/KG	12/29/2023	DLC
1,1,1-Trichloroethane	EPA-8260	U	5800	100	UG/KG	12/29/2023	DLC
1,1-Dichloropropene	EPA-8260	U	4700	100	UG/KG	12/29/2023	DLC
1,2-Dichloroethane	EPA-8260	U	1700	100	UG/KG	12/29/2023	DLC
Benzene	EPA-8260	U	2800	100	UG/KG	12/29/2023	DLC
Trichloroethene	EPA-8260	U	3100	100	UG/KG	12/29/2023	DLC
1,2-Dichloropropane	EPA-8260	U	1800	100	UG/KG	12/29/2023	DLC
Dibromomethane	EPA-8260	U	5700	100	UG/KG	12/29/2023	DLC
Bromodichloromethane	EPA-8260	U	1700	100	UG/KG	12/29/2023	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	3800	100	UG/KG	12/29/2023	DLC
4-Methyl-2-Pentanone	EPA-8260	U	6800	100	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	130000	1700	100	UG/KG	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2400	100	UG/KG	12/29/2023	DLC
1,1,2-Trichloroethane	EPA-8260	U	1400	100	UG/KG	12/29/2023	DLC
2-Hexanone	EPA-8260	U	9900	100	UG/KG	12/29/2023	DLC
1,3-Dichloropropane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Tetrachloroethylene	EPA-8260	U	3600	100	UG/KG	12/29/2023	DLC
Dibromochloromethane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
1,2-Dibromoethane	EPA-8260	U	1300	100	UG/KG	12/29/2023	DLC
Chlorobenzene	EPA-8260	U	1600	100	UG/KG	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:05:00 PM
CLIENT SAMPLE ID	B-19_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	2200	100	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	41000	2400	100	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	160000	4700	100	UG/KG	12/29/2023	DLC
Styrene	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	65000	2900	100	UG/KG	12/29/2023	DLC
Bromoform	EPA-8260	U	2000	100	UG/KG	12/29/2023	DLC
Isopropylbenzene	EPA-8260	4400	2200	100	UG/KG	12/29/2023	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	4000	100	UG/KG	12/29/2023	DLC
1,2,3-Trichloropropane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromobenzene	EPA-8260	U	2600	100	UG/KG	12/29/2023	DLC
N-Propyl Benzene	EPA-8260	18000	2200	100	UG/KG	12/29/2023	DLC
2-Chlorotoluene	EPA-8260	U	3000	100	UG/KG	12/29/2023	DLC
1,3,5-Trimethylbenzene	EPA-8260	24000	3100	100	UG/KG	12/29/2023	DLC
4-Chlorotoluene	EPA-8260	U	2100	100	UG/KG	12/29/2023	DLC
T-Butyl Benzene	EPA-8260	U	5400	100	UG/KG	12/29/2023	DLC
1,2,4-Trimethylbenzene	EPA-8260	88000	2900	100	UG/KG	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	U	3300	100	UG/KG	12/29/2023	DLC
P-Isopropyltoluene	EPA-8260	U	2700	100	UG/KG	12/29/2023	DLC
1,3-Dichlorobenzene	EPA-8260	U	1800	100	UG/KG	12/29/2023	DLC
1,4-Dichlorobenzene	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
N-Butylbenzene	EPA-8260	U	4200	100	UG/KG	12/29/2023	DLC
1,2-Dichlorobenzene	EPA-8260	U	2000	100	UG/KG	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	3300	100	UG/KG	12/29/2023	DLC
Hexachlorobutadiene	EPA-8260	U	2900	100	UG/KG	12/29/2023	DLC
Naphthalene	EPA-8260	8000	2200	100	UG/KG	12/29/2023	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	1700	100	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	101	12/29/2023	DLC
Toluene-d8 100X Dilution	EPA-8260	93.7	12/29/2023	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	101	12/29/2023	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:15:00 PM
CLIENT SAMPLE ID	B-12_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	6700	100	UG/KG	12/29/2023	DLC
Chloromethane	EPA-8260	U	6200	100	UG/KG	12/29/2023	DLC
Vinyl Chloride	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromomethane	EPA-8260	U	7100	100	UG/KG	12/29/2023	DLC
Chloroethane	EPA-8260	U	5200	100	UG/KG	12/29/2023	DLC
Carbon Tetrachloride	EPA-8260	U	3400	100	UG/KG	12/29/2023	DLC
Trichlorofluoromethane	EPA-8260	U	4300	100	UG/KG	12/29/2023	DLC
Carbon Disulfide	EPA-8260	U	4700	100	UG/KG	12/29/2023	DLC
Acetone	EPA-8260	U	7300	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethene	EPA-8260	U	6600	100	UG/KG	12/29/2023	DLC
Methylene Chloride	EPA-8260	U	58000	100	UG/KG	12/29/2023	DLC
Acrylonitrile	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Methyl T-Butyl Ether	EPA-8260	U	6900	100	UG/KG	12/29/2023	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	6300	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethane	EPA-8260	U	3500	100	UG/KG	12/29/2023	DLC
2-Butanone	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	3900	100	UG/KG	12/29/2023	DLC
2,2-Dichloropropane	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Bromochloromethane	EPA-8260	U	4600	100	UG/KG	12/29/2023	DLC
Chloroform	EPA-8260	U	6400	100	UG/KG	12/29/2023	DLC
1,1,1-Trichloroethane	EPA-8260	U	6900	100	UG/KG	12/29/2023	DLC
1,1-Dichloropropene	EPA-8260	U	5600	100	UG/KG	12/29/2023	DLC
1,2-Dichloroethane	EPA-8260	U	2000	100	UG/KG	12/29/2023	DLC
Benzene	EPA-8260	18000	3400	100	UG/KG	12/29/2023	DLC
Trichloroethene	EPA-8260	U	3700	100	UG/KG	12/29/2023	DLC
1,2-Dichloropropane	EPA-8260	U	2100	100	UG/KG	12/29/2023	DLC
Dibromomethane	EPA-8260	U	6800	100	UG/KG	12/29/2023	DLC
Bromodichloromethane	EPA-8260	U	2100	100	UG/KG	12/29/2023	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	4500	100	UG/KG	12/29/2023	DLC
4-Methyl-2-Pentanone	EPA-8260	U	8100	100	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	510000	2000	100	UG/KG	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2900	100	UG/KG	12/29/2023	DLC
1,1,2-Trichloroethane	EPA-8260	U	1700	100	UG/KG	12/29/2023	DLC
2-Hexanone	EPA-8260	U	12000	100	UG/KG	12/29/2023	DLC
1,3-Dichloropropane	EPA-8260	U	1100	100	UG/KG	12/29/2023	DLC
Tetrachloroethylene	EPA-8260	U	4300	100	UG/KG	12/29/2023	DLC
Dibromochloromethane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
1,2-Dibromoethane	EPA-8260	U	1600	100	UG/KG	12/29/2023	DLC
Chlorobenzene	EPA-8260	U	1900	100	UG/KG	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:15:00 PM
CLIENT SAMPLE ID	B-12_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	2600	100	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	110000	2800	100	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	420000	5500	100	UG/KG	12/29/2023	DLC
Styrene	EPA-8260	U	2700	100	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	160000	3500	100	UG/KG	12/29/2023	DLC
Bromoform	EPA-8260	U	2400	100	UG/KG	12/29/2023	DLC
Isopropylbenzene	EPA-8260	9400	2600	100	UG/KG	12/29/2023	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	4800	100	UG/KG	12/29/2023	DLC
1,2,3-Trichloropropane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromobenzene	EPA-8260	U	3100	100	UG/KG	12/29/2023	DLC
N-Propyl Benzene	EPA-8260	38000	2600	100	UG/KG	12/29/2023	DLC
2-Chlorotoluene	EPA-8260	U	3500	100	UG/KG	12/29/2023	DLC
1,3,5-Trimethylbenzene	EPA-8260	50000	3700	100	UG/KG	12/29/2023	DLC
4-Chlorotoluene	EPA-8260	U	2500	100	UG/KG	12/29/2023	DLC
T-Butyl Benzene	EPA-8260	U	6400	100	UG/KG	12/29/2023	DLC
1,2,4-Trimethylbenzene	EPA-8260	180000	3500	100	UG/KG	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	U	3900	100	UG/KG	12/29/2023	DLC
P-Isopropyltoluene	EPA-8260	U	3200	100	UG/KG	12/29/2023	DLC
1,3-Dichlorobenzene	EPA-8260	U	2200	100	UG/KG	12/29/2023	DLC
1,4-Dichlorobenzene	EPA-8260	U	2700	100	UG/KG	12/29/2023	DLC
N-Butylbenzene	EPA-8260	8100	5100	100	UG/KG	12/29/2023	DLC
1,2-Dichlorobenzene	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	3900	100	UG/KG	12/29/2023	DLC
Hexachlorobutadiene	EPA-8260	U	3500	100	UG/KG	12/29/2023	DLC
Naphthalene	EPA-8260	13000	2600	100	UG/KG	12/29/2023	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2000	100	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	102	12/29/2023	DLC
Toluene-d8 100X Dilution	EPA-8260	92.4	12/29/2023	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	102	12/29/2023	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

DATE: 1/2/2024
ALS SDG#: EV24010001
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-122923S - Batch 205534 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Chloromethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Vinyl Chloride	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Bromomethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Chloroethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Carbon Tetrachloride	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Trichlorofluoromethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Carbon Disulfide	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Acetone	EPA-8260	U	UG/KG	50	12/29/2023	DLC
1,1-Dichloroethene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Methylene Chloride	EPA-8260	U	UG/KG	460	12/29/2023	DLC
Acrylonitrile	EPA-8260	U	UG/KG	50	12/29/2023	DLC
Methyl T-Butyl Ether	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,1-Dichloroethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
2-Butanone	EPA-8260	U	UG/KG	50	12/29/2023	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
2,2-Dichloropropane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Bromochloromethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Chloroform	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,1,1-Trichloroethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,1-Dichloropropene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2-Dichloroethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Benzene	EPA-8260	U	UG/KG	5.0	12/29/2023	DLC
Trichloroethene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2-Dichloropropane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Dibromomethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Bromodichloromethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
4-Methyl-2-Pentanone	EPA-8260	U	UG/KG	50	12/29/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,1,2-Trichloroethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
2-Hexanone	EPA-8260	U	UG/KG	50	12/29/2023	DLC
1,3-Dichloropropane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Tetrachloroethylene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Dibromochloromethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2-Dibromoethane	EPA-8260	U	UG/KG	5.0	12/29/2023	DLC
Chlorobenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

DATE: 1/2/2024
ALS SDG#: EV24010001
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-122923S - Batch 205534 - Soil by EPA-8260

1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/29/2023	DLC
Styrene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Bromoform	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Isopropylbenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2,3-Trichloropropane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Bromobenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
N-Propyl Benzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
2-Chlorotoluene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,3,5-Trimethylbenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
4-Chlorotoluene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
T-Butyl Benzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2,4-Trimethylbenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
P-Isopropyltoluene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,3-Dichlorobenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,4-Dichlorobenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
N-Butylbenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2-Dichlorobenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/KG	50	12/29/2023	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Hexachlorobutadiene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Naphthalene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

DATE: 1/2/2024
ALS SDG#: EV24010001
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 205534 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	122			50	150	12/29/2023	DLC
Dichlorodifluoromethane - BSD	EPA-8260	118	3		50	150	12/29/2023	DLC
Chloromethane - BS	EPA-8260	131			50	150	12/29/2023	DLC
Chloromethane - BSD	EPA-8260	125	5		50	150	12/29/2023	DLC
Vinyl Chloride - BS	EPA-8260	116			50	150	12/29/2023	DLC
Vinyl Chloride - BSD	EPA-8260	114	2		50	150	12/29/2023	DLC
Bromomethane - BS	EPA-8260	110			50	150	12/29/2023	DLC
Bromomethane - BSD	EPA-8260	114	3		50	150	12/29/2023	DLC
Chloroethane - BS	EPA-8260	106			50	150	12/29/2023	DLC
Chloroethane - BSD	EPA-8260	104	2		50	150	12/29/2023	DLC
Carbon Tetrachloride - BS	EPA-8260	99.7			50	150	12/29/2023	DLC
Carbon Tetrachloride - BSD	EPA-8260	99.9	0		50	150	12/29/2023	DLC
Trichlorofluoromethane - BS	EPA-8260	109			50	150	12/29/2023	DLC
Trichlorofluoromethane - BSD	EPA-8260	108	0		50	150	12/29/2023	DLC
Carbon Disulfide - BS	EPA-8260	116			50	150	12/29/2023	DLC
Carbon Disulfide - BSD	EPA-8260	115	1		50	150	12/29/2023	DLC
Acetone - BS	EPA-8260	284		SQ3	50	150	12/29/2023	DLC
Acetone - BSD	EPA-8260	221	25	SQ3	50	150	12/29/2023	DLC
1,1-Dichloroethene - BS	EPA-8260	106			70	130	12/29/2023	DLC
1,1-Dichloroethene - BSD	EPA-8260	105	1		70	130	12/29/2023	DLC
Methylene Chloride - BS	EPA-8260	141			50	150	12/29/2023	DLC
Methylene Chloride - BSD	EPA-8260	135	4		50	150	12/29/2023	DLC
Acrylonitrile - BS	EPA-8260	107			50	150	12/29/2023	DLC
Acrylonitrile - BSD	EPA-8260	106	1		50	150	12/29/2023	DLC
Methyl T-Butyl Ether - BS	EPA-8260	119			50	150	12/29/2023	DLC
Methyl T-Butyl Ether - BSD	EPA-8260	121	2		50	150	12/29/2023	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	106			50	150	12/29/2023	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	105	1		50	150	12/29/2023	DLC
1,1-Dichloroethane - BS	EPA-8260	103			50	150	12/29/2023	DLC
1,1-Dichloroethane - BSD	EPA-8260	102	1		50	150	12/29/2023	DLC
2-Butanone - BS	EPA-8260	182		SQ3	50	150	12/29/2023	DLC
2-Butanone - BSD	EPA-8260	164	11	SQ3	50	150	12/29/2023	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	104			50	150	12/29/2023	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	103	1		50	150	12/29/2023	DLC
2,2-Dichloropropane - BS	EPA-8260	110			50	150	12/29/2023	DLC
2,2-Dichloropropane - BSD	EPA-8260	108	3		50	150	12/29/2023	DLC
Bromochloromethane - BS	EPA-8260	107			50	150	12/29/2023	DLC
Bromochloromethane - BSD	EPA-8260	106	0		50	150	12/29/2023	DLC
Chloroform - BS	EPA-8260	107			50	150	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
 18378-B Redmond Way
 Redmond, WA 98052-5012
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

DATE: 1/2/2024
ALS SDG#: EV24010001
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Chloroform - BSD	EPA-8260	106	1		50	150	12/29/2023	DLC
1,1,1-Trichloroethane - BS	EPA-8260	101			50	150	12/29/2023	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	101	0		50	150	12/29/2023	DLC
1,1-Dichloropropene - BS	EPA-8260	105			50	150	12/29/2023	DLC
1,1-Dichloropropene - BSD	EPA-8260	103	2		50	150	12/29/2023	DLC
1,2-Dichloroethane - BS	EPA-8260	93.5			50	150	12/29/2023	DLC
1,2-Dichloroethane - BSD	EPA-8260	93.2	0		50	150	12/29/2023	DLC
Benzene - BS	EPA-8260	93.7			75	138	12/29/2023	DLC
Benzene - BSD	EPA-8260	91.9	2		75	138	12/29/2023	DLC
Trichloroethene - BS	EPA-8260	92.9			75	136	12/29/2023	DLC
Trichloroethene - BSD	EPA-8260	91.1	2		75	136	12/29/2023	DLC
1,2-Dichloropropane - BS	EPA-8260	98.5			50	150	12/29/2023	DLC
1,2-Dichloropropane - BSD	EPA-8260	96.1	2		50	150	12/29/2023	DLC
Dibromomethane - BS	EPA-8260	103			50	150	12/29/2023	DLC
Dibromomethane - BSD	EPA-8260	104	1		50	150	12/29/2023	DLC
Bromodichloromethane - BS	EPA-8260	96.2			50	150	12/29/2023	DLC
Bromodichloromethane - BSD	EPA-8260	95.2	1		50	150	12/29/2023	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	99.2			50	150	12/29/2023	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	101	2		50	150	12/29/2023	DLC
4-Methyl-2-Pentanone - BS	EPA-8260	121			50	150	12/29/2023	DLC
4-Methyl-2-Pentanone - BSD	EPA-8260	127	5		50	150	12/29/2023	DLC
Toluene - BS	EPA-8260	105			71.6	122.1	12/29/2023	DLC
Toluene - BSD	EPA-8260	101	4		71.6	122.1	12/29/2023	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	104			50	150	12/29/2023	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	102	1		50	150	12/29/2023	DLC
1,1,2-Trichloroethane - BS	EPA-8260	97.1			50	150	12/29/2023	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	97.1	0		50	150	12/29/2023	DLC
2-Hexanone - BS	EPA-8260	147			50	150	12/29/2023	DLC
2-Hexanone - BSD	EPA-8260	134	9		50	150	12/29/2023	DLC
1,3-Dichloropropane - BS	EPA-8260	98.1			50	150	12/29/2023	DLC
1,3-Dichloropropane - BSD	EPA-8260	98.9	1		50	150	12/29/2023	DLC
Tetrachloroethylene - BS	EPA-8260	80.6			50	150	12/29/2023	DLC
Tetrachloroethylene - BSD	EPA-8260	81.0	0		50	150	12/29/2023	DLC
Dibromochloromethane - BS	EPA-8260	95.6			50	150	12/29/2023	DLC
Dibromochloromethane - BSD	EPA-8260	97.1	2		50	150	12/29/2023	DLC
1,2-Dibromoethane - BS	EPA-8260	100			50	150	12/29/2023	DLC
1,2-Dibromoethane - BSD	EPA-8260	103	2		50	150	12/29/2023	DLC
Chlorobenzene - BS	EPA-8260	89.2			79	128	12/29/2023	DLC
Chlorobenzene - BSD	EPA-8260	88.0	1		79	128	12/29/2023	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	87.8			50	150	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

DATE: 1/2/2024
ALS SDG#: EV24010001
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	88.7	1		50	150	12/29/2023	DLC
Ethylbenzene - BS	EPA-8260	92.7			50	150	12/29/2023	DLC
Ethylbenzene - BSD	EPA-8260	91.3	1		50	150	12/29/2023	DLC
m,p-Xylene - BS	EPA-8260	96.1			50	150	12/29/2023	DLC
m,p-Xylene - BSD	EPA-8260	94.0	2		50	150	12/29/2023	DLC
Styrene - BS	EPA-8260	93.4			50	150	12/29/2023	DLC
Styrene - BSD	EPA-8260	92.6	1		50	150	12/29/2023	DLC
o-Xylene - BS	EPA-8260	93.5			50	150	12/29/2023	DLC
o-Xylene - BSD	EPA-8260	91.2	2		50	150	12/29/2023	DLC
Bromoform - BS	EPA-8260	104			50	150	12/29/2023	DLC
Bromoform - BSD	EPA-8260	106	2		50	150	12/29/2023	DLC
Isopropylbenzene - BS	EPA-8260	89.0			50	150	12/29/2023	DLC
Isopropylbenzene - BSD	EPA-8260	87.8	1		50	150	12/29/2023	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	104			50	150	12/29/2023	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	107	3		50	150	12/29/2023	DLC
1,2,3-Trichloropropane - BS	EPA-8260	102			50	150	12/29/2023	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	105	3		50	150	12/29/2023	DLC
Bromobenzene - BS	EPA-8260	89.0			50	150	12/29/2023	DLC
Bromobenzene - BSD	EPA-8260	88.1	1		50	150	12/29/2023	DLC
N-Propyl Benzene - BS	EPA-8260	91.1			50	150	12/29/2023	DLC
N-Propyl Benzene - BSD	EPA-8260	88.3	3		50	150	12/29/2023	DLC
2-Chlorotoluene - BS	EPA-8260	89.2			50	150	12/29/2023	DLC
2-Chlorotoluene - BSD	EPA-8260	87.1	2		50	150	12/29/2023	DLC
1,3,5-Trimethylbenzene - BS	EPA-8260	88.0			50	150	12/29/2023	DLC
1,3,5-Trimethylbenzene - BSD	EPA-8260	86.2	2		50	150	12/29/2023	DLC
4-Chlorotoluene - BS	EPA-8260	90.3			50	150	12/29/2023	DLC
4-Chlorotoluene - BSD	EPA-8260	88.4	2		50	150	12/29/2023	DLC
T-Butyl Benzene - BS	EPA-8260	89.8			50	150	12/29/2023	DLC
T-Butyl Benzene - BSD	EPA-8260	88.6	1		50	150	12/29/2023	DLC
1,2,4-Trimethylbenzene - BS	EPA-8260	96.6			50	150	12/29/2023	DLC
1,2,4-Trimethylbenzene - BSD	EPA-8260	93.3	4		50	150	12/29/2023	DLC
S-Butyl Benzene - BS	EPA-8260	89.2			50	150	12/29/2023	DLC
S-Butyl Benzene - BSD	EPA-8260	86.9	3		50	150	12/29/2023	DLC
P-Isopropyltoluene - BS	EPA-8260	89.4			50	150	12/29/2023	DLC
P-Isopropyltoluene - BSD	EPA-8260	87.8	2		50	150	12/29/2023	DLC
1,3-Dichlorobenzene - BS	EPA-8260	88.2			50	150	12/29/2023	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	87.1	1		50	150	12/29/2023	DLC
1,4-Dichlorobenzene - BS	EPA-8260	87.9			50	150	12/29/2023	DLC
1,4-Dichlorobenzene - BSD	EPA-8260	87.4	1		50	150	12/29/2023	DLC
N-Butylbenzene - BS	EPA-8260	89.8			50	150	12/29/2023	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS SDG#:	EV24010001
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
N-Butylbenzene - BSD	EPA-8260	88.3	2		50	150	12/29/2023	DLC
1,2-Dichlorobenzene - BS	EPA-8260	89.9			50	150	12/29/2023	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	89.5	0		50	150	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	106			50	150	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	114	8		50	150	12/29/2023	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	88.5			50	150	12/29/2023	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	90.6	2		50	150	12/29/2023	DLC
Hexachlorobutadiene - BS	EPA-8260	85.8			50	150	12/29/2023	DLC
Hexachlorobutadiene - BSD	EPA-8260	86.4	1		50	150	12/29/2023	DLC
Naphthalene - BS	EPA-8260	82.6			50	150	12/29/2023	DLC
Naphthalene - BSD	EPA-8260	92.1	11		50	150	12/29/2023	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	71.8			50	150	12/29/2023	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	79.3	10		50	150	12/29/2023	DLC

SQ3 - Spike outside of control limits due to sporadic marginal failure. All other spikes in extraction fraction within control limits. No corrective action taken.

APPROVED BY



Rob Greer
Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS-Inh# (Laboratory Use Only)

EV24010001

Date 12/27/23 Page 1 Of 1

PROJECT ID: <u>MP-46</u>					ANALYSIS REQUESTED															OTHER (Specify)									
REPORT TO COMPANY: <u>Antev</u>																													
PROJECT MANAGER: <u>Megan Richard</u>																													
ADDRESS: <u>18378-B Redmondway</u> <u>Redmond, WA</u>																													
PHONE: <u>206-254-0399</u> P.O. #:																													
E-MAIL: <u>Megan.Richard@AntevGroup.VS</u>																													
INVOICE TO COMPANY: <u>Same as above</u>																													
ATTENTION: <u>Digital Solutions, Equis@AntevGroup.VS</u>																													
ADDRESS: <u>Same as above</u>																													
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	Metals-MTCA-5	RCRA-8	Pri Pol	TAL	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. SW-N-13-R-20231227	12/27/23	1040	Soil	1																									
2. SW-N-13-24-20231227	12/27/23	1055	↓	2																									
3. SW-E-4-12-20231227	12/27/23	1050	↓	3																									
4. SW-E-4-24-20231227	12/27/23	1105	↓	4																									
5. SW-S-13-12-20231227	12/27/23	1110	↓	5																									
6. B-25-24-20231227	12/27/23	1115	↓	6																									
7. SW-S-13-24-20231227	12/27/23	1120	↓	7																									
8. B-24-24-20231227	12/27/23	1130	↓	8																									
9. SW-N-13-12-20231227	12/27/23	1150	↓	9																									
10. SW-N-13-24-20231227	12/27/23	1155	↓	10																									

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

- Relinquished By: Celia Dechenne, Antev Group, 12/27/23
Received By: ACJ 12/27/23 3:00pm
- Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis OTHER:

Standard 10 5 3 2 ☒ SAME DAY

Fuels & Hydrocarbon Analysis

Standard 5 3 ☒ SAME DAY

Specify: 24 hr
ASAP



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV24010001

Date 12/27/23 Page 2 Of 2

PROJECT ID: <u>MP-46</u>					ANALYSIS REQUESTED												OTHER (Specify)												
REPORT TO COMPANY: <u>Antec Group</u>					☐ NWTPH-HCID ☐ NWTPH-DX ☒ NWTPH-GX ☐ BTEX by EPA 8021 ☐ MTBE by EPA 8021 ☐ Halogenated Volatiles by EPA 8260 ☐ Volatile Organic Compounds by EPA 8260 ☐ EDB / EDC by EPA 8260 SIM (water) ☐ EDB / EDC by EPA 8260 (soil) ☐ Semivolatile Organic Compounds by EPA 8270 ☐ Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM ☐ PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐ Metals-MTCA-5 ☐ RCRA-8 ☐ PFI Pol ☐ TAL ☐ Metals Other (Specify) ☐ TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs																								
PROJECT MANAGER: <u>Megan Richard</u>																													
ADDRESS: <u>12378-B Redmont Way</u> <u>Redmont WA</u>																													
PHONE: <u>206-894-0399</u> P.O. #:																													
E-MAIL: <u>Megan.Richard@Antecgroup.us</u>																													
INVOICE TO COMPANY: <u>Same as above</u>																													
ATTENTION: <u>Digital Solutions - Equis@Antecgroup.us</u>																													
ADDRESS: <u>Same as above</u>																													
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	Metals-MTCA-5	RCRA-8	PFI Pol	TAL	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. SW-1-12-2023/1221	12/21/23	1205	Soil	11																									
2. SW-1-12-2023/1221	12/21/23	1140		12																									
3. B-22-24-2023/1227		1145		11																									
4. B-23-24-2023/1227		1200		19																									
5. SW-N-11-12-2023/1227		1220	✓	11																									
6. SW-N-11-24-2023/1227		1225		16																									
7. SW-S-11-12-2023/1227	✓	1230		17																									
8. SW-S-11-12-2023/1227		1235		18																									
9. B-20-24-2023/1227		1210		15																									
10. B-21-24-2023/1227		1215		24																									

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Colin Decker, Antec Group, 12/27/23
Received By: [Signature] As, 12/27/23 3:45pm
2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis OTHER:

10	5	3	2	☒	SAME DAY
Standard					
Fuels & Hydrocarbon Analysis					
5	3	☒	☐	☐	SAME DAY
Standard					

Specify: 24 hr
ASAP

*Turnaround request less than standard may incur Rush Charges



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EW24610001

Date 12/27/13 Page 3 Of

PROJECT ID: <u>MP-46</u>					ANALYSIS REQUESTED															OTHER (Specify)					
REPORT TO COMPANY: <u>Anteo Group</u>					NWTPH-HCID NWTPH-DX NWTPH-GX BTX by EPA 8021 MTBE by EPA 8021 Halogenated Volatiles by EPA 8260 Volatile Organic Compounds by EPA 8260 EDB / EDC by EPA 8260 SIM (water) EDB / EDC by EPA 8260 (soil) Semivolatile Organic Compounds by EPA 8270 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM PCB by EPA 8082 Metals-MTCA-5 Metals Other (Specify) TCLP-Metals VOA Semi-Vol Pest Herbs																				
PROJECT MANAGER: <u>Megan Richard</u>																									
ADDRESS: <u>18378-B Redmont Way</u> <u>Redmont WA</u>																									
PHONE: <u>206-854-0399</u> P.O. #:																									
E-MAIL: <u>Megan.Richard@Anteogroup.us</u>																									
INVOICE TO COMPANY: <u>Same as above</u>																									
ATTENTION: <u>Digital Solutions, Equis @ Anteo group.us</u>																									
ADDRESS: <u>Same as above</u>																									
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Metals-MTCA-5	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. SW-S-10-24-2013 1227	12/27/13	1240	Soil	21 5																					
2. SW-S-10-12-2013 1227		1245		22																					
3. SW-N-10-12-2013 1227		1350		23																					
4. SW-N-10-12-2013 1227		1255		24																					
5. B-18-24-2013 1227		1300		25																					
6. B-19-24-2013 1227		1305		25 6																					
7. SW-S-7-24-2013 1227		1325		27																					
8. SW-S-7-24-2013 1227		1330		28																					
9. SW-N-7-24-2013 1227		1320		29																					
10. SW-N-7-24-2013 1227		1335		30																					

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Celia Dechenne, Anteo Group, 12/27/13

Received By: [Signature] AS 12/27/13 3:00pm

2. Relinquished By:

Received By:

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis OTHER:

10	5	3	2	☒	SAME DAY
Standard					
Fuels & Hydrocarbon Analysis					
5	3	☒	☒	☒	SAME DAY
Standard					

Specify: 24 hr
ASAP

*Turnaround request less than standard may incur Rush Charges



ALS Job# (Laboratory Use Only)

~~FD-2312020~~

PROJECT ID:	MP-46
REPORT TO COMPANY:	Antex Group
PROJECT MANAGER:	Megan Richard
ADDRESS:	18378 -B Redmond Way Redmond WA
PHONE:	206-854-0344
	P.O. #:
E-MAIL:	Megan.Richard@AntexGroup.us
INVOICE TO COMPANY:	Same as above
ATTENTION:	Digital Solutions, Equip @ Antexgroup.us
ADDRESS:	Same as above

OTHER (Specify)

SPECIAL INSTRUCTIONS

1. Relinquished By: Sally Dechenal Antares Group 12/27/23
Received By: [Signature] AS 12/27/23 3:00pm

2. Relinquished By: _____
Received By: _____

OTHER:

5 3  SAME DAY

Specify: 24 hr
ASAP

ALS ENVIRONMENTAL

Sample Receiving Checklist

EV24010001

Client: Antea

ALS Job#: EV23120203

Project: MP-46

Login Date: 12-27-23

Login Time: 3:16

Login By: MH

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

Yes No N/A

Were custody seals on outside of shipping container?

If yes, how many? Where?

Custody seal date: Seal name:

 X

Was Chain of Custody properly filled out (ink, signed, dated, etc.)?

X

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.)?

X

Was sufficient amount of sample sent for the tests indicated?

X

Was correct preservation added to samples?

X

Subcontract test containers added to Subcontract Bin?

 X

Wetchem test containers marked with required Tests?

 X

Short hold time test containers delivered to analysts?

 X

Were VOA vials checked for absence of air bubbles?

 X

Bubbles present in sample #:

5035A kits received?

Low Kits: 32

High Kits:

X

5035A kits returned?

Low Kits:

High Kits:

Temperature of cooler upon receipt: 4.3°C On ice? ☒

Explain any discrepancies:

Was client contacted? Who was called? By whom? Date:

Outcome of call:

Work Order ID	Client ID	Project Name	Due Date
EV23120167	LAN01-EDMONDS	WATERFRONT PLACE / 147044	12/28/2023
EV23120159	GEO02-BELLINGHAM	Roeder 23-1862	12/28/2023
EV23120179	GEO02-BELLINGHAM	Roeder 23-1862	12/29/2023
EV23120175	TER01-MOUNTLAKE TERRACE	Shoreline Residence	12/29/2023
EV23120173	HFS01-ANACORTES	Solid Waste Program	12/29/2023
EV23120116	QUI01-TULALIP	EFF WQ	12/29/2023
EV23120045	PBS02-KENNEWICK	Pasco Landfill / 64180.023.0002.001	12/29/2023
EV23120196	POR05-PORTTOWNSEND	Oily Rag Profile	1/2/2024
EV23120188	POR02-EVERETT	Marine Terminals	1/2/2024
EV23120187	POR02-EVERETT	Norton Terminal	1/2/2024
EV23120140	TEC05-KENMORE	SeaPort Midstream Partners, Seattle TMMS-10289	1/2/2024
EV23120139	TER01-MOUNTLAKE TERRACE	Maple Valley 76	1/2/2024
EV23120137	SUR01-CAMDEN	John Day Lock and Dam NPDES WA0026832	1/2/2024
EV23120135	GEO02-BELLINGHAM	Daedalus 22-0066	1/2/2024
EV23120109	SUR01-CAMDEN	McNary Lock & Dam	1/2/2024
EV23120107	SUR01-CAMDEN	NPDES WA0026778	1/2/2024
EV23120101	SUR01-CAMDEN	The Dalles Lock and Dam / 59002353	1/2/2024

B-24-24

-08

B-22-24

-13

B-20-24

-19

B-21-24

-20

B-19-24

-26

SW-S-10-24

-21

B-12-24

-31



December 29, 2023

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On December 27th, 32 samples were received by our laboratory and assigned our laboratory project number EV23120203. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information.

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



CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

CLIENT CONTACT: Megan Richard

CLIENT PROJECT: MP-46

DATE: 12/29/2023
ALS JOB#: EV23120203
WDOE ACCREDITATION: C601

CASE NARRATIVE

Please note that multiple analytes are reported with E and E2 qualifiers. E qualifiers denote analytes with results that exceed the instrument calibration range. E2 qualifiers denote analytes with results that saturated the detector with results the exceed the instrument calibration range and the concentration of these analytes in the target samples are likely much higher than the reported values.



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 10:40:00 AM
CLIENT SAMPLE ID	SW-N-13_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	3.9	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	97.9	12/28/2023	MNC
Toluene-d8	EPA-8260	93.6	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 10:55:00 AM
CLIENT SAMPLE ID	SW-N-13_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.1	12/28/2023	MNC
Toluene-d8	EPA-8260	92.3	12/28/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 10:50:00 AM
CLIENT SAMPLE ID	SW-E-4_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	5700	300	100	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	5400	700	25	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	370000 E	410	25	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	83000	580	25	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	290000 E	1200	25	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	110000	720	25	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	12/29/2023	MNC
Toluene-d8 25X Dilution	EPA-8260	96.6	12/29/2023	DLC

E - Reported result is an estimate because it exceeds the calibration range.

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:05:00 AM
CLIENT SAMPLE ID	SW-E-4_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	1800	300	100	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	1800	740	25	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	110000	440	25	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	29000	620	25	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	110000	1200	25	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	40000	770	25	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	12/29/2023	MNC
Toluene-d8 25X Dilution	EPA-8260	96.2	12/29/2023	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:10:00 AM
CLIENT SAMPLE ID	SW-S-13_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	10	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	18	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	28	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	15	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	99.2	12/28/2023	MNC
Toluene-d8	EPA-8260	94.4	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:15:00 AM
CLIENT SAMPLE ID	B-25_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	13	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	8.0	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	47	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	18	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	108	12/28/2023	MNC
Toluene-d8	EPA-8260	93.4	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:20:00 AM
CLIENT SAMPLE ID	SW-S-13_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	87.8	12/28/2023	MNC
Toluene-d8	EPA-8260	94.5	12/28/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-08
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:30:00 AM
CLIENT SAMPLE ID	B-24_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	2100	300	100	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	2100	1200	50	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	85000	710	50	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	25000	1000	50	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	95000	2000	50	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	37000	1200	50	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	12/29/2023	MNC
Toluene-d8 50X Dilution	EPA-8260	93.6	12/29/2023	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-09
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:50:00 AM
CLIENT SAMPLE ID	SW-N-12_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	5.3	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	88.4	12/28/2023	MNC
Toluene-d8	EPA-8260	92.7	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-10
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:55:00 AM
CLIENT SAMPLE ID	SW-N-12_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.1	12/28/2023	MNC
Toluene-d8	EPA-8260	94.2	12/28/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-11
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:05:00 PM
CLIENT SAMPLE ID	SW-S-12_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	97.2	12/28/2023	MNC
Toluene-d8	EPA-8260	94.0	12/28/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/29/2023
		ALS JOB#:	EV23120203
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV23120203-12
CLIENT PROJECT:	MP-46	DATE RECEIVED:	12/27/2023
CLIENT SAMPLE ID	SW-S-12_24_20231227	COLLECTION DATE:	12/27/2023 11:40:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.6	12/28/2023	MNC
Toluene-d8	EPA-8260	93.8	12/28/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-13
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:45:00 AM
CLIENT SAMPLE ID	B-22_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	3600	300	100	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	6800	1200	50	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	230000 E	700	50	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	51000	990	50	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	190000	2000	50	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	72000	1200	50	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	12/29/2023	MNC
Toluene-d8 50X Dilution	EPA-8260	92.8	12/29/2023	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
E - Reported result is an estimate because it exceeds the calibration range.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-14
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:00:00 PM
CLIENT SAMPLE ID	B-23_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	50	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	370	30	1	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	11000	180	10	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	570	25	1	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	3600	49	1	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	1800	31	1	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	105	12/28/2023	MNC
Toluene-d8	EPA-8260	93.1	12/29/2023	DLC
Toluene-d8 10X Dilution	EPA-8260	94.8	12/29/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/29/2023
		ALS JOB#:	EV23120203
		ALS SAMPLE#:	EV23120203-15
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:20:00 PM
CLIENT SAMPLE ID	SW-N-11_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	97.4	12/28/2023	MNC
Toluene-d8	EPA-8260	94.2	12/28/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/29/2023
		ALS JOB#:	EV23120203
		ALS SAMPLE#:	EV23120203-16
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:25:00 PM
CLIENT SAMPLE ID	SW-N-11_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.4	12/28/2023	MNC
Toluene-d8	EPA-8260	93.5	12/28/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-17
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:30:00 PM
CLIENT SAMPLE ID	SW-S-11_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	94.9	12/28/2023	MNC
Toluene-d8	EPA-8260	94.0	12/28/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-18
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:35:00 PM
CLIENT SAMPLE ID	SW-S-11_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.3	12/28/2023	MNC
Toluene-d8	EPA-8260	94.4	12/28/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-19
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:10:00 PM
CLIENT SAMPLE ID	B-20_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	9000	300	100	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	10000	2600	100	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	680000 E	1600	100	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	140000	2200	100	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	500000	4300	100	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	200000	2700	100	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	12/29/2023	MNC
Toluene-d8 100X Dilution	EPA-8260	92.2	12/29/2023	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.

E - Reported result is an estimate because it exceeds the calibration range.

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-20
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:15:00 PM
CLIENT SAMPLE ID	B-21_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	6100	300	100	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	11000	2200	100	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	350000	1300	100	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	89000	1800	100	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	330000	3600	100	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	130000	2300	100	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	12/29/2023	MNC
Toluene-d8 100X Dilution	EPA-8260	92.6	12/29/2023	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-21
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:40:00 PM
CLIENT SAMPLE ID	SW-S-10_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	460	60	20	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	300 E2	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	980 E2	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	680 E2	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	1600 E2	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	930 E2	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 20X Dilution	NWTPH-GX	121 SUR07	12/29/2023	MNC
Toluene-d8	EPA-8260	154 SQ2	12/28/2023	DLC

E2 - Reported result is an estimate because it exceeds the calibration range. The actual value for this analyte is probably much higher than reported.
 Resampling and reanalysis is recommended.
 SQ2 - Spike outside of control limits due to matrix effect.
 SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
 Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-22
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:45:00 PM
CLIENT SAMPLE ID	SW-S-10_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	23	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	81.7	12/29/2023	MNC
Toluene-d8	EPA-8260	92.8	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-23
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:50:00 PM
CLIENT SAMPLE ID	SW-N-10_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	84.8	12/29/2023	MNC
Toluene-d8	EPA-8260	96.2	12/28/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-24
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:55:00 PM
CLIENT SAMPLE ID	SW-N-10_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	101	12/29/2023	MNC
Toluene-d8	EPA-8260	93.4	12/28/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-25
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:00:00 PM
CLIENT SAMPLE ID	B-18_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	20	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	55	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	340	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	35	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	100	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	55	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	105	12/29/2023	MNC
Toluene-d8	EPA-8260	91.2	12/28/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-26
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:05:00 PM
CLIENT SAMPLE ID	B-19_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	3200	300	100	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	1000 E2	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	3600 E2	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	680 E2	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	1400 E2	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	870 E2	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	12/29/2023	MNC
Toluene-d8	EPA-8260	266 SQ2	12/28/2023	DLC

E2 - Reported result is an estimate because it exceeds the calibration range. The actual value for this analyte is probably much higher than reported. Resampling and reanalysis is recommended.

SQ2 - Spike outside of control limits due to matrix effect.

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range. Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-27
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:25:00 PM
CLIENT SAMPLE ID	SW-S-7_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	6.4	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	93.5	12/29/2023	MNC
Toluene-d8	EPA-8260	93.4	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-28
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:30:00 PM
CLIENT SAMPLE ID	SW-S-7_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	85.5	12/29/2023	MNC
Toluene-d8	EPA-8260	92.6	12/28/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-29
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:20:00 PM
CLIENT SAMPLE ID	SW-N-7_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	10	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	37	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	16	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	88.2	12/29/2023	MNC
Toluene-d8	EPA-8260	94.3	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-30
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:35:00 PM
CLIENT SAMPLE ID	SW-N-7_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	83.7	12/29/2023	MNC
Toluene-d8	EPA-8260	93.4	12/28/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-31
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:15:00 PM
CLIENT SAMPLE ID	B-12_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	9200	300	100	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	2100 E2	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	7700 E2	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	970 E2	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	1800 E2	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	980 E2	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	631 SUR07	12/28/2023	MNC
Toluene-d8	EPA-8260	338 SQ2	12/28/2023	DLC

SQ2 - Spike outside of control limits due to matrix effect.

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.

E2 - Reported result is an estimate because it exceeds the calibration range. The actual value for this analyte is probably much higher than reported.

Resampling and reanalysis is recommended.

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-32
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:10:00 PM
CLIENT SAMPLE ID	B-13_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	13	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	100	10	1	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	19	10	1	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.4	12/28/2023	MNC
Toluene-d8	EPA-8260	94.1	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 12/29/2023
ALS SDG#: EV23120203
WDOE ACCREDITATION: C601

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY BLANK RESULTS

MBG-122723S - Batch 205464 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/28/2023	MNC

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

MBG-122723S2 - Batch 205446 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/28/2023	MNC

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

MBG-122723S3 - Batch 205436 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/29/2023	MNC

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

MB-122723S2 - Batch 205478 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	12/27/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/27/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/27/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/27/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/27/2023	DLC

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

MB-122823S - Batch 205481 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	12/28/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/28/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/28/2023	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 12/29/2023
ALS SDG#: EV23120203
WDOE ACCREDITATION: C601

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 205436 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	98.4			66.5	122.7	12/29/2023	MNC
TPH-Volatile Range - BSD	NWTPH-GX	97.4	1		66.5	122.7	12/29/2023	MNC

ALS Test Batch ID: 205446 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	110			66.5	122.7	12/28/2023	MNC
TPH-Volatile Range - BSD	NWTPH-GX	106	3		66.5	122.7	12/28/2023	MNC

ALS Test Batch ID: 205464 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	98.3			66.5	122.7	12/28/2023	MNC
TPH-Volatile Range - BSD	NWTPH-GX	98.9	1		66.5	122.7	12/28/2023	MNC

ALS Test Batch ID: 205478 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	97.8			75	138	12/28/2023	DLC
Benzene - BSD	EPA-8260	104	6		75	138	12/28/2023	DLC
Toluene - BS	EPA-8260	96.3			71.6	122.1	12/28/2023	DLC
Toluene - BSD	EPA-8260	102	5		71.6	122.1	12/28/2023	DLC
Ethylbenzene - BS	EPA-8260	95.7			50	150	12/28/2023	DLC
Ethylbenzene - BSD	EPA-8260	99.5	4		50	150	12/28/2023	DLC
m,p-Xylene - BS	EPA-8260	93.2			50	150	12/28/2023	DLC
m,p-Xylene - BSD	EPA-8260	97.6	5		50	150	12/28/2023	DLC
o-Xylene - BS	EPA-8260	94.3			50	150	12/28/2023	DLC
o-Xylene - BSD	EPA-8260	99.7	6		50	150	12/28/2023	DLC

ALS Test Batch ID: 205481 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	86.5			75	138	12/28/2023	DLC
Benzene - BSD	EPA-8260	85.6	1		75	138	12/28/2023	DLC
Toluene - BS	EPA-8260	92.7			71.6	122.1	12/28/2023	DLC
Toluene - BSD	EPA-8260	90.5	2		71.6	122.1	12/28/2023	DLC
Ethylbenzene - BS	EPA-8260	86.6			50	150	12/28/2023	DLC
Ethylbenzene - BSD	EPA-8260	83.1	4		50	150	12/28/2023	DLC
m,p-Xylene - BS	EPA-8260	87.9			50	150	12/28/2023	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE: 12/29/2023 ALS SDG#: EV23120203 WDOE ACCREDITATION: C601
CLIENT CONTACT:	Megan Richard	
CLIENT PROJECT:	MP-46	

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
m,p-Xylene - BSD	EPA-8260	83.8	5		50	150	12/28/2023	DLC
o-Xylene - BS	EPA-8260	87.4			50	150	12/28/2023	DLC
o-Xylene - BSD	EPA-8260	83.6	4		50	150	12/28/2023	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Job# (Laboratory Use Only)

EV23120203

Date 12/27/23 Page 1 Of 1

[illegible]

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Cetin Deschene, Antea Group, 12/27/23
Received By: [Signature] ACJ 12/27/23 3:00pm

2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

OTHER:

10 5 3 2 ☒ 1 SAME DAY

Specify: 2116

Fuels & Hydrocarbon Analysis

ASAP

*Turnaround request less than standard may incur Rush Charges



ALS Job# (Laboratory Use Only)

EV23120202

Date 12/28/23 Page 2 Of 2

[illegible]

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

Received By: [Signature] Dec 12/27/23 3:47pm

Received By: _____

TURNAROUND REQUESTED in Business Days*

OTHER:

Organic, Metals & Inorganic Analysis

10 5 3 2 ~~1~~ SA DA

Specify: _____

Fuels & Hydrocarbon Analysis

5 3 

Standard

ASAP

**Turnaround request less than standard may incur Rush Charges*



ALS Environmental
 8620 Holly Drive, Suite 100
 Everett, WA 98208
 Phone (425) 356-2600
 Fax (425) 356-2626
 http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV23120203

Date 12/27/23 Page 3 Of

PROJECT ID: MP-46					ANALYSIS REQUESTED															OTHER (Specify)								
REPORT TO COMPANY: Anteo Group					NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION? Herbs Pest Semi-Vol VOA Metals Other (Specify) Metals-MTCA-5 PCB by EPA 8082 Pesticides by EPA 8081 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM Semivolatile Organic Compounds by EPA 8270 EDB / EDC by EPA 8260 (soil) EDB / EDC by EPA 8260 SIM (water) Volatile Organic Compounds by EPA 8260 Halogenated Volatiles by EPA 8260 MTBE by EPA 8021 BTEX by EPA 8021 BTEX by EPA 8260																							
PROJECT MANAGER: Megan Richard																												
ADDRESS: 18378-B Redmont Way Redmont WA																												
PHONE: 206-854-0399 P.O. #:																												
E-MAIL: Megan.Richard@Anteogroup.us																												
INVOICE TO COMPANY: Same as above																												
ATTENTION: Digital Solutions, Equis @ Anteo group.us																												
ADDRESS: Same as above																												
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	TAL	Pri Pol	RCRA-8	Metals Other (Specify)	Metals-MTCA-5	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. SW-S-10-24-20231227	12/27/23	1240	Soil	21			X	X																				
2. SW-S-10-12-20231227		1245		22			X	X																				
3. SW-N-10-12-20231227		1350		23			X	X																				
4. SW-N-10-24-20231227		1255		24			X	X																				
5. B-18-24-20231227		1300		25			X	X																				
6. B-19-24-20231227		1305		26			X	X																				
7. SW-S-7-12-20231227		1325		27			X	X																				
8. SW-S-7-24-20231227		1330		28			X	X																				
9. SW-N-7-12-20231227		1320		29			X	X																				
10. SW-N-7-24-20231227		1335		30			X	X																				

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

- Relinquished By: Celia Dechenne, Anteo Group, 12/27/23
 Received By: [Signature] AS 12/27/23 3:00pm
- Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*
 Organic, Metals & Inorganic Analysis OTHER:

10 Standard	5	3	2	X	SAME DAY
Fuels & Hydrocarbon Analysis					
5 Standard	3	X	2	SAME DAY	

Specify: 24 hr
ASAP

*Turnaround request less than standard may incur Rush Charges



ALS Environmental
 8620 Holly Drive, Suite 100
 Everett, WA 98208
 Phone (425) 356-2600
 Fax (425) 356-2626
<http://www.alsglobal.com>

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV23120203

Date 12/27/23 Page 4 Of

PROJECT ID: MP-46					ANALYSIS REQUESTED															OTHER (Specify)									
REPORT TO COMPANY: Antex Group					NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	Metals-MTCA-5	RCRA-8	Pri Pol	TAL	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
PROJECT MANAGER: Megan Rickard																													
ADDRESS: 18378 ~B Redmont Way																													
Redmont WA																													
PHONE: 206-854-0300 P.O. #:																													
E-MAIL: Megan.Rickard@AntexGroup.us																													
INVOICE TO COMPANY: Same as above																													
ATTENTION: Digital Solutions, EQS-5 @ AntexGroup.us																													
ADDRESS: Same as above																													
SAMPLE I.D.					DATE					TIME					TYPE					LAB#									
1. B-12-24-2023/227					12/27/23					1315					Soil					31									
2. B-13-24-2023/227					↓					1310					↓					32									
3.																													
4.																													
5.																													
6.																													
7.																													
8.																													
9.																													
10.																													

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Colin Decker Antex Group 12/27/23
 Received By: [Signature] AS 12/27/23 3:00pm
 2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

10 Standard 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 Standard 3 1 SAME DAY

OTHER:

Specify: 24 hr
 ASAP

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Antea ALS Job#: E023120203

Project: MP-46

Login Date: 12-27-23 Login Time: 3:16 Login By: MH

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

	Yes	No	N/A
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?	☒		
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.)?	☒		
Was sufficient amount of sample sent for the tests indicated?	☒		
Was correct preservation added to samples?	☒		
Subcontract test containers added to Subcontract Bin?			☒
Wetchem test containers marked with required Tests?			☒
Short hold time test containers delivered to analysts?			☒
Were VOA vials checked for absence of air bubbles?			☒
Bubbles present in sample #: _____			

5035A kits received? ☒
 # Low Kits: 32 # High Kits: _____

5035A kits returned?
 # Low Kits: _____ # High Kits: _____

Temperature of cooler upon receipt: 4.3°C On ice? ☒

Explain any discrepancies:

Was client contacted? _____ Who was called? _____ By whom? _____ Date: _____

Outcome of call:



December 22, 2023

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On December 21st, 18 samples were received by our laboratory and assigned our laboratory project number EV23120182. The project was identified as your MP-46. 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



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 12:20:00 PM
CLIENT SAMPLE ID	SW-S-6_12_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	91.1	12/22/2023	DLC
Toluene-d8	EPA-8260	98.1	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 12:25:00 PM
CLIENT SAMPLE ID	SW-S-6_24_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	86.1	12/22/2023	DLC
Toluene-d8	EPA-8260	94.7	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 12:05:00 PM
CLIENT SAMPLE ID	SW-N-6_12_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	92.3	12/22/2023	DLC
Toluene-d8	EPA-8260	95.7	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 12:10:00 PM
CLIENT SAMPLE ID	SW-N-6_24_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	98.7	12/22/2023	DLC
Toluene-d8	EPA-8260	95.4	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 12:30:00 PM
CLIENT SAMPLE ID	B-10_24_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	7.6	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	19	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	660	18	1	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	100	25	1	UG/KG	12/22/2023	DLC
m,p-Xylene	EPA-8260	380	49	1	UG/KG	12/22/2023	DLC
o-Xylene	EPA-8260	150	31	1	UG/KG	12/22/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	102	12/22/2023	DLC
Toluene-d8	EPA-8260	105	12/21/2023	DLC
Toluene-d8	EPA-8260	98.4	12/22/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 12:35:00 PM
CLIENT SAMPLE ID	B-11_24_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	21	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	34	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	3500	20	1	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	16	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	73	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	41	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	87.4	12/22/2023	DLC
Toluene-d8	EPA-8260	96.5	12/21/2023	DLC
Toluene-d8	EPA-8260	97.6	12/22/2023	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:00:00 PM
CLIENT SAMPLE ID	SW-N-8_12_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	30	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	770	28	1	UG/KG	12/22/2023	DLC
Toluene	EPA-8260	6600	84	5	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	280	24	1	UG/KG	12/22/2023	DLC
m,p-Xylene	EPA-8260	900	47	1	UG/KG	12/22/2023	DLC
o-Xylene	EPA-8260	400	30	1	UG/KG	12/22/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	92.6	12/22/2023	DLC
Toluene-d8	EPA-8260	96.9	12/22/2023	DLC
Toluene-d8 5X Dilution	EPA-8260	96.8	12/22/2023	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/22/2023
		ALS JOB#:	EV23120182
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV23120182-08
CLIENT PROJECT:	MP-46	DATE RECEIVED:	12/21/2023
CLIENT SAMPLE ID	SW-N-8_24_20231221	COLLECTION DATE:	12/21/2023 2:05:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	13	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	104	12/22/2023	DLC
Toluene-d8	EPA-8260	96.0	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-09
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:10:00 PM
CLIENT SAMPLE ID	SW-S-8_12_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	85.2	12/22/2023	DLC
Toluene-d8	EPA-8260	97.1	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-10
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:15:00 PM
CLIENT SAMPLE ID	SW-S-8_24_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	81.4	12/22/2023	DLC
Toluene-d8	EPA-8260	96.3	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-11
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:20:00 PM
CLIENT SAMPLE ID	B-14_24_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	94.6	12/22/2023	DLC
Toluene-d8	EPA-8260	96.7	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-12
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:25:00 PM
CLIENT SAMPLE ID	B-15_24_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	440	30	10	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	2900	28	1	UG/KG	12/22/2023	DLC
Toluene	EPA-8260	27000	160	10	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	5100	230	10	UG/KG	12/22/2023	DLC
m,p-Xylene	EPA-8260	21000	460	10	UG/KG	12/22/2023	DLC
o-Xylene	EPA-8260	7900	290	10	UG/KG	12/22/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	110	12/22/2023	DLC
Toluene-d8	EPA-8260	103	12/22/2023	DLC
Toluene-d8 10X Dilution	EPA-8260	96.4	12/22/2023	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-13
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:30:00 PM
CLIENT SAMPLE ID	SW-N-9-12	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	97.9	12/22/2023	DLC
Toluene-d8	EPA-8260	98.1	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-14
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:35:00 PM
CLIENT SAMPLE ID	SW-N-9-24	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	11	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	490	15	1	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	23	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	11	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.1	12/22/2023	DLC
Toluene-d8	EPA-8260	94.9	12/21/2023	DLC
Toluene-d8	EPA-8260	98.0	12/22/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-15
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:40:00 PM
CLIENT SAMPLE ID	SW-S-9-12	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/22/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/22/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.7	12/22/2023	DLC
Toluene-d8	EPA-8260	97.9	12/22/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-16
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:50:00 PM
CLIENT SAMPLE ID	SW-S-9-24	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/22/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/22/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.5	12/22/2023	DLC
Toluene-d8	EPA-8260	95.3	12/22/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/22/2023
		ALS JOB#:	EV23120182
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV23120182-17
CLIENT PROJECT:	MP-46	DATE RECEIVED:	12/21/2023
CLIENT SAMPLE ID	B-16_24	COLLECTION DATE:	12/21/2023 3:00:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	6.6	5.0	1	UG/KG	12/22/2023	DLC
Toluene	EPA-8260	15	10	1	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/22/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	99.0	12/22/2023	DLC
Toluene-d8	EPA-8260	94.5	12/22/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-18
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 3:15:00 PM
CLIENT SAMPLE ID	B-17_24	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	12	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	21	5.0	1	UG/KG	12/22/2023	DLC
Toluene	EPA-8260	2200	16	1	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC
m,p-Xylene	EPA-8260	41	20	1	UG/KG	12/22/2023	DLC
o-Xylene	EPA-8260	21	10	1	UG/KG	12/22/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	107	12/22/2023	DLC
Toluene-d8	EPA-8260	98.0	12/22/2023	DLC
Toluene-d8	EPA-8260	97.4	12/22/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE: 12/22/2023 ALS SDG#: EV23120182 WDOE ACCREDITATION: C601
CLIENT CONTACT:	Megan Richard	
CLIENT PROJECT:	MP-46	

LABORATORY BLANK RESULTS
MBG-122123S - Batch 205176 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/22/2023	DLC

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

MB-122123S - Batch 205200 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	12/21/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/21/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/21/2023	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 12/22/2023
ALS SDG#: EV23120182
WDOE ACCREDITATION: C601
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 205176 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	103			66.5	122.7	12/22/2023	DLC
TPH-Volatile Range - BSD	NWTPH-GX	104	2		66.5	122.7	12/22/2023	DLC

ALS Test Batch ID: 205200 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	98.2			75	138	12/21/2023	DLC
Benzene - BSD	EPA-8260	88.1	11		75	138	12/21/2023	DLC
Toluene - BS	EPA-8260	98.1			71.6	122.1	12/21/2023	DLC
Toluene - BSD	EPA-8260	87.8	11		71.6	122.1	12/21/2023	DLC
Ethylbenzene - BS	EPA-8260	98.9			50	150	12/21/2023	DLC
Ethylbenzene - BSD	EPA-8260	89.7	10		50	150	12/21/2023	DLC
m,p-Xylene - BS	EPA-8260	97.8			50	150	12/21/2023	DLC
m,p-Xylene - BSD	EPA-8260	88.0	10		50	150	12/21/2023	DLC
o-Xylene - BS	EPA-8260	98.3			50	150	12/21/2023	DLC
o-Xylene - BSD	EPA-8260	89.4	9		50	150	12/21/2023	DLC

APPROVED BY

Rob Greer
Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV23120182

Date 12/21/23 Page 1 Of 2

PROJECT ID: MP-46					ANALYSIS REQUESTED															OTHER (Specify)									
REPORT TO COMPANY: Anteo Group					NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	Metals-MTCA-5	RCRA-8	Pri Pol	TAL	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
PROJECT MANAGER: Megan Richard																													
ADDRESS: 18378-B Redmont Way Redmont WA																													
PHONE: 206-854-0344 P.O. #:																													
E-MAIL: Megan.Richard@AnteoGroup.VS																													
INVOICE TO COMPANY: Same as above																													
ATTENTION: Digital Solutions, Equis@AnteoGroup.VS																													
ADDRESS: Same as above																													
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																									
1. SW-S-6-12-2023/12/21	12/21/23	1220	Soil	1			X	X																					
2. SW-S-6-24-2023/12/21	↓	1225	↓	2			X	X																					
3. SW-N-6-12-2023/12/21	↓	1205	↓	3			X	X																					
4. SW-N-6-24-2023/12/21	↓	1210	↓	4			X	X																					
5. B-10-24-2023/12/21		1230		5			X	X																					
6. B-11-24-2023/12/21		1235		6			X	X																					
7. SW-N-8-12-2023/12/21		1400		7			X	X																					
8. SW-N-8-24-2023/12/21		1405		8			X	X																					
9. SW-S-8-12-2023/12/21		1410		9			X	X																					
10. SW-S-8-24-2023/12/21		1415		10			X	X																					

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Colin Dechene Anteo Group 12/21/23 1630

Received By: [Signature] 12/21/23 430

2. Relinquished By:

Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

OTHER:

10 5 3 2 1 SAME DAY

Specify: 24 hr TAT

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

*Turnaround request less than standard may incur Rush Charges



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

E23120182

Date 12/21/23 Page 2 Of 2

PROJECT ID: MP-46					ANALYSIS REQUESTED															OTHER (Specify)																																																																																				
REPORT TO COMPANY: Antea Group					<table border="1"> <tr> <td rowspan="5">NWTPH-HCID</td> <td rowspan="5">NWTPH-DX</td> <td rowspan="5">NWTPH-GX</td> <td>BTEX by EPA 8021</td> <td>BTEX by EPA 8260</td> <td>MTBE by EPA 8021</td> <td>MTBE by EPA 8260</td> <td>Halogenated Volatiles by EPA 8260</td> <td>Volatile Organic Compounds by EPA 8260</td> <td>EDB / EDC by EPA 8260 SIM (water)</td> <td>EDB / EDC by EPA 8260 (soil)</td> <td>Semivolatile Organic Compounds by EPA 8270</td> <td>Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM</td> <td>PCB by EPA 8082</td> <td>Pesticides by EPA 8081</td> <td>TAL</td> <td>Herbs</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>															NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	BTEX by EPA 8260	MTBE by EPA 8021	MTBE by EPA 8260	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	TAL	Herbs																																																																ADDRESS: 18378-B Redmont way Redmont, WA				
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INVOICE TO COMPANY: Same as above					<table border="1"> <tr> <td rowspan="2">NUMBER OF CONTAINERS</td> <td rowspan="2">RECEIVED IN GOOD CONDITION?</td> </tr> <tr> </tr> </table>															NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?																																																																																			
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SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	BTEX by EPA 8260	MTBE by EPA 8021	MTBE by EPA 8260	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	TAL	Herbs																																																																																			
1. B-14-24-20231221	12/21/23	1420	Soil	11			X	X																																																																																																
2. B-15-24-20231221		1425		12			X	X																																																																																																
3. SW-N-9-12		1430		13			X	X																																																																																																
4. SW-N-9-24		1435		14			X	X																																																																																																
5. SW-S-9-12		1440		15			X	X																																																																																																
6. SW-S-9-24		1445		16			X	X																																																																																																
7. B-16-24		1500		17			X	X																																																																																																
8. B-17-24		1515		18			X	X																																																																																																
9.																																																																																																								
10.																																																																																																								

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

- Relinquished By: Celine Dechenne 12/21/23 1630
Received By: [Signature] 12/21/23 @ 4:30pm
- Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

10	5	3	2	1	SAME DAY
----	---	---	---	---	----------

Fuels & Hydrocarbon Analysis

5	3	1	SAME DAY
---	---	---	----------

OTHER:

Specify: 24 hr
ASAP

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Antea Group ALS Job#: EV23120182

Project: MP-46

Login Date: 12/21/23 Login Time: 1630 Login By: RG

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

Yes No N/A

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? ☒ ☐ ☐

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.)? ☒ ☐ ☐

Was sufficient amount of sample sent for the tests indicated? ☒ ☐ ☐

Was correct preservation added to samples? ☒ ☐ ☐

Subcontract test containers added to Subcontract Bin? ☐ ☐ ☒

Wetchem test containers marked with required Tests? ☐ ☐ ☒

Short hold time test containers delivered to analysts? ☒ ☐ ☐

Were VOA vials checked for absence of air bubbles? ☐ ☐ ☒

Bubbles present in sample #:

5035A kits received? ☒ ☐ ☐

Low Kits: 18 # High Kits:

5035A kits returned? ☐ ☐ ☐

Low Kits: # High Kits:

Temperature of cooler upon receipt: 5.9 4.8°C On ice? ☒ ☐ ☐

Explain any discrepancies:

Was client contacted? Who was called? By whom? Date:

Outcome of call:



December 21, 2023

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On December 20th, 7 samples were received by our laboratory and assigned our laboratory project number EV23120172. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information.

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



CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

CLIENT CONTACT: Megan Richard

CLIENT PROJECT: MP-46

DATE: 12/21/2023
ALS JOB#: EV23120172
WDOE ACCREDITATION: C601

CASE NARRATIVE

TPH-Gasoline by NWTPH-Gx

Batch 205123, Method NWTPH-GX, Sample BGD-122023S, Surrogate TFT: The LCS and/or LCSD recovery were outside of control limits. However, MS/MSD recovery was within control limits. No corrective action taken.

TPH-Gasoline by NWTPH-Gx

Batch 205123, Method NWTPH-GX, Sample BG-122023S, Surrogate TFT: The LCS and/or LCSD recovery were outside of control limits. However, MS/MSD recovery was within control limits. No corrective action taken.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120172
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120172-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 3:15:00 PM
CLIENT SAMPLE ID	SW-N-5_12_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	94.3	12/21/2023	MNC
Toluene-d8	EPA-8260	96.4	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/21/2023
		ALS JOB#:	EV23120172
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV23120172-02
CLIENT PROJECT:	MP-46	DATE RECEIVED:	12/20/2023
CLIENT SAMPLE ID	SW-N-5_24_20231220	COLLECTION DATE:	12/20/2023 3:22:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	92.1	12/21/2023	MNC
Toluene-d8	EPA-8260	98.1	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120172
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120172-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 3:30:00 PM
CLIENT SAMPLE ID	SW-S-5_12_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	107	12/21/2023	MNC
Toluene-d8	EPA-8260	97.7	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120172
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120172-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 3:33:00 PM
CLIENT SAMPLE ID	SW-S-5_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	96.3	12/21/2023	MNC
Toluene-d8	EPA-8260	96.9	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120172
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120172-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 3:20:00 PM
CLIENT SAMPLE ID	B-8_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	12	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	45	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	2100	11	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	43	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	870	31	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	380	20	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	94.6	12/21/2023	MNC
Toluene-d8	EPA-8260	92.8	12/21/2023	DLC
Toluene-d8	EPA-8260	98.8	12/21/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120172
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120172-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 3:28:00 PM
CLIENT SAMPLE ID	B-9_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	6.2	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	60	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	1600	16	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	101	12/21/2023	MNC
Toluene-d8	EPA-8260	98.4	12/21/2023	DLC
Toluene-d8	EPA-8260	98.8	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120172
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120172-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023
CLIENT SAMPLE ID	TB_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	2.0	1	UG/L	12/21/2023	DLC
Toluene	EPA-8260	U	2.0	1	UG/L	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	12/21/2023	DLC
o-Xylene	EPA-8260	U	2.0	1	UG/L	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
Toluene-d8	EPA-8260	99.5	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE: 12/21/2023 ALS SDG#: EV23120172 WDOE ACCREDITATION: C601
CLIENT CONTACT:	Megan Richard	
CLIENT PROJECT:	MP-46	

LABORATORY BLANK RESULTS
MBG-122023S - Batch 205123 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/20/2023	MNC

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

MB-122023S - Batch 205133 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	12/20/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/20/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/20/2023	DLC

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

MB-121923W - Batch 205143 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/L	2.0	12/21/2023	DLC
Toluene	EPA-8260	U	UG/L	2.0	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	UG/L	2.0	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	UG/L	4.0	12/21/2023	DLC
o-Xylene	EPA-8260	U	UG/L	2.0	12/21/2023	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 12/21/2023
ALS SDG#: EV23120172
WDOE ACCREDITATION: C601

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 205123 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	107			66.5	122.7	12/20/2023	MNC
TPH-Volatile Range - BSD	NWTPH-GX	104	3		66.5	122.7	12/20/2023	MNC

SURROGATE	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TFT - BS	NWTPH-GX	8.08		SQ6	60	140	12/20/2023	MNC
TFT - BSD	NWTPH-GX	7.93		SQ6	60	140	12/20/2023	MNC

SQ6 - The LCS and/or LCSD recovery were outside of control limits. However, MS/MSD recovery was within control limits. No corrective action taken.

ALS Test Batch ID: 205133 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	94.9			75	138	12/20/2023	DLC
Benzene - BSD	EPA-8260	98.2	3		75	138	12/20/2023	DLC
Toluene - BS	EPA-8260	96.1			71.6	122.1	12/20/2023	DLC
Toluene - BSD	EPA-8260	97.7	2		71.6	122.1	12/20/2023	DLC
Ethylbenzene - BS	EPA-8260	98.6			50	150	12/20/2023	DLC
Ethylbenzene - BSD	EPA-8260	102	3		50	150	12/20/2023	DLC
m,p-Xylene - BS	EPA-8260	96.4			50	150	12/20/2023	DLC
m,p-Xylene - BSD	EPA-8260	100	4		50	150	12/20/2023	DLC
o-Xylene - BS	EPA-8260	97.2			50	150	12/20/2023	DLC
o-Xylene - BSD	EPA-8260	101	4		50	150	12/20/2023	DLC

ALS Test Batch ID: 205143 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	98.2			74.7	143	12/21/2023	DLC
Benzene - BSD	EPA-8260	88.1	11		74.7	143	12/21/2023	DLC
Toluene - BS	EPA-8260	98.1			71.7	139	12/21/2023	DLC
Toluene - BSD	EPA-8260	87.8	11		71.7	139	12/21/2023	DLC
Ethylbenzene - BS	EPA-8260	98.9			50	150	12/21/2023	DLC
Ethylbenzene - BSD	EPA-8260	89.7	10		50	150	12/21/2023	DLC
m,p-Xylene - BS	EPA-8260	97.8			50	150	12/21/2023	DLC
m,p-Xylene - BSD	EPA-8260	88.0	10		50	150	12/21/2023	DLC
o-Xylene - BS	EPA-8260	98.3			50	150	12/21/2023	DLC
o-Xylene - BSD	EPA-8260	89.4	9		50	150	12/21/2023	DLC

CERTIFICATE OF ANALYSIS

APPROVED BY

Rob Greer
Laboratory Director



ALS Job# (Laboratory Use Only)

EV23120172

Date _____ Page _____ Of _____

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Colin Dechenne, Atea Group, 12/20/23, 1800

Received By: 10-ALS (2/20/13) 1800

2. Relinquished By: _____

Received By: _____

TURNAROUND REQUESTED in Business Days*

OTHER:

Organic, Metals & Inorganic Analysis

Specify: 11.5

10 5 3 2 1 ~~GAME DAY~~

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Artea ALS Job#: 612312072

Project: MP-46

Login Date: 12/20/25 Login Time: 1800 Login By: CM

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☐ ALS Courier ☒
FedEx Express ☐

Yes No N/A

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? ☒ ☐ ☐

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.)? ☒ ☐ ☐

Was sufficient amount of sample sent for the tests indicated? ☒ ☐ ☐

Was correct preservation added to samples? ☒ ☐ ☐

Subcontract test containers added to Subcontract Bin? ☐ ☐ ☒

Wetchem test containers marked with required Tests? ☐ ☐ ☒

Short hold time test containers delivered to analysts? ☐ ☐ ☒

Were VOA vials checked for absence of air bubbles? ☐ ☐ ☒

Bubbles present in sample #:

5035A kits received? 6 # Low Kits: # High Kits: ☒ ☐ ☐

5035A kits returned? # Low Kits: # High Kits:

Temperature of cooler upon receipt: 1.4C On ice? ☒ ☐ ☐

Explain any discrepancies:

Was client contacted? Who was called? By whom? Date:

Outcome of call:



December 21, 2023

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On December 20th, 9 samples were received by our laboratory and assigned our laboratory project number EV23120171. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information.

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



CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

DATE: 12/21/2023
ALS JOB#: EV23120171
WDOE ACCREDITATION: C601

CASE NARRATIVE

TPH-Gasoline by NWTPH-Gx

Batch 205123, Method NWTPH-GX, Sample BGD-122023S, Surrogate TFT: The LCS and/or LCSD recovery were outside of control limits. However, MS/MSD recovery was within control limits. No corrective action taken.

TPH-Gasoline by NWTPH-Gx

Batch 205123, Method NWTPH-GX, Sample BG-122023S, Surrogate TFT: The LCS and/or LCSD recovery were outside of control limits. However, MS/MSD recovery was within control limits. No corrective action taken.



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 10:25:00 AM
CLIENT SAMPLE ID	SW-S-3_12_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.8	12/20/2023	MNC
Toluene-d8	EPA-8260	100	12/20/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 10:45:00 AM
CLIENT SAMPLE ID	SW-S-3_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	116	12/20/2023	MNC
Toluene-d8	EPA-8260	96.6	12/20/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 1:30:00 PM
CLIENT SAMPLE ID	SW-S-4_12_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	98.2	12/20/2023	MNC
Toluene-d8	EPA-8260	97.5	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 1:40:00 PM
CLIENT SAMPLE ID	SW-S-4_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.1	12/21/2023	MNC
Toluene-d8	EPA-8260	95.9	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 1:52:00 PM
CLIENT SAMPLE ID	SW-N-4_12_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	104	12/21/2023	MNC
Toluene-d8	EPA-8260	96.5	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 2:00:00 PM
CLIENT SAMPLE ID	SW-N-4_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.5	12/21/2023	MNC
Toluene-d8	EPA-8260	95.4	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 10:30:00 AM
CLIENT SAMPLE ID	B-5_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	4.1	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	26	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	55	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	118	12/21/2023	MNC
Toluene-d8	EPA-8260	97.3	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-08
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 1:50:00 PM
CLIENT SAMPLE ID	B-6_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	9.4	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	40	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	1800	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	22	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	59	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	53	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.6	12/21/2023	MNC
Toluene-d8	EPA-8260	96.4	12/21/2023	DLC
Toluene-d8	EPA-8260	98.7	12/21/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-09
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 1:51:00 PM
CLIENT SAMPLE ID	B-7_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	10	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	93.1	12/21/2023	MNC
Toluene-d8	EPA-8260	94.4	12/21/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/21/2023
		ALS SDG#:	EV23120171
CLIENT CONTACT:	Megan Richard	WDOE ACCREDITATION:	C601
CLIENT PROJECT:	MP-46		

LABORATORY BLANK RESULTS

MBG-122023S - Batch 205123 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/20/2023	MNC

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

MB-122023S - Batch 205133 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	12/20/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/20/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/20/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS SDG#:	EV23120171
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 205123 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	107			66.5	122.7	12/20/2023	MNC
TPH-Volatile Range - BSD	NWTPH-GX	104	3		66.5	122.7	12/20/2023	MNC

SURROGATE	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TFT - BS	NWTPH-GX	8.08		SQ6	60	140	12/20/2023	MNC
TFT - BSD	NWTPH-GX	7.93		SQ6	60	140	12/20/2023	MNC

SQ6 - The LCS and/or LCSD recovery were outside of control limits. However, MS/MSD recovery was within control limits. No corrective action taken.

ALS Test Batch ID: 205133 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	94.9			75	138	12/20/2023	DLC
Benzene - BSD	EPA-8260	98.2	3		75	138	12/20/2023	DLC
Toluene - BS	EPA-8260	96.1			71.6	122.1	12/20/2023	DLC
Toluene - BSD	EPA-8260	97.7	2		71.6	122.1	12/20/2023	DLC
Ethylbenzene - BS	EPA-8260	98.6			50	150	12/20/2023	DLC
Ethylbenzene - BSD	EPA-8260	102	3		50	150	12/20/2023	DLC
m,p-Xylene - BS	EPA-8260	96.4			50	150	12/20/2023	DLC
m,p-Xylene - BSD	EPA-8260	100	4		50	150	12/20/2023	DLC
o-Xylene - BS	EPA-8260	97.2			50	150	12/20/2023	DLC
o-Xylene - BSD	EPA-8260	101	4		50	150	12/20/2023	DLC

CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
 18378-B Redmond Way
 Redmond, WA 98052-5012
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

DATE: 12/21/2023
ALS SDG#: EV23120171
WDOE ACCREDITATION: C601

MATRIX SPIKE RESULTS
ALS Test Batch ID: 205123 - Soil
Parent Sample: SW-S-3_12_20231220

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	SPIKE ADDED	PARENT SAMPLE RESULT	CALC RESULT*	MIN	MAX	RPD	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - MS	NWTPH-GX	88.7			19.3	1.0	17.1	66.5	122.7		12/20/2023	MNC
TPH-Volatile Range - MSD	NWTPH-GX	109	19	SR1	19.3	1.0	21.0 SR1	66.5	122.7	15	12/20/2023	MNC

SR1 - RPD outside of control limits.

*Calc Result = (Sample Result - Parent Sample Result)

APPROVED BY



 Rob Greer
 Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV23120171

Date 12/20/2023 Page 1 Of 1

PROJECT ID: <u>MP-46</u>					ANALYSIS REQUESTED															OTHER (Specify)								
REPORT TO COMPANY: <u>Antea Group</u>					NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	TAL	RCRA-8	Ph Pol	Metals Other (Specify)	VOA	Semi-Vol	Pest	Herbs	TCLP-Metals	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
PROJECT MANAGER: <u>Megan Richard</u>																												
ADDRESS: <u>18378 - B Redmont Way</u>																												
<u>Redmond, WA</u>																												
PHONE: <u>206-854-0344</u> P.O. #:																												
E-MAIL: <u>Megan.Richard@Anteagroup.us</u>																												
INVOICE TO COMPANY: <u>Same as above</u>																												
ATTENTION: <u>Digital Solutions, EQUIS@Anteagroup.us</u>																												
ADDRESS: <u>Same as above</u>																												
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																								
1. SW-5-3-12-2023	12/20/23	1025	Soil	1			X	X																				
2. SW-5-3-24-2023	12/20	1045		2			X	X																				
3. SW-5-4-12-2023	12/20	1330		3			X	X																				
4. SW-5-4-24-2023	12/20	1340		4			X	X																				
5. SW-N-4-12-2023	12/20/23	1352		5			X	X																				
6. SW-N-4-24-2023	12/20	1400		6			X	X																				
7. B-5-24-2023	12/20	1030		7			X	X																				
8. B-6-24-2023	12/20	1350		8			X	X																				
9. B-7-24-2023	12/20	1351		9			X	X																				
10.																												

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Colin Dechem, Antea Group, 12/20/23 1500

Received By: AFRESE, ALS, AFRESE @1500

2. Relinquished By: _____

Received By: _____

TURNAROUND REQUESTED in Business Days* (24 hrs)
Organic, Metals & Inorganic Analysis OTHER: _____

10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

Specify: _____

*Turnaround request less than standard may incur Rush Charges

Sample Receiving Checklist

Outcome of call:



December 21, 2023

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On December 19th, 21 samples were received by our laboratory and assigned our laboratory project number EV23120155. The project was identified as your MP-46. 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



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 1:30:00 PM
CLIENT SAMPLE ID	B-1_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	17	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.9	12/19/2023	MNC
Toluene-d8	EPA-8260	98.7	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/21/2023
		ALS JOB#:	EV23120155
		ALS SAMPLE#:	EV23120155-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 1:40:00 PM
CLIENT SAMPLE ID	SW-N-1_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	110	30	10	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	1200	180	10	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	17000	100	10	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	1400	150	10	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	5900	290	10	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	2400	180	10	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	107	12/20/2023	MNC
Toluene-d8 10X Dilution	EPA-8260	98.3	12/20/2023	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/21/2023
		ALS JOB#:	EV23120155
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV23120155-03
CLIENT PROJECT:	MP-46	DATE RECEIVED:	12/19/2023
CLIENT SAMPLE ID	SW-N-1_24_20231219	COLLECTION DATE:	12/19/2023 3:30:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	5.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.4	12/19/2023	MNC
Toluene-d8	EPA-8260	99.3	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Gasoline range reporting limit raised due to semivolatile range product overlap.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 2:40:00 PM
CLIENT SAMPLE ID	SW-S-1_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	54	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	91.5	12/19/2023	MNC
Toluene-d8	EPA-8260	98.9	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.
Gasoline range product results biased high due to semivolatile range product overlap.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 11:50:00 AM
CLIENT SAMPLE ID	SW-S-1_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	8.2	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	6.2	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	280	12	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	12	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	44	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	23	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	91.5	12/19/2023	MNC
Toluene-d8	EPA-8260	95.9	12/20/2023	DLC
Toluene-d8	EPA-8260	97.9	12/20/2023	DLC

Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 3:00:00 PM
CLIENT SAMPLE ID	B-2_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	88.4	12/19/2023	MNC
Toluene-d8	EPA-8260	99.0	12/20/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/21/2023
		ALS JOB#:	EV23120155
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV23120155-07
CLIENT PROJECT:	MP-46	DATE RECEIVED:	12/19/2023
CLIENT SAMPLE ID	SW-N-2_12_20231219	COLLECTION DATE:	12/19/2023 1:50:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.1	12/19/2023	MNC
Toluene-d8	EPA-8260	100	12/20/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-08
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 2:30:00 PM
CLIENT SAMPLE ID	SW-N-2_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	6.8	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	210	23	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	1700	14	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	11	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	84.6	12/19/2023	MNC
Toluene-d8	EPA-8260	98.4	12/20/2023	DLC
Toluene-d8	EPA-8260	98.7	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-09
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 2:15:00 PM
CLIENT SAMPLE ID	B-3_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	24	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	550	18	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	5200	110	10	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	300	15	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	1000	30	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	480	19	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	90.2	12/19/2023	MNC
Toluene-d8 10X Dilution	EPA-8260	98.7	12/20/2023	DLC
Toluene-d8	EPA-8260	97.7	12/20/2023	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-10
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 2:00:00 PM
CLIENT SAMPLE ID	SW-N-3_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	13	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	24	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	2500	20	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	24	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	110	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	510	35	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	107	12/19/2023	MNC
Toluene-d8	EPA-8260	97.9	12/20/2023	DLC
Toluene-d8	EPA-8260	98.8	12/20/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/21/2023
		ALS JOB#:	EV23120155
		ALS SAMPLE#:	EV23120155-11
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 2:10:00 PM
CLIENT SAMPLE ID	SW-N-3_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	17	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	230	30	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	3000	18	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	170	25	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	780	50	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	330	32	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	97.4	12/20/2023	MNC
Toluene-d8	EPA-8260	99.4	12/20/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-12
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 2:50:00 PM
CLIENT SAMPLE ID	SW-E-1_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	12	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	230	17	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	21	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	100	12/20/2023	MNC
Toluene-d8	EPA-8260	99.6	12/20/2023	DLC
Toluene-d8	EPA-8260	99.3	12/20/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/21/2023
		ALS JOB#:	EV23120155
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV23120155-13
CLIENT PROJECT:	MP-46	DATE RECEIVED:	12/19/2023
CLIENT SAMPLE ID	SW-E-1_24_20231219	COLLECTION DATE:	12/19/2023 2:50:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	8.5	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	96.6	12/20/2023	MNC
Toluene-d8	EPA-8260	99.1	12/20/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-14
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 3:20:00 PM
CLIENT SAMPLE ID	SW-W-1_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	6.6	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	1000	28	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	1700	17	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	28	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	13	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	100	12/20/2023	MNC
Toluene-d8	EPA-8260	99.3	12/20/2023	DLC
Toluene-d8	EPA-8260	99.3	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/21/2023
		ALS JOB#:	EV23120155
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV23120155-15
CLIENT PROJECT:	MP-46	DATE RECEIVED:	12/19/2023
CLIENT SAMPLE ID	SW-E-2_24_20231219	COLLECTION DATE:	12/19/2023 3:50:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	27	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	81.7	12/20/2023	MNC
Toluene-d8	EPA-8260	97.4	12/20/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-16
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 4:40:00 PM
CLIENT SAMPLE ID	SW-E-3_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	44	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	6.8	5.0	1	UG/KG	12/19/2023	DLC
Toluene	EPA-8260	3500	13	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	390	18	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	2800	36	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	1300	23	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	107	12/20/2023	MNC
Toluene-d8	EPA-8260	107	12/19/2023	DLC
Toluene-d8	EPA-8260	96.3	12/20/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-17
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 5:00:00 PM
CLIENT SAMPLE ID	SW-S-2_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/19/2023	DLC
Toluene	EPA-8260	17	10	1	UG/KG	12/19/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/19/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/19/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/19/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	98.4	12/20/2023	MNC
Toluene-d8	EPA-8260	99.5	12/19/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-18
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 3:50:00 PM
CLIENT SAMPLE ID	SW-E-2_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	22	5.0	1	UG/KG	12/19/2023	DLC
Toluene	EPA-8260	77	14	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/19/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/19/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/19/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	87.4	12/20/2023	MNC
Toluene-d8	EPA-8260	98.9	12/19/2023	DLC
Toluene-d8	EPA-8260	99.5	12/20/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-19
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 4:55:00 PM
CLIENT SAMPLE ID	SW-E-3_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	170	30	10	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	550	250	10	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	12000	150	10	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	2600	210	10	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	11000	410	10	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	4400	260	10	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	96.4	12/20/2023	MNC
Toluene-d8 10X Dilution	EPA-8260	96.8	12/20/2023	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-20
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 5:10:00 PM
CLIENT SAMPLE ID	SW-S-2_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/19/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/19/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/19/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/19/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/19/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	103	12/20/2023	MNC
Toluene-d8	EPA-8260	98.2	12/19/2023	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-21
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 4:25:00 PM
CLIENT SAMPLE ID	B-4_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	12	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	720	29	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	3000	17	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	28	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	14	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	101	12/20/2023	MNC
Toluene-d8	EPA-8260	100	12/20/2023	DLC
Toluene-d8	EPA-8260	99.8	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS SDG#:	EV23120155
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY BLANK RESULTS
MBG-121923S - Batch 205074 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/19/2023	MNC

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

MBG-121923S2 - Batch 205077 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/20/2023	MNC

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

MB-121923S - Batch 205092 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	12/19/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/19/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/19/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/19/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/19/2023	DLC

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

MB-121923S2 - Batch 205093 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	12/20/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/20/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/20/2023	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 12/21/2023
ALS SDG#: EV23120155
WDOE ACCREDITATION: C601

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 205074 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	104			66.5	122.7	12/19/2023	MNC
TPH-Volatile Range - BSD	NWTPH-GX	103	1		66.5	122.7	12/19/2023	MNC

ALS Test Batch ID: 205077 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	106			66.5	122.7	12/20/2023	MNC
TPH-Volatile Range - BSD	NWTPH-GX	104	2		66.5	122.7	12/20/2023	MNC

ALS Test Batch ID: 205092 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	96.6			75	138	12/19/2023	DLC
Benzene - BSD	EPA-8260	90.3	7		75	138	12/19/2023	DLC
Toluene - BS	EPA-8260	96.9			71.6	122.1	12/19/2023	DLC
Toluene - BSD	EPA-8260	90.2	7		71.6	122.1	12/19/2023	DLC
Ethylbenzene - BS	EPA-8260	98.9			50	150	12/19/2023	DLC
Ethylbenzene - BSD	EPA-8260	92.0	7		50	150	12/19/2023	DLC
m,p-Xylene - BS	EPA-8260	96.8			50	150	12/19/2023	DLC
m,p-Xylene - BSD	EPA-8260	90.8	6		50	150	12/19/2023	DLC
o-Xylene - BS	EPA-8260	98.7			50	150	12/19/2023	DLC
o-Xylene - BSD	EPA-8260	92.3	7		50	150	12/19/2023	DLC

ALS Test Batch ID: 205093 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	91.6			75	138	12/20/2023	DLC
Benzene - BSD	EPA-8260	91.6	0		75	138	12/20/2023	DLC
Toluene - BS	EPA-8260	91.3			71.6	122.1	12/20/2023	DLC
Toluene - BSD	EPA-8260	92.3	1		71.6	122.1	12/20/2023	DLC
Ethylbenzene - BS	EPA-8260	92.8			50	150	12/20/2023	DLC
Ethylbenzene - BSD	EPA-8260	92.7	0		50	150	12/20/2023	DLC
m,p-Xylene - BS	EPA-8260	91.1			50	150	12/20/2023	DLC
m,p-Xylene - BSD	EPA-8260	91.0	0		50	150	12/20/2023	DLC
o-Xylene - BS	EPA-8260	93.9			50	150	12/20/2023	DLC
o-Xylene - BSD	EPA-8260	93.3	1		50	150	12/20/2023	DLC

CERTIFICATE OF ANALYSIS

APPROVED BY

Rob Greer
Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV23120155

Date 12/19/23 Page 1 Of 3

PROJECT ID: <u>MP-46</u>					ANALYSIS REQUESTED															OTHER (Specify)								
REPORT TO COMPANY: <u>Antea Group</u>					NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION? Herbs Pest Semi-Vol VOA Metals TCLP-Metals Metals Other (Specify) RCRA-8 Pb Pol Pesticides by EPA 8081 PCB by EPA 8082 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM Semivolatile Organic Compounds by EPA 8270 EDB / EDC by EPA 8260 (soil) EDB / EDC by EPA 8260 SIM (water) Volatile Organic Compounds by EPA 8260 Halogenated Volatiles by EPA 8260 MTBE by EPA 8021 BTEX by EPA 8021 NWTPH-GX NWTPH-DX NWTPH-HCID																							
PROJECT MANAGER: <u>Megan Richard</u>																												
ADDRESS: <u>18378-B Redmond Way</u>																												
<u>Redmond, WA</u>																												
PHONE: <u>206-854-0399</u> P.O. #:																												
E-MAIL: <u>megan.richard@anteagroup.us</u>																												
INVOICE TO COMPANY: <u>Same as above</u>																												
ATTENTION: <u>Digital Solutions.E@anteagroup.us</u>																												
ADDRESS: <u>same as above</u>																												
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	TAL	RCRA-8	Pb Pol	Metals	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?
1. B-1-24-20231219	12/19/23	13:30	S	1			X	X																				4
2. SW-N-1-12-20231219	12/19/23	13:40		2			X	X																				1
3. SW-N-1-24-20231219	12/19/23	15:30		3			X	X																				
4. SW-S-1-12-20231219	12/19/23	14:40		4			X	X																				
5. SW-S-1-24-20231219	12/19/23	11:50		5			X	X																				
6. B-2-24-20231219	12/19/23	15:00		6			X	X																				
7. SW-N-2-12-20231219	12/19/23	13:50		7			X	X																				
8. SW-N-2-24-20231219	12/19/23	14:30		8			X	X																				
9. B-3-24-20231219	12/19/23	14:15		9			X	X																				
10. SW-N-3-12-20231219	12/19/23	14:00	✓	10			X	X																				✓

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

- Relinquished By: Marian Murphy 12/19/23
Received By: ALS 12/19/23 1823
- Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

OTHER: 24 HR / ASAP

Specify: _____

*Turnaround request less than standard may incur Rush Charges



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
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http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

612312155

Date _____ Page 2 Of 3

PROJECT ID: <u>MP-46</u>					ANALYSIS REQUESTED															OTHER (Specify)						
REPORT TO COMPANY: <u>Antea Group</u>					NWTPH-HCID NWTPH-DX NWTPH-GX BTEX by EPA 8021 MTBE by EPA 8021 Halogenated Volatiles by EPA 8260 Volatile Organic Compounds by EPA 8260 EDB / EDC by EPA 8260 SIM (water) EDB / EDC by EPA 8260 (soil) Semi-volatile Organic Compounds by EPA 8270 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM PCB by EPA 8082 Pesticides by EPA 8081 Metals-MTCA-5 RCRA-8 Pri Pol TAL Metals Other (Specify) TCLP-Metals VOA Semi-Vol Pest Herbs																					
PROJECT MANAGER: <u>Megan Richard</u>																										
ADDRESS: <u>18398-B Redmond Way</u>																										
<u>Redmond, WA</u>																										
PHONE: <u>206-854-0399</u> P.O. #:																										
E-MAIL: <u>megan.richard@anteagroup.us</u>																										
INVOICE TO COMPANY: <u>Same as above</u>																										
ATTENTION: <u>Digital Solutions. Eavis@anteagroup.us</u>																										
ADDRESS: <u>same as above</u>																										
SAMPLE I.D.					DATE					TIME					TYPE					LAB#						
1. SW-N-3-24-20231219					12/19/23					14 10					S					11						
2. SW-E-1-12-20231219					12/19/23					14 50										12						
3. SW-E-1-24-20231219					12/19/23					14 50										13						
4. SW-W-1-12-20231219					12/19/23					15 20										14						
5. SW-E-2-24-20231219					12/19/23					15 50										15						
6. SW-E-3-12-20231219					12/19/23					16 40										16						
7. SW-S-2-12-20231219					12/19/23					17 00										17						
8. SW-E-2-12-20231219					12/19/23					15 50										18						
9. SW-E-3-24-20231219					12/19/23					16 55										19						
10. SW-S-2-24-20231219					12/19/23					17:10										20						

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Marion Murphy
Received By: ALS 12/19/23 1823
2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis

10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

OTHER: Specify: 24 HRS/ASAP

*Turnaround request less than standard may incur Rush Charges



ALS Job# (Laboratory Use Only)

EV23120155

Date 2/2 Page 3 Of 5

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Mariah Murphy
Received By: [Signature] ACS 12/16/23 1823

2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

OTHER:

10 5 3 2 1 SAM
DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAM
Standard DAY

Specify: _____

**Turnaround request less than standard may incur Rush Charges*

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Anteq ALS Job#: 6123120155

Project: MP-46

Login Date: 12/19/23 Login Time: 1823 Login By: CN

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

	Yes	No	N/A
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?	☒		
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.)?	☒		
Was sufficient amount of sample sent for the tests indicated?	☒		
Was correct preservation added to samples?	☒		
Subcontract test containers added to Subcontract Bin?			☒
Wetchem test containers marked with required Tests?			☒
Short hold time test containers delivered to analysts?			☒
Were VOA vials checked for absence of air bubbles?			☒
Bubbles present in sample #: _____			

5035A kits received? ☒
Low Kits: 21 # High Kits: _____

5035A kits returned?
Low Kits: _____ # High Kits: _____

Temperature of cooler upon receipt: 2.7C On ice? ☒

Explain any discrepancies:

Was client contacted? _____ Who was called? _____ By whom? _____ Date: _____

Outcome of call:

Appendix G-5

Soil Sampling results Summaries

Laboratory Results | Soil Delineation
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	GT-2		GT-2B		HA-A01		
			1/4/2024		1/5/2024		1/27/2024		
			MTWA0104GT002	MTWA0104GT003	MTWA0105SB037	MTWA0105SB038	MTWA0127SB090	MTWA0127SB091	MTWA0127SB092
6010D	Arsenic	20000 µg/kg ¹	NA	NA	NA	NA	6,080 µg/kg	4,790 µg/kg	10,400 µg/kg
	Barium	NA	NA	NA	NA	NA	140,000 µg/kg	81,900 µg/kg	140,000 µg/kg
	Cadmium	2000 µg/kg ¹	NA	NA	NA	NA	253 µg/kg (J)	73.8 µg/kg (J)	197 µg/kg (J)
	Chromium	NA	NA	NA	NA	NA	50,200 µg/kg	38,000 µg/kg	60,500 µg/kg
	Lead	250000 µg/kg ¹	NA	NA	NA	NA	16,300 µg/kg	9,350 µg/kg	19,100 µg/kg
	Selenium	NA	NA	NA	NA	NA	< 1,230 µg/kg	1,040 µg/kg (J)	< 1,200 µg/kg
	Silver	NA	NA	NA	NA	NA	< 204 µg/kg	< 153 µg/kg	< 200 µg/kg
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	76.4 µg/kg	37.1 µg/kg (J)	80.8 µg/kg
8260D	Benzene	30 µg/kg ¹	< 4.78 µg/kg	< 7.3 µg/kg	< 0.804 µg/kg	0.804 µg/kg (J)	< 1.04 µg/kg	< 0.696 µg/kg	< 1.02 µg/kg
	Ethylbenzene	6000 µg/kg ¹	1,610 µg/kg	8,000 µg/kg	< 1.27 µg/kg	< 1.26 µg/kg	< 1.64 µg/kg	< 1.1 µg/kg	< 1.61 µg/kg
	Toluene	7000 µg/kg ¹	32.6 µg/kg (J)	60.5 µg/kg (J)	< 2.24 µg/kg	< 2.21 µg/kg	< 2.89 µg/kg	< 1.94 µg/kg	< 2.85 µg/kg
	Xylenes, Total	9000 µg/kg ¹	3,530 µg/kg	20,400 µg/kg	< 1.52 µg/kg	3.03 µg/kg (J)	< 1.96 µg/kg	< 1.31 µg/kg	< 1.93 µg/kg
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	518,000 µg/kg (J)	363,000 µg/kg	NA	NA	NA	NA	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	7,270 µg/kg (J)	7,880 µg/kg (J)	NA	NA	NA	NA	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	362,000 µg/kg	1,010,000 µg/kg	< 1,490 µg/kg	< 1,430 µg/kg	< 1,930 µg/kg	< 1,240 µg/kg	< 1,860 µg/kg

¹ Washington State Model Toxic Control Act (MTCA) - Method A Soil Cleanup Levels for Unrestricted Land Use
* Cleanup Level for Heavy Oils
Laboratory non-detections are reported as less than ("<") the laboratory method detection limit (MDL).
Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Detection > Screening Value

Detection

Non-detection

Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	HA-A03 1/27/2024		HA-A05 1/27/2024			HA-A07 1/27/2024	
			MTWA0127SB088	MTWA0127SB089	MTWA0127SB093	MTWA0127SB094	MTWA0127SC093	MTWA0127SB095	MTWA0127SB096
6010D	Arsenic	20000 µg/kg ¹	8,060 µg/kg	9,760 µg/kg	5,250 µg/kg	6,930 µg/kg	4,650 µg/kg	6,930 µg/kg	5,520 µg/kg
	Barium	NA	127,000 µg/kg	189,000 µg/kg	69,300 µg/kg	121,000 µg/kg	62,900 µg/kg	127,000 µg/kg	117,000 µg/kg
	Cadmium	2000 µg/kg ¹	222 µg/kg (J)	350 µg/kg (J)	< 61.9 µg/kg	224 µg/kg (J)	73.1 µg/kg (J)	205 µg/kg (J)	218 µg/kg (J)
	Chromium	NA	55,400 µg/kg	72,700 µg/kg	37,800 µg/kg	48,000 µg/kg	33,300 µg/kg	61,000 µg/kg	44,500 µg/kg
	Lead	250000 µg/kg ¹	21,000 µg/kg	19,900 µg/kg	8,050 µg/kg	11,200 µg/kg	7,250 µg/kg	25,300 µg/kg	11,000 µg/kg
	Selenium	NA	< 1,110 µg/kg	1,650 µg/kg (J)	< 1,000 µg/kg	< 1,280 µg/kg	< 1,010 µg/kg	1,740 µg/kg (J)	< 1,210 µg/kg
	Silver	NA	< 184 µg/kg	< 217 µg/kg	< 167 µg/kg	< 213 µg/kg	< 168 µg/kg	< 208 µg/kg	< 201 µg/kg
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	80.6 µg/kg	107 µg/kg	28.7 µg/kg (J)	76.4 µg/kg	40.1 µg/kg (J)	94.1 µg/kg	92.5 µg/kg
8260D	Benzene	30 µg/kg ¹	< 0.904 µg/kg	12.4 µg/kg	< 0.794 µg/kg	< 1.1 µg/kg	< 0.804 µg/kg	< 1.09 µg/kg	< 1.02 µg/kg
	Ethylbenzene	6000 µg/kg ¹	12.5 µg/kg	110 µg/kg	< 1.25 µg/kg	< 1.74 µg/kg	< 1.27 µg/kg	< 1.72 µg/kg	< 1.61 µg/kg
	Toluene	7000 µg/kg ¹	27.3 µg/kg	125 µg/kg	3.66 µg/kg (J)	8.36 µg/kg (J)	4.98 µg/kg (J)	3.2 µg/kg (J)	< 2.84 µg/kg
	Xylenes, Total	9000 µg/kg ¹	111 µg/kg	1,550 µg/kg	6.85 µg/kg (J)	< 2.08 µg/kg	9.14 µg/kg (J)	< 2.05 µg/kg	< 1.92 µg/kg
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 3,080 µg/kg	< 7,030 µg/kg	< 1,450 µg/kg	< 2,050 µg/kg	< 1,450 µg/kg	< 1,980 µg/kg	< 2,070 µg/kg

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* Cleanup Level for Heavy Oils

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Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:

J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- Detection > Screening Value
- Detection
- Non-detection
- Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	HA-A08	HA-A12		HA-A13		HA-A14	
			1/27/2024	2/5/2024		2/5/2024		2/5/2024	
			MTWA01275B097	MTWA02055B114	MTWA02055B115	MTWA02055B112	MTWA02055B113	MTWA02055B110	MTWA02055B111
6010D	Arsenic	20000 µg/kg ¹	6,700 µg/kg	NA	NA	NA	NA	NA	NA
	Barium	NA	136,000 µg/kg	NA	NA	NA	NA	NA	NA
	Cadmium	2000 µg/kg ¹	162 µg/kg (J)	NA	NA	NA	NA	NA	NA
	Chromium	NA	66,000 µg/kg	NA	NA	NA	NA	NA	NA
	Lead	250000 µg/kg ¹	19,100 µg/kg	NA	NA	NA	NA	NA	NA
	Selenium	NA	< 1,150 µg/kg	NA	NA	NA	NA	NA	NA
	Silver	NA	< 192 µg/kg	NA	NA	NA	NA	NA	NA
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	81.9 µg/kg	NA	NA	NA	NA	NA	NA
8260D	Benzene	30 µg/kg ¹	< 0.943 µg/kg	793 µg/kg	4,100 µg/kg	6,400 µg/kg	16,700 µg/kg	5,620 µg/kg	9,830 µg/kg
	Ethylbenzene	6000 µg/kg ¹	< 1.49 µg/kg	41,700 µg/kg	114,000 µg/kg	144,000 µg/kg	167,000 µg/kg	111,000 µg/kg	99,200 µg/kg
	Toluene	7000 µg/kg ¹	4.84 µg/kg (J)	143,000 µg/kg	131,000 µg/kg	475,000 µg/kg	755,000 µg/kg	247,000 µg/kg	314,000 µg/kg
	Xylenes, Total	9000 µg/kg ¹	12.7 µg/kg (J)	280,000 µg/kg	154,000 µg/kg	685,000 µg/kg	879,000 µg/kg	431,000 µg/kg	354,000 µg/kg
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 1,710 µg/kg	1,530,000 µg/kg	1,850,000 µg/kg	6,520,000 µg/kg	8,030,000 µg/kg	6,630,000 µg/kg	4,950,000 µg/kg

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- Detection > Screening Value
- Detection
- Non-detection
- Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	HA-A15		HA-A16	HA-A17	HA-A20		HA-B02
			2/5/2024		2/5/2024	2/5/2024	1/9/2024	1/16/2024	1/27/2024
			MTWA0205SB108	MTWA0205SB109	MTWA0205SB107	MTWA0205SB106	MTWA0109SB055	MTWA0116SB057	MTWA0127SB085
6010D	Arsenic	20000 µg/kg ¹	NA	NA	NA	NA	NA	NA	7,740 µg/kg
	Barium	NA	NA	NA	NA	NA	NA	NA	122,000 µg/kg
	Cadmium	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	167 µg/kg (J)
	Chromium	NA	NA	NA	NA	NA	NA	NA	49,400 µg/kg
	Lead	250000 µg/kg ¹	NA	NA	NA	NA	NA	NA	15,500 µg/kg
	Selenium	NA	NA	NA	NA	NA	NA	NA	1,510 µg/kg (J)
	Silver	NA	NA	NA	NA	NA	NA	NA	< 171 µg/kg
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	56.2 µg/kg
8260D	Benzene	30 µg/kg ¹	657 µg/kg	11,300 µg/kg	11,400 µg/kg	6,740 µg/kg	2.27 µg/kg	472 µg/kg	< 0.821 µg/kg
	Ethylbenzene	6000 µg/kg ¹	6,270 µg/kg	106,000 µg/kg	137,000 µg/kg	89,200 µg/kg	2.65 µg/kg (J)	15,100 µg/kg	< 1.3 µg/kg
	Toluene	7000 µg/kg ¹	23,100 µg/kg	349,000 µg/kg	449,000 µg/kg	382,000 µg/kg	6.82 µg/kg (J)	102 µg/kg	< 2.28 µg/kg
	Xylenes, Total	9000 µg/kg ¹	162,000 µg/kg	472,000 µg/kg	533,000 µg/kg	485,000 µg/kg	< 15.9 µg/kg	78 µg/kg	< 1.55 µg/kg
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	9,760 µg/kg (J)	32,100 µg/kg	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	< 4,370 µg/kg	6,310 µg/kg (J)	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	1,650,000 µg/kg	6,190,000 µg/kg	9,250,000 µg/kg	6,130,000 µg/kg	< 1,490 µg/kg	218,000 µg/kg	< 1,490 µg/kg

¹ Washington State Model Toxic Control Act (MTCA) - Method A Soil Cleanup Levels for Unrestricted Land Use

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- Detection > Screening Value
- Detection
- Non-detection
- Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	HA-B02		HA-B04			HA-B06	
			1/27/2024		1/27/2024			1/27/2024	
			MTWA0127SB086	MTWA0127SB087	MTWA0127SB079	MTWA0127SB080	MTWA0127SB081	MTWA0127SB098	MTWA0127SB099
6010D	Arsenic	20000 µg/kg ¹	8,610 µg/kg	6,680 µg/kg	7,840 µg/kg	7,280 µg/kg	1,070 µg/kg (J)	7,760 µg/kg	7,050 µg/kg
	Barium	NA	99,400 µg/kg	143,000 µg/kg	114,000 µg/kg	150,000 µg/kg	52,900 µg/kg	138,000 µg/kg	170,000 µg/kg
	Cadmium	2000 µg/kg ¹	180 µg/kg (J)	204 µg/kg (J)	157 µg/kg (J)	312 µg/kg (J)	< 58.4 µg/kg	246 µg/kg (J)	437 µg/kg (J)
	Chromium	NA	42,800 µg/kg	49,600 µg/kg	50,500 µg/kg	55,900 µg/kg	25,900 µg/kg	64,800 µg/kg	49,300 µg/kg
	Lead	250000 µg/kg ¹	12,800 µg/kg	16,000 µg/kg	17,300 µg/kg	12,700 µg/kg	3,470 µg/kg	18,500 µg/kg	13,100 µg/kg
	Selenium	NA	< 911 µg/kg	< 1,020 µg/kg	< 1,050 µg/kg	2,100 µg/kg (J)	1,600 µg/kg (J)	1,420 µg/kg (J)	< 1,060 µg/kg
	Silver	NA	< 151 µg/kg	< 170 µg/kg	< 175 µg/kg	< 186 µg/kg	< 157 µg/kg	< 195 µg/kg	< 176 µg/kg
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	46.1 µg/kg (J)	58.6 µg/kg	78.3 µg/kg	69.3 µg/kg	< 22.3 µg/kg	106 µg/kg	78 µg/kg
8260D	Benzene	30 µg/kg ¹	< 0.691 µg/kg	< 0.827 µg/kg	< 0.846 µg/kg	< 0.926 µg/kg	< 0.742 µg/kg	< 0.99 µg/kg	< 0.832 µg/kg
	Ethylbenzene	6000 µg/kg ¹	< 1.09 µg/kg	< 1.31 µg/kg	< 1.34 µg/kg	< 1.46 µg/kg	< 1.17 µg/kg	< 1.56 µg/kg	< 1.31 µg/kg
	Toluene	7000 µg/kg ¹	< 1.92 µg/kg	< 2.3 µg/kg	< 2.36 µg/kg	< 2.58 µg/kg	< 2.06 µg/kg	< 2.76 µg/kg	< 2.32 µg/kg
	Xylenes, Total	9000 µg/kg ¹	< 1.3 µg/kg	< 1.56 µg/kg	< 1.59 µg/kg	< 1.75 µg/kg	< 1.4 µg/kg	< 6.04 µg/kg	< 1.57 µg/kg
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 1,540 µg/kg	< 1,500 µg/kg	10,200 µg/kg	< 1,690 µg/kg	< 1,370 µg/kg	< 1,800 µg/kg	< 1,510 µg/kg

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- Detection > Screening Value
- Detection
- Non-detection
- Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	HA-B08			HA-B20		HA-C03	
			1/28/2024			1/9/2024		1/16/2024	
			MTWA0128SB103	MTWA0128SB104	MTWA0128SC103	MTWA0109SB056	MTWA0109SC056	MTWA0116SB058	MTWA0127SB082
6010D	Arsenic	20000 µg/kg ¹	6,760 µg/kg	6,310 µg/kg	5,970 µg/kg	NA	NA	NA	5,930 µg/kg
	Barium	NA	126,000 µg/kg	106,000 µg/kg	118,000 µg/kg	NA	NA	NA	98,600 µg/kg
	Cadmium	2000 µg/kg ¹	257 µg/kg (J)	239 µg/kg (J)	232 µg/kg (J)	NA	NA	NA	253 µg/kg (J)
	Chromium	NA	54,700 µg/kg	36,600 µg/kg	52,500 µg/kg	NA	NA	NA	45,300 µg/kg
	Lead	250000 µg/kg ¹	23,700 µg/kg	9,400 µg/kg	22,500 µg/kg	NA	NA	NA	16,000 µg/kg
	Selenium	NA	< 1,170 µg/kg	998 µg/kg (J)	< 1,180 µg/kg	NA	NA	NA	< 1,000 µg/kg
	Silver	NA	< 194 µg/kg	< 164 µg/kg	< 196 µg/kg	NA	NA	NA	< 166 µg/kg
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	119 µg/kg	37.6 µg/kg (J)	119 µg/kg	NA	NA	NA	47 µg/kg (J)
8260D	Benzene	30 µg/kg ¹	< 0.977 µg/kg	< 0.773 µg/kg	< 1 µg/kg	< 0.743 µg/kg	< 0.769 µg/kg	1.05 µg/kg (J)	< 0.766 µg/kg
	Ethylbenzene	6000 µg/kg ¹	< 1.54 µg/kg	< 1.22 µg/kg	< 1.58 µg/kg	< 1.17 µg/kg	< 1.21 µg/kg	5.31 µg/kg	< 1.21 µg/kg
	Toluene	7000 µg/kg ¹	< 2.72 µg/kg	2.35 µg/kg (J)	3.47 µg/kg (J)	2.18 µg/kg (J)	< 2.14 µg/kg	4.3 µg/kg (J)	< 2.13 µg/kg
	Xylenes, Total	9000 µg/kg ¹	2.95 µg/kg (J)	3.05 µg/kg (J)	5.06 µg/kg (J)	< 5.74 µg/kg	< 5.3 µg/kg	13.8 µg/kg	< 1.44 µg/kg
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	3,170 µg/kg (J)	NA	3,900 µg/kg (J)	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	< 4,220 µg/kg	NA	< 4,790 µg/kg	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 1,770 µg/kg	< 1,400 µg/kg	< 1,820 µg/kg	< 1,380 µg/kg	< 1,360 µg/kg	3,980 µg/kg (J)	< 2,490 µg/kg

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- Detection > Screening Value
- Detection
- Non-detection
- Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	HA-C03 1/27/2024			HA-C05 1/27/2024			HA-C07 1/28/2024
			MTWA0127SB083	MTWA0127SB084	MTWA0127SC084	MTWA0127SB076	MTWA0127SB077	MTWA0127SB078	MTWA0128SB100
6010D	Arsenic	20000 µg/kg ¹	5,260 µg/kg	4,200 µg/kg	5,150 µg/kg	8,670 µg/kg	7,390 µg/kg	6,050 µg/kg	6,120 µg/kg
	Barium	NA	113,000 µg/kg	123,000 µg/kg	135,000 µg/kg	168,000 µg/kg	198,000 µg/kg	156,000 µg/kg	136,000 µg/kg
	Cadmium	2000 µg/kg ¹	64.1 µg/kg (J)	< 63.8 µg/kg	68.3 µg/kg (J)	375 µg/kg (J)	467 µg/kg (J)	172 µg/kg (J)	232 µg/kg (J)
	Chromium	NA	47,200 µg/kg	51,600 µg/kg	60,500 µg/kg	46,000 µg/kg	48,100 µg/kg	50,900 µg/kg	44,500 µg/kg
	Lead	250000 µg/kg ¹	10,300 µg/kg	11,300 µg/kg	14,100 µg/kg	17,100 µg/kg	15,900 µg/kg	12,800 µg/kg	11,300 µg/kg
	Selenium	NA	< 947 µg/kg	< 1,030 µg/kg	< 1,070 µg/kg	1,900 µg/kg (J)	1,470 µg/kg (J)	< 990 µg/kg	< 985 µg/kg
	Silver	NA	< 157 µg/kg	< 172 µg/kg	< 179 µg/kg	< 180 µg/kg	< 170 µg/kg	< 164 µg/kg	< 164 µg/kg
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	36.6 µg/kg (J)	41.3 µg/kg (J)	37.6 µg/kg (J)	52.4 µg/kg (J)	43.4 µg/kg (J)	29.6 µg/kg (J)	41.1 µg/kg (J)
8260D	Benzene	30 µg/kg ¹	< 0.729 µg/kg	< 0.834 µg/kg	< 0.899 µg/kg	< 0.87 µg/kg	< 0.803 µg/kg	< 0.772 µg/kg	< 0.786 µg/kg
	Ethylbenzene	6000 µg/kg ¹	< 1.15 µg/kg	< 1.32 µg/kg	< 1.42 µg/kg	< 1.37 µg/kg	< 1.27 µg/kg	< 1.22 µg/kg	< 1.24 µg/kg
	Toluene	7000 µg/kg ¹	< 2.03 µg/kg	2.96 µg/kg (J)	< 2.5 µg/kg	2.63 µg/kg (J)	< 2.24 µg/kg	< 2.15 µg/kg	< 2.18 µg/kg
	Xylenes, Total	9000 µg/kg ¹	< 1.37 µg/kg	< 1.57 µg/kg	< 1.69 µg/kg	< 6.84 µg/kg	< 1.55 µg/kg	< 1.46 µg/kg	< 1.48 µg/kg
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 1,440 µg/kg	< 1,540 µg/kg	< 1,690 µg/kg	< 3,470 µg/kg	12,800 µg/kg	< 1,520 µg/kg	< 1,600 µg/kg

¹ Washington State Model Toxic Control Act (MTCA) - Method A Soil Cleanup Levels for Unrestricted Land Use

* Cleanup Level for Heavy Oils

Laboratory non-detections are reported as less than ("<") the laboratory method detection limit (MDL).

Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:

J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- Detection > Screening Value
- Detection
- Non-detection
- Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	HA-C07		HA-C08		HA-C18		
			1/28/2024		1/28/2024		1/16/2024		
			MTWA0128SB101	MTWA0128SB102	MTWA0128SB105	MTWA0128SC105	MTWA0116SB065	MTWA0116SB066	MTWA0116SC065
6010D	Arsenic	20000 µg/kg ¹	4,290 µg/kg	5,590 µg/kg	6,820 µg/kg	7,280 µg/kg	NA	NA	NA
	Barium	NA	116,000 µg/kg	123,000 µg/kg	130,000 µg/kg	131,000 µg/kg	NA	NA	NA
	Cadmium	2000 µg/kg ¹	273 µg/kg (J)	< 63.7 µg/kg	294 µg/kg (J)	287 µg/kg (J)	NA	NA	NA
	Chromium	NA	34,500 µg/kg	40,300 µg/kg	47,400 µg/kg	48,400 µg/kg	NA	NA	NA
	Lead	250000 µg/kg ¹	9,640 µg/kg	10,200 µg/kg	14,300 µg/kg	14,200 µg/kg	NA	NA	NA
	Selenium	NA	1,360 µg/kg (J)	< 1,030 µg/kg	< 1,020 µg/kg	< 1,050 µg/kg	NA	NA	NA
	Silver	NA	< 174 µg/kg	< 172 µg/kg	< 170 µg/kg	< 174 µg/kg	NA	NA	NA
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	< 24.7 µg/kg	34.5 µg/kg (J)	44.1 µg/kg (J)	42.8 µg/kg (J)	NA	NA	NA
8260D	Benzene	30 µg/kg ¹	< 0.87 µg/kg	< 0.843 µg/kg	< 0.814 µg/kg	< 0.852 µg/kg	0.959 µg/kg (J)	1.16 µg/kg (J)	0.879 µg/kg (J)
	Ethylbenzene	6000 µg/kg ¹	< 1.37 µg/kg	< 1.33 µg/kg	< 1.28 µg/kg	< 1.34 µg/kg	4.88 µg/kg	2.82 µg/kg (J)	< 1.38 µg/kg
	Toluene	7000 µg/kg ¹	< 2.42 µg/kg	< 2.35 µg/kg	< 2.26 µg/kg	< 2.37 µg/kg	6.54 µg/kg (J)	6.12 µg/kg (J)	7.07 µg/kg (J)
	Xylenes, Total	9000 µg/kg ¹	< 1.64 µg/kg	< 1.59 µg/kg	< 1.53 µg/kg	< 1.61 µg/kg	24.5 µg/kg	19.7 µg/kg	17.5 µg/kg
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 2,370 µg/kg	< 2,220 µg/kg	< 1,700 µg/kg	8,860 µg/kg (J)	< 13,100 µg/kg	< 4,120 µg/kg	< 13,900 µg/kg

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* Cleanup Level for Heavy Oils

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Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:

J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- Detection > Screening Value
- Detection
- Non-detection
- Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	HA-C19B			HA-D08		HA-D15	
			1/16/2024			1/27/2024		1/16/2024	
			MTWA0116SB059	MTWA0116SB060	MTWA0116SC059	MTWA0127SB075	MTWA0127SC075	MTWA0116SB073	MTWA0116SB074
6010D	Arsenic	20000 µg/kg ¹	NA	NA	NA	6,790 µg/kg	5,340 µg/kg	NA	NA
	Barium	NA	NA	NA	NA	130,000 µg/kg	114,000 µg/kg	NA	NA
	Cadmium	2000 µg/kg ¹	NA	NA	NA	184 µg/kg (J)	155 µg/kg (J)	NA	NA
	Chromium	NA	NA	NA	NA	65,600 µg/kg	57,300 µg/kg	NA	NA
	Lead	250000 µg/kg ¹	NA	NA	NA	14,800 µg/kg	13,600 µg/kg	NA	NA
	Selenium	NA	NA	NA	NA	1,500 µg/kg (J)	1,530 µg/kg (J)	NA	NA
	Silver	NA	NA	NA	NA	< 195 µg/kg	< 181 µg/kg	NA	NA
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	NA	NA	NA	34.3 µg/kg (J)	31.4 µg/kg (J)	NA	NA
8260D	Benzene	30 µg/kg ¹	1.19 µg/kg (J)	1.17 µg/kg (J)	1.91 µg/kg	< 0.995 µg/kg	< 0.902 µg/kg	< 0.82 µg/kg	< 0.722 µg/kg
	Ethylbenzene	6000 µg/kg ¹	4.48 µg/kg	19.2 µg/kg	5.4 µg/kg	< 1.57 µg/kg	< 1.42 µg/kg	< 1.29 µg/kg	< 1.14 µg/kg
	Toluene	7000 µg/kg ¹	12.1 µg/kg	8.44 µg/kg (J)	11.6 µg/kg	< 2.77 µg/kg	< 2.51 µg/kg	< 2.28 µg/kg	< 2.01 µg/kg
	Xylenes, Total	9000 µg/kg ¹	32.4 µg/kg	38.4 µg/kg	27.8 µg/kg	< 1.87 µg/kg	< 1.7 µg/kg	< 1.55 µg/kg	< 1.36 µg/kg
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	31,900 µg/kg (J)	2,480 µg/kg (J)	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	18,800 µg/kg (J)	< 5,200 µg/kg	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	2,070 µg/kg (J)	2,920 µg/kg (J)	1,910 µg/kg (J)	< 5,260 µg/kg	< 2,470 µg/kg	< 1,750 µg/kg	< 1,310 µg/kg

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* Cleanup Level for Heavy Oils

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- Detection > Screening Value
- Detection
- Non-detection
- Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	HA-D16 1/16/2024		HA-D17A 1/16/2024		HA-D17B 1/16/2024		HA-D18A 1/16/2024
			MTWA0116SB071	MTWA0116SB072	MTWA0116SB069	MTWA0116SB070	MTWA0116SB067	MTWA0116SB068	MTWA0116SB063
6010D	Arsenic	20000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Barium	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Chromium	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	250000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Selenium	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NA	NA	NA	NA	NA	NA	NA	NA
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
8260D	Benzene	30 µg/kg ¹	< 0.819 µg/kg	< 0.669 µg/kg	< 0.775 µg/kg	< 0.885 µg/kg	< 0.779 µg/kg	< 0.801 µg/kg	< 0.713 µg/kg
	Ethylbenzene	6000 µg/kg ¹	< 1.29 µg/kg	< 1.06 µg/kg	< 1.22 µg/kg	< 1.4 µg/kg	< 1.23 µg/kg	< 1.26 µg/kg	< 1.13 µg/kg
	Toluene	7000 µg/kg ¹	< 2.28 µg/kg	1.93 µg/kg (J)	< 2.16 µg/kg	< 2.46 µg/kg	2.45 µg/kg (J)	< 2.23 µg/kg	< 1.99 µg/kg
	Xylenes, Total	9000 µg/kg ¹	< 1.54 µg/kg	< 1.26 µg/kg	< 1.46 µg/kg	3.94 µg/kg (J)	< 1.47 µg/kg	1.69 µg/kg (J)	< 1.35 µg/kg
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 4,960 µg/kg	< 1,230 µg/kg	< 1,940 µg/kg	< 2,410 µg/kg	< 12,100 µg/kg	< 4,150 µg/kg	5,110 µg/kg

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* Cleanup Level for Heavy Oils

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- Detection > Screening Value
- Detection
- Non-detection
- Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	HA-D18A 1/16/2024		HA-D19 1/16/2024			HA-E13 2/17/2024	
			MTWA0116SB064	MTWA0116SC063	MTWA0116SB061	MTWA0116SB062	MTWA0116SC061	MTWA0217SB116	MTWA0217SB117
6010D	Arsenic	20000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Barium	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Chromium	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	250000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Selenium	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NA	NA	NA	NA	NA	NA	NA	NA
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
8260D	Benzene	30 µg/kg ¹	< 0.719 µg/kg	< 0.73 µg/kg	< 0.778 µg/kg	< 1 µg/kg	< 0.806 µg/kg	< 1.01 µg/kg	< 0.732 µg/kg
	Ethylbenzene	6000 µg/kg ¹	< 1.13 µg/kg	< 1.15 µg/kg	< 1.23 µg/kg	< 1.58 µg/kg	< 1.27 µg/kg	2.86 µg/kg (J)	< 1.16 µg/kg
	Toluene	7000 µg/kg ¹	< 2 µg/kg	< 2.03 µg/kg	< 2.17 µg/kg	< 2.79 µg/kg	< 2.24 µg/kg	16 µg/kg	3.5 µg/kg (J)
	Xylenes, Total	9000 µg/kg ¹	< 1.35 µg/kg	1.66 µg/kg (J)	2.07 µg/kg (J)	< 1.89 µg/kg	2.79 µg/kg (J)	30 µg/kg	4.11 µg/kg (J)
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	2,320 µg/kg (J)	6,630 µg/kg	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	< 4,310 µg/kg	< 5,040 µg/kg	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	1,440 µg/kg (J)	1,850 µg/kg (J)	1,870 µg/kg (J)	< 1,840 µg/kg	< 1,380 µg/kg	< 2,470 µg/kg	< 1,660 µg/kg

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- Detection
- Non-detection
- Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	HA-E13	HA-E14			HA-E15		
			2/17/2024	2/17/2024			2/17/2024		
			MTWA0217SC116	MTWA0217SB118	MTWA0217SB119	MTWA0217SB120	MTWA0217SB121	MTWA0217SB122	MTWA0217SB123
6010D	Arsenic	20000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Barium	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Chromium	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	250000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Selenium	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NA	NA	NA	NA	NA	NA	NA	NA
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
8260D	Benzene	30 µg/kg ¹	< 0.843 µg/kg	1.18 µg/kg (J)	1.87 µg/kg	121 µg/kg	< 0.918 µg/kg	< 0.689 µg/kg	< 0.776 µg/kg
	Ethylbenzene	6000 µg/kg ¹	< 1.33 µg/kg	20.2 µg/kg (J)	1.83 µg/kg (J)	135 µg/kg	< 1.45 µg/kg	< 1.09 µg/kg	< 1.22 µg/kg
	Toluene	7000 µg/kg ¹	4.31 µg/kg (J)	63 µg/kg (J)	10.5 µg/kg	127 µg/kg	< 2.56 µg/kg	< 1.92 µg/kg	< 2.16 µg/kg
	Xylenes, Total	9000 µg/kg ¹	12 µg/kg	1,810 µg/kg	149 µg/kg	636 µg/kg	< 1.73 µg/kg	< 1.3 µg/kg	1.93 µg/kg (J)
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 1,530 µg/kg	< 6,680 µg/kg	< 5,140 µg/kg	< 4,180 µg/kg	< 1,670 µg/kg	< 1,250 µg/kg	< 1,410 µg/kg

¹ Washington State Model Toxic Control Act (MTCA) - Method A Soil Cleanup Levels for Unrestricted Land Use

* Cleanup Level for Heavy Oils

Laboratory non-detections are reported as less than ("<") the laboratory method detection limit (MDL).

Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:

J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- Detection > Screening Value
- Detection
- Non-detection
- Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	SB-A09			SB-A10			SB-A11
			1/4/2024			1/4/2024			1/4/2024
			MTWA0104SB034	MTWA0104SB035	MTWA0104SB036	MTWA0104SB022	MTWA0104SB023	MTWA0104SB024	MTWA0104SB031
6010D	Arsenic	20000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Barium	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Chromium	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	250000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Selenium	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NA	NA	NA	NA	NA	NA	NA	NA
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
8260D	Benzene	30 µg/kg ¹	< 0.788 µg/kg	< 3 µg/kg	8.83 µg/kg	< 0.86 µg/kg	< 1.79 µg/kg	< 0.911 µg/kg	< 0.957 µg/kg
	Ethylbenzene	6000 µg/kg ¹	< 1.24 µg/kg	< 4.73 µg/kg	< 1.39 µg/kg	< 1.36 µg/kg	< 2.83 µg/kg	< 1.44 µg/kg	< 1.51 µg/kg
	Toluene	7000 µg/kg ¹	< 2.19 µg/kg	< 8.33 µg/kg	< 2.45 µg/kg	< 2.39 µg/kg	< 5 µg/kg	< 2.54 µg/kg	< 2.66 µg/kg
	Xylenes, Total	9000 µg/kg ¹	< 1.49 µg/kg	< 5.67 µg/kg	< 1.66 µg/kg	3.75 µg/kg (J)	< 3.4 µg/kg	< 1.72 µg/kg	4.51 µg/kg (J)
8270E-SIM	1-Methylnaphthalene	NA	< 5.86 µg/kg	14.6 µg/kg (J)	9.37 µg/kg (J)	NA	NA	NA	< 6.7 µg/kg
	2-Chloronaphthalene	NA	< 6.08 µg/kg	< 15.2 µg/kg	< 6.58 µg/kg	NA	NA	NA	< 6.95 µg/kg
	2-Methylnaphthalene	NA	< 5.57 µg/kg	48.8 µg/kg (J)	< 6.03 µg/kg	NA	NA	NA	< 6.37 µg/kg
	Acenaphthene	NA	< 2.73 µg/kg	< 6.8 µg/kg	< 2.95 µg/kg	NA	NA	NA	< 3.12 µg/kg
	Acenaphthylene	NA	< 2.82 µg/kg	< 7.03 µg/kg	< 3.05 µg/kg	NA	NA	NA	< 3.22 µg/kg
	Anthracene	NA	< 3 µg/kg	< 7.48 µg/kg	< 3.25 µg/kg	NA	NA	NA	< 3.43 µg/kg
	Benzo(a)anthracene	NA	< 2.26 µg/kg	< 5.63 µg/kg	< 2.44 µg/kg	NA	NA	NA	< 2.58 µg/kg
	Benzo(a)pyrene	100 µg/kg ¹	< 2.34 µg/kg	< 5.82 µg/kg	< 2.53 µg/kg	NA	NA	NA	< 2.67 µg/kg
	Benzo(b)fluoranthene	NA	< 2 µg/kg	< 4.98 µg/kg	< 2.16 µg/kg	NA	NA	NA	< 2.28 µg/kg
	Benzo(g,h,i)perylene	NA	< 2.31 µg/kg	< 5.76 µg/kg	< 2.5 µg/kg	NA	NA	NA	< 2.64 µg/kg
	Benzo(k)fluoranthene	NA	< 2.8 µg/kg	< 7 µg/kg	< 3.04 µg/kg	NA	NA	NA	< 3.21 µg/kg
	Chrysene	NA	< 3.03 µg/kg	< 7.55 µg/kg	< 3.28 µg/kg	NA	NA	NA	< 3.46 µg/kg
	Dibenz(a,h)anthracene	NA	< 2.24 µg/kg	< 5.6 µg/kg	< 2.43 µg/kg	NA	NA	NA	< 2.57 µg/kg
	Fluoranthene	NA	< 2.96 µg/kg	< 7.39 µg/kg	< 3.2 µg/kg	NA	NA	NA	< 3.39 µg/kg
	Fluorene	NA	< 2.67 µg/kg	< 6.67 µg/kg	< 2.89 µg/kg	NA	NA	NA	< 3.06 µg/kg
	Indeno(1,2,3-cd)pyrene	NA	< 2.36 µg/kg	< 5.89 µg/kg	< 2.56 µg/kg	NA	NA	NA	< 2.7 µg/kg
	Naphthalene	5000 µg/kg ¹	< 5.32 µg/kg	< 13.3 µg/kg	< 5.76 µg/kg	NA	NA	NA	< 6.09 µg/kg
	Phenanthrene	NA	< 3.01 µg/kg	< 7.52 µg/kg	< 3.26 µg/kg	NA	NA	NA	< 3.45 µg/kg
	Pyrene	NA	< 2.61 µg/kg	< 6.51 µg/kg	< 2.82 µg/kg	NA	NA	NA	< 2.98 µg/kg
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	< 1,850 µg/kg	5,310 µg/kg (J)	< 1,930 µg/kg	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	< 4,640 µg/kg	25,300 µg/kg (J)	< 4,840 µg/kg	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 1,850 µg/kg	6,240 µg/kg (J)	< 1,820 µg/kg	< 3,270 µg/kg	< 3,310 µg/kg	< 3,110 µg/kg	< 2,120 µg/kg

¹ Washington State Model Toxic Control Act (MTCA) - Method A Soil Cleanup Levels for Unrestricted Land Use

* Cleanup Level for Heavy Oils

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J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- Detection > Screening Value
- Detection
- Non-detection
- Not Analyzed

Laboratory Results | Soil Delineation
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	SB-A11		SB-A18		SB-A19		
			1/4/2024		1/2/2024		1/2/2024		
			MTWA0104SB032	MTWA0104SB033	MTWA0102SB006	MTWA0102SB007	MTWA0102SB008	MTWA0102SB009	MTWA0102SB010
6010D	Arsenic	20000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Barium	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Chromium	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	250000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Selenium	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NA	NA	NA	NA	NA	NA	NA	NA
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
8260D	Benzene	30 µg/kg ¹	1.59 µg/kg (J)	8.11 µg/kg	2,800 µg/kg	14.9 µg/kg	< 1.08 µg/kg	0.887 µg/kg (J)	41.3 µg/kg (J)
	Ethylbenzene	6000 µg/kg ¹	< 2.47 µg/kg	4.29 µg/kg	46,300 µg/kg	509 µg/kg	80.1 µg/kg	12.1 µg/kg	73.4 µg/kg (J)
	Toluene	7000 µg/kg ¹	< 4.35 µg/kg	2.23 µg/kg (J)	243,000 µg/kg	780 µg/kg	115 µg/kg	5.54 µg/kg (J)	17.4 µg/kg (J)
	Xylenes, Total	9000 µg/kg ¹	7.76 µg/kg (J)	34.3 µg/kg	245,000 µg/kg	2,250 µg/kg	375 µg/kg	44.6 µg/kg	348 µg/kg (J)
8270E-SIM	1-Methylnaphthalene	NA	< 9.42 µg/kg	< 5.52 µg/kg	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	< 9.78 µg/kg	< 5.73 µg/kg	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	< 8.96 µg/kg	< 5.25 µg/kg	NA	NA	NA	NA	NA
	Acenaphthene	NA	< 4.39 µg/kg	< 2.57 µg/kg	NA	NA	NA	NA	NA
	Acenaphthylene	NA	< 4.53 µg/kg	< 2.66 µg/kg	NA	NA	NA	NA	NA
	Anthracene	NA	< 4.83 µg/kg	< 2.83 µg/kg	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	< 3.63 µg/kg	< 2.13 µg/kg	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	< 3.76 µg/kg	< 2.2 µg/kg	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	< 3.21 µg/kg	< 1.88 µg/kg	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	< 3.72 µg/kg	< 2.18 µg/kg	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	< 4.51 µg/kg	< 2.64 µg/kg	NA	NA	NA	NA	NA
	Chrysene	NA	< 4.87 µg/kg	< 2.85 µg/kg	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	< 3.61 µg/kg	< 2.11 µg/kg	NA	NA	NA	NA	NA
	Fluoranthene	NA	< 4.76 µg/kg	< 2.79 µg/kg	NA	NA	NA	NA	NA
	Fluorene	NA	< 4.3 µg/kg	< 2.52 µg/kg	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	< 3.8 µg/kg	< 2.23 µg/kg	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	< 8.56 µg/kg	< 5.02 µg/kg	NA	NA	NA	NA	NA
	Phenanthrene	NA	< 4.85 µg/kg	< 2.84 µg/kg	NA	NA	NA	NA	NA
	Pyrene	NA	< 4.2 µg/kg	< 2.46 µg/kg	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	4,480 µg/kg (J)	21,700 µg/kg	6,850 µg/kg (J)	2,670 µg/kg (J)	< 1,800 µg/kg
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	4,900 µg/kg (J)	7,660 µg/kg (J)	12,500 µg/kg (J)	< 3,610 µg/kg	< 4,510 µg/kg
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 3,920 µg/kg	< 2,180 µg/kg	2,070,000 µg/kg	3,960,000 µg/kg	< 5,050 µg/kg	< 4,560 µg/kg	< 5,790 µg/kg

¹ Washington State Model Toxic Control Act (MTCA) - Method A Soil Cleanup Levels for Unrestricted Land Use
* Cleanup Level for Heavy Oils
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J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Detection > Screening Value

Detection

Non-detection

Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	SB-A19	SB-B09			SB-B10		
			1/2/2024	1/5/2024			1/4/2024		
			MTWA0102SC010	MTWA0105SB046	MTWA0105SB047	MTWA0105SB048	MTWA0104SB018	MTWA0104SB019	MTWA0104SB020
6010D	Arsenic	20000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Barium	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Chromium	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	250000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Selenium	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NA	NA	NA	NA	NA	NA	NA	NA
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
8260D	Benzene	30 µg/kg ¹	107 µg/kg (J)	< 0.777 µg/kg	1.2 µg/kg (J)	3.41 µg/kg	< 0.847 µg/kg	< 1.71 µg/kg	< 4.11 µg/kg
	Ethylbenzene	6000 µg/kg ¹	206 µg/kg (J)	1.98 µg/kg (J)	2.92 µg/kg (J)	3.68 µg/kg (J)	< 1.34 µg/kg	4.02 µg/kg (J)	510 µg/kg
	Toluene	7000 µg/kg ¹	2,330 µg/kg (J)	7.57 µg/kg (J)	7.9 µg/kg	3.77 µg/kg (J)	< 2.36 µg/kg	< 4.77 µg/kg	< 11.4 µg/kg
	Xylenes, Total	9000 µg/kg ¹	974 µg/kg (J)	11.9 µg/kg	12.3 µg/kg	8.56 µg/kg (J)	< 1.6 µg/kg	15.8 µg/kg (J)	796 µg/kg
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	< 1,850 µg/kg	7,160 µg/kg	107,000 µg/kg	< 1,910 µg/kg	< 1,820 µg/kg	14,000 µg/kg (J)	440,000 µg/kg (J)
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 4,630 µg/kg	21,800 µg/kg	< 3,810 µg/kg	< 4,790 µg/kg	4,660 µg/kg (J)	34,200 µg/kg (J)	5,900 µg/kg (J)
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 4,970 µg/kg	< 1,410 µg/kg	39,800 µg/kg	< 1,620 µg/kg	< 3,660 µg/kg	6,170 µg/kg (J)	500,000 µg/kg

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J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

■ Detection > Screening Value

■ Detection

■ Non-detection

■ Not Analyzed

Laboratory Results | Soil Delineation
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	SB-B10	SB-B11			SB-B12		
			1/4/2024	1/4/2024			1/5/2024		
6010D			MTWA0104SB021	MTWA0104SB028	MTWA0104SB029	MTWA0104SB030	MTWA0105SB039	MTWA0105SB040	MTWA0105SB041
	Arsenic	20000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Barium	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Chromium	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	250000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Selenium	NA	NA	NA	NA	NA	NA	NA	NA
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
8260D	Benzene	30 µg/kg ¹	4.21 µg/kg	< 0.878 µg/kg	< 0.624 µg/kg	< 0.948 µg/kg	2.07 µg/kg	549 µg/kg	2.28 µg/kg
	Ethylbenzene	6000 µg/kg ¹	< 1.56 µg/kg	< 1.38 µg/kg	4.35 µg/kg	< 1.5 µg/kg	15.5 µg/kg	537 µg/kg	3.86 µg/kg (J)
	Toluene	7000 µg/kg ¹	< 2.75 µg/kg	< 2.44 µg/kg	5.32 µg/kg (J)	< 2.64 µg/kg	55.1 µg/kg	4,530 µg/kg	19.8 µg/kg
	Xylenes, Total	9000 µg/kg ¹	< 1.86 µg/kg	< 1.65 µg/kg	16.9 µg/kg	2.17 µg/kg (J)	199 µg/kg	2,360 µg/kg	17.7 µg/kg
8270E-SIM	1-Methylnaphthalene	NA	NA	< 6.32 µg/kg	57.5 µg/kg	< 6.63 µg/kg	NA	NA	NA
	2-Chloronaphthalene	NA	NA	< 6.56 µg/kg	< 5.16 µg/kg	< 6.88 µg/kg	NA	NA	NA
	2-Methylnaphthalene	NA	NA	< 6.01 µg/kg	72.8 µg/kg	< 6.3 µg/kg	NA	NA	NA
	Acenaphthene	NA	NA	< 2.94 µg/kg	< 2.32 µg/kg	< 3.09 µg/kg	NA	NA	NA
	Acenaphthylene	NA	NA	< 3.04 µg/kg	< 2.39 µg/kg	< 3.19 µg/kg	NA	NA	NA
	Anthracene	NA	NA	< 3.24 µg/kg	< 2.55 µg/kg	< 3.4 µg/kg	NA	NA	NA
	Benzo(a)anthracene	NA	NA	< 2.44 µg/kg	4.55 µg/kg (J)	< 2.55 µg/kg	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	< 2.52 µg/kg	3.27 µg/kg (J)	< 2.64 µg/kg	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	< 2.15 µg/kg	4.03 µg/kg (J)	< 2.26 µg/kg	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	< 2.49 µg/kg	< 1.96 µg/kg	< 2.61 µg/kg	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	< 3.03 µg/kg	< 2.38 µg/kg	< 3.17 µg/kg	NA	NA	NA
	Chrysene	NA	NA	< 3.27 µg/kg	3.11 µg/kg (J)	< 3.43 µg/kg	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	< 2.42 µg/kg	< 1.91 µg/kg	< 2.54 µg/kg	NA	NA	NA
	Fluoranthene	NA	NA	< 3.2 µg/kg	10.9 µg/kg	< 3.35 µg/kg	NA	NA	NA
	Fluorene	NA	NA	< 2.89 µg/kg	15.8 µg/kg	< 3.03 µg/kg	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	< 2.55 µg/kg	< 2.01 µg/kg	< 2.67 µg/kg	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	< 5.74 µg/kg	11.9 µg/kg (J)	< 6.02 µg/kg	NA	NA	NA
	Phenanthrene	NA	NA	< 3.25 µg/kg	25.3 µg/kg	< 3.41 µg/kg	NA	NA	NA
	Pyrene	NA	NA	< 2.82 µg/kg	13.8 µg/kg	< 2.95 µg/kg	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	< 2,060 µg/kg	NA	NA	NA	NA	NA	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 5,150 µg/kg	NA	NA	NA	NA	NA	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 2,520 µg/kg	< 2,320 µg/kg	103,000 µg/kg (J)	< 1,790 µg/kg	11,700 µg/kg	14,200 µg/kg	< 3,860 µg/kg

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Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Detection > Screening Value

Detection

Non-detection

Not Analyzed

Laboratory Results | Soil Delineation
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	SB-B14 1/2/2024				SB-B18 1/5/2024		
			MTWA0102SB011	MTWA0102SB012	MTWA0102SB013	MTWA0102SB014	MTWA0105SB049	MTWA0105SB050	MTWA0105SB051
6010D	Arsenic	20000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Barium	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Chromium	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	250000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Selenium	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NA	NA	NA	NA	NA	NA	NA	NA
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
8260D	Benzene	30 µg/kg ¹	10,200 µg/kg	8,180 µg/kg	41.8 µg/kg	< 0.877 µg/kg	1.14 µg/kg (J)	5.85 µg/kg (J)	3.1 µg/kg
	Ethylbenzene	6000 µg/kg ¹	70,600 µg/kg	65,400 µg/kg	206 µg/kg	2.57 µg/kg (J)	< 1.22 µg/kg	1,110 µg/kg	3.14 µg/kg (J)
	Toluene	7000 µg/kg ¹	322,000 µg/kg	325,000 µg/kg	754 µg/kg	6.93 µg/kg (J)	4.08 µg/kg (J)	22.4 µg/kg (J)	< 1.83 µg/kg
	Xylenes, Total	9000 µg/kg ¹	378,000 µg/kg	347,000 µg/kg	933 µg/kg	11.8 µg/kg (J)	9.73 µg/kg (J)	1,890 µg/kg	3.1 µg/kg (J)
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	22,000 µg/kg	14,000 µg/kg	< 1,420 µg/kg	< 1,860 µg/kg	3,180 µg/kg (J)	8,430 µg/kg	< 1,440 µg/kg
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	16,500 µg/kg	< 5,700 µg/kg	< 3,550 µg/kg	< 4,660 µg/kg	7,540 µg/kg (J)	< 3,890 µg/kg	< 3,600 µg/kg
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	4,930,000 µg/kg	3,620,000 µg/kg	16,100 µg/kg	< 1,620 µg/kg	13,300 µg/kg	65,100 µg/kg	< 1,630 µg/kg

¹ Washington State Model Toxic Control Act (MTCA) - Method A Soil Cleanup Levels for Unrestricted Land Use
* Cleanup Level for Heavy Oils
Laboratory non-detections are reported as less than ("<") the laboratory method detection limit (MDL).
Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Detection > Screening Value

Detection

Non-detection

Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	SB-B19			SB-C10			SB-C11
			1/5/2024			1/4/2024			1/4/2024
			MTWA0105SB052	MTWA0105SB053	MTWA0105SB054	MTWA0104SB015	MTWA0104SB016	MTWA0104SB017	MTWA0104SB025
6010D	Arsenic	20000 µg/kg ¹	NA	NA	NA	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L
	Barium	NA	NA	NA	NA	0.592 mg/L	0.618 mg/L	0.115 mg/L	0.499 mg/L
	Cadmium	2000 µg/kg ¹	NA	NA	NA	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L
	Chromium	NA	NA	NA	NA	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L
	Lead	250000 µg/kg ¹	NA	NA	NA	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L
	Selenium	NA	NA	NA	NA	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L
	Silver	NA	NA	NA	NA	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L
7470A	Mercury	2000 µg/kg ¹	NA	NA	NA	< 0.0033 mg/L	< 0.0033 mg/L	< 0.0033 mg/L	< 0.0033 mg/L
7471B	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
8260D	Benzene	30 µg/kg ¹	< 0.716 µg/kg	5.99 µg/kg (J)	37.7 µg/kg	3.91 µg/kg	< 0.959 µg/kg	< 0.801 µg/kg	< 0.751 µg/kg
	Ethylbenzene	6000 µg/kg ¹	1.7 µg/kg (J)	5,620 µg/kg	1.71 µg/kg (J)	915 µg/kg	< 1.51 µg/kg	< 1.26 µg/kg	< 1.18 µg/kg
	Toluene	7000 µg/kg ¹	4.94 µg/kg (J)	403 µg/kg	2.89 µg/kg (J)	1,410 µg/kg	9.34 µg/kg (J)	< 2.23 µg/kg	< 2.09 µg/kg
	Xylenes, Total	9000 µg/kg ¹	8 µg/kg (J)	12,200 µg/kg	4.32 µg/kg (J)	5,120 µg/kg	9.71 µg/kg (J)	2.37 µg/kg (J)	< 1.41 µg/kg
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	3,810 µg/kg (J)	120,000 µg/kg (J)	< 1,940 µg/kg	6,340 µg/kg	2,300 µg/kg (J)	< 1,750 µg/kg	1,740 µg/kg (J)
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	9,300 µg/kg (J)	NA	< 4,850 µg/kg	21,000 µg/kg	6,100 µg/kg (J)	< 4,380 µg/kg	7,000 µg/kg (J)
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 1,310 µg/kg	417,000 µg/kg	< 1,680 µg/kg	170,000 µg/kg	< 2,120 µg/kg	< 1,440 µg/kg	13,400 µg/kg

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* Cleanup Level for Heavy Oils

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- Detection > Screening Value
- Detection
- Non-detection
- Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	SB-C11		SB-C13				
			1/4/2024		1/5/2024				
			MTWA0104SB026	MTWA0104SB027	MTWA0105SB042	MTWA0105SB043	MTWA0105SB044	MTWA0105SB045	MTWA0105SC044
6010D	Arsenic	20000 µg/kg ¹	< 0.033 mg/L	< 0.033 mg/L	NA	NA	NA	NA	NA
	Barium	NA	0.255 mg/L	0.151 mg/L	NA	NA	NA	NA	NA
	Cadmium	2000 µg/kg ¹	< 0.033 mg/L	< 0.033 mg/L	NA	NA	NA	NA	NA
	Chromium	NA	< 0.033 mg/L	< 0.033 mg/L	NA	NA	NA	NA	NA
	Lead	250000 µg/kg ¹	< 0.033 mg/L	< 0.033 mg/L	NA	NA	NA	NA	NA
	Selenium	NA	< 0.033 mg/L	< 0.033 mg/L	NA	NA	NA	NA	NA
	Silver	NA	< 0.033 mg/L	< 0.033 mg/L	NA	NA	NA	NA	NA
7470A	Mercury	2000 µg/kg ¹	< 0.0033 mg/L	< 0.0033 mg/L	NA	NA	NA	NA	NA
7471B	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
8260D	Benzene	30 µg/kg ¹	0.778 µg/kg (J)	3.18 µg/kg	24.9 µg/kg	12,400 µg/kg	53.1 µg/kg	53 µg/kg	67.8 µg/kg
	Ethylbenzene	6000 µg/kg ¹	12.2 µg/kg	< 1.39 µg/kg	164 µg/kg	77,400 µg/kg	2,690 µg/kg (J)	4.43 µg/kg (J)	1,650 µg/kg (J)
	Toluene	7000 µg/kg ¹	4.23 µg/kg (J)	< 2.44 µg/kg	670 µg/kg	329,000 µg/kg	1,200 µg/kg (J)	7.99 µg/kg (J)	397 µg/kg (J)
	Xylenes, Total	9000 µg/kg ¹	15.6 µg/kg	< 1.65 µg/kg	10,100 µg/kg	445,000 µg/kg	3,220 µg/kg (J)	16.7 µg/kg	754 µg/kg (J)
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	4,560 µg/kg	< 1,890 µg/kg	NA	NA	NA	NA	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 3,670 µg/kg	< 4,720 µg/kg	NA	NA	NA	NA	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	12,500 µg/kg	< 2,140 µg/kg	95,300 µg/kg	2,770,000 µg/kg	31,900 µg/kg (J)	< 2,480 µg/kg	284,000 µg/kg (J)

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* Cleanup Level for Heavy Oils

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- Detection > Screening Value
- Detection
- Non-detection
- Not Analyzed

Laboratory Results | Soil Delineation

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	SB-D10			SB-D11	
			1/2/2024			1/2/2024	
			MTWA0102SB001	MTWA0102SB002	MTWA0102SB003	MTWA0102SB004	MTWA0102SB005
6010D	Arsenic	20000 µg/kg ¹	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L
	Barium	NA	0.33 mg/L	0.187 mg/L	< 0.033 mg/L	0.212 mg/L	0.149 mg/L
	Cadmium	2000 µg/kg ¹	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L
	Chromium	NA	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L
	Lead	250000 µg/kg ¹	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L
	Selenium	NA	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L
	Silver	NA	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L	< 0.033 mg/L
7470A	Mercury	2000 µg/kg ¹	< 0.0033 mg/L	< 0.0033 mg/L	< 0.0033 mg/L	< 0.0033 mg/L	< 0.0033 mg/L
7471B	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA
8260D	Benzene	30 µg/kg ¹	< 0.801 µg/kg	< 0.802 µg/kg	< 0.879 µg/kg	< 0.804 µg/kg	< 0.805 µg/kg
	Ethylbenzene	6000 µg/kg ¹	< 1.26 µg/kg	< 1.27 µg/kg	< 1.39 µg/kg	< 1.27 µg/kg	< 1.27 µg/kg
	Toluene	7000 µg/kg ¹	< 2.23 µg/kg	< 2.23 µg/kg	< 2.45 µg/kg	< 2.24 µg/kg	< 2.24 µg/kg
	Xylenes, Total	9000 µg/kg ¹	< 1.51 µg/kg	< 1.51 µg/kg	< 1.66 µg/kg	< 1.51 µg/kg	< 1.52 µg/kg
8270E-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA
	Acenaphthene	NA	NA	NA	NA	NA	NA
	Acenaphthylene	NA	NA	NA	NA	NA	NA
	Anthracene	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA
	Chrysene	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA
	Fluoranthene	NA	NA	NA	NA	NA	NA
	Fluorene	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA
	Naphthalene	5000 µg/kg ¹	NA	NA	NA	NA	NA
	Phenanthrene	NA	NA	NA	NA	NA	NA
	Pyrene	NA	NA	NA	NA	NA	NA
NWTPHDX-NO	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA
SGT	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	NA	NA	NA	NA	NA
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	NA	NA	NA	NA	NA
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 1,890 µg/kg	< 1,830 µg/kg	< 1,580 µg/kg	< 3,030 µg/kg	< 9,300 µg/kg

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* Cleanup Level for Heavy Oils

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- Detection > Screening Value
- Detection
- Non-detection
- Not Analyzed

Laboratory Results | Crane Pad Soil
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	C14	C15	C16		C17	C18	C19
			1/31/2024	1/31/2024	1/31/2024		1/30/2024	1/30/2024	1/30/2024
8260D	Benzene	30 µg/kg ¹	MTWA0131S025	MTWA0131S023	MTWA0131C021	MTWA0131S021	MTWA0130S018	MTWA0130S014	MTWA0130S015
	Ethylbenzene	6000 µg/kg ¹	298 µg/kg	2,390 µg/kg	173 µg/kg (J)	383 µg/kg	264 µg/kg (J)	< 0.909 µg/kg	< 0.759 µg/kg
	Toluene	7000 µg/kg ¹	708 µg/kg	35,000 µg/kg	824 µg/kg (J)	9,400 µg/kg (J)	17,000 µg/kg	79 µg/kg	< 1.2 µg/kg
	Xylenes, Total	9000 µg/kg ¹	4,820 µg/kg	171,000 µg/kg	3,870 µg/kg (J)	43,200 µg/kg (J)	61,900 µg/kg	< 111 µg/kg	< 3.37 µg/kg
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	107,000 µg/kg	476,000 µg/kg	214,000 µg/kg (J)	734,000 µg/kg (J)	237,000 µg/kg	1,020 µg/kg	< 4.34 µg/kg
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	30,400 µg/kg	29,900 µg/kg	40,300 µg/kg	38,400 µg/kg	7,170 µg/kg	< 1,820 µg/kg	1,720 µg/kg (J)
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 4,940 µg/kg	23,700 µg/kg	10,600 µg/kg (J)	12,700 µg/kg (J)	4,930 µg/kg (J)	< 4,560 µg/kg	< 4,310 µg/kg
			502,000 µg/kg	2,280,000 µg/kg	5,730,000 µg/kg (J)	2,270,000 µg/kg (J)	1,900,000 µg/kg	25,100 µg/kg	< 1,390 µg/kg

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Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- Detection > Screening Value
- Detection
- Non-detection

Laboratory Results | Crane Pad Soil
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	D14	D15	D16	D17	D18	D19
			1/31/2024	1/31/2024	1/31/2024	1/30/2024	1/30/2024	1/30/2024
8260D	Benzene	30 µg/kg ¹	223 µg/kg	< 0.678 µg/kg	0.984 µg/kg (J)	< 5.72 µg/kg	< 0.813 µg/kg	< 1.05 µg/kg
	Ethylbenzene	6000 µg/kg ¹	68 µg/kg	< 1.07 µg/kg	11 µg/kg	66.9 µg/kg	< 1.28 µg/kg	< 1.65 µg/kg
	Toluene	7000 µg/kg ¹	1,710 µg/kg	< 1.89 µg/kg	65.5 µg/kg	660 µg/kg	< 2.26 µg/kg	< 2.92 µg/kg
	Xylenes, Total	9000 µg/kg ¹	4,730 µg/kg	< 1.28 µg/kg	95.9 µg/kg	< 243 µg/kg	< 1.53 µg/kg	< 1.97 µg/kg
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	2,620 µg/kg (J)	< 1,610 µg/kg	< 1,670 µg/kg	1,890 µg/kg (J)	< 1,780 µg/kg	3,690 µg/kg (J)
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 5,730 µg/kg	< 4,030 µg/kg	< 4,180 µg/kg	< 4,590 µg/kg	< 4,450 µg/kg	7,630 µg/kg (J)
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	39,500 µg/kg	< 1,250 µg/kg	6,170 µg/kg	< 6,210 µg/kg	< 1,480 µg/kg	< 1,900 µg/kg

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- Detection > Screening Value
- Detection
- Non-detection

Laboratory Results | Other Soil
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S001	S002	S003		S004	S027
			Approximately 500 feet South of bridge on a residential Rd off of Cedardale Rd	Approximately 575 feet South of bridge on a residential Rd off of Cedardale Rd	On residential property, approximately 30 yards uphill from creek		Elementary School soccer field, outside fence. NW corner of front parking lot	W Central side of pad
			12/14/2023	12/14/2023	12/14/2023	2/7/2024	12/16/2023	2/13/2024
			MTWA1214S001	MTWA1214S002	MTWA1214S003	MTWA0207S003	MTWA1216S004	MTWA0213S027
6010D	Arsenic	20000 µg/kg ¹	NA	NA	NA	NA	NA	2,780 µg/kg
	Barium	NA	NA	NA	NA	NA	NA	29,600 µg/kg
	Cadmium	2000 µg/kg ¹	NA	NA	NA	NA	NA	67.6 µg/kg (J)
	Chromium	NA	NA	NA	NA	NA	NA	12,300 µg/kg
	Lead	250000 µg/kg ¹	NA	NA	NA	NA	NA	4,080 µg/kg
	Selenium	NA	NA	NA	NA	NA	NA	< 797 µg/kg
	Silver	NA	NA	NA	NA	NA	NA	< 132 µg/kg
7471B	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	NA	32 µg/kg (J)
8260D	Benzene	30 µg/kg ¹	< 3.24 µg/kg	< 3.63 µg/kg	< 1.15 µg/kg	< 3.8 µg/kg	< 0.737 µg/kg	< 0.546 µg/kg
	Ethylbenzene	6000 µg/kg ¹	< 5.12 µg/kg	< 5.73 µg/kg	< 1.82 µg/kg	< 5.99 µg/kg	< 1.16 µg/kg	< 0.862 µg/kg
	Toluene	7000 µg/kg ¹	< 9.03 µg/kg	< 10.1 µg/kg	< 3.21 µg/kg	< 10.6 µg/kg	< 2.05 µg/kg	3.08 µg/kg (J)
	Xylenes, Total	9000 µg/kg ¹	7.82 µg/kg (J)	23.9 µg/kg (J)	< 2.17 µg/kg	< 7.18 µg/kg	< 1.39 µg/kg	4.27 µg/kg (J)
8270E-SIM	1-Methylnaphthalene	NA	< 15.8 µg/kg	< 16.8 µg/kg	< 7.2 µg/kg	NA	< 5.68 µg/kg	< 4.68 µg/kg
	2-Chloronaphthalene	NA	< 16.4 µg/kg	< 17.5 µg/kg	< 7.48 µg/kg	NA	< 5.9 µg/kg	< 4.86 µg/kg
	2-Methylnaphthalene	NA	< 15 µg/kg	< 16 µg/kg	< 6.85 µg/kg	NA	< 5.4 µg/kg	< 4.45 µg/kg
	Acenaphthene	NA	< 7.35 µg/kg	< 7.83 µg/kg	< 3.35 µg/kg	NA	< 2.64 µg/kg	< 2.18 µg/kg
	Acenaphthylene	NA	< 7.6 µg/kg	< 8.1 µg/kg	< 3.46 µg/kg	NA	< 2.73 µg/kg	< 2.25 µg/kg
	Anthracene	NA	< 8.09 µg/kg	< 8.62 µg/kg	< 3.69 µg/kg	NA	< 2.91 µg/kg	< 2.4 µg/kg
	Benzo(a)anthracene	NA	< 6.08 µg/kg	< 6.48 µg/kg	< 2.78 µg/kg	NA	< 2.19 µg/kg	< 1.8 µg/kg
	Benzo(a)pyrene	100 µg/kg ¹	< 6.29 µg/kg	< 6.71 µg/kg	< 2.87 µg/kg	NA	< 2.27 µg/kg	< 1.87 µg/kg
	Benzo(b)fluoranthene	NA	< 5.38 µg/kg	< 5.73 µg/kg	< 2.45 µg/kg	NA	< 1.94 µg/kg	< 1.6 µg/kg
	Benzo(g,h,i)perylene	NA	< 6.22 µg/kg	< 6.63 µg/kg	< 2.84 µg/kg	NA	< 2.24 µg/kg	< 1.85 µg/kg
	Benzo(k)fluoranthene	NA	< 7.56 µg/kg	< 8.06 µg/kg	< 3.45 µg/kg	NA	< 2.72 µg/kg	< 2.24 µg/kg
	Chrysene	NA	< 8.16 µg/kg	< 8.7 µg/kg	< 3.72 µg/kg	NA	< 2.94 µg/kg	< 2.42 µg/kg
	Dibenz(a,h)anthracene	NA	< 6.05 µg/kg	< 6.45 µg/kg	< 2.76 µg/kg	NA	< 2.18 µg/kg	< 1.79 µg/kg
	Fluoranthene	NA	< 7.98 µg/kg	< 8.51 µg/kg	3.9 µg/kg (J)	NA	< 2.87 µg/kg	< 2.37 µg/kg
	Fluorene	NA	< 7.21 µg/kg	< 7.68 µg/kg	< 3.29 µg/kg	NA	< 2.59 µg/kg	< 2.14 µg/kg
	Indeno(1,2,3-cd)pyrene	NA	< 6.37 µg/kg	< 6.78 µg/kg	< 2.9 µg/kg	NA	< 2.29 µg/kg	< 1.89 µg/kg
	Naphthalene	5000 µg/kg ¹	< 14.3 µg/kg	< 15.3 µg/kg	< 6.54 µg/kg	NA	< 5.16 µg/kg	< 4.26 µg/kg
	Phenanthrene	NA	< 8.12 µg/kg	< 8.66 µg/kg	< 3.71 µg/kg	NA	< 2.92 µg/kg	< 2.41 µg/kg
	Pyrene	NA	< 7.03 µg/kg	< 7.5 µg/kg	3.87 µg/kg (J)	NA	< 2.53 µg/kg	< 2.09 µg/kg
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 6,290 µg/kg	< 6,860 µg/kg	< 2,060 µg/kg	< 10,400 µg/kg	< 1,340 µg/kg	< 1,720 µg/kg

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Detection

Non-detection

Not Analyzed

Laboratory Results | Soil Backfill Sampling

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S005	S006	S013	S020	S600	S601
			Conway dirt pit; backfill material	Lenz Enterprises; backfill material	Miles Sand and Gravel Quarry	Martin Marietta rock quarry	Lenz Enterprises topsoil pile	North Hill Resources topsoil 50/50 pile
			12/19/2023	12/19/2023	1/26/2024	1/31/2024	2/27/2024	2/27/2024
			MTWA1219S005	MTWA1219S006	MTWA0126S013	MTWA0131S020	MTWA0227S600	MTWA0227S601
350.1	Ammonia Nitrogen	NA	NA	NA	NA	NA	< 8,980 µg/kg	62,600 µg/kg
3060A/7196A	Chromium,Hexavalent	19000 µg/kg ¹	< 735 µg/kg	< 689 µg/kg	NA	NA	NA	NA
6010B	Arsenic	20000 µg/kg ¹	NA	NA	NA	NA	2,590 µg/kg	11,000 µg/kg
	Cadmium	2000 µg/kg ¹	NA	NA	NA	NA	132 µg/kg (J)	327 µg/kg (J)
	Chromium	NA	NA	NA	NA	NA	22,700 µg/kg	28,100 µg/kg
	Copper	NA	NA	NA	NA	NA	20,700 µg/kg	35,200 µg/kg
	Lead	250000 µg/kg ¹	NA	NA	NA	NA	6,430 µg/kg	13,600 µg/kg
	Nickel	NA	NA	NA	NA	NA	37,100 µg/kg	32,500 µg/kg
	Selenium	NA	NA	NA	NA	NA	< 981 µg/kg	1,540 µg/kg (J)
	Silver	NA	NA	NA	NA	NA	< 163 µg/kg	< 173 µg/kg
6010D	Zinc	NA	NA	NA	NA	NA	46,900 µg/kg	81,800 µg/kg
	Arsenic	20000 µg/kg ¹	918 µg/kg (J)	< 558 µg/kg	3,890 µg/kg	2,380 µg/kg	NA	NA
	Barium	NA	31,300 µg/kg	33,000 µg/kg	43,800 µg/kg	20,100 µg/kg	NA	NA
	Cadmium	2000 µg/kg ¹	< 54.1 µg/kg	< 50.7 µg/kg	164 µg/kg (J)	99.2 µg/kg (J)	NA	NA
	Chromium	NA	22,600 µg/kg	27,400 µg/kg	19,600 µg/kg	5,150 µg/kg	NA	NA
	Lead	250000 µg/kg ¹	3,250 µg/kg	3,510 µg/kg	8,040 µg/kg	3,190 µg/kg	NA	NA
	Selenium	NA	< 878 µg/kg	< 822 µg/kg	< 826 µg/kg	1,620 µg/kg (J)	NA	NA
7471A	Silver	NA	< 146 µg/kg	< 137 µg/kg	< 137 µg/kg	< 137 µg/kg	NA	NA
	Mercury	2000 µg/kg ¹	NA	NA	NA	NA	52.8 µg/kg	62.5 µg/kg
7471B	Mercury	2000 µg/kg ¹	28.6 µg/kg (J)	< 19.4 µg/kg	31 µg/kg (J)	26.6 µg/kg (J)	NA	NA
8081B	4,4-DDD	NA	NA	NA	NA	NA	< 4.75 µg/kg	< 5.04 µg/kg
	4,4-DDE	NA	NA	NA	NA	NA	< 4.7 µg/kg	< 4.99 µg/kg
	4,4-DDT	3000 µg/kg ¹	NA	NA	NA	NA	< 8.05 µg/kg	< 8.55 µg/kg
	Beta BHC	NA	NA	NA	NA	NA	< 4.86 µg/kg	< 5.17 µg/kg
	Dieldrin	NA	NA	NA	NA	NA	< 4.41 µg/kg	< 4.69 µg/kg
	Endrin ketone	NA	NA	NA	NA	NA	< 9.13 µg/kg	< 9.69 µg/kg
8082 A	PCB 1016	NA	NA	NA	NA	NA	< 15.1 µg/kg	< 16.1 µg/kg
	PCB 1221	NA	NA	NA	NA	NA	< 15.1 µg/kg	< 16.1 µg/kg
	PCB 1232	NA	NA	NA	NA	NA	< 15.1 µg/kg	< 16.1 µg/kg
	PCB 1242	NA	NA	NA	NA	NA	< 15.1 µg/kg	< 16.1 µg/kg

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J5: The sample matrix interfered with the ability to make any accurate determination; spike value is high.

J6: The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Detection

Non-detection

Not Analyzed

Laboratory Results | Soil Backfill Sampling
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S005	S006	S013	S020	S600	S601
			Conway dirt pit; backfill material	Lenz Enterprises; backfill material	Miles Sand and Gravel Quarry	Martin Marietta rock quarry	Lenz Enterprises topsoil pile	North Hill Resources topsoil 50/50 pile
			12/19/2023	12/19/2023	1/26/2024	1/31/2024	2/27/2024	2/27/2024
			MTWA1219S005	MTWA1219S006	MTWA0126S013	MTWA0131S020	MTWA0227S600	MTWA0227S601
8082 A	PCB 1248	NA	NA	NA	NA	NA	< 9.47 µg/kg	< 10.1 µg/kg
	PCB 1254	NA	NA	NA	NA	NA	< 9.47 µg/kg	< 10.1 µg/kg
	PCB 1260	NA	NA	NA	NA	NA	< 9.47 µg/kg	< 10.1 µg/kg
	Total PCBs	1000 µg/kg ¹	NA	NA	NA	NA	< 9.47 µg/kg	< 10.1 µg/kg
8260D	Benzene	30 µg/kg ¹	< 0.632 µg/kg	< 0.543 µg/kg	< 0.55 µg/kg	< 0.598 µg/kg	NA	NA
	Ethylbenzene	6000 µg/kg ¹	< 0.997 µg/kg	< 0.857 µg/kg	< 0.868 µg/kg	< 0.944 µg/kg	NA	NA
	Toluene	7000 µg/kg ¹	< 1.76 µg/kg	< 1.51 µg/kg	< 1.53 µg/kg	< 1.66 µg/kg	NA	NA
	Xylenes, Total	9000 µg/kg ¹	< 1.19 µg/kg	< 1.02 µg/kg	< 1.04 µg/kg	< 1.13 µg/kg	NA	NA
8270C	3&4-Methyl Phenol	NA	NA	NA	NA	NA	60.4 µg/kg (J)	89.7 µg/kg (J)
	Benzoic Acid	NA	NA	NA	NA	NA	< 151 µg/kg	< 161 µg/kg
	Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	105 µg/kg (J)	< 57.5 µg/kg
	Carbazole	NA	NA	NA	NA	NA	< 13.2 µg/kg	< 14 µg/kg
	Di-n-butyl phthalate	NA	NA	NA	NA	NA	< 14.6 µg/kg	38.6 µg/kg (J)
	Di-n-octyl phthalate	NA	NA	NA	NA	NA	< 28.9 µg/kg	< 30.7 µg/kg
	Dibenzofuran	NA	NA	NA	NA	NA	< 14 µg/kg	< 14.9 µg/kg
	Pentachlorophenol	NA	NA	NA	NA	NA	< 11.5 µg/kg	< 12.2 µg/kg
	Phenol	NA	NA	NA	NA	NA	86.4 µg/kg (J)	45.8 µg/kg (J)
8270C-SIM	1-Methylnaphthalene	NA	NA	NA	NA	NA	6.84 µg/kg (J)	< 6.12 µg/kg
	2-Chloronaphthalene	NA	NA	NA	NA	NA	< 5.98 µg/kg	< 6.35 µg/kg
	2-Methylnaphthalene	NA	NA	NA	NA	NA	7.55 µg/kg (J)	< 5.82 µg/kg
	Acenaphthene	NA	NA	NA	NA	NA	23.7 µg/kg	10.3 µg/kg
	Acenaphthylene	NA	NA	NA	NA	NA	< 2.77 µg/kg	< 2.94 µg/kg
	Anthracene	NA	NA	NA	NA	NA	10.8 µg/kg	6.23 µg/kg (J)
	Benzo(a)anthracene	NA	NA	NA	NA	NA	13.9 µg/kg	11.6 µg/kg
	Benzo(a)pyrene	100 µg/kg ¹	NA	NA	NA	NA	5.48 µg/kg (J)	4.24 µg/kg (J)
	Benzo(b)fluoranthene	NA	NA	NA	NA	NA	8.56 µg/kg	7.81 µg/kg (J)
	Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	3.58 µg/kg (J)	2.78 µg/kg (J)
	Benzo(k)fluoranthene	NA	NA	NA	NA	NA	< 2.76 µg/kg	< 2.93 µg/kg
	Chrysene	NA	NA	NA	NA	NA	13.5 µg/kg	11.7 µg/kg
	Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	< 2.21 µg/kg	< 2.34 µg/kg

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J6: The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Detection

Non-detection

Not Analyzed

Laboratory Results | Soil Backfill Sampling
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S005	S006	S013	S020	S600	S601
			Conway dirt pit; backfill material	Lenz Enterprises; backfill material	Miles Sand and Gravel Quarry	Martin Marietta rock quarry	Lenz Enterprises topsoil pile	North Hill Resources topsoil 50/50 pile
			12/19/2023	12/19/2023	1/26/2024	1/31/2024	2/27/2024	2/27/2024
8270C-SIM			MTWA1219S005	MTWA1219S006	MTWA0126S013	MTWA0131S020	MTWA0227S600	MTWA0227S601
			NA	NA	NA	NA	72 µg/kg (J6)	63.8 µg/kg
			NA	NA	NA	NA	24.1 µg/kg	13.2 µg/kg
			NA	NA	NA	NA	3.97 µg/kg (J)	2.86 µg/kg (J)
			5000 µg/kg ¹	NA	NA	NA	8.2 µg/kg (J)	< 5.56 µg/kg
			NA	NA	NA	NA	94.5 µg/kg (J6)	59.3 µg/kg
8270E-SIM			NA	NA	NA	NA	50.4 µg/kg	41.2 µg/kg
			NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			NA	NA	5.77 µg/kg (J)	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			100 µg/kg ¹	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
9034/9030B			NA	NA	NA	NA	< 38,500 µg/kg	< 40,900 µg/kg
			NA	NA	NA	< 1,440 µg/kg	190,000 µg/kg (J3J5)	41,300 µg/kg
NWTPHDX-SGT			2000000 µg/kg ¹	NA	NA	5,800 µg/kg (J)	244,000 µg/kg	202,000 µg/kg
			2000000 µg/kg ^{1*}	NA	NA	< 1,210 µg/kg	NA	NA
NWTPHGX			30000 µg/kg ¹	< 1,740 µg/kg	< 990 µg/kg	< 999 µg/kg	< 1,210 µg/kg	< 999 µg/kg

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Detection

Non-detection

Not Analyzed

Laboratory Results | Post Excavation Soil
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S028	S029	S030	S031		S032	
			D-18 E Side Wall	D19 north wall	D18-5	D17-5		D17 East Sidewall 2ft below surface	
			2/26/2024	2/26/2024	2/26/2024	2/28/2024		2/28/2024	
8260D	Benzene	30 µg/kg ¹	MTWA0226S028	MTWA0226S029	MTWA0226S030	MTWA0228C031	MTWA0228S031	MTWA0228C032	MTWA0228S032
	Ethylbenzene	6000 µg/kg ¹	< 0.942 µg/kg	< 0.89 µg/kg	< 0.896 µg/kg	1.68 µg/kg (J)	6.61 µg/kg	0.937 µg/kg (J)	< 0.837 µg/kg
	Toluene	7000 µg/kg ¹	< 1.49 µg/kg	< 1.4 µg/kg	< 1.41 µg/kg	< 2.07 µg/kg	5.18 µg/kg (J)	2.06 µg/kg (J)	< 1.32 µg/kg
	Xylenes, Total	9000 µg/kg ¹	2.8 µg/kg (J)	3.81 µg/kg (J)	4.72 µg/kg (J)	6.09 µg/kg (J)	29.1 µg/kg	6.76 µg/kg (J)	2.67 µg/kg (J)
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	< 1,980 µg/kg	< 1,870 µg/kg	< 1,900 µg/kg	< 2,160 µg/kg	3,420 µg/kg (J)	< 1,900 µg/kg	< 1,850 µg/kg
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 4,970 µg/kg	< 4,690 µg/kg	< 4,750 µg/kg	< 5,420 µg/kg	< 5,450 µg/kg	< 4,760 µg/kg	< 4,620 µg/kg
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 1,720 µg/kg	< 1,590 µg/kg	< 1,930 µg/kg	< 4,450 µg/kg	< 8,210 µg/kg	< 1,620 µg/kg	< 1,530 µg/kg

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Detection > Screening Value

Detection

Non-detection

Laboratory Results | Post Excavation Soil

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S033	S034	S035		S036	S037	S038
			D17 East Sidewall 4ft below surface	O16-5	P16-5		O15-5	P15-5	Q15-3
			2/28/2024	3/3/2024	3/3/2024		3/3/2024	3/3/2024	3/3/2024
8260D	Benzene	30 µg/kg ¹	MTWA0228S033	MTWA0303S034	MTWA0303C035	MTWA0303S035	MTWA0303S036	MTWA0303S037	MTWA0303S038
	Ethylbenzene	6000 µg/kg ¹	< 0.78 µg/kg	< 1.36 µg/kg	< 1.17 µg/kg	< 1.79 µg/kg	< 1.07 µg/kg	< 0.974 µg/kg	< 0.97 µg/kg
	Toluene	7000 µg/kg ¹	< 1.23 µg/kg	< 2.14 µg/kg	< 1.84 µg/kg	< 2.83 µg/kg	< 1.69 µg/kg	< 1.54 µg/kg	< 1.53 µg/kg
	Xylenes, Total	9000 µg/kg ¹	< 2.17 µg/kg	< 3.76 µg/kg	< 3.25 µg/kg	< 4.99 µg/kg	< 2.98 µg/kg	7.2 µg/kg (J)	3.11 µg/kg (J)
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	< 1.47 µg/kg	< 2.56 µg/kg	< 2.2 µg/kg	< 3.38 µg/kg	< 2.02 µg/kg	< 9.24 µg/kg	< 1.83 µg/kg
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 1,740 µg/kg	< 2,380 µg/kg	< 2,320 µg/kg	< 2,250 µg/kg	< 2,160 µg/kg	< 2,050 µg/kg	18,000 µg/kg
NWTPHGX			< 4,360 µg/kg	< 5,960 µg/kg	< 5,810 µg/kg	< 5,630 µg/kg	5,870 µg/kg (J)	< 5,140 µg/kg	34,300 µg/kg
	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 1,400 µg/kg	< 2,620 µg/kg	< 2,120 µg/kg	< 3,260 µg/kg	< 1,940 µg/kg	< 1,770 µg/kg	< 1,760 µg/kg

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Detection > Screening Value

Detection

Non-detection

Laboratory Results | Post Excavation Soil
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S039	S040	S041	S042	S043	S044	S045
			P15-2	Q14-4	P14-5	D17-4; approximately 5' scrape.	D16-4; approximately 5' scrape	D15-1; Approximately 5' scrape.	D14-4; Approximately 5' scrape.
			3/3/2024	3/3/2024	3/3/2024	3/5/2024	3/5/2024	3/5/2024	3/5/2024
			MTWA0303S039	MTWA0303S040	MTWA0303S041	MTWA0305S042	MTWA0305S043	MTWA0305S044	MTWA0305S045
8260D	Benzene	30 µg/kg ¹	< 1.11 µg/kg	< 0.77 µg/kg	1.45 µg/kg (J)	2,600 µg/kg	441 µg/kg	47.7 µg/kg	186 µg/kg
	Ethylbenzene	6000 µg/kg ¹	< 1.74 µg/kg	< 1.21 µg/kg	< 2.16 µg/kg	156,000 µg/kg	10,600 µg/kg	298 µg/kg	3,070 µg/kg
	Toluene	7000 µg/kg ¹	< 3.08 µg/kg	3.55 µg/kg (J)	20.7 µg/kg	6,060 µg/kg	6,640 µg/kg	387 µg/kg	14,700 µg/kg
	Xylenes, Total	9000 µg/kg ¹	< 2.08 µg/kg	< 5.32 µg/kg	29.2 µg/kg	877,000 µg/kg	6,740 µg/kg	135 µg/kg	17,900 µg/kg
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	< 2,070 µg/kg	< 1,730 µg/kg	< 2,570 µg/kg	3,050,000 µg/kg	282,000 µg/kg	54,200 µg/kg	1,260,000 µg/kg (..
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 5,190 µg/kg	< 4,320 µg/kg	< 6,450 µg/kg	41,600 µg/kg (J)	< 3,500 µg/kg	< 4,160 µg/kg	24,800 µg/kg (J)
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 2,010 µg/kg	< 1,400 µg/kg	2,680 µg/kg (J)	7,400,000 µg/kg	768,000 µg/kg	61,100 µg/kg	95,000 µg/kg

¹ Washington State Model Toxic Control Act (MTCA) - Method A Soil Cleanup Levels for Unrestricted Land Use
* Cleanup Level for Heavy Oils
Laboratory non-detections are reported as less than ("<") the laboratory method detection limit (MDL).
Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Detection > Screening Value

Detection

Non-detection

Laboratory Results | Post Excavation Soil
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S046	S047	S048	S049	S050		S051
			B14-3; Approximately 4' scrape. 3/5/2024 MTWA0305S046	C18-4 6ft 3/6/2024 MTWA0306S047	C17-3 6ft 3/6/2024 MTWA0306S048	C16-1 6ft 3/6/2024 MTWA0306S049	C15-5; Approximately 6' scrape. 3/7/2024 MTWA0307C050 MTWA0307S050		C14-1; Approximately 6' scrape. 3/7/2024 MTWA0307S051
8260D	Benzene	30 µg/kg ¹	1,450 µg/kg	< 19.6 µg/kg	265 µg/kg	290 µg/kg	542 µg/kg (J)	442 µg/kg	72.6 µg/kg
	Ethylbenzene	6000 µg/kg ¹	72,500 µg/kg	39,100 µg/kg	14,100 µg/kg	50,000 µg/kg	29.4 µg/kg (J)	46.5 µg/kg (J)	66.1 µg/kg
	Toluene	7000 µg/kg ¹	214,000 µg/kg	757 µg/kg	466 µg/kg	40,200 µg/kg	41.6 µg/kg (J)	89 µg/kg (J)	283 µg/kg
	Xylenes, Total	9000 µg/kg ¹	432,000 µg/kg	186,000 µg/kg	21,100 µg/kg	240,000 µg/kg	299 µg/kg (J)	338 µg/kg	85.2 µg/kg
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	9,670 µg/kg	590,000 µg/kg (J)	222,000 µg/kg	1,030,000 µg/kg	< 2,750 µg/kg	< 2,130 µg/kg	5,060 µg/kg
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 3,520 µg/kg	< 17,100 µg/kg	< 4,380 µg/kg	< 70,900 µg/kg	< 6,890 µg/kg	< 5,330 µg/kg	< 3,930 µg/kg
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	1,750,000 µg/kg	1,840,000 µg/kg	488,000 µg/kg	1,900,000 µg/kg	39,700 µg/kg (J)	28,500 µg/kg	10,100 µg/kg

¹ Washington State Model Toxic Control Act (MTCA) - Method A Soil Cleanup Levels for Unrestricted Land Use
* Cleanup Level for Heavy Oils
Laboratory non-detections are reported as less than ("<") the laboratory method detection limit (MDL).
Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Detection > Screening Value

Detection

Non-detection

Laboratory Results | Post Excavation Soil
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S052	S053	S054	S055	S056	S057
			D13-5; Approximately 6' scrape. 3/7/2024 MTWA0307S052	C13-4 7.9 ft 3/8/2024 MTWA0308S053	D16 East Sidewall 2ft below surface 3/8/2024 MTWA0308S054	D16 East Sidewall 4ft below surface 3/8/2024 MTWA0308S055	D15 East Sidewall 2ft below surface 3/8/2024 MTWA0308S056	D15 East sidewalk 2ft below surface 3/8/2024 MTWA0308S057
8260D	Benzene	30 µg/kg ¹	< 0.982 µg/kg	3.02 µg/kg	< 0.636 µg/kg	< 0.799 µg/kg	< 0.755 µg/kg	< 0.841 µg/kg
	Ethylbenzene	6000 µg/kg ¹	< 1.55 µg/kg	7.1 µg/kg	< 1 µg/kg	< 1.26 µg/kg	< 1.19 µg/kg	< 1.33 µg/kg
	Toluene	7000 µg/kg ¹	< 2.73 µg/kg	42.9 µg/kg	< 1.77 µg/kg	2.41 µg/kg (J)	2.49 µg/kg (J)	4.01 µg/kg (J)
	Xylenes, Total	9000 µg/kg ¹	< 7.82 µg/kg	27.5 µg/kg	< 1.2 µg/kg	< 1.51 µg/kg	< 1.42 µg/kg	7.31 µg/kg (J)
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	< 2,010 µg/kg	13,600 µg/kg	< 1,550 µg/kg	< 1,770 µg/kg	< 1,720 µg/kg	< 1,860 µg/kg
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 5,030 µg/kg	< 3,880 µg/kg	< 3,890 µg/kg	< 4,440 µg/kg	< 4,300 µg/kg	< 4,650 µg/kg
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 2,500 µg/kg	< 6,560 µg/kg	< 2,200 µg/kg	< 2,440 µg/kg	< 2,340 µg/kg	< 2,900 µg/kg

¹ Washington State Model Toxic Control Act (MTCA) - Method A Soil Cleanup Levels for Unrestricted Land Use
* Cleanup Level for Heavy Oils
Laboratory non-detections are reported as less than ("<") the laboratory method detection limit (MDL).
Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Detection > Screening Value

Detection

Non-detection

Laboratory Results | Post Excavation Soil
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S058		S059	S060	S061	S062	S063
			B19-T		B19-5	C19-5	B18-1 5.7ft	B17-2 4.6ft	B16-1 4.3ft
			3/8/2024		3/8/2024	3/8/2024	3/9/2024	3/9/2024	3/9/2024
			MTWA0308C058	MTWA0308S058	MTWA0308S059	MTWA0308S060	MTWA0309S061	MTWA0309S062	MTWA0309S063
8260D	Benzene	30 µg/kg ¹	< 0.519 µg/kg	< 0.63 µg/kg	< 0.519 µg/kg	< 0.897 µg/kg	1.58 µg/kg	2.85 µg/kg	84 µg/kg
	Ethylbenzene	6000 µg/kg ¹	2.65 µg/kg (J)	3.05 µg/kg (J)	0.835 µg/kg (J)	< 1.42 µg/kg	267 µg/kg	300 µg/kg	162 µg/kg
	Toluene	7000 µg/kg ¹	3.22 µg/kg (J)	10.3 µg/kg	1.99 µg/kg (J)	3.11 µg/kg (J)	15.1 µg/kg	14.2 µg/kg	1,240 µg/kg
	Xylenes, Total	9000 µg/kg ¹	6.87 µg/kg (J)	17.1 µg/kg	3.58 µg/kg (J)	1.96 µg/kg (J)	531 µg/kg	292 µg/kg	569 µg/kg
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	12,100 µg/kg	4,290 µg/kg (J)	< 1,400 µg/kg	2,210 µg/kg (J)	995,000 µg/kg	32,000 µg/kg	< 1,520 µg/kg
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 3,510 µg/kg	< 3,890 µg/kg	< 3,510 µg/kg	< 4,720 µg/kg	13,000 µg/kg (J)	< 3,910 µg/kg	< 3,810 µg/kg
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	11,500 µg/kg	< 8,150 µg/kg	< 2,040 µg/kg	< 2,930 µg/kg	68,700 µg/kg	29,200 µg/kg	7,060 µg/kg

¹ Washington State Model Toxic Control Act (MTCA) - Method A Soil Cleanup Levels for Unrestricted Land Use
* Cleanup Level for Heavy Oils
Laboratory non-detections are reported as less than ("<") the laboratory method detection limit (MDL).
Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Detection > Screening Value

Detection

Non-detection

Laboratory Results | Post Excavation Soil
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S064	S065	S066	S067	S068		S069
			B15-1 4.3ft	B14-1 5.1ft	E14 E side wall 2ft	E14 E side wall 4ft	A18-5 4.4ft		A17-5 4.4 ft
			3/9/2024	3/9/2024	3/10/2024	3/10/2024	3/14/2024		3/14/2024
8260D			MTWA0309S064	MTWA0309S065	MTWA0310S066	MTWA0310S067	MTWA0314C068	MTWA0314S068	MTWA0314S069
	Benzene	30 µg/kg ¹	112 µg/kg	72.9 µg/kg	12.2 µg/kg	5.33 µg/kg	1.71 µg/kg	1.43 µg/kg	14.3 µg/kg
	Ethylbenzene	6000 µg/kg ¹	154 µg/kg	626 µg/kg	31.3 µg/kg	17.3 µg/kg	165 µg/kg	204 µg/kg	62.7 µg/kg
	Toluene	7000 µg/kg ¹	2,080 µg/kg	2,090 µg/kg	314 µg/kg	68.3 µg/kg	107 µg/kg	107 µg/kg	494 µg/kg
	Xylenes, Total	9000 µg/kg ¹	876 µg/kg	3,430 µg/kg	985 µg/kg	134 µg/kg	437 µg/kg	563 µg/kg	551 µg/kg
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	1,940 µg/kg (J)	3,430 µg/kg (J)	< 1,460 µg/kg	< 1,690 µg/kg	1,560 µg/kg (J)	2,330 µg/kg (J)	< 1,440 µg/kg
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 3,770 µg/kg	< 3,620 µg/kg	< 3,660 µg/kg	< 4,220 µg/kg	< 3,780 µg/kg	< 3,820 µg/kg	< 3,620 µg/kg
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	18,600 µg/kg	30,700 µg/kg	22,800 µg/kg	< 1,930 µg/kg	15,700 µg/kg (J)	25,300 µg/kg (J)	12,800 µg/kg

¹ Washington State Model Toxic Control Act (MTCA) - Method A Soil Cleanup Levels for Unrestricted Land Use
* Cleanup Level for Heavy Oils
Laboratory non-detections are reported as less than ("<") the laboratory method detection limit (MDL).
Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Detection > Screening Value

Detection

Non-detection

Laboratory Results | Post Excavation Soil
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S070	S071	S072	S073	S074	S075	S076
			A17-3 4.4ft	A19-5	A16-2 4.4ft	A15-5 4.4ft	A14-5 4.4ft	A13-2 4.4 ft	A12-5 5.0ft
			3/15/2024	3/15/2024	3/15/2024	3/15/2024	3/15/2024	3/15/2024	3/16/2024
8260D			MTWA0315S070	MTWA0315S071	MTWA0315S072	MTWA0315S073	MTWA0315S074	MTWA0315S075	MTWA0316S076
	Benzene	30 µg/kg ¹	9.56 µg/kg (J)	1.34 µg/kg (J)	67.4 µg/kg (J)	935 µg/kg (J)	9.48 µg/kg	74.6 µg/kg	28 µg/kg
	Ethylbenzene	6000 µg/kg ¹	24.1 µg/kg (J)	2.34 µg/kg (J)	175 µg/kg (J)	855 µg/kg (J)	21.4 µg/kg	75.9 µg/kg	51.2 µg/kg
	Toluene	7000 µg/kg ¹	263 µg/kg (J)	6.46 µg/kg (J)	1,910 µg/kg (J)	12,700 µg/kg (J)	212 µg/kg	1,060 µg/kg	302 µg/kg
	Xylenes, Total	9000 µg/kg ¹	169 µg/kg (J)	14 µg/kg (J)	884 µg/kg (J)	3,930 µg/kg (J)	122 µg/kg	466 µg/kg	347 µg/kg
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	< 1,430 µg/kg	< 1,670 µg/kg	< 1,460 µg/kg	5,290 µg/kg	1,530 µg/kg (J)	8,210 µg/kg	< 1,670 µg/kg
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 3,580 µg/kg	< 4,190 µg/kg	< 3,660 µg/kg	< 3,840 µg/kg	3,670 µg/kg (J)	< 3,630 µg/kg	< 4,190 µg/kg
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	5,840 µg/kg (J)	1,540 µg/kg (J)	4,530 µg/kg (J)	15,600 µg/kg (J)	< 2,850 µg/kg	15,500 µg/kg	12,300 µg/kg

¹ Washington State Model Toxic Control Act (MTCA) - Method A Soil Cleanup Levels for Unrestricted Land Use
* Cleanup Level for Heavy Oils
Laboratory non-detections are reported as less than ("<") the laboratory method detection limit (MDL).
Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Detection > Screening Value

Detection

Non-detection

Laboratory Results | Post Excavation Soil
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S077	S078		S079	S080	S081	S082
			A12-4 2ft	A12-4 4ft		B13-2 4.7ft	B12-4 6.3ft	C12-5 5.1ft	D12-5 8.3ft
			3/16/2024	3/16/2024		3/16/2024	3/16/2024	3/18/2024	3/18/2024
8260D	Benzene	30 µg/kg ¹	MTWA0316S077	MTWA0316C078	MTWA0316S078	MTWA0316S079	MTWA0316S080	MTWA0318S081	MTWA0318S082
	Ethylbenzene	6000 µg/kg ¹	195 µg/kg (J)	20.6 µg/kg (J)	60.3 µg/kg (J)	23.6 µg/kg	19.4 µg/kg	1.13 µg/kg (J)	86 µg/kg
	Toluene	7000 µg/kg ¹	40.5 µg/kg (J)	< 4.73 µg/kg	< 4.86 µg/kg	26.8 µg/kg	29.5 µg/kg	14.1 µg/kg	1,040 µg/kg
	Xylenes, Total	9000 µg/kg ¹	10.8 µg/kg (J)	14.3 µg/kg (J)	34.5 µg/kg (J)	182 µg/kg	55.2 µg/kg	< 3.36 µg/kg	6,560 µg/kg
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	71.6 µg/kg (J)	36.1 µg/kg (J)	132 µg/kg (J)	85.9 µg/kg	114 µg/kg	19.6 µg/kg	9,960 µg/kg
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 3,560 µg/kg	< 6,100 µg/kg	< 6,530 µg/kg	< 1,480 µg/kg	97,900 µg/kg	< 1,480 µg/kg	< 1,750 µg/kg
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 8,890 µg/kg	< 15,300 µg/kg	25,300 µg/kg (J)	< 3,700 µg/kg	< 3,750 µg/kg	< 3,710 µg/kg	< 4,370 µg/kg
			< 4,810 µg/kg	< 13,500 µg/kg	< 19,700 µg/kg	< 3,250 µg/kg	12,600 µg/kg	< 3,910 µg/kg	107,000 µg/kg

¹ Washington State Model Toxic Control Act (MTCA) - Method A Soil Cleanup Levels for Unrestricted Land Use
* Cleanup Level for Heavy Oils
Laboratory non-detections are reported as less than ("<") the laboratory method detection limit (MDL).
Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Detection > Screening Value

Detection

Non-detection

Laboratory Results | Post Excavation Soil

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S083	S084	S087	S088		S089
			E13 sidewall 2ft	E13 E wall 4ft	E11-5	E14-5 9.65ft		E13-5
			3/18/2024	3/18/2024	3/19/2024	3/19/2024		3/19/2024
			MTWA0318S083	MTWA0318S084	MTWA0319S087	MTWA0319C088	MTWA0319S088	MTWA0319S089
8260D	Benzene	30 µg/kg ¹	< 1.04 µg/kg	< 0.895 µg/kg	< 0.955 µg/kg	27.6 µg/kg	24.5 µg/kg	< 0.72 µg/kg
	Ethylbenzene	6000 µg/kg ¹	< 1.64 µg/kg	< 1.41 µg/kg	< 30.7 µg/kg	< 39.9 µg/kg	< 22 µg/kg	< 1.6 µg/kg
	Toluene	7000 µg/kg ¹	< 4.88 µg/kg	< 3.4 µg/kg	< 61.6 µg/kg	< 93 µg/kg	< 49.2 µg/kg	< 4.16 µg/kg
	Xylenes, Total	9000 µg/kg ¹	< 8.22 µg/kg	< 6.87 µg/kg	< 183 µg/kg	< 242 µg/kg	< 144 µg/kg	< 14.9 µg/kg
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	< 1,700 µg/kg	< 1,890 µg/kg	< 1,980 µg/kg	< 1,770 µg/kg	< 1,760 µg/kg	< 1,660 µg/kg
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 4,250 µg/kg	< 4,740 µg/kg	< 4,970 µg/kg	< 4,430 µg/kg	< 4,400 µg/kg	< 4,160 µg/kg
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 2,610 µg/kg	< 2,050 µg/kg	< 1,890 µg/kg	< 1,780 µg/kg	< 1,830 µg/kg	< 1,310 µg/kg

¹ Washington State Model Toxic Control Act (MTCA) - Method A Soil Cleanup Levels for Unrestricted Land Use

* Cleanup Level for Heavy Oils

Laboratory non-detections are reported as less than ("<") the laboratory method detection limit (MDL).

Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:

J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

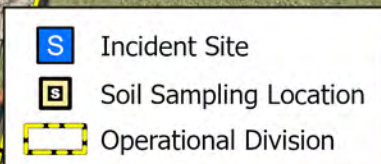
Detection > Screening Value

Detection

Non-detection

Appendix G-6

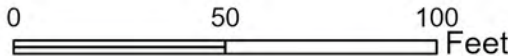
Soil Sampling Results Maps





Soil Sampling Locations | Post Excavation Sampling

Olympic Pipeline Gasoline Spill - Conway, WA



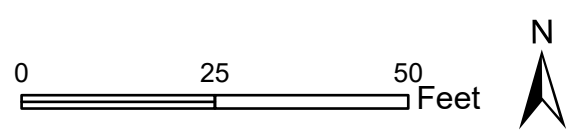
Project: PROJ-032692
Client: BP
City: Conway, WA
County: Skagit











 Soil Sampling Location

Appendix G-7

Soil Sampling MTCA Method A Exceedance Locations Map



Div B



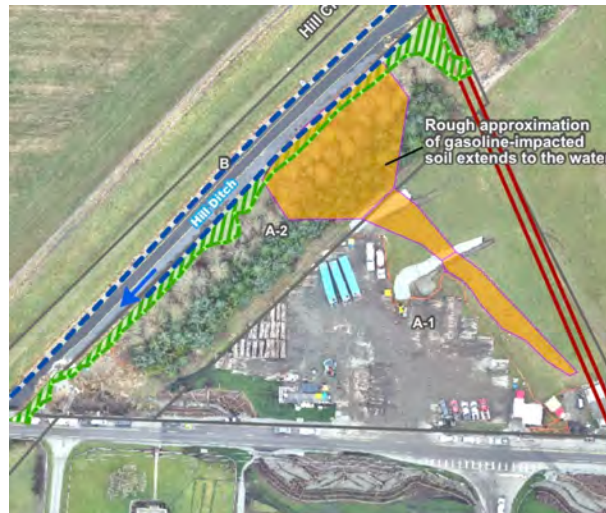
Appendix H

Carpenter Creek Remediation Site Plant Survey

Carpenter Creek Remediation Site Plant Survey

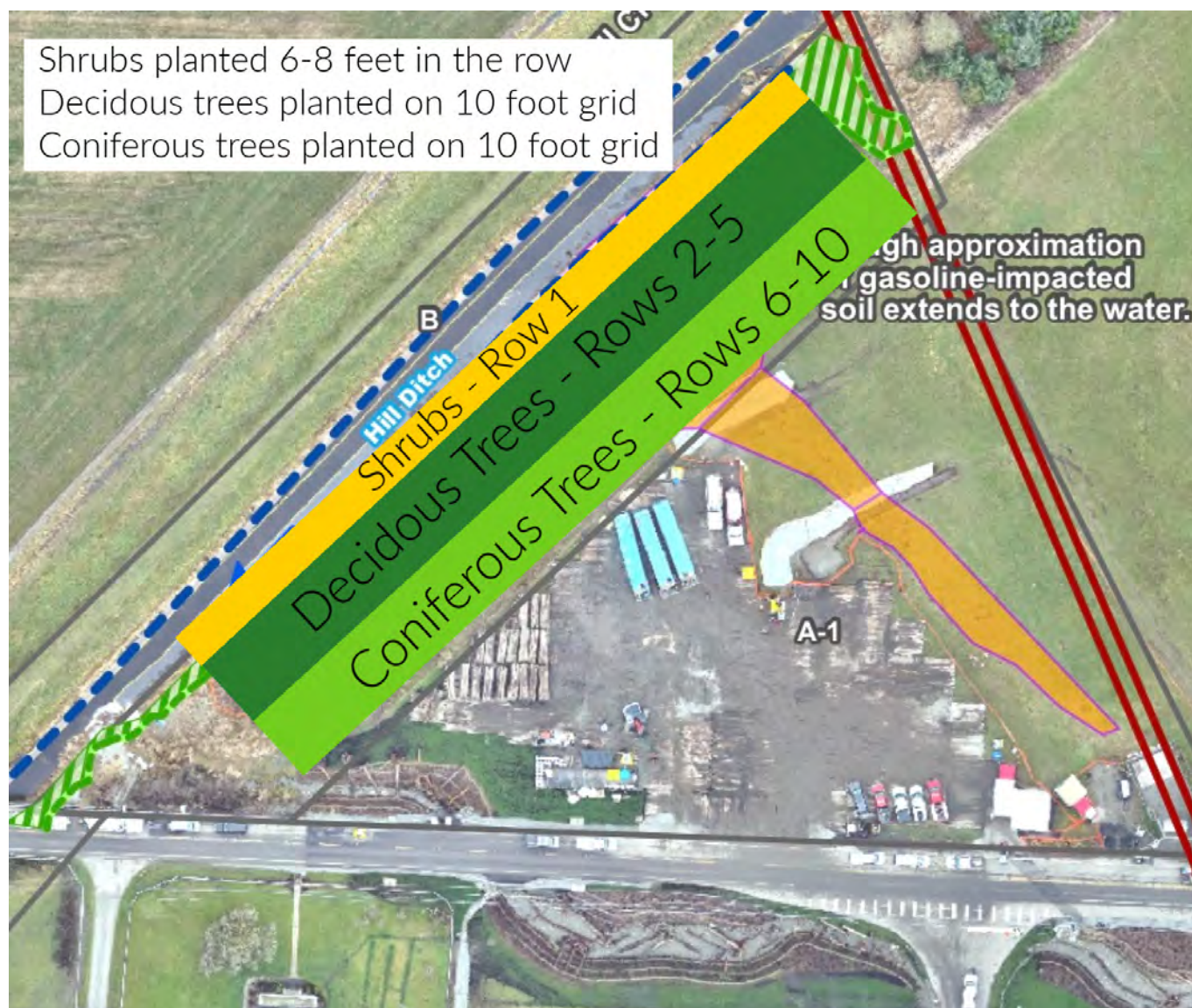
19199 SR 534, Mount Vernon, WA 98274

Submitted to CTEH, Tony Palagyi
December 24, 2023



Submitted by:
Steve Sahlin
Calypso Restoration
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(360)840-5182

Carpenter Creek Planting Site Layout



Carpenter Creek Plant Survey Report

Carpenter Creek Plant Survey: Species, Quantity, Diameter at Breast Height (DBH)

[illegible]

Carpenter Creek Remediation Site Observations and Recommendations

- Most of the species represented seem to be growing quite well on the site.
- The primary factor in mortality or stunted growth seems to be beaver depredation. For this reason, beaver repellent species such as Spruce, Oregon Ash, Cascara, Twinberry, Ninebark, etc. might be beneficial.
- A little more diversity of species when replanting would be beneficial as well.
- The following link has a good breakdown of riparian species for different Major Land Resource Areas in Washington State, as well as information on recommended planting zones and spacing:
 - <https://www.nrcs.usda.gov/plantmaterials/wapmstn13160.pdf>
- The site may be appropriate for possible mycoremediation. Mycoremediation is a form of bioremediation in which fungi is used to degrade or isolate contaminants in the soil, particularly hydrocarbons. This approach can provide a favorable cost/benefits ratio as well as be incorporated into other remediation strategies.

Appendix I

Water Treatment System Sampling Addendum

Water Treatment System Sampling Addendum

This document has been prepared as an addendum to the approved Environmental Sampling and Analysis Plan (SAP) for Delineation and Remediation of Impacted Soils and in support of the Dewatering Water Treatment Plan and System O & M Manual generated in response to the Olympic Pipeline gasoline spill which occurred on December 10, 2023.

Gasoline and gasoline constituents are suspected to exist in subsurface soils in Divisions A-2 and A-3. Sections of Division A-2 and A-3 were impacted during the initial discharge of hydrocarbon (gasoline). This area, which is riparian in nature, contains more permeable substrate which increases the potential lateral migration of potential contaminants. This area was delineated for petroleum hydrocarbons and prepared for excavation of potentially contaminated soils. To allow for effective soil excavation, dewatering will be necessary. Six water extraction wells were installed to facilitate water removal and a water treatment system has been designed to allow for on-site treatment and discharge of extracted water (Figure 1 – Water Extraction System Map). This addendum documents the sampling protocols that will be employed to assure the treatment system has removed hydrocarbons and other contaminants of concern prior to discharge as required by the Washington State Department of Ecology (Ecology) Administrative Order (Docket 22512) pertaining to discharge of treated water. It is planned that water will be treated and discharged in batches though the permit allows for flexibility and the opportunity to direct flow discharge.

The water treatment system consists of five containment tanks, a sand filter, a chemical flocculation unit and four canisters of granulated activated carbon (GAC) as well as associated piping and several sample ports for water sample collection. Primary sampling ports are depicted on the system schematic (Figure 2 – Water Treatment System Schematic) as Raw Water Sampling Port (A) and Discharge Sample Port (F). The process flow consists of pumping water from the six extraction wells and conveyance to the five containment tanks via 4" influent piping. The fifth containment tank (designated as the pre-treatment tank) contains a gravity skimmer to remove any potential free product prior to transfer to the GAC canisters. A process flow description through the GAC system is provided with the schematic.

Safety is the primary consideration in all fieldwork and given the large amount of activity scheduled at the spill site, communication and coordination is critical. Travelling to and entering the site is subject to restrictions to prevent interference with school traffic and other on-site response activities. Particular attention should be paid to the presence and activity of heavy equipment & vehicles. Sample collection will be from ports built into the treatment system so splash protection, both dermal and eye protection, is mandatory for sampling personnel. To further enhance safety, the contracted system operator, who is familiar with all system components, will be the only person allowed to collect samples.

Water Sample Collection Guidance

Water samples will be collected and analyzed as per the Administrative Order. The sample analytical results must demonstrate no exceedances of the Administrative Order Table 1 analyte list indicator levels before discharging. For continuous discharge, written approval from Ecology must be acquired prior to discharge. Once Ecology approves continuous discharge, a minimum of weekly samples must be analyzed to confirm compliance. Additional samples may be analyzed for each batch of treated water to monitor the continued efficacy of the system.

It is expected that three samples will be collected per set. The three samples include the Raw Water Intake (Sample Port A), a GAC unit sample (to be designated upon start-up) and a Discharge Point Sample (Sample Port F). Additional sample ports are available between GAC vessels and may be sampled to assess potential breakthrough of individual units.

Turbidity samples will continue to be collected in the field at least once weekly but may be increased based on high readings or observed turbidity.

Pursuant to the Discharge Permit, at start-up and prior to initial discharge, two distinct treated batches of water will be sampled approximately 3 to 4 hours apart. Samples must be collected from separate tanks or representative streams of water resulting in 6 total samples. Samples will be transported via courier to Fremont Analytical in Seattle, WA and analyzed at the quickest turnaround possible. If sample results meet compliance standards, Ecology approval for flow-through discharge may be granted. Alternatively, treated water batch discharge may be implemented to assure compliance points are met consistently prior to discharge. If analytical results suggest treatment goals have not been reached, the water batch can be re-routed to the pre-treatment tank and undergo an additional cycle of treatment. The batch will then be re-sampled per standard protocols. Should an exceedance of the contaminant indicator levels occur and a discharge into Hill Ditch the following actions are required:

- **Immediately notify** Ecology on non-compliance by calling the regional 24-hour Environmental Report Tracking System (ERTS) phone number (206) 594-0000
- Cease the discharge until indicator levels can be met.
- **Within five (5) days**, submit a detailed, written report to Ecology, unless requested earlier by Ecology.
- For pH, exceedances refer to Special Conditions S4.D.4 of the CSGP.
- Additional sampling and analysis are required prior to resuming discharge
- If any of the indicator levels are exceeded after being re-tested, the existing treatment must be modified to increase effectiveness, additional Ecology-approved treatment systems must be installed, or the contaminated construction stormwater or groundwater must be trucked off-site for disposal in accordance with the approved Waste Management Plan.

Daily operational sampling, once flow-thru discharge is approved, will include one (1) set of routine samples daily. If batch discharge is implemented, sampling of each batch will occur. Quality Control/Quality Assurance samples such as blanks and duplicates will be collected in general accordance with the SAP. It may be necessary to spot-check specific GAC units. This sampling will be done upon request of the treatment system operators, Northwest Soil Cement LLC. Should lab results show consistent compliance the frequency of sampling may be reduced to weekly, at a minimum.

Analytical Protocols as per the Administrative Order:

Table 1. Fresh Water Parameters

Olympic Pipe Line Company LLC must use the specified analytical methods, detection limits (DLs) and quantitation levels (QLs) in the following table for monitoring unless the method used produces measurable results in the sample and EPA has listed it as an EPA-approved method in 40 CFR Part 136. If Olympic Pipe Line Company LLC uses an alternative method, not specified in the order and as allowed above, it must report the test method, DL, and QL on the discharge monitoring report.

Pollutant & CAS No. (if available)	Sampling Frequency*	Sample Type	Indicator Level, µg/L unless otherwise noted	Required Analytical Protocol	Detection Level, µg/L unless otherwise noted	Quantitation Level, µg/L unless otherwise noted
PETROLEUM HYDROCARBONS						
BTEX (benzene, toluene, ethylbenzene and O,M,P xylenes)	Batch/Weekly	Grab	2.0 ^a	SW 846 8021/ 8260	1.0	2.0
Diesel and Oil-Range Hydrocarbons (NWTPH-Dx) ^b	Batch/Weekly	Grab	250 ^a	NWTPH-Dx	250	250
Gasoline-Range Hydrocarbons (NWTPH-Gx) ^c	Batch/Weekly	Grab	250 ^a	NWTPH-Gx	250	250
METALS						
Arsenic (7440-38-2)	Batch/Weekly	Grab	360 ^d	200.8	0.1	0.5
Barium, Total (7440-39-3)	Batch/Weekly	Grab	1,000 ^e	200.8	0.5	2.0
Chromium, Total (7440-47-3)	Batch/Weekly	Grab	15 ^e	200.8	0.2	1.0
Copper, Total (7440-50-8)	Batch/Weekly	Grab	8.2 ^d	200.8	0.4	2.0
Lead, Total (7439-92-1)	Batch/Weekly	Grab	27.5 ^d	200.8	0.1	0.5
Nickel, Total (7440-02-0)	Batch/Weekly	Grab	733.79 ^d	200.8	0.1	0.5
Zinc, Total (7440-66-6)	Batch/Weekly	Grab	59.27 ^d	200.8	0.5	2.5
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) AND CARCINOGENIC PAHs						
Fluoranthene (206-44-0)	Batch/Weekly	Grab	6.6 ^a	625.1	2.2	6.6
Fluorene (86-73-7)	Batch/Weekly	Grab	5.7 ^a	625.1	1.9	5.7
1-Methylnaphthalene (90-12-0)	Batch/Weekly	Grab	10.0 ^a	8270	10	10
2-Methylnaphthalene (91-57-6)	Batch/Weekly	Grab	10.0 ^a	8270	10	10

Reporting

On a monthly basis sampling data must be reported on Discharge Monitoring Reports (DMR) electronically using Department of Ecology's Secure Online System WQWebDMR. At field work's end, a report will be generated as described in the Administrative Order to document the amount of water treated and analytical results for samples collected.

Technical drawing of a sheet pile cofferdam layout. The drawing shows a plan view of the cofferdam structure, which is a rectangular enclosure formed by sheet piles. The layout includes various annotations and labels:

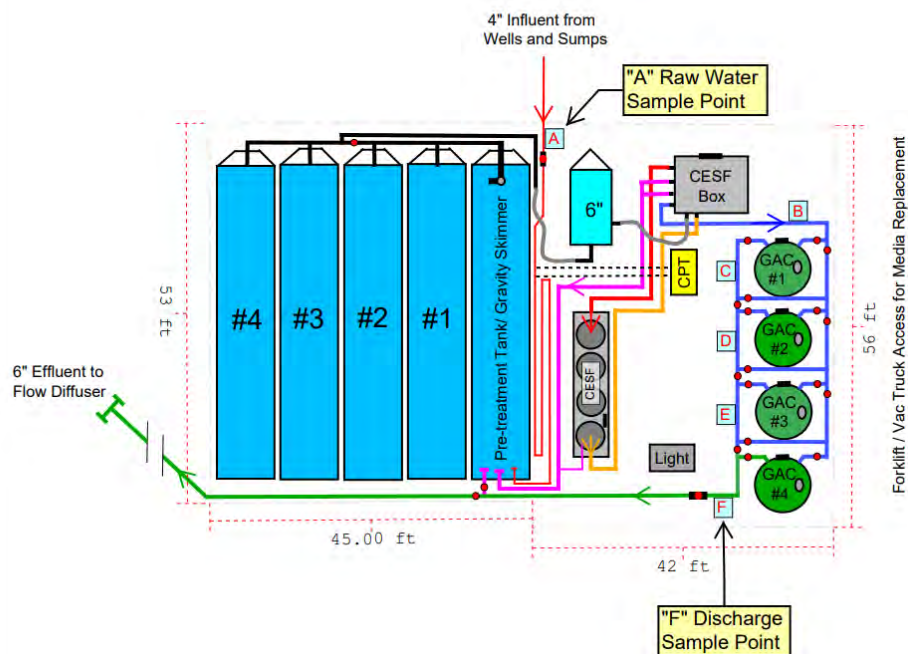
- Sheet Pile Cofferdam:** Z14-770 sheet piles, 26-ft long. Top of sheet pile EL. 12.0.
- Flow Direction:** Indicated by an arrow pointing towards the top right.
- Clearance:** 30'-0" MIN. CLEAR and 17'-0" MIN. CLEAR are indicated.
- Sheet Pile Details:**
 - FACE OF SHEET PILE SET 3' TO 5' OFF TOP OF EXISTING BANK
 - 21'-2" (42 PAIR OF SHEETS)
 - 70'-9" (14 PAIR OF SHEETS)
 - 25' OR GREATER
 - 4'x4' INTERCEPTOR TRENCH
 - EDGE OF WATER / APPROX. TOP OF BANK
 - WORKING POINT (TYP.)
 - WP-1, WP-2, WP-3, WP-4
 - GT-1, GT-2, GT-2A, GT-2B, GT-3
 - A0, A1, A2, A3, A4
- Geotechnical Details:**
 - Up to five (5) 30" diameter Sump wells, +/- 15' deep, includes 10' of 30 slot screen. Wells will include pump and riser pipe.
 - 4"-6" Discharge piping routed to frac tank(s). Pipe to be hung along sheet piles.
 - SEE DIVISION PLANS FOR ZONE DELINEATIONS (TYP.).
- Equipment and Infrastructure:**
 - Frac tank(s)
 - Gen set to power pumps inside containment pad.
 - Control panels for pumps inside containment pad.
- Other Notes:**
 - GEO DRILLED BORING LOCATIONS. GT-2 & GT-2A TERMINATED SHALLOW DUE TO CONTAMINATION.
 - SH-2
 - TOP OF EXISTING DIKING DISTRICT NO. 3 LEVEE
 - SHEET PILE CORNER CONNECTOR SEE DETAIL ON DRAWING SH-3 (TYP.)

Water Treatment System Schematic

Exhibit "A"

Treatment System Flow Path:

- 4" Influent +/-100 GPM, from wells and sumps up to treatment system (storage tanks will allow surge flows up to 500 gpm).
- Pre-treat influent with co-precipitation (CPT) chemicals (injection of 39% ferric chloride and BHR-P50) with mixing in 4" pipe prior to entering far end of settlement tank (treatment for turbidity and metals). It's likely some sump de-watering will be necessary, this pre-treatment step will allow water up to 1,000 NTU to enter the system at any time (an important feature).
- Pre-treatment Tank / Gravity Skimmer with down-turned 90 interior discharge provides dead storage for CPT process as well as gravity separation and a catch point for any free product or sheen.
- +/- 80k gal. Influent Storage Tanks (@ 100 gpm +/- 13 hours of capacity). The surge capacity of the tanks will allow the GAC system to operate at a higher flow rate (when running), letting us use much larger media vessels to reduce media change outs during operation.
- 6" Diesel Pump draws from pre-treated storage to CESF control Unit @ 400 gpm (when operating).
- DOE Chitosan Enhanced Sand Filtration system; control box and 48" x 4 sand filter, (treatment for turbidity, metals and pH).
- CESF system discharges to four- 10k lbs. activated carbon filters (40k lbs of total media), running in lead/lag. Any single 10k lbs unit can be isolated to change out media during operation (treatment for heavy organic contaminant load). Based on initial calculations, the GAC media consumption could be as high as 70.5 lbs. per 1,000 gallons of water treated (that would be one 10k lbs. unit spent in +/- 5.9 hours of operation at 400 gpm), the management of the media consumption will be critical to maintaining the AO discharge requirements, especially with any lab delays.
- 6" Recycle line allows "batch" treatment for system flow-through approval, with 6" effluent line routing discharge down to a flow diffuser at the edge of the ditch.



NSC WATER QUALITY

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(425)864-1645 ericnwsolcement@yahoo.com

De-watering Treatment for AO Compliance

2-12-24

Olympic Pipeline; Conway WA Spill Site

Appendix J

Water Treatment System Sampling Results Summary

Laboratory Results | Water Treatment System
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Fresh Water Screening Value (µg/L)	LB-A							
			Intake water							
			2/25/2024	2/28/2024		2/29/2024	3/4/2024		3/11/2024	3/18/2024
			MTWA0225LB001A	MTWA0228LB001A	MTWA0228LD001A	MTWA0229LB001A	MTWA0304LB001A	MTWA0304LD001A	MTWA0311LB001A	MTWA0318LB001A
EPA200.8	Arsenic	360 ²	3.55 µg/L	2.5 µg/L	2.21 µg/L	4.95 µg/L	1.68 µg/L	1.57 µg/L	1.57 µg/L	1.06 µg/L
	Barium	1000 ⁴	15.5 µg/L	14.7 µg/L	13.3 µg/L	162 µg/L	62.3 µg/L	60.3 µg/L	23.2 µg/L	18.3 µg/L
	Chromium	15 ³	5.46 µg/L	5.9 µg/L	0.864 µg/L	28.7 µg/L	3.69 µg/L	1.86 µg/L	12 µg/L	1.72 µg/L
	Copper	8.2 ²	7.48 µg/L	7.08 µg/L	2 µg/L (J)	30.5 µg/L	7.68 µg/L	5.37 µg/L	16.1 µg/L	4.8 µg/L
	Lead	27.5 ²	0.331 µg/L (J)	0.164 µg/L (J)	0.144 µg/L (J)	6.63 µg/L	0.826 µg/L	0.772 µg/L	1.05 µg/L	0.537 µg/L
	Nickel	733.79 ²	5.22 µg/L	4.7 µg/L	2.88 µg/L	46.7 µg/L	6.42 µg/L	5.61 µg/L	10.7 µg/L	4.98 µg/L
	Zinc	59.27 ²	11.5 µg/L	7.24 µg/L	5.15 µg/L	62.6 µg/L	11.8 µg/L	10.7 µg/L	15 µg/L	7.56 µg/L
EPA625.1	1-Methylnaphthalene	10.0 ¹	NA	12.7 µg/L (J)	14.7 µg/L (J)	1.11 µg/L	12.1 µg/L (J)	12.5 µg/L (J)	2.26 µg/L	2.3 µg/L
	2-Methylnaphthalene	10.0 ¹	NA	8.07 µg/L	9.52 µg/L	1.76 µg/L	17.3 µg/L (J)	18.1 µg/L (J)	2.03 µg/L	2.01 µg/L
	Benz(a)anthracene	NA	NA	< 0.00827 µg/L	< 0.00834 µg/L	< 0.00984 µg/L	0.0143 µg/L (J)	0.0139 µg/L (J)	0.0193 µg/L (J)	< 0.00846 µg/L
	Benzo(a)pyrene	NA	NA	< 0.00786 µg/L	< 0.00793 µg/L	< 0.00935 µg/L	< 0.00779 µg/L	< 0.00783 µg/L	< 0.00797 µg/L	< 0.00804 µg/L
	Benzo(b)fluoranthene	NA	NA	< 0.00773 µg/L	< 0.0078 µg/L	< 0.0092 µg/L	< 0.00766 µg/L	< 0.0077 µg/L	< 0.00784 µg/L	< 0.0079 µg/L
	Chrysene	NA	NA	< 0.00854 µg/L	< 0.00861 µg/L	< 0.0102 µg/L	< 0.00846 µg/L	< 0.0085 µg/L	< 0.00865 µg/L	< 0.00873 µg/L
	Fluoranthene	6.6 ¹	< 0.0329 µg/L	< 0.0327 µg/L	< 0.033 µg/L	< 0.0389 µg/L	< 0.0324 µg/L	< 0.0325 µg/L	< 0.0331 µg/L	< 0.0334 µg/L
	Fluorene	5.7 ¹	0.765 µg/L	0.589 µg/L	0.649 µg/L	0.0677 µg/L (J)	0.674 µg/L	0.738 µg/L	0.144 µg/L	0.136 µg/L
	Naphthalene	NA	NA	8.97 µg/L	10.2 µg/L	2.33 µg/L	15.7 µg/L (J)	17.2 µg/L (J)	3.68 µg/L	2.05 µg/L
	Phenanthrene	16.2 ¹	0.374 µg/L	0.289 µg/L	0.301 µg/L	0.0731 µg/L (J)	0.619 µg/L	0.68 µg/L	0.123 µg/L	0.0716 µg/L (J)
	Pyrene	5.7 ¹	< 0.0576 µg/L	< 0.0571 µg/L	< 0.0576 µg/L	< 0.068 µg/L	< 0.0566 µg/L	< 0.0569 µg/L	< 0.0579 µg/L	< 0.0584 µg/L
	Diesel Range Organics	250 ¹	767 µg/L	967 µg/L	1,000 µg/L	357 µg/L	1,090 µg/L	1,100 µg/L	542 µg/L	148 µg/L
NWTPH-DX	Heavy Oil	250 ¹	< 26.8 µg/L	< 27.1 µg/L	< 26.7 µg/L	< 40.1 µg/L	< 26.8 µg/L	< 26.5 µg/L	< 27.3 µg/L	< 26.9 µg/L
	Total Petroleum Hydrocarbons	NA	767 µg/L	967 µg/L	1,000 µg/L	357 µg/L	1,090 µg/L	1,100 µg/L	542 µg/L	148 µg/L (J)
	Gasoline Range Organics	250 ¹	3,200 µg/L (D)	7,420 µg/L (D)	4,830 µg/L (D)	1,750 µg/L (D)	9,440 µg/L (D)	7,280 µg/L (D)	2,120 µg/L (D)	407 µg/L
NWTPH-GX SW8260D	Benzene	2.0 ¹	40.6 µg/L (D)	224 µg/L (D)	131 µg/L (D)	9.57 µg/L	218 µg/L (D)	187 µg/L (D)	37.1 µg/L (D)	0.603 µg/L
	Ethylbenzene	2.0 ¹	29.6 µg/L	7.38 µg/L (D)	7.64 µg/L	23.9 µg/L	57.3 µg/L (D)	66 µg/L (D)	7.72 µg/L (D)	4.7 µg/L
	m,p-Xylene	2.0 ¹	167 µg/L (D)	468 µg/L (D)	285 µg/L (D)	151 µg/L (D)	536 µg/L (D)	481 µg/L (D)	139 µg/L (D)	15 µg/L
	o-Xylene	2.0 ¹	83.5 µg/L (D)	258 µg/L (D)	161 µg/L (D)	65 µg/L (D)	246 µg/L (D)	230 µg/L (D)	89.1 µg/L (D)	6.45 µg/L
	Toluene	2.0 ¹	494 µg/L (D)	1,970 µg/L (D)	1,150 µg/L (J)	268 µg/L (D)	2,010 µg/L (J)	1,330 µg/L (J)	353 µg/L (D)	4.45 µg/L
SW8270ESIM	1-Methylnaphthalene	10.0 ¹	16.6 µg/L (D)	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	10.0 ¹	11.4 µg/L (D)	NA	NA	NA	NA	NA	NA	NA
	Benz(a)anthracene	NA	< 0.00834 µg/L	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	NA	< 0.00792 µg/L	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	< 0.00779 µg/L	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NA	< 0.0086 µg/L	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	NA	10.3 µg/L	NA	NA	NA	NA	NA	NA	NA

¹ No applicable surface water criterion; value is laboratory quantitation level.

² Acute – Freshwater Toxic Substances Criteria (WAC 173-201A-240). Based on Hardness of 46.0 mg/L for Hardness Dependent Metals. The Indicator Level for hardness dependent metals is expressed as a dissolved metal value. Meeting the Indicator Level using analytical protocol for total or dissolved metal values meets the intent of this order.

³ Indicator Level total chromium is actually for hexavalent chromium using Acute – Freshwater Toxic Substances Criteria (WAC 173-201A-240) because there is no water quality standard for total chromium.

⁴ Applicable surface water criterion does not exist for barium. The indicator level of 1,000 µg/L for barium is based on groundwater quality standards to be protective of human health and the environment.

Laboratory non-detections are reported as less than (“<”) the laboratory method detection limit (MDL).
Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:
D: Dilution was required.
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Detection

Detection > Screening Value

Non-detection

Not Analyzed

Laboratory Results | Water Treatment System

PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Fresh Water Screening Value (µg/L)	LB-B						
			Post precipitation						
			2/25/2024		2/28/2024	2/29/2024	3/4/2024	3/11/2024	3/18/2024
			MTWA0225LB001B	MTWA0225LB002B	MTWA0228LB001B	MTWA0229LB001B	MTWA0304LB001B	MTWA0311LB001B	MTWA0318LB001B
EPA200.8	Arsenic	360 ²	9.35 µg/L	7.65 µg/L	3.13 µg/L	2.72 µg/L	0.874 µg/L	0.655 µg/L	0.305 µg/L (J)
	Barium	1000 ⁴	7.5 µg/L	12 µg/L	28.4 µg/L	74 µg/L	25.9 µg/L	19.4 µg/L	14.3 µg/L
	Chromium	15 ³	0.4 µg/L (J)	0.723 µg/L (J)	2.86 µg/L	13.9 µg/L	1.44 µg/L	8.16 µg/L	0.664 µg/L (J)
	Copper	8.2 ²	1.29 µg/L (J)	2.26 µg/L	3.78 µg/L	14.5 µg/L	2.39 µg/L	3.53 µg/L	1.94 µg/L (J)
	Lead	27.5 ²	0.251 µg/L (J)	1.22 µg/L	0.4 µg/L (J)	3.02 µg/L	0.263 µg/L (J)	0.323 µg/L (J)	< 0.0795 µg/L
	Nickel	733.79 ²	1.17 µg/L	1.23 µg/L	6.08 µg/L	21.6 µg/L	5.08 µg/L	7.76 µg/L	4.74 µg/L
	Zinc	59.27 ²	2.73 µg/L	9.23 µg/L	10.1 µg/L	30.5 µg/L	9.75 µg/L	12.2 µg/L	7.91 µg/L
EPA625.1	1-Methylnaphthalene	10.0 ¹	NA	NA	8.77 µg/L	1.49 µg/L	12.5 µg/L (J)	10.3 µg/L	1.4 µg/L
	2-Methylnaphthalene	10.0 ¹	NA	NA	5.46 µg/L	1.88 µg/L	14.7 µg/L (J)	7.41 µg/L	1.23 µg/L
	Benz(a)anthracene	NA	NA	NA	0.0111 µg/L (J)	< 0.0104 µg/L	< 0.00831 µg/L	< 0.00838 µg/L	< 0.00836 µg/L
	Benzo(a)pyrene	NA	NA	NA	< 0.00802 µg/L	< 0.00984 µg/L	< 0.00789 µg/L	< 0.00796 µg/L	< 0.00794 µg/L
	Benzo(b)fluoranthene	NA	NA	NA	< 0.00789 µg/L	< 0.00968 µg/L	< 0.00776 µg/L	< 0.00783 µg/L	< 0.00781 µg/L
	Chrysene	NA	NA	NA	< 0.00871 µg/L	< 0.0107 µg/L	< 0.00857 µg/L	< 0.00864 µg/L	< 0.00862 µg/L
	Fluoranthene	6.6 ¹	< 0.0286 µg/L	< 0.0284 µg/L	< 0.0334 µg/L	< 0.0409 µg/L	< 0.0328 µg/L	< 0.0331 µg/L	< 0.033 µg/L
	Fluorene	5.7 ¹	0.0227 µg/L (J)	0.0722 µg/L (J)	0.336 µg/L	0.0765 µg/L (J)	0.699 µg/L	0.66 µg/L	0.0774 µg/L (J)
	Naphthalene	NA	NA	NA	3.31 µg/L	2.24 µg/L	15.7 µg/L (J)	10.8 µg/L	1.31 µg/L
	Phenanthrene	16.2 ¹	< 0.0093 µg/L	0.0209 µg/L (J)	0.161 µg/L	0.0519 µg/L (J)	0.534 µg/L	0.314 µg/L	0.0442 µg/L (J)
	Pyrene	5.7 ¹	< 0.0501 µg/L	< 0.0496 µg/L	< 0.0583 µg/L	< 0.0715 µg/L	< 0.0574 µg/L	< 0.0579 µg/L	< 0.0577 µg/L
NWTPH-DX	Diesel Range Organics	250 ¹	53 µg/L (J)	176 µg/L	1,230 µg/L	396 µg/L	997 µg/L	799 µg/L	101 µg/L
	Heavy Oil	250 ¹	64.9 µg/L (J)	< 26.4 µg/L	1,540 µg/L	< 37.2 µg/L	< 26.4 µg/L	< 27.8 µg/L	< 27.2 µg/L
	Total Petroleum Hydrocarbons	NA	118 µg/L (J)	176 µg/L (J)	2,780 µg/L	396 µg/L	997 µg/L	799 µg/L	101 µg/L (J)
NWTPH-GX	Gasoline Range Organics	250 ¹	715 µg/L	786 µg/L	2,980 µg/L (J)	1,900 µg/L	5,520 µg/L (D)	4,950 µg/L (D)	220 µg/L
SW8260D	Benzene	2.0 ¹	34.4 µg/L	27.6 µg/L	19.3 µg/L	39.4 µg/L	114 µg/L (D)	99 µg/L (D)	0.612 µg/L
	Ethylbenzene	2.0 ¹	3.44 µg/L	3.26 µg/L	0.493 µg/L	24.8 µg/L	28.5 µg/L (D)	< 7.17 µg/L	2.09 µg/L
	m,p-Xylene	2.0 ¹	14.4 µg/L	37.4 µg/L	137 µg/L (D)	157 µg/L (D)	303 µg/L (D)	279 µg/L (D)	8.2 µg/L
	o-Xylene	2.0 ¹	7.5 µg/L	20.3 µg/L	226 µg/L (D)	74.5 µg/L (D)	154 µg/L (D)	183 µg/L (D)	3.93 µg/L
	Toluene	2.0 ¹	214 µg/L (D)	213 µg/L (D)	51.9 µg/L (D)	458 µg/L (D)	1,080 µg/L (D)	1,010 µg/L (D)	5.68 µg/L
SW8270ESIM	1-Methylnaphthalene	10.0 ¹	0.718 µg/L	2.42 µg/L	NA	NA	NA	NA	NA
	2-Methylnaphthalene	10.0 ¹	0.49 µg/L	1.78 µg/L	NA	NA	NA	NA	NA
	Benz(a)anthracene	NA	< 0.00725 µg/L	< 0.00718 µg/L	NA	NA	NA	NA	NA
	Benzo(a)pyrene	NA	< 0.00689 µg/L	< 0.00682 µg/L	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	< 0.00678 µg/L	< 0.00671 µg/L	NA	NA	NA	NA	NA
	Chrysene	NA	< 0.00748 µg/L	< 0.00741 µg/L	NA	NA	NA	NA	NA
	Naphthalene	NA	0.471 µg/L	1.71 µg/L	NA	NA	NA	NA	NA

¹ No applicable surface water criterion; value is laboratory quantitation level.

² Acute – Freshwater Toxic Substances Criteria (WAC 173-201A-240). Based on Hardness of 46.0 mg/L for Hardness Dependent Metals. The Indicator Level for hardness dependent metals is expressed as a dissolved metal value. Meeting the Indicator Level using analytical protocol for total or dissolved metal values meets the intent of this order.

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⁴ Applicable surface water criterion does not exist for barium. The indicator level of 1,000 µg/L for barium is based on groundwater quality standards to be protective of human health and the environment.

Laboratory non-detections are reported as less than ("<") the laboratory method detection limit (MDL).

Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:

D: Dilution was required.

J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Detection

Detection > Screening Value

Non-detection

Non-detection > Screening Value

Not Analyzed

Laboratory Results | Water Treatment System
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Fresh Water Screening Value (µg/L)	LB-C							
			Post lead GAC							
			2/25/2024		2/28/2024	2/29/2024	3/4/2024	3/11/2024		3/18/2024
			MTWA0225LB001C	MTWA0225LB002C	MTWA0228LB001C	MTWA0229LB001C	MTWA0304LB001C	MTWA0311LB001C	MTWA0311LD001C	MTWA0318LB001C
EPA200.8	Arsenic	360 ²	8.6 µg/L	7.13 µg/L	1.53 µg/L	0.359 µg/L (J)	0.644 µg/L	0.386 µg/L (J)	0.429 µg/L (J)	0.283 µg/L (J)
	Barium	1000 ⁴	7.11 µg/L	8.31 µg/L	16.3 µg/L	13.9 µg/L	20.3 µg/L	16.5 µg/L	18.1 µg/L	15.5 µg/L
	Chromium	15 ³	0.152 µg/L (J)	0.275 µg/L (J)	0.195 µg/L (J)	0.151 µg/L (J)	0.165 µg/L (J)	0.138 µg/L (J)	0.171 µg/L (J)	0.137 µg/L (J)
	Copper	8.2 ²	4.38 µg/L	0.357 µg/L (J)	0.285 µg/L (J)	< 0.182 µg/L	0.496 µg/L (J)	0.462 µg/L (J)	0.584 µg/L (J)	0.498 µg/L (J)
	Lead	27.5 ²	2.28 µg/L	0.12 µg/L (J)	< 0.0795 µg/L	< 0.0795 µg/L	< 0.0795 µg/L	< 0.0795 µg/L	< 0.0795 µg/L	0.152 µg/L (J)
	Nickel	733.79 ²	0.476 µg/L (J)	0.198 µg/L (J)	0.525 µg/L	0.654 µg/L	2.77 µg/L	2.46 µg/L	2.57 µg/L	3.74 µg/L
	Zinc	59.27 ²	65.2 µg/L	3.33 µg/L	2.98 µg/L	2.6 µg/L	17.7 µg/L	27.8 µg/L	40.4 µg/L	35.3 µg/L
EPA625.1	1-Methylnaphthalene	10.0 ¹	NA	NA	< 0.00763 µg/L	< 0.00757 µg/L	< 0.00759 µg/L	< 0.00764 µg/L	< 0.00755 µg/L	< 0.00763 µg/L
	2-Methylnaphthalene	10.0 ¹	NA	NA	< 0.00679 µg/L	< 0.00673 µg/L	< 0.00675 µg/L	< 0.0068 µg/L	< 0.00672 µg/L	< 0.00679 µg/L
	Benz(a)anthracene	NA	NA	NA	< 0.00839 µg/L	0.0114 µg/L (J)	< 0.00834 µg/L	< 0.0084 µg/L	< 0.0083 µg/L	< 0.00839 µg/L
	Benzo(a)pyrene	NA	NA	NA	< 0.00797 µg/L	< 0.00791 µg/L	< 0.00792 µg/L	< 0.00798 µg/L	< 0.00789 µg/L	< 0.00797 µg/L
	Benzo(b)fluoranthene	NA	NA	NA	< 0.00784 µg/L	< 0.00777 µg/L	< 0.00779 µg/L	< 0.00785 µg/L	< 0.00776 µg/L	< 0.00784 µg/L
	Chrysene	NA	NA	NA	< 0.00865 µg/L	< 0.00858 µg/L	< 0.0086 µg/L	< 0.00867 µg/L	< 0.00856 µg/L	< 0.00865 µg/L
	Fluoranthene	6.6 ¹	< 0.0283 µg/L	< 0.0284 µg/L	< 0.0331 µg/L	< 0.0329 µg/L	< 0.0329 µg/L	< 0.0332 µg/L	< 0.0328 µg/L	< 0.0331 µg/L
	Fluorene	5.7 ¹	< 0.00441 µg/L	< 0.00442 µg/L	< 0.00516 µg/L	< 0.00512 µg/L	< 0.00513 µg/L	< 0.00517 µg/L	< 0.00511 µg/L	< 0.00516 µg/L
	Naphthalene	NA	NA	NA	< 0.0223 µg/L	< 0.0222 µg/L	< 0.0222 µg/L	< 0.0224 µg/L	< 0.0221 µg/L	< 0.0223 µg/L
	Phenanthrene	16.2 ¹	< 0.00919 µg/L	< 0.00922 µg/L	< 0.0108 µg/L	< 0.0107 µg/L	< 0.0107 µg/L	< 0.0108 µg/L	< 0.0107 µg/L	< 0.0108 µg/L
	Pyrene	5.7 ¹	< 0.0495 µg/L	< 0.0496 µg/L	< 0.0579 µg/L	< 0.0574 µg/L	< 0.0576 µg/L	< 0.058 µg/L	< 0.0573 µg/L	< 0.0579 µg/L
	Diesel Range Organics	250 ¹	< 34.9 µg/L	< 35.3 µg/L	< 35.2 µg/L	< 34.2 µg/L	< 35.1 µg/L	< 37.2 µg/L	< 36 µg/L	< 35.2 µg/L
NWTPH-DX	Heavy Oil	250 ¹	45.8 µg/L (J)	28.4 µg/L (J)	40 µg/L (J)	34.2 µg/L (J)	27.9 µg/L (J)	29.5 µg/L (J)	< 27.5 µg/L	33.8 µg/L (J)
	Total Petroleum Hydrocarbons	NA	< 61.5 µg/L	< 62.2 µg/L	< 62.1 µg/L	< 60.3 µg/L	< 61.9 µg/L	< 65.6 µg/L	< 63.5 µg/L	< 62.1 µg/L
	Gasoline Range Organics	250 ¹	30.1 µg/L (J)	29.9 µg/L (J)	< 21.6 µg/L	< 21.6 µg/L	< 21.6 µg/L	< 21.6 µg/L	< 21.6 µg/L	< 21.6 µg/L
NWTPH-GX SW8260D	Benzene	2.0 ¹	< 0.179 µg/L	< 0.179 µg/L	< 0.179 µg/L	< 0.179 µg/L	< 0.179 µg/L	< 0.179 µg/L	< 0.179 µg/L	< 0.179 µg/L
	Ethylbenzene	2.0 ¹	< 0.143 µg/L	< 0.143 µg/L	< 0.143 µg/L	< 0.143 µg/L	< 0.143 µg/L	< 0.143 µg/L	< 0.143 µg/L	< 0.143 µg/L
	m,p-Xylene	2.0 ¹	< 0.375 µg/L	< 0.375 µg/L	< 0.375 µg/L	< 0.375 µg/L	< 0.375 µg/L	< 0.375 µg/L	< 0.375 µg/L	< 0.375 µg/L
	o-Xylene	2.0 ¹	< 0.144 µg/L	< 0.144 µg/L	0.404 µg/L (J)	< 0.144 µg/L	< 0.144 µg/L	< 0.144 µg/L	< 0.144 µg/L	< 0.144 µg/L
	Toluene	2.0 ¹	< 0.346 µg/L	< 0.346 µg/L	0.418 µg/L (J)	< 0.346 µg/L	< 0.346 µg/L	< 0.346 µg/L	< 0.346 µg/L	< 0.346 µg/L
SW8270ESIM	1-Methylnaphthalene	10.0 ¹	< 0.00652 µg/L	< 0.00654 µg/L	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	10.0 ¹	< 0.0058 µg/L	< 0.00581 µg/L	NA	NA	NA	NA	NA	NA
	Benz(a)anthracene	NA	< 0.00716 µg/L	< 0.00719 µg/L	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	NA	< 0.00681 µg/L	< 0.00683 µg/L	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	< 0.00669 µg/L	< 0.00671 µg/L	NA	NA	NA	NA	NA	NA
	Chrysene	NA	< 0.00739 µg/L	< 0.00741 µg/L	NA	NA	NA	NA	NA	NA
	Naphthalene	NA	< 0.0191 µg/L	< 0.0191 µg/L	NA	NA	NA	NA	NA	NA

¹ No applicable surface water criterion; value is laboratory quantitation level.

² Acute – Freshwater Toxic Substances Criteria (WAC 173-201A-240). Based on Hardness of 46.0 mg/L for Hardness Dependent Metals. The Indicator Level for hardness dependent metals is expressed as a dissolved metal value. Meeting the Indicator Level using analytical protocol for total or dissolved metal values meets the intent of this order.

³ Indicator Level total chromium is actually for hexavalent chromium using Acute – Freshwater Toxic Substances Criteria (WAC 173-201A-240) because there is no water quality standard for total chromium.

⁴ Applicable surface water criterion does not exist for barium. The indicator level of 1,000 µg/L for barium is based on groundwater quality standards to be protective of human health and the environment.

Laboratory non-detections are reported as less than (“<”) the laboratory method detection limit (MDL).
Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:
D: Dilution was required.
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Detection

Detection > Screening Value

Non-detection

Not Analyzed

Laboratory Results | Water Treatment System
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Fresh Water Screening Value (µg/L)	LB-G						
			Post treatment						
			2/25/2024		2/28/2024	2/29/2024	3/4/2024	3/11/2024	3/18/2024
			MTWA0225LB001G	MTWA0225LB002G	MTWA0228LB001G	MTWA0229LB001G	MTWA0304LB001G	MTWA0311LB001G	MTWA0318LB001G
EPA200.8	Arsenic	360 ²	8.68 µg/L	6.71 µg/L	1.38 µg/L	0.307 µg/L (J)	0.589 µg/L	0.533 µg/L	0.408 µg/L (J)
	Barium	1000 ⁴	6.74 µg/L	8.52 µg/L	15.5 µg/L	11.6 µg/L	22.4 µg/L	19.5 µg/L	16.5 µg/L
	Chromium	15 ³	0.138 µg/L (J)	0.148 µg/L (J)	0.148 µg/L (J)	0.138 µg/L (J)	0.167 µg/L (J)	0.146 µg/L (J)	< 0.108 µg/L
	Copper	8.2 ²	0.323 µg/L (J)	0.218 µg/L (J)	< 0.182 µg/L	< 0.182 µg/L	0.189 µg/L (J)	0.64 µg/L (J)	0.314 µg/L (J)
	Lead	27.5 ²	< 0.0795 µg/L	0.25 µg/L (J)	< 0.0795 µg/L	< 0.0795 µg/L	< 0.0795 µg/L	< 0.0795 µg/L	< 0.0795 µg/L
	Nickel	733.79 ²	0.794 µg/L	0.223 µg/L (J)	0.257 µg/L (J)	0.216 µg/L (J)	2.41 µg/L	2.5 µg/L	3.5 µg/L
	Zinc	59.27 ²	< 1.16 µg/L	< 1.16 µg/L	< 1.16 µg/L	< 1.16 µg/L	6.82 µg/L	9.57 µg/L	10.2 µg/L
EPA625.1	1-Methylnaphthalene	10.0 ¹	NA	NA	< 0.00762 µg/L	< 0.00944 µg/L	< 0.00756 µg/L	< 0.00754 µg/L	< 0.00759 µg/L
	2-Methylnaphthalene	10.0 ¹	NA	NA	< 0.00677 µg/L	< 0.00839 µg/L	< 0.00672 µg/L	< 0.0067 µg/L	< 0.00675 µg/L
	Benz(a)anthracene	NA	NA	NA	< 0.00837 µg/L	< 0.0104 µg/L	< 0.00831 µg/L	< 0.00829 µg/L	< 0.00834 µg/L
	Benzo(a)pyrene	NA	NA	NA	< 0.00796 µg/L	< 0.00986 µg/L	< 0.00789 µg/L	< 0.00787 µg/L	0.0107 µg/L (J)
	Benzo(b)fluoranthene	NA	NA	NA	< 0.00782 µg/L	< 0.00969 µg/L	< 0.00776 µg/L	< 0.00774 µg/L	< 0.00779 µg/L
	Chrysene	NA	NA	NA	< 0.00864 µg/L	< 0.0107 µg/L	< 0.00857 µg/L	< 0.00855 µg/L	< 0.0086 µg/L
	Fluoranthene	6.6 ¹	< 0.0283 µg/L	< 0.0284 µg/L	< 0.0331 µg/L	< 0.041 µg/L	< 0.0328 µg/L	< 0.0327 µg/L	< 0.0329 µg/L
	Fluorene	5.7 ¹	< 0.00441 µg/L	< 0.00442 µg/L	< 0.00515 µg/L	< 0.00638 µg/L	< 0.00511 µg/L	< 0.0051 µg/L	< 0.00513 µg/L
	Naphthalene	NA	NA	NA	< 0.0223 µg/L	< 0.0276 µg/L	< 0.0221 µg/L	< 0.0221 µg/L	< 0.0222 µg/L
	Phenanthrene	16.2 ¹	< 0.00919 µg/L	< 0.00922 µg/L	< 0.0107 µg/L	< 0.0133 µg/L	< 0.0107 µg/L	< 0.0106 µg/L	< 0.0107 µg/L
	Pyrene	5.7 ¹	< 0.0495 µg/L	< 0.0496 µg/L	< 0.0578 µg/L	< 0.0716 µg/L	< 0.0574 µg/L	< 0.0572 µg/L	< 0.0576 µg/L
NWTPH-DX	Diesel Range Organics	250 ¹	< 34.5 µg/L	< 34.7 µg/L	< 34.7 µg/L	< 55.9 µg/L	< 35.5 µg/L	< 35.1 µg/L	< 35.3 µg/L
	Heavy Oil	250 ¹	30.1 µg/L (J)	45.7 µg/L (J)	86.2 µg/L (J)	52.2 µg/L (J)	< 27.1 µg/L	40.7 µg/L (J)	< 26.9 µg/L
	Total Petroleum Hydrocarbons	NA	< 60.9 µg/L	< 61.1 µg/L	86.2 µg/L (J)	< 98.5 µg/L	< 62.6 µg/L	< 61.8 µg/L	< 62.2 µg/L
NWTPH-GX	Gasoline Range Organics	250 ¹	21.8 µg/L (J)	22.2 µg/L (J)	< 21.6 µg/L	< 21.6 µg/L	< 21.6 µg/L	< 21.6 µg/L	< 21.6 µg/L
SW8260D	Benzene	2.0 ¹	< 0.179 µg/L	< 0.179 µg/L	< 0.179 µg/L	< 0.179 µg/L	< 0.179 µg/L	< 0.179 µg/L	< 0.179 µg/L
	Ethylbenzene	2.0 ¹	< 0.143 µg/L	< 0.143 µg/L	< 0.143 µg/L	< 0.143 µg/L	< 0.143 µg/L	< 0.143 µg/L	< 0.143 µg/L
	m,p-Xylene	2.0 ¹	< 0.375 µg/L	< 0.375 µg/L	< 0.375 µg/L	< 0.375 µg/L	< 0.375 µg/L	< 0.375 µg/L	< 0.375 µg/L
	o-Xylene	2.0 ¹	< 0.144 µg/L	< 0.144 µg/L	< 0.144 µg/L	< 0.144 µg/L	< 0.144 µg/L	< 0.144 µg/L	< 0.144 µg/L
	Toluene	2.0 ¹	< 0.346 µg/L	< 0.346 µg/L	< 0.346 µg/L	0.628 µg/L (J)	< 0.346 µg/L	< 0.346 µg/L	< 0.346 µg/L
SW8270ESIM	1-Methylnaphthalene	10.0 ¹	< 0.00652 µg/L	< 0.00654 µg/L	NA	NA	NA	NA	NA
	2-Methylnaphthalene	10.0 ¹	< 0.0058 µg/L	< 0.00582 µg/L	NA	NA	NA	NA	NA
	Benz(a)anthracene	NA	< 0.00716 µg/L	< 0.00719 µg/L	NA	NA	NA	NA	NA
	Benzo(a)pyrene	NA	< 0.00681 µg/L	< 0.00683 µg/L	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	NA	< 0.00669 µg/L	< 0.00672 µg/L	NA	NA	NA	NA	NA
	Chrysene	NA	< 0.00739 µg/L	< 0.00742 µg/L	NA	NA	NA	NA	NA
	Naphthalene	NA	< 0.0191 µg/L	< 0.0192 µg/L	NA	NA	NA	NA	NA

¹ No applicable surface water criterion; value is laboratory quantitation level.

² Acute – Freshwater Toxic Substances Criteria (WAC 173-201A-240). Based on Hardness of 46.0 mg/L for Hardness Dependent Metals. The Indicator Level for hardness dependent metals is expressed as a dissolved metal value. Meeting the Indicator Level using analytical protocol for total or dissolved metal values meets the intent of this order.

³ Indicator Level total chromium is actually for hexavalent chromium using Acute – Freshwater Toxic Substances Criteria (WAC 173-201A-240) because there is no water quality standard for total chromium.

⁴ Applicable surface water criterion does not exist for barium. The indicator level of 1,000 µg/L for barium is based on groundwater quality standards to be protective of human health and the environment.

Laboratory non-detections are reported as less than (“<”) the laboratory method detection limit (MDL).
Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:
D: Dilution was required.
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- Detection
- Non-detection
- Not Analyzed

Appendix K

Waste Management Plan

DOCUMENTATION – COVER SHEET

MP 46 Olympic Pipeline Spill Conway South of Allen Station

Date: 13 December 2023

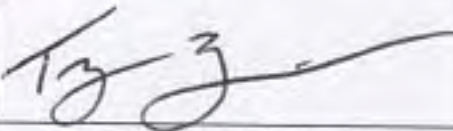
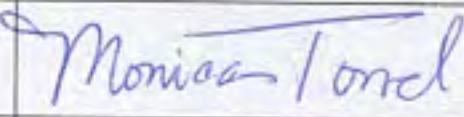
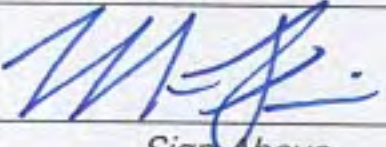
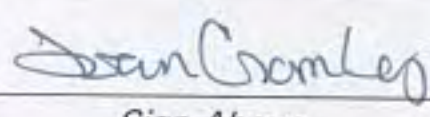
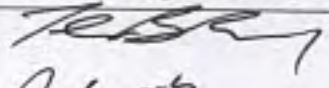
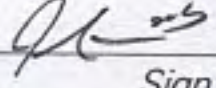
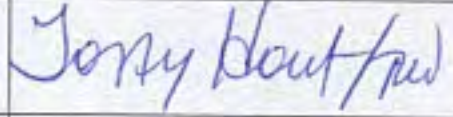
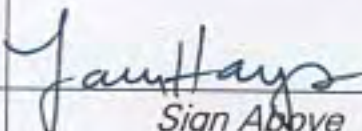
Document Control Name:

Prepared by: Robyn Whiteford

Preparer Role: Documentation Lead

Waste Management Plan

Approvals

Responsible Party / Incident Commander	Terry Zimmerman		12-13-23	1339
	<i>Print Name above</i>	<i>Sign Above</i>	<i>Date</i>	<i>Time</i>
Federal On-Scene Coordinator	Monica Tonel		12/13/2023	1230
	<i>Print Name above</i>	<i>Sign Above</i>	<i>Date</i>	<i>Time</i>
Washington State On-Scene Coordinator	Madeline Fritzen		12/13/2023	1220
	<i>Print Name above</i>	<i>Sign Above</i>	<i>Date</i>	<i>Time</i>
Local On-Scene Coordinator	Julie DeLosada / Joan Cromley		12/13/2023	12:51
	<i>Print Name above</i>	<i>Sign Above</i>	<i>Date</i>	<i>Time</i>
Tribal Coordinator	Shaun Beasley		12-13-23	1311
	Jeff Suleman		12.13.2023	1256
	<i>Print Name above</i>	<i>Sign Above</i>	<i>Date</i>	<i>Time</i>
Section Chief	Tony Hout		12/13/23	13:15
	<i>Print Name above</i>	<i>Sign Above</i>	<i>Date</i>	<i>Time</i>
Unit Leader	Laura Hayes		12/13/23	1156
	<i>Print Name above</i>	<i>Sign Above</i>	<i>Date</i>	<i>Time</i>

Revision Record		
Change Date	Remove	Description of Change(s)
	Insert Page Number(s)	
		This is revision 0. Describe subsequent revisions in this table.



Olympic Pipe Line Company LLC

Olympic Pipeline Gasoline Spill Conway 12/10/23

Waste Management Plan

Document Control:	Date	Description
Document Name & Version Number		
bp U.S. Terminals & Pipelines Waste Management Plan	December 12, 2023	Issued for review

Document Administration:		
Document Owner:	HSE&C	Jennifer Dively, HSE&C Manager

Associated Documents:		
Waste Management Plan Form (See Attachment)	12/12/2023	V1 Issued for review
Waste Management Plan Form (See Attachment)	12/13/2023	V2 Issued for internal review
Waste Management Plan Form (See Attachment)	12/13/2023	V3 Re-issued for review

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This Waste & Recycling Management Plan (plan) is developed in conformance with BP U.S. Terminals & Pipelines (BP US T&P) Waste Management Policy for Olympic Pipe Line Company LLC. The policy supports OMS Element 3.0 and the corresponding Group Practice 3.6-0001 Delivering Sustainable Operating Activities (Management of Carbon, Environmental & Social Performance). The Practice sets requirements to identify, prevent, and mitigate carbon, environmental & social impacts, risks, and promote sustainability opportunities.

1.1 Purpose and objectives

The purpose of this plan is to describe the requirements for Olympic Pipe Line personnel and contractors handling waste collection, storage, and disposal. Waste handling and disposal needs to be conducted in a manner consistent with regulatory requirements and BP's business practices.

The requirements and guidelines in this plan are based on the U.S. Environmental Protection Agency's federal regulations and guidance. State and local regulations may impose additional and more stringent requirements than those under the federal regulations.

Proper waste management is essential to avoid compromising the environment and to minimize waste disposal costs. The best waste management processes are those focused on minimizing the amount of wastes generated and recycling as much material as permissible under the regulations.

Where there is a difference between the requirements stated in this document and a legal requirement, the business should seek to apply the provision which affords greater protection to workers, the community, and the environment.

1.2 Scope and exclusions

This plan describes the waste disposal actions for all wastes generated because of an emergency response.

2.1 Environmental Coordinator

- Support operations in the implementation and management of waste programs at their facilities.
- The subject matter expert on state and local regulations and is assigned the responsibility of overseeing environmental matters for a given area.
- Provides guidance and assistance to the Waste SPOCs and Operational Staff for waste management issues.
- Verifies that waste activities are performed in accordance with federal, state, and local regulations and the BP US T&P Waste Management Policy.
- Makes final determination, in consultation with the BP Waste Subject Matter Expert (SME) on the proper classification of waste materials, reviews waste profiles and signs or authorizes signing of waste profiles.
- Tracks all waste volumes, types, and costs and submits the data to the Waste SME.
- Responsible for submitting regulatory required reporting.

- Prepares and submits proposed deviations to the Waste SME for review.
- Coordinates the Self-Assessment Audits in accordance with the Waste Management Policy.

2.2 Waste Single Point of Contact (SPOC)

- An individual (usually at a facility level) who is assigned the responsibility for waste management, storage, transport, and disposal for one or more fixed facilities, or for a remote worksite, and has received the requisite training.
- The Waste SPOC is selected by the Team Leader of the facility where the wastes are stored, with input from the Environmental Coordinator (EC).

2.3 Project Manager / Operations Section Chief

- The Operations personnel responsible for completion of the response effort.
- Is responsible for ensuring that an individual is identified as responsible for waste issues related to the emergency response. The Project Manager assigns an Onsite Waste Coordinator as necessary.
- The Project Manager also ensures that a written waste management plan is developed for the response. The written plan ensures that:
 1. Wastes streams have been identified.
 2. Ensures projected waste volumes are estimated.
 3. Identifies that proper DOT type containers are used to contain wastes.
 4. Identifies designated waste storage areas.
 5. Ensures that only approved Waste Disposal Contractors are used for managing project wastes.
 6. Ensures that waste documents are filed in a timely manner in accordance with site requirements in project job boxes or are provided to the Site Waste SPOC for filing in local waste files.

2.4 Onsite Waste Coordinator

- Individual assigned the responsibility for ensuring that wastes for a specific project are adequately handled. They are responsible for ensuring that the following tasks have been performed:
 1. Coordinates waste sampling activities as necessary under direction of the sites Environmental Coordinator to ensure that waste have been properly characterized.
 2. Proper containers are used to contain wastes and that they are immediately labeled.
 3. Communicates with site Waste SPOC to establish overall coordination of waste disposal.
 4. Works with approved Waste Disposal Contractor for waste pickups.
 5. Ensures that waste documents are filed in a timely manner in accordance with site requirements in project Job boxes or are provided to the Site Waste SPOC for filing in local waste files.

2.5 Approved Waste Management Contractor

- Provides USPL assurance, through well documented operational controls and systems, that waste storage, transportation, disposal, or treatment is conducted in accordance with applicable local, state and federal regulations.
- Provides waste transportation and disposal or destruction services to Olympic Pipe Line.
- Provides training, upon request, to Olympic Pipe Line personnel.
- Provides each facility or project with identification of waste streams generated and assists with the appropriate, recordkeeping, labeling, and disposal requirements for these wastes.
- Audits and approves waste disposal facilities per BP contract provisions.

- Periodically meets with Environmental Coordinator to formulate continuous improvements in the waste handling program, as needed.
- Provides completed and accurate DOT shipping papers for transport of wastes from Olympic Pipe Line location.
- Provides tracking of waste volumes sent to disposal/recycling facilities and provides quarterly reports of costs associated with transportation and disposal for each Olympic Pipe Line site.
- Follows the BP US T&P Waste Management Policy.

3 WASTE CLASSIFICATION UNDER FEDERAL LAW

The federal definitions of waste types, waste classification criteria, and waste disposal constraints are presented in the RCRA regulations of 1976 (40 CFR Parts 239-258 and 260-280). The primary responsibility to comply with RCRA regulations rests solely with Olympic Pipe Line. While we rely on the use of contractors to manage, transport, and dispose of wastes generated, it is Olympic Pipe Line's responsibility to verify that wastes are properly classified, stored in the proper containers and under the correct conditions, and that the disposal methods and facilities being utilized are appropriate for the waste stream generated by Olympic Pipe Line.

Additionally, waste handling procedures need to be protective of Olympic Pipe Line's future financial liability from the point that the waste leaves the facility to the point of final disposition and beyond. This responsibility includes verifying, at a minimum, how the approved Waste Contractor transports and how well any treatment, storage or disposal facility ("TSD") or recycling facility manages waste streams.

3.1 Waste Determination

Listed below are the categories typically used to classify waste generated as part of Olympic Pipe Line's operations and activities. The classification of wastes must be determined either using laboratory analytical methods for the characteristics listed below, or a generator may rely on knowledge of the material(s) for classification and document in a waste profile document. The use of generator knowledge must be corroborated by historical analytical data or an SDS sheet. The Environmental Coordinator in consultation with the approved Waste Management Contractor shall jointly make this determination by utilizing generic waste stream profiles for milk run or routine waste streams that were pre-established by the Waste SME. This ensures that the profiled waste stream will meet the facility acceptance criteria. In the case of non-routine waste stream generation, the Team Leader may also sign off on waste stream profiles after consultation with the Environmental Coordinator and Waste Management Contractor. A record of this communication should be retained in the sites waste profile folders.

The number of samples collected and the frequency of sample collection for waste determination are dependent upon the waste stream being classified. Wastes that are routinely generated under similar conditions (i.e., absorbent pads, filter elements, etc.) require less frequent analytical testing than do wastes that are generated infrequently and under dissimilar conditions (i.e., pipe replacement, sandblast materials, soil removal, tank cleaning, tank bottoms etc.)

Waste stream analysis should be made by consulting with analytical chemists at BPs vetted laboratories and by referring to the EPA's publication SW-846, entitled Test Methods for Evaluating Solid Waste, Physical/Chemical Methods; this is EPA's official compendium of analytical and sampling methods that have been evaluated and approved for use in complying with the RCRA regulations. SW-846 functions primarily as a guidance document setting forth acceptable, although

not required, methods for the regulated and regulatory communities to use in responding to RCRA-related sampling and analysis requirements.

Waste Profiles shall also address the Land Disposal Restriction requirements that may be applicable to generators per 40 CFR 268.7(a). This is done by determining if the hazardous waste meets the treatment standards in § 268.40, 268.45, or § 268.49 and the determination is documented during the waste profiling process.

Finally, routine-recurring wastes shall be characterized on an as needed basis, to confirm waste classification used in profiling waste streams.

4 WASTE HANDLING, STORAGE AND LABELING

Waste material shall be placed in either the Designated Waste Storage Areas or a Satellite Accumulation Area. A Waste Single Point of Contact (SPOC) shall be assigned to implement the waste management procedures outlined in this section of the plan. While in storage, the waste material shall be characterized and stored according to timeline outlined in this section of the plan. If the classification of a material is unknown the material must be handled as hazardous until analytical data is obtained, and waste classification can be made by the Environmental Coordinator supporting the site.

The following waste handling and labeling procedures shall be implemented at the emergency response location. Individual states and local regulatory bodies may have additional or alternative requirements that must be followed. The state and local regulations shall be investigated and any conflicting interpretation or requirements from this document shall be documented, maintained at the facility level, and filed with the Waste SME for review and approval. As necessary, BP Legal should be consulted on regulatory interpretations.

4.1 Establish a Designated Waste Storage Area

The Designated Waste Storage Area (DWSA) is the official storage location for all waste that is awaiting transportation offsite. The DWSA shall store waste for a period of no greater than 90 days. The DWSA shall be protected from the weather, have proper signage, and have appropriate secondary containment structures. It may also be important to have the DWSA readily accessible for trucks. Periodic overflow DWSA sites may need to be designated to address management of short-term drum storage when the normal DWSA location capacity is temporarily exceeded.

The following waste handling practices shall be implemented at each DWSA site in all cases. The DWSA location shall also be identified in the site plan for the site, if applicable.

Affix proper signage at waste storage areas. A sign shall be present in the DWSA designating it as such. Include the following:

- Emergency contact information: the emergency contact sign must identify, at a minimum, the facility SPOC and that person's contact number. It is also recommended that a secondary contact name and number be provided.
- Segregate wastes by the following types:
 1. Hazardous
 2. Non-hazardous
 3. Universal

4. Non-RCRA regulated
5. Used oil
6. Other, as applicable

Note: Use best practices to segregate unused material from used or spent materials.

- A working eyewash station, fire suppression device, and two-way communication device shall be available onsite to individuals who are working in and near the DWSA.
- Do not mix different waste types together in the same container.
- Place wastes in the proper DOT container(s) per 49 CFR 172 within the DWSA. Open top lids should be used for non-liquids waste and closed top lid with bung holes for liquid wastes. For hazardous materials containers shall be "UN rated" (the designation signifying that they meet international regulations for shipping hazardous materials) and compatible for the materials they are holding. All components of a drum unit, such as the lid and ring, shall be used.
- Containers holding ignitable or reactive wastes must be located at least 15 meters (50 feet) from the facility's property line.
- Should not stack drums higher than two high and should keep an appropriate walkway between rows of palletted drums.
- Place both a HAZCOM/shipping label and waste label on the side wall of the container. Fill the label out completely indicating the waste type and date when container was placed in storage area. The current date must be placed on the labels of all containers upon placement within the DWSA. Except for Universal Waste, all items placed within the DWSA shall be removed from the site within 90 days of the date they are placed within the DWSA regardless of a site's waste generator status. During emergency response activities, every effort should be made to remove wastes in an expedient manner. Ensure that the labels remain visible when stacking drums on pallets and when stacking pallets.
- Universal waste shall be stored at BP fixed facility and must be removed from the facility within one year of the date that waste was first placed into the container.
- Do not store incompatible wastes at the same location. Appendix V in 40 CFR 264 and 265 provides a list of potentially incompatible wastes.
- When possible, shelter containers from exposure to weather conditions to prevent damage to containers.
- All liquid wastes shall be provided with a secondary containment system that is in good condition and has sufficient capacity to contain a release. The base must be free of cracks or gaps and must be sufficiently impervious to contain leaks or spills.
- Sites shall keep container closed with lids secured when there is no longer need to add waste.

4.2 Satellite Accumulation Areas

To provide some relief while accumulating hazardous waste materials during normal operations, generators are allowed to utilize Satellite Accumulation Areas (SAA), which have fewer requirements than wastes in the Olympic Pipe Line's 90-day designated waste storage areas. Waste collection areas being used as Satellite Accumulation Areas must meet the following criteria:

- The waste container is located at or near the point of generation.
- The waste container is under the control of the operator of the process generating the waste.
- The waste container is closed except when adding or removing wastes to the container.
- A container storing hazardous waste must be labeled as "hazardous waste;" All other wastes must be labeled or marked indicating the contents.
- No more than 55 gallons of the same type of hazardous waste or 1 quart of acutely hazardous waste are accumulated in the SAA at any time.

- Containers are allowed to remain in the SAA until the 55-gallon volume with the same type of waste is full. The container must then be closed, and marked with the date it is closed. Within 3 business days, the container must be moved to the 90-day DWSA.

4.3 Storage of Bulk Containers

Waste containers over 55 gallons, due to their size, will not be able to be stored within a DWSA or a SAA. These containers include, but are not limited to, roll-offs used for solids or frac tanks for liquids and slurries. These waste containers may be stored in a different area of the site. All bulk containers shall be labeled in accordance with EPA and DOT regulations and inspected weekly.

- It is important to note that roll offs cannot be transported with standing liquids present.
- The regulatory status of frac tanks depends on their use. Frac tanks used as wastewater treatment units (WWTUs) are regulated under the permit by rule provision thus are not subject to RCRA. Frac tanks storing products or intermediate process streams returned to the process after turnarounds are not wastes and are not subject to RCRA. B. This bulk waste container location should also be identified in a sites site plan.

4.4 Hazardous Waste Labeling

General labeling requirements for hazardous waste containers include the following:

- Use a "HAZARDOUS WASTE" label on containers (drums, 5-gallon buckets, etc.). Use pre-printed labels or complete with a grease pen, stencil, etc.
- Identify waste stream on the container or label (e.g., oil-soaked absorbents, etc.). Refer to waste labeling guidance for specific waste stream labeling and shipping information.
- Date the container, when full.
- Dispose of the full container within 90 days of placing it in the DWSA. During an emergency response, every effort will be made to expedite disposal.

4.5 Universal Waste Labeling

Universal wastes are stored in designated areas inside a Olympic Pipe Line fixed facility only and transported to approved reclamation or recycling facilities. The volume of universal wastes does not impact the hazardous waste volume, if properly managed. Universal wastes can be accumulated on-site for one year before removal is required.

Exemption: One exception to this requirement is lead-acid batteries removed by the local battery supplier

General labeling requirements for Universal waste containers include the following:

- Ensure that the label "UNIVERSAL WASTE" is on the container. The marking does not need to be a pre-printed label; it can be made by stencil or other indelible marking.
- Identify the waste stream (e.g., fluorescent bulbs).
- Include the first date that wastes were put into the container. The waste must be transported off-site within one year of that date.
- Refer to waste labeling guidance for specific waste stream labeling and shipping information.

4.6 Non-RCRA Waste Labeling

Non-regulated wastes shall be stored, managed, and disposed of appropriately. As identified in this plan, Olympic Pipe Line requires that all handling, storage, and disposal procedures follow the requirements of hazardous wastes. Information regarding non-regulated industrial waste disposal should be documented, including volumes, transporters, and approved disposal facilities.

4.7 Non-RCRA Waste Labeling

The assigned Waste SPOC shall inspect each DWSA, overflow DWSA or satellite accumulation area on a weekly basis.

An inspection log shall be maintained by the Waste SPOC. This log shall include the date and time of the inspection, the name of the inspector, observations made, and the date and nature of any repairs or corrective actions. These records must be kept for a minimum of three years from the date of inspection. The use of MAXIMO work orders shall satisfy this requirement. Weekly inspections shall ensure the requirements and conditions listed below are maintained.

- Inspection shall confirm that containers are in good condition with no leaks.
- Inspection shall confirm that all containers have proper labels that are not sun damaged and are legible.
- Inspection shall confirm that containers are closed and secured.
- Inspection shall confirm that the secondary containment is in good condition.
- Corrective actions shall be made in a timely manner.

5 WASTE SHIPPING

All wastes being removed from Olympic Pipe Line locations will follow all applicable EPA and DOT requirements per 49 CFR 172, 173, 178, and 179. Olympic Pipe Line shall only use vetted waste contractors. For shipping purposes, wastes are all materials leaving a location and being transported to a facility for reclamation, recycling, disposal, destruction, or other type of treatment. Only approved waste contractors shall be used to transport all wastes.

- Prior to shipment, the waste must be properly classified, packaged, labeled, marked, and placarded in accordance with DOT regulations.
- All waste shipments must be accompanied by an applicable set of shipping documents, such as bill-of-lading for off-specification product or materials-of-trade, non-hazardous waste manifests for non-hazardous wastes, hazardous waste manifests for hazardous wastes, land disposal restrictions if required, etc.
- Waste SPOCs or other trained BP employees shall be the only individuals signing all shipping documents.
- A copy of all shipping documents shall be retained by the SPOC and maintained in accordance with the local Document Control Procedure. The SPOC must ensure that the disposal facility returns a signed copy of the manifest within 35 days, or contacts the disposal facility to request a copy. If a copy has not been received within 45 days, the SPOC shall immediately notify the Environmental Coordinator. The Environmental Coordinator shall file an exception report with the Regional USEPA.

- The Onsite Waste Coordinator shall work through the Waste SPOC and/or Environmental Coordinator for coordination of waste shipping issues.).

6 TRAINING

There are two training programs in Olympic Pipe Line as required in BP US T&P's Waste Management Policy. One is general awareness training for the staff; the other is specialized training for the Waste SPOCs.

6.1 Olympic Pipe Line General Training

Employees should be trained in a manner such that they are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies. Everyone in USPL who has any interaction with wastes shall complete initial training on the basic RCRA course. This course can be provided through the EC, MT&L, or the Waste Contractor. This course shall include, at a minimum:

- Overview of the RCRA regulations
- Update to changes within RCRA
- BP US T&P Waste Management Policy Overview
 1. Waste identification process
 2. Waste segregation, storage, and labeling
- Emergency Response Training
 1. Emergency response training required under Occupational Safety and Health Administration (OSHA) regulations 29 CFR 1910.120(p)(8) and 1910.120(q)
 2. Inspection and use of emergency response equipment
 3. Communication procedures
 4. Response to Fire and explosions
 5. Shutdown of operations
- For Olympic Pipe Line facilities that are also Large Quantity Generator sites, training on the elements listed above shall be conducted annually to satisfy the requirements of 40 CFR 265.16. This course can be provided through the EC, MT&L, or the Waste Contractor.
- Initial training shall occur within six months of new assignments. Employees shall not work in unsupervised positions until they have completed the training requirements.

6.2 Waste Management SPOC Training

US Olympic Pipe Line SPOCs shall have above listed training and have the following additional training at least every three years:

1. More in depth training on RCRA and Universal Waste Regulations as well as applicable state and local requirements.
2. Waste classification, labeling, transportation, and disposal requirements
3. Land disposal restrictions for specified chemicals
4. Waste container management
5. Establishment and maintenance of designated waste storage locations
6. Weekly waste storage inspections, completion of documents, and maintaining files
7. Waste Contractor procedure and scheduled pick-ups. Reconciliation of waste data discrepancies, volumes, types, disposal facilities, etc.
8. Completion and maintenance of manifest or other shipping documents per 49 CFR 172. Review of Manifest certification and signatory requirements.
9. Ensuring that copies of all shipping documents are returned or acknowledged by receiving entity and filed accordingly
10. Record retention for all waste related files including any locally maintained Waste Stream Guide Books provided by the Waste Contractor.
11. Reporting procedures for all discrepancies/errors to Supervisor and Area Environmental Coordinator.

7 SELF-ASSESSMENT

As part of the US T&P Waste Management Policy, periodic self-assessments must be completed to assess the effective implementation of the requirements of the Olympic Pipe Line Waste Management Program. Self-assessments will be completed for locations that are large quantity using the Waste Management Audit Checklist found in Appendix II, or equivalent. Compliance tasks for completing self-assessments will be assigned in CTM to the Environmental Coordinator for the region as appropriate. Completed checklists will be retained for a period of three years.

APPENDIX I

Waste Management Plan

See attachment

APPENDIX II

Self-Assessment – Waste Management Audit Checklist

WASTE MANAGEMENT AUDIT CHECKLIST

The checklist is intended to provide the Environmental Coordinator, or designee, a means of assessing a Facility's regulatory compliance with EPA, state/local environmental agency, and BP USPL's Waste Management requirements. This form must be completed annually (for LQGs) and every three years (for SQGs and VSQGs) as part of the Annual Facility Waste Management Audit CTM Task. Place a (x) in Yes, No or N/A for each line item.

Name _____

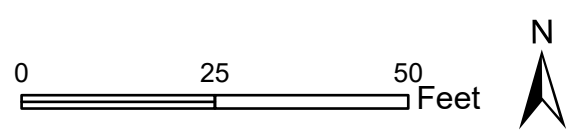
Date _____

YES	NO	N/A	WASTE MANAGEMENT AUDIT	COMMENTS
			Waste Management – General Compliance:	
			Current generator status of the Facility _____	
			Facility generator ID number on file is: _____	
			Hazardous and Non-hazardous wastes are disposed of only at BP Approved Sites or Heritage Approved Sites.	
			Waste SPOC is named and familiar with the expectations of their role.	
			For the following items, a review of weekly waste inspection forms or Tour Watch documentation for the preceding year must be completed and all deficiencies noted:	
			Waste is stored securely in appropriate containers.	
			Waste container labels are completely and clearly marked/labeled and visible. Accumulation start date is identified Material is identified as solid or liquid waste (or other items per state regs as necessary)	
			All containers are inspected weekly for leaks, corrosion, and other deterioration.	
			Appropriate actions taken for any deficiencies noted.	
			The facility uses a manifest tracking system. (Review representative sample of manifests: 5 manifests for the year or 10% of the total for the year, whichever is greater)	
			Only trained individuals sign-off on hazardous waste manifests.	
			All fields on manifests filled out completely and accurately (Note: Review line items on the manifest such as proper Emergency Response Services Phone Number entry, ensure waste code(s) entered are consistent with the TSD waste profile, ensure appropriate DOT Proper Shipping Name and Hazard Class is entered, all signatory lines are completed, proper container codes are entered, etc.)	
			All manifests were returned from the disposal company within 45 days. If not, proper exception reporting notifications were followed and documented.	
			All manifests, Land Disposal Restrictions, waste profiles, and laboratory data from testing of waste are retained on file and are easily accessible. NOTE: Verify that EPIC non-routine project waste data is also in facility waste files.	
			Facility Waste SPOC Manual is current with profiles/sample labels of routine waste streams for the site and has been reviewed within the last year.	

YES	NO	N/A	STE MANAGEMENT AUDIT	COMMENTS
			Facility Hazardous Waste Contingency Planning requirements are current and have been reviewed within the last year. (Note: These are often contained in the facility SPCC Plan).	
			The facility has a waste minimization plan or pollution prevention plan in place, if required.	
			Job descriptions with respect to hazardous waste management on file.	
			Wastes currently stored on site? For the following items, a thorough inspection of the waste storage area(s) must be completed for verification:	
			Satellite accumulation containers are labeled and start dates noted only after container is full. If the facility takes advantage of satellite accumulation area(s), verify the initial accumulation point is at or near the area where waste is actually generated and under control of the operator (such as a garage, maintenance shop).	
			Weekly inspections of the central waste storage area are conducted and documented.	
			Full satellite containers marked with date of closure are moved to the central waste storage area within 3 days of the container becoming full.	
			Each container is marked with accumulation start date, only after the container is full or when placed in the central waste storage area.	
			<u>Universal Waste marking/labeling.</u> UWs are marked/labeled as required by 40 CFR 273.14 or state/local requirements. Examples include "Waste Battery(ies)," or "Universal Waste--Battery(ies)," "Universal Waste--Lamp(s)," or "Waste Lamp(s)," or "Used Lamp(s)," or "Universal Waste-Mercury Thermostat(s)" or "Waste Mercury Thermostat(s)", etc. NOTE: UW can be marked on each individual device or the outer container holding multiple devices. Accumulation start dates may be marked on the device, the container, or an inventory log and the container must be labeled with the earliest date that any UW was place into it.	
			Aisle space in the central waste storage area is sufficient for unobstructed movement of waste containers, personnel and emergency equipment (generally 3 feet of clearance).	
			All full hazardous waste containers in the central waste storage area are within 90 day accumulation time.	
			Universal waste is not accumulated for longer than one year from the date the universal waste was generated.	
			Each container used must be "UN rated" (the designation signifying that they meet international regulations for shipping hazardous materials) and rated for the materials they are holding.	
			Each container is labeled with the words "Hazardous Waste", unless known otherwise. Accumulation start date is clearly identified Other relevant information is completed	
			Each container is in good condition and free of leaks (no bulging, denting, damaged or rusting)	
			Each container is kept closed during storage, except during the transfer of waste.	

YES	NO	N/A	STE MANAGEMENT AUDIT	COMMENTS
			Each container is in a secure location where it is not likely to be damaged.	
			Waste is sheltered from exposure to weather conditions to prevent damage to containers.	
			Proper signage and placarding affixed at central waste storage area, to include:	
			Identification of the waste storage area.	
			Emergency contact information.	
			Contact board that identifies the facility's Waste SPOC by name and phone number along with a secondary individual contact.	
			No Smoking Signs.	
			Incompatible wastes, or incompatible wastes and materials must not be placed in the same container for storage purposes. Further, hazardous waste cannot be placed in an unwashed container that previously held an incompatible waste or material.	
			Incompatible hazardous wastes and hazardous wastes incompatible with nearby materials must be separated or protected from each other by means of a dike, berm, wall, or separated by sufficient distance.	
			Adequate secondary containment is in place for the waste storage area(s) and for individual containers that might be outside of the storage pad (e.g. impervious flooring, curbing, portable containment devices).	
			Areas where ignitable or reactive wastes are stored are located at least 50 feet from the facility property line.	
			Emergency equipment is required to be available within close proximity at each accumulation area:	
			Internal communications or alarm Telephone or two-way radio Portable fire extinguisher(s) Fire control equipment Spill control equipment Decontamination equipment Working eyewash station	
			Annual or biennial waste reports are completed and on file. All waste permits/fees are current.	
			Waste Management Training delivery is completed for all applicable persons.	
			Annual RCRA Training for all personnel who have any interaction with waste.	
			Facility Waste SPOC Roles & Responsibilities Training for applicable personnel.	
			Universal Wastes	
			Universal Waste management. UW is managed in a way that prevents breakage or release to the environment. Commingling of items within a category (i.e. batteries) is allowed. Containers are closed, structurally sound and compatible with the contents if breakage occurs.	
			Universal Waste paperwork. Records of each shipment are kept on-site. Records may be in the form of bills of lading, a logbook, invoice or manifest. Records include date, quantity, type of UW, and to whom it was shipped.	

YES	NO	N/A	STE MANAGEMENT AUDIT	COMMENTS
			Records of Used Oil shipments retained and are Used Oil Tank Inspections on file consistent and frequency consistent with state/federal regulations	
			Are all daily use containers marked with instruction to "empty daily"	
			All universal waste has a start date less than 1 year old	



 Soil Sampling Location