ATLAS GEOSCIENCES NW

February 13, 2025
Project No. 02-0019-D

Mr. Victor Singh
901 West 1st Street
Cle Elum, WA

singhvictor69@yahoo.com

Subject: July and October 2024 Groundwater Monitoring Report
Former Special Interest Auto Wrecking
25923 78th Avenue South
Kent, Washington
Facility Site ID No. 58738426

Dear Mr. Singh:

Atlas Geosciences NW (Atlas) is pleased to provide you (the Client) with this letter report presenting the findings of two quarterly groundwater monitoring events in 2024 at the above referenced property (the Subject Property). The Subject Property is located at 25923 78th Avenue South in Kent, Washington (King County parcel number 0004400015) and consists of an approximately 3.93-acre trucking yard improved with a 576-square-foot modular office, a 1,728-square-foot shop building, and a 360-square-foot former automobile dismantling building with associated paved and unpaved areas. Atlas understands that the Client owns the Subject Property, the location of which relative to the surrounding area is shown on Figure 1.

1.0 BACKGROUND

The Subject Property was formerly occupied by automotive wrecking facilities for approximately 51 years (from at least 1970 until 2021) and has been occupied by a trucking yard since 2021. Several previous environmental investigations between 1991 and 2000 identified total petroleum hydrocarbons (TPH) and lead above the current Model Toxics Control Act (MTCA) Method A soil cleanup level for unrestricted land use (Method A). The Washington Department of Ecology (Ecology) placed the Subject Property on the Confirmed and Suspected Contaminated Sites List (CSCSL) in 1997, as *Green River Auto Wrecking* under Facility Site ID #58738426, based primarily on the use of the Subject Property at that time as an auto wrecking yard. Public Health – Seattle and King County (PHSKC), acting on behalf of Ecology, conducted an evaluation and determined no further action (NFA) was required at the Subject Property, as stated in a letter from PHSKC dated January 21, 2000 and a report from the Environmental Council

of South Seattle dated March 10, 2000. However, the Subject Property remains on the CSCSL, regardless, due to an apparent administrative oversight.

Between 2021 and 2023, additional subsurface investigations identified two areas of environmental concern: an area east of the shop building (northern excavation) and an area south of the shop building (southern excavation). Contaminants of concern in soils were identified as oil-range TPH, arsenic, cadmium, and lead at the northern excavation, and arsenic and lead at the southern excavation.

Indications of adverse effects to groundwater from historical activities on the Subject Property were not identified in groundwater grab samples collected during previous investigations, except for elevated concentrations of total arsenic, cadmium, chromium, and lead in groundwater grab samples collected from temporary borings. High turbidity was observed in the groundwater recovered during the previous investigations, and the detected metal concentrations were significantly reduced in filtered groundwater samples subsequently collected from the same locations by Atlas. Turbidity values obtained during this groundwater monitoring event are discussed in Section 4.2.

In August of 2023, Atlas oversaw remediation of contaminated soil east of the shop building and south of the shop building by direct removal in two remedial excavations: the northern remedial excavation and the southern remedial excavation, respectively, depicted on Figure 2. Diesel and oil-range-TPH, arsenic, cadmium, and lead in both the northern and southern remedial excavation extents were either not detected above the minimum laboratory detection limits or were compliant with MCTA Method A cleanup levels. In November of 2023, four groundwater monitoring wells were installed at the Subject Property at locations depicted on Figure 2. Two quarterly groundwater monitoring events were completed in November of 2023 and March of 2024, and analytical results were compliant with MCTA Method A cleanup levels. A summary of these findings is presented in the *Cleanup Action and Groundwater Assessment* prepared by Atlas, dated June 20, 2024.

Pursuant to Client request, Atlas has performed two additional quarterly groundwater monitoring events to evaluate for potential changes in groundwater conditions and assess for continued compliance following the soil remediation activities completed in August of 2023.

2.0 SELECTED REGULATORY CLEANUP LEVELS

Analytical results in these quarterly groundwater monitoring events were compared to the requirements of the MTCA Method A cleanup levels for groundwater as specified in Chapter 173-340 Washington State Administrative Code (WAC), Table 720-1.

3.0 QUARTERLY GROUNDWATER MONITORING

On July 31, 2024 and October 31, 2024, Atlas collected groundwater samples from groundwater monitoring wells MW-1 through MW-4 located on the Subject Property. The groundwater monitoring wells are located in the footprints of the southern and northern remedial excavations (MW-1 and MW-2, respectively), and in the inferred downgradient direction of groundwater flow from the remedial excavations (MW-3 and MW-4).

3.1 Monitoring Well Gauging and Sampling

The wells were sampled using the low-flow (minimal drawdown) method and the following procedures at each well:

- Each groundwater monitoring well cover was opened, and the static water level was allowed to equilibrate.
- The groundwater level in each well was measured using a water level indicator.
- Groundwater was purged using a dedicated plastic tube extending from the well to a peristaltic pump. Groundwater quality parameters including temperature, electrical conductivity (EC), pH, turbidity, dissolved oxygen (DO), and/or oxidation-reduction potential (ORP) were measured at regular intervals using a flow-through cell. Purging at the well was considered complete when three consecutive readings for temperature, EC, pH, turbidity, DO, and ORP were observed within the applicable, acceptable range for each parameter in accordance with the method. The groundwater parameters measured during purging, flow rates, and instrument calibrations were documented in the field.
- Following the purging activities, the dedicated tubing was disconnected from the flow-through cell while maintaining a constant flow rate and a groundwater sample was then collected directly from the well for laboratory analysis.

3.2 Groundwater Sample Management

Groundwater samples collected for chemical analysis were placed in appropriate sample containers supplied by Washington state-approved laboratories subcontracted to Atlas. Each container was labeled with the project number, Subject Property name, date, time, sample number, and sampling personnel. Soil sample containers were placed in a chilled cooler immediately after sampling and subsequently transported to a Washington-accredited analytical laboratory via courier under strict chain-of-custody procedures.

3.3 Groundwater Laboratory Analysis

The groundwater samples were analyzed for one or more of the following compounds:

- Diesel- and oil-range TPH using test method NWTPH-Dx; and
- Total and dissolved arsenic, cadmium, and lead using test method 200.8.

The groundwater analytical results are discussed in Section 4.2 below.

4.0 GROUNDWATER MONITORING RESULTS

4.1 Groundwater Monitoring Observations

Depth to groundwater was measured between 20.96 and 22.44 feet below the top of casing (btoc) in groundwater monitoring wells at the Subject Property at the start of the July 2024 groundwater monitoring event and between 20.05 and 21.59 feet btoc at the start of the October 2024 groundwater monitoring event. Based on established well elevations and depths to groundwater in the wells, it was determined that groundwater flow direction was generally to the northeast during the July groundwater monitoring event and to the north and northwest during the October groundwater monitoring event. The groundwater elevations at each monitoring well, and the measured groundwater flow direction during the July and October groundwater monitoring events are shown on Figures 3 and 4, respectively. Groundwater elevation measurements are shown in Table 2.

4.2 Laboratory Analytical Results

The groundwater analytical results are summarized in Table 1: Groundwater Sample Analytical Results and the laboratory analytical reports and sample chain-of-custody forms are included in Appendix A.

Diesel-range TPH was detected in the groundwater sample collected from groundwater monitoring well MW-2 in July 2024 at a concentration of 210 micrograms per liter (µg/L), which is less than the applicable Method A groundwater cleanup level, currently published at 500 µg/L. Diesel-range TPH or oil-range TPH was not detected above the minimum laboratory detection limits in the remaining groundwater samples collected at the Subject Property in July or October 2024. While diesel-range TPH has been detected previously in groundwater sampled from MW-2 in November 2023, review of chromatogram data provided by the project laboratory indicated that the diesel-range TPH and oil-range TPH were separate petroleum products (both being utilized on the Subject Property) and are, therefore, evaluated individually against their respective MTCA Method A cleanup levels. Diesel-range TPH was not detected in soil samples during previous investigations and has not previously been detected above the MTCA Method A cleanup level in groundwater; therefore, is not considered a contaminant of concern.

Total arsenic was detected at a concentration of 8.6 µg/L in MW-2 in July 2024, which is above the applicable Method A groundwater cleanup level. Dissolved arsenic was not detected in MW-2. In the remaining wells, total and dissolved arsenic was not detected, or was detected at concentrations below the applicable Method A groundwater cleanup level. Cadmium and lead were not detected in groundwater samples collected from the Subject Property in July or October 2024.

Groundwater recovered initially from MW-2 was visibly turbid and exhibited turbidity values ranging from 2,322 to 5,451 nephelometric turbidity units (NTUs) at the start of purging in July 2023. The groundwater recovered following purging was visibly less turbid;

however, the final turbidity reading was elevated at 1,203 NTUs. Turbid groundwater samples used for total metals analysis may result in metals results that are artificially inflated and, therefore, the filtered sample for dissolved metals is representative of arsenic conditions in groundwater. As discussed above, dissolved arsenic was not detected in MW-2 in July 2024. Groundwater recovered from MW-2 in October 2024 was not visibly turbid and the final turbidity reading was 122.17 NTUs. Neither total nor dissolved arsenic was detected in MW-2 in October 2024.

4.3 Quality Assurance/Quality Control Results

The analytical results for the current investigation were checked for completeness immediately upon receipt from the laboratory to ensure that data and quality assurance/quality control (QA/QC) information requested were present. Data quality was assessed by considering hold times, surrogate recovery, method blanks, matrix spike and matrix spike duplicate (MS/MSD) recovery, laboratory control sample and laboratory control sample duplicate (LCS/LCSD) spike recovery, and detection limits. Our evaluation assumes that the QA/QC is correct as reported by the laboratory, and merely provides an interpretation of the QA/QC results.

Hold Times. All analyses were completed within specified hold times.

Surrogate Recoveries. All surrogate recoveries were within laboratory limits.

Method Blanks. Analytes were not detected in the laboratory method blanks.

MS/MSD Results. MS and MSD recoveries were all within laboratory limits, and Relative Percent Differences (RPDs) between MS and MSD recoveries were all within laboratory limits.

LCS/LCSD Results. LCS and LCSD spike recoveries were all within laboratory limits.

Laboratory Reporting Limits. Reporting limits for the groundwater analytical results were below relevant MTCA cleanup levels.

Based upon our interpretation of quality control information provided by the laboratory, it is our opinion that the overall dataset is useable as qualified for the purposes of this Quarterly Groundwater Monitoring Report.

5.0 WASTE MANAGEMENT

Purge water and equipment cleaning water generated during the field activities were placed into an on-site Department of Transportation (DOT)-approved, 55-gallon steel drum, which was left on-site for subsequent characterization and disposal. Disposal of drummed material is not included in this scope of work. Based on the results of the investigation, the contents of the drum require special handling. Atlas can assist with the disposal of the water drum if desired.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Two quarterly groundwater monitoring events were conducted to assess for continued compliance of groundwater conditions after soil remediation activities had been performed at the Subject Property. Based on the findings of these sampling events, Atlas concludes the following:

- The measured groundwater flow direction at the Subject Property is generally to the north, ranging from northeast to northwest.

- The groundwater sample analytical results did not indicate an adverse groundwater condition at the Subject Property. Groundwater appears to be compliant with the MCTA regulation.

- The groundwater monitoring results over time indicate that the Subject Property groundwater has been in compliance with MTCA Method A cleanup levels for four consecutive quarters (November of 2023, March of 2024, July of 2024, and October 2024).

Based on the NFA determination previously issued by PHSKC, on Ecology's behalf, the findings of the previous compliance soil and groundwater sampling following this remediation effort, and the data presented in this report, Atlas requests that a no further action determination be granted by Ecology for the Subject Property.

7.0 LIMITATIONS AND EXCEPTIONS

These groundwater monitoring activities are intended to reduce, but not eliminate, uncertainty regarding the potential for adversely affected media in connection with the Subject Property. In addition, performance of these activities does not eliminate uncertainty regarding Subject Property hazards not covered by the scope of work or the potential for future identification of adversely affected media at the Subject Property.

The findings, conclusions, and/or recommendations of these activities are based strictly on information available, and conditions observed, at the time of this assessment. Subsequent changes to Subject Property conditions, such as Subject Property redevelopment or changes to ground cover, or changes in applicable regulatory requirements have the potential to materially affect the conclusions and/or recommendations of this report. If any such changes are apparent, the Client should contact Atlas about reevaluating the findings of this investigation to incorporate the new information. The conclusions and/or recommendations are not to be construed as legal interpretation or advice. No warranties, express or implied, are intended or made herein.

8.0 CLOSURE

This report was prepared for the exclusive use of the Client, and its agents for specific application to the Subject Property and is subject to the agreed-upon terms and conditions included in our proposal for this scope of work. Atlas personnel performed this assessment in accordance with generally accepted standards of care that existed in the State of Washington at the time of this study. Our findings and conclusions have been prepared in accordance with generally accepted professional practice in the area at this time. Atlas make no other warranty, either express or implied.

Atlas appreciates this opportunity to provide these services. Please do not hesitate to call if you have any questions.

Sincerely,
ATLAS GEOSCIENCES NW

Christopher Smith, G.I.T.
Project Geologist

FOR

Lannie Smith, CHMM
Principal Environmental Scientist

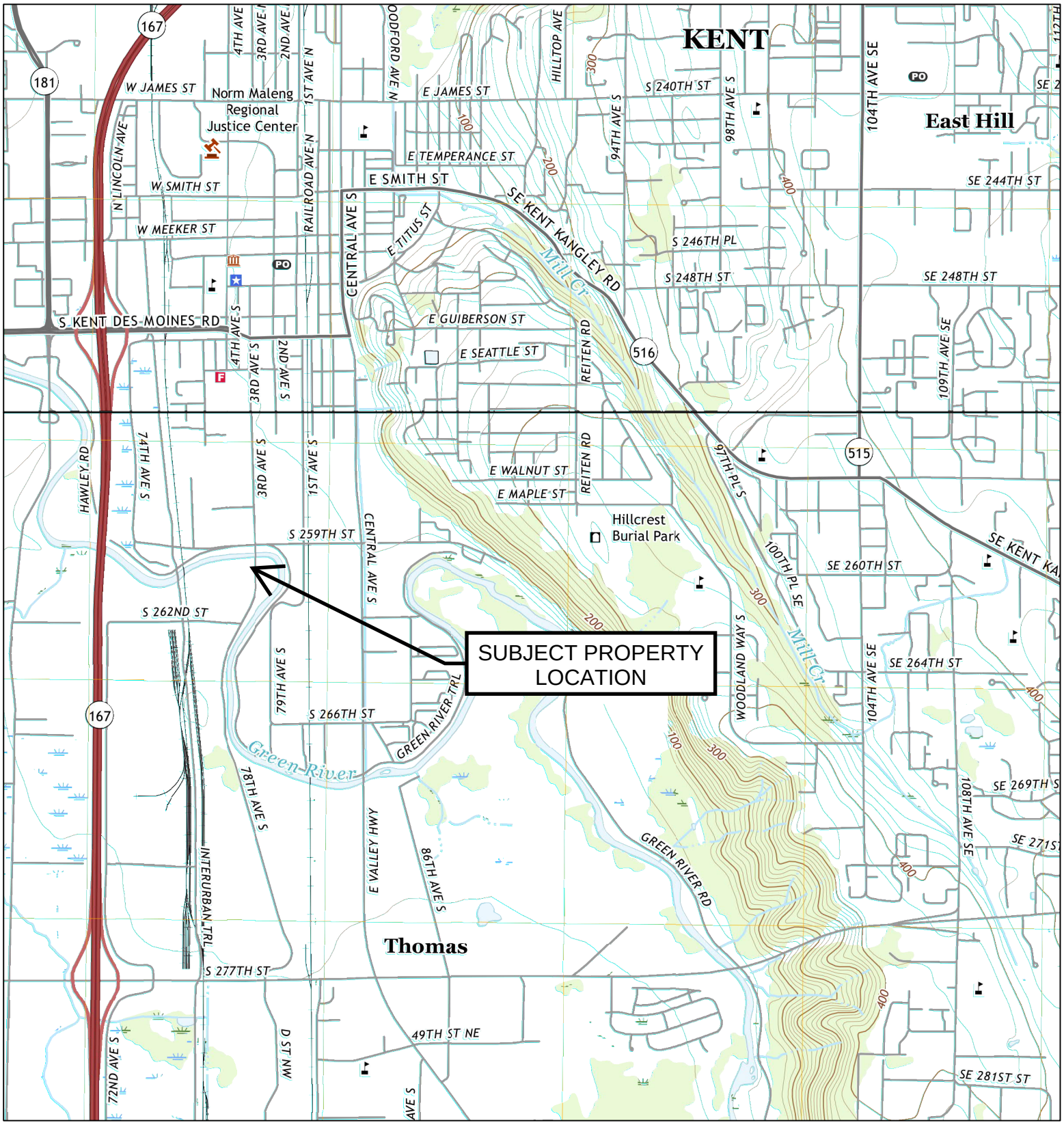
State of Washington
2155
Licensed Geologist
MEGAN E. POYSNICK

Megan Poysnick, L.G.
Manager of Environmental Services

Attachments:

	Figure 1:	Subject Property Vicinity Map
	Figure 2:	Subject Property Plan
	Figure 3:	Groundwater Elevations – July 2024
	Figure 4:	Groundwater Elevations – October 2024
	Table 1:	Groundwater Sample Analytical Results
	Table 2:	Groundwater Elevation Measurements and Well Construction Data
	Appendix A:	Laboratory Analytical Reports and Sample Chain-of-Custody Forms

FIGURES



BASEMAP TAKEN FROM AUBURN AND RENTON QUADRANGLES (2020), WASHINGTON-KING COUNTY 7.5-MINUTE SERIES

ATLAS GEOSCIENCES NW
P.O. BOX 1009
SUMNER, WA 98390

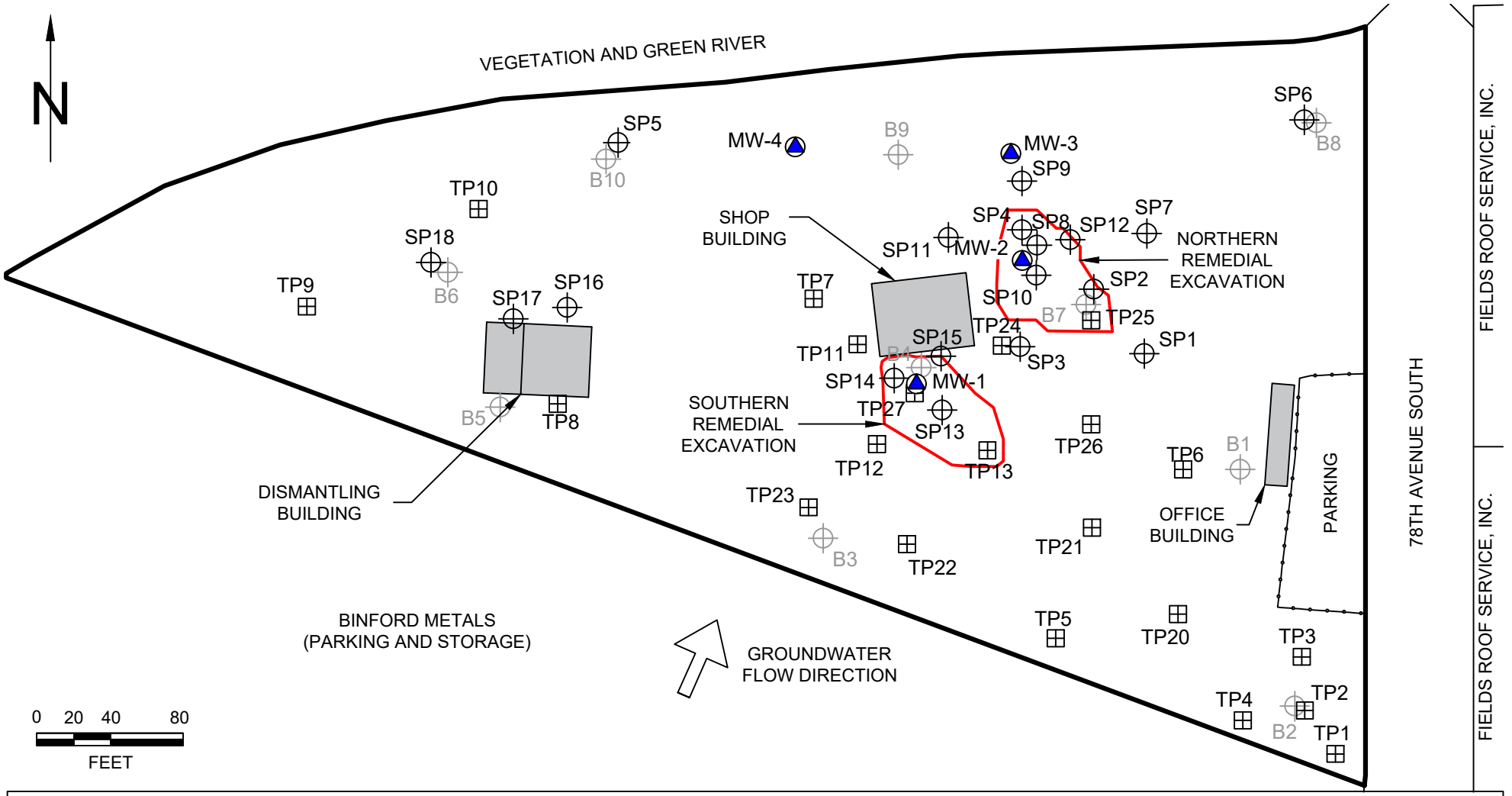
DRAWN BY:	CS
PROJ. NO:	02-0019-D
DATE:	JUNE 2024
APPROX SCALE:	1:24000
PRJ MGR:	LRS

SUBJECT PROPERTY VICINITY MAP

FIGURE 1

FORMER SPECIAL INTEREST AUTO WRECKING

25923 78TH AVENUE SOUTH
KENT, WASHINGTON



LEGEND:

- PARCEL BOUNDARY
- SUBJECT PROPERTY BUILDINGS
- SUBJECT PROPERTY BOUNDARY
- LIMIT OF REMEDIAL EXCAVATION
- MONITORING WELL LOCATION (BY ATLAS, 2023)
- PREVIOUS TEST PROBE LOCATION (BY OTHERS, 2021)
- PREVIOUS TEST PROBE LOCATION (ATLAS, 2021)
- PREVIOUS TEST PIT LOCATION (ATLAS, 2021-2022)

ATLAS GEOSCIENCES NW

P.O. BOX 1009
SUMNER, WA 98390

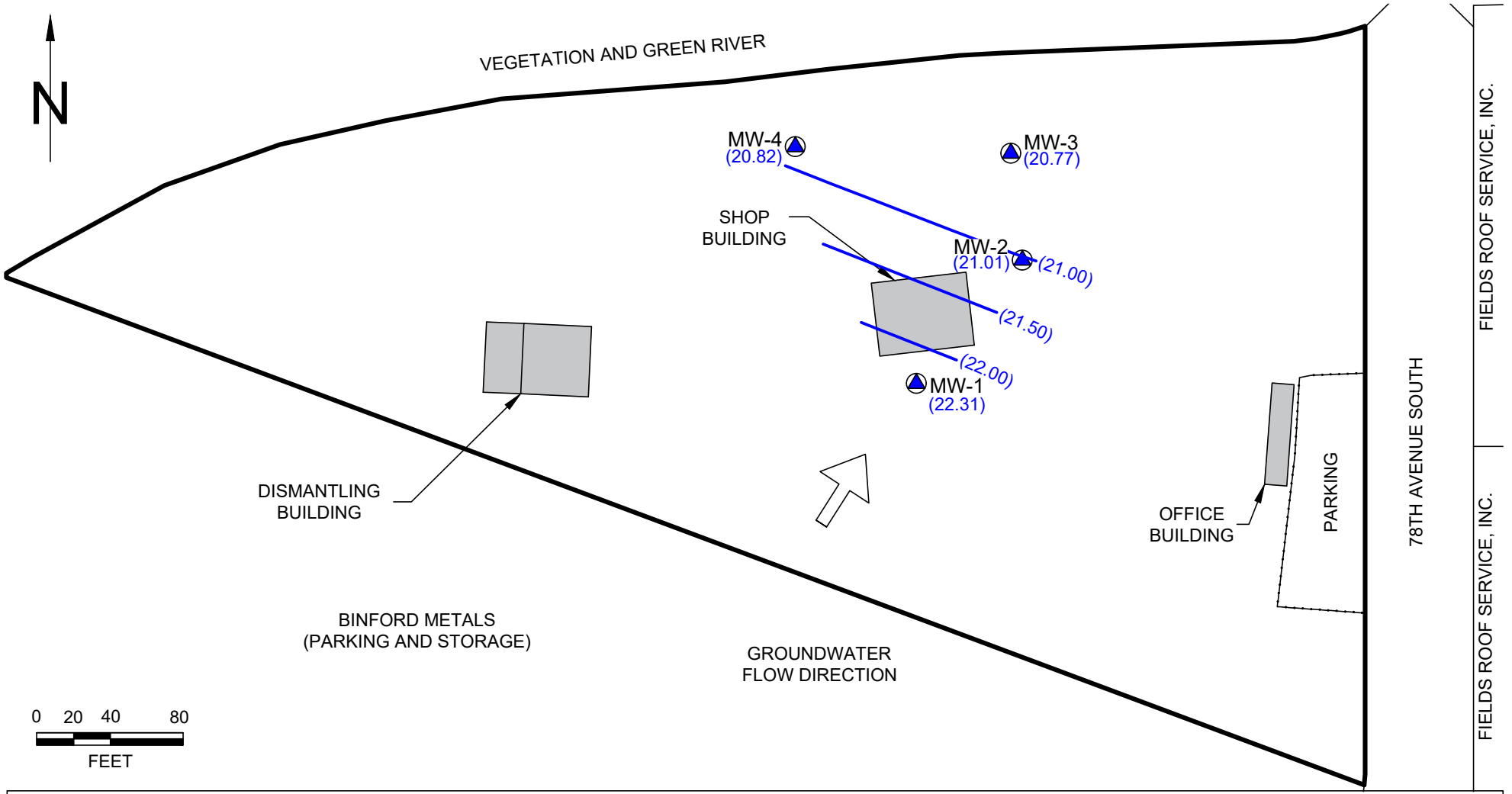
DRAWN BY: CES
PROJ. NO: 02-0019-C
DATE: JUNE 2024
APPROX SCALE: SEE ABOVE
PRJ MGR: LRS

SUBJECT PROPERTY PLAN

FIGURE 2

FORMER SPECIAL INTEREST AUTO WRECKING

25923 78TH AVENUE SOUTH
KENT, WASHINGTON



LEGEND:

- PARCEL BOUNDARY
- SUBJECT PROPERTY BUILDINGS
- SUBJECT PROPERTY BOUNDARY
- MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR
- (22.31) GROUNDWATER ELEVATION RELATIVE TO SITE SPECIFIC DATUM AND IN APPROXIMATE FEET ABOVE MEAN SEA LEVEL

ATLAS GEOSCIENCES NW

P.O. BOX 1009
SUMNER, WA 98390

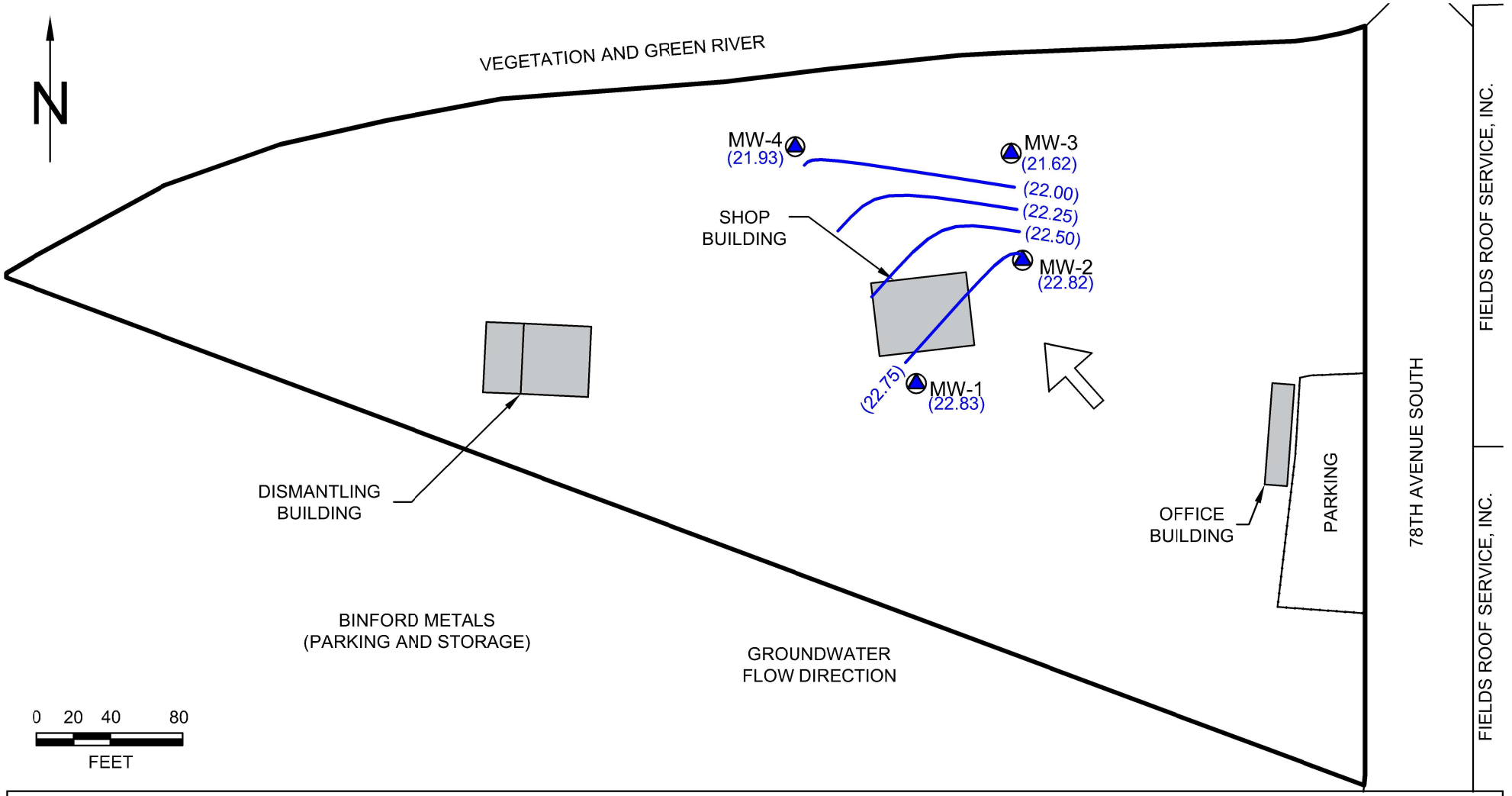
DRAWN BY: JGM
PROJ. NO: 02-0019-D
DATE: AUGUST 2024
APPROX SCALE: SEE ABOVE
PRJ MGR: LRS

GROUNDWATER ELEVATIONS JULY 2024

FIGURE 5

FORMER SPECIAL INTEREST AUTO WRECKING

25923 78TH AVENUE SOUTH
KENT, WASHINGTON



LEGEND:

- PARCEL BOUNDARY
- SUBJECT PROPERTY BUILDINGS
- SUBJECT PROPERTY BOUNDARY
- MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR
- (22.67) GROUNDWATER ELEVATION RELATIVE TO SITE SPECIFIC DATUM AND IN APPROXIMATE FEET ABOVE MEAN SEA LEVEL

ATLAS GEOSCIENCES NW

P.O. BOX 1009
SUMNER, WA 98390

DRAWN BY: CES
PROJ. NO: 02-0019-D
DATE: OCTOBER 2024
APPROX SCALE: SEE ABOVE
PRJ MGR: LRS

GROUNDWATER ELEVATIONS OCTOBER 2024

FIGURE 4

FORMER SPECIAL INTEREST AUTO WRECKING

25923 78TH AVENUE SOUTH
KENT, WASHINGTON

TABLES

Table 1

Groundwater Sample Analytical Results
Former Special Interest Auto Wrecking
25923 78th Avenue South
Kent, Washington

Sample Location	Sample Date	Petroleum Hydrocarbons		Metals						Water Quality
				Total			Dissolved			Turbidity
		Diesel	Oil	Arsenic	Cadmium	Lead	Arsenic	Cadmium	Lead	
MTCA Method A Groundwater Cleanup Level[1]		**500**	**500**	**5**	**5**	**15**	**5**	**5**	**15**	**NA**
Results reported in micrograms per liter										Values reported in NTU
MW-1	11/21/2023	<240	<240	**2.08**	<0.100	<0.500	**2.09**	<0.100	<0.500	3.04
	3/29/2024	<210	<210	<3.3	<4.4	<1.1	<3.0	<4.0	<1.0	2.90
	7/31/2024	<240	<240	<3.3	<4.4	<1.1	<3.0	<4.0	<1.0	134.94
	10/31/2024	<220	<220	<3.3	<4.4	<1.1	<3.0	<4.0	<1.0	2.11
MW-2	11/21/2023	**220**	**400**	**2.95**	<0.100	<0.500	**3.13**	<0.100	<0.500	4.30
	3/29/2024	<210	<210	<3.3	<4.4	<1.1	<3.0	<4.0	<1.0	6.81
	7/31/2024	**210**	<210	**8.6**	<4.4	<1.1	<3.0	<4.0	<1.0	1,203
	10/31/2024	<220	<220	<3.3	<4.4	<1.1	<3.0	<4.0	<1.0	122.17
MW-3	11/21/2023	<230	<230	**0.987**	<0.100	<0.500	**0.902**	<0.100	<0.500	4.29
	3/29/2024	<200	<200	<3.3	<4.4	<1.1	<3.0	<4.0	<1.0	9.10
	7/31/2024	<240	<240	<3.3	<4.4	<1.1	<3.0	<4.0	<1.0	46.36
	10/31/2024	<240	<240	**3.8**	<4.4	<1.1	<3.0	<4.0	<1.0	34.01
MW-4	11/21/2023	<230	<230	**2.56**	<0.100	<0.500	**2.68**	<0.100	<0.500	8.29
	3/29/2024	<200	<200	**3.5**	<4.4	<1.1	<3.0	<4.0	<1.0	5.23
	7/31/2024	<220	<220	<3.3	<4.4	<1.1	<3.0	<4.0	<1.0	24.86
	10/31/2024	<220	<220	<3.3	<4.4	<1.1	<3.0	<4.0	<1.0	6.01

Notes:

[1]MTCA Method A Cleanup Level for Groundwater, Chapter 173-340 Washington Administrative Code, Table 720-1.

<240	The analyte was not detected in the sample at a concentration greater than the indicated method reporting limit.
2.08	Bold value indicates concentration of analyte detected in sample.
8.6	Bold value with yellow shading indicates concentration greater than the applicable cleanup level.
MTCA	Model Toxics Control Act.
NA	Not applicable.
NTU	Nephelometric turbidity units.

Table is in color, black and white copies may not be suitable for review.

Table 2

Groundwater Elevation Measurements and Well Construction Data
Former Special Interest Auto Wrecking
25923 78th Avenue South
Kent, Washington

Location	Well Installation Date	Elevation of Top of Well Casing (feet)	Depth to Top of Screen (feet)	Depth to Bottom of Screen (feet)	Well Diameter (inches)	Date Measured	Depth to Water (feet)	Groundwater Elevation (feet)
MW-1	11/13/2023	43.27	17.0	27.0	2	11/21/2023	19.50	23.77
						3/29/2024	18.86	24.41
						7/31/2024	20.96	22.31
						10/31/2024	20.44	22.83
MW-2	11/13/2023	42.86	18.0	28.0	2	11/21/2023	20.03	22.83
						3/29/2024	19.58	23.28
						7/31/2024	21.85	21.01
						10/31/2024	20.04	22.82
MW-3	11/14/2023	43.21	18.0	28.0	2	11/21/2023	21.11	22.10
						3/29/2024	20.11	23.10
						7/31/2024	22.44	20.77
						10/31/2024	21.59	21.62
MW-4	11/14/2023	42.50	15.0	25.0	2	11/21/2023	20.46	22.04
						3/29/2024	19.31	23.19
						7/31/2024	21.68	20.82
						10/31/2024	20.57	21.93

Notes:
Well elevations measured relative to site specific datum set at the southeast corner of the shop building (~44.00 feet above mean sea level).
All measurements are in feet.

Table is in color, black and white copies may not be suitable for review.

ATLAS GEOSCIENCES NW

APPENDIX A

Laboratory Analytical Reports and Sample Chain-of-Custody Forms

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 8, 2024

Chris Smith
Atlas GeoSciences NW
PO Box 1009
Sumner, WA 98390

Re: Analytical Data for Project 02-0019-D
Laboratory Reference No. 2408-009

Dear Chris:

Enclosed are the analytical results and associated quality control data for samples submitted on August 1, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 8, 2024
Samples Submitted: August 1, 2024
Laboratory Reference: 2408-009
Project: 02-0019-D

Case Narrative

Samples were collected on July 31, 2024 and received by the laboratory on August 1, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 8, 2024
Samples Submitted: August 1, 2024
Laboratory Reference: 2408-009
Project: 02-0019-D

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-3**					
Laboratory ID:	08-009-01					
Diesel Range Organics	**ND**	240	NWTPH-Dx	8-5-24	8-5-24	
Lube Oil Range Organics	**ND**	240	NWTPH-Dx	8-5-24	8-5-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*79*	*50-150*				
Client ID:	**MW-4**					
Laboratory ID:	08-009-02					
Diesel Range Organics	**ND**	220	NWTPH-Dx	8-5-24	8-5-24	
Lube Oil Range Organics	**ND**	220	NWTPH-Dx	8-5-24	8-5-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				
Client ID:	**MW-1**					
Laboratory ID:	08-009-03					
Diesel Range Organics	**ND**	240	NWTPH-Dx	8-5-24	8-5-24	
Lube Oil Range Organics	**ND**	240	NWTPH-Dx	8-5-24	8-5-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				
Client ID:	**MW-2**					
Laboratory ID:	08-009-04					
Diesel Range Organics	**210**	210	NWTPH-Dx	8-5-24	8-6-24	
Lube Oil Range Organics	**ND**	210	NWTPH-Dx	8-5-24	8-6-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				

Date of Report: August 8, 2024
Samples Submitted: August 1, 2024
Laboratory Reference: 2408-009
Project: 02-0019-D

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0805W1					
Diesel Range Organics	**ND**	160	NWTPH-Dx	8-5-24	8-5-24	
Lube Oil Range Organics	**ND**	160	NWTPH-Dx	8-5-24	8-5-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*98*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-002-01										
	ORIG	DUP									
Diesel Range Organics	**1080**	**963**	NA	NA		NA		NA	11	40	M
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Surrogate:											
o-Terphenyl						*106*	*95*	*50-150*			

Date of Report: August 8, 2024
Samples Submitted: August 1, 2024
Laboratory Reference: 2408-009
Project: 02-0019-D

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-3**					
Laboratory ID:	08-009-01					
Arsenic	**ND**	3.3	EPA 200.8	8-2-24	8-2-24	
Cadmium	**ND**	4.4	EPA 200.8	8-2-24	8-2-24	
Lead	**ND**	1.1	EPA 200.8	8-2-24	8-2-24	
Client ID:	**MW-4**					
Laboratory ID:	08-009-02					
Arsenic	**ND**	3.3	EPA 200.8	8-2-24	8-2-24	
Cadmium	**ND**	4.4	EPA 200.8	8-2-24	8-2-24	
Lead	**ND**	1.1	EPA 200.8	8-2-24	8-2-24	
Client ID:	**MW-1**					
Laboratory ID:	08-009-03					
Arsenic	**ND**	3.3	EPA 200.8	8-2-24	8-2-24	
Cadmium	**ND**	4.4	EPA 200.8	8-2-24	8-2-24	
Lead	**ND**	1.1	EPA 200.8	8-2-24	8-2-24	
Client ID:	**MW-2**					
Laboratory ID:	08-009-04					
Arsenic	**8.6**	3.3	EPA 200.8	8-2-24	8-2-24	
Cadmium	**ND**	4.4	EPA 200.8	8-2-24	8-2-24	
Lead	**ND**	1.1	EPA 200.8	8-2-24	8-2-24	

Date of Report: August 8, 2024
Samples Submitted: August 1, 2024
Laboratory Reference: 2408-009
Project: 02-0019-D

TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0802WM1					
Arsenic	**ND**	3.3	EPA 200.8	8-2-24	8-2-24	
Cadmium	**ND**	4.4	EPA 200.8	8-2-24	8-2-24	
Lead	**ND**	1.1	EPA 200.8	8-2-24	8-2-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	07-328-01										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	07-328-01										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**229**	**214**	222	222	ND	**103**	**97**	75-125	7	20	
Cadmium	**226**	**210**	222	222	ND	**102**	**95**	75-125	7	20	
Lead	**203**	**192**	222	222	ND	**91**	**86**	75-125	6	20	

Date of Report: August 8, 2024
Samples Submitted: August 1, 2024
Laboratory Reference: 2408-009
Project: 02-0019-D

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-3**					
Laboratory ID:	08-009-01					
Arsenic	**ND**	3.0	EPA 200.8		8-2-24	
Cadmium	**ND**	4.0	EPA 200.8		8-2-24	
Lead	**ND**	1.0	EPA 200.8		8-2-24	
Client ID:	**MW-4**					
Laboratory ID:	08-009-02					
Arsenic	**ND**	3.0	EPA 200.8		8-2-24	
Cadmium	**ND**	4.0	EPA 200.8		8-2-24	
Lead	**ND**	1.0	EPA 200.8		8-2-24	
Client ID:	**MW-1**					
Laboratory ID:	08-009-03					
Arsenic	**ND**	3.0	EPA 200.8		8-2-24	
Cadmium	**ND**	4.0	EPA 200.8		8-2-24	
Lead	**ND**	1.0	EPA 200.8		8-2-24	
Client ID:	**MW-2**					
Laboratory ID:	08-009-04					
Arsenic	**ND**	3.0	EPA 200.8		8-2-24	
Cadmium	**ND**	4.0	EPA 200.8		8-2-24	
Lead	**ND**	1.0	EPA 200.8		8-2-24	

Date of Report: August 8, 2024
Samples Submitted: August 1, 2024
Laboratory Reference: 2408-009
Project: 02-0019-D

DISSOLVED METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0730F2					
Arsenic	**ND**	3.0	EPA 200.8	7-30-24	8-2-24	
Cadmium	**ND**	4.0	EPA 200.8	7-30-24	8-2-24	
Lead	**ND**	1.0	EPA 200.8	7-30-24	8-2-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	07-328-01										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	07-328-01										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**80.6**	**82.6**	80.0	80.0	ND	**101**	**103**	75-125	2	20	
Cadmium	**78.6**	**81.4**	80.0	80.0	ND	**98**	**102**	75-125	4	20	
Lead	**70.8**	**72.8**	80.0	80.0	ND	**89**	**91**	75-125	3	20	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

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

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Atlas Geosciences NW
Project Number: 02-0019-D
Project Name: Fmr Special Interest Auto
Project Manager: Chris Smith / Lannie Smith
Sampled by:

Turnaround Request (in working days)

(Check One)

- ☐ Same Day ☐ 1 Day
- ☐ 2 Days ☐ 3 Days
- ☒ Standard ~~(7 Days)~~ 5 Days
- ☐ _____ (other)

Laboratory Number: 08-009

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Arsenic Total ; Dissolved	Cadmium Total ; Dissolved	Lead Total ; Dissolved	% Moisture
1	MW-3	7/31/24	1440	GW	4				X														X	X	X	
2	MW-4	7/31/24	1545	GW	4				X														X	X	X	
3	MW-1	7/31/24	1645	GW	4				X														X	X	X	
4	MW-2	7/31/24	1755	GW	4				X														X	X	X	
	AH										AH															

	Signature	Company	Date	Time
Relinquished	Hannah Hoes	Atlas Geo NW	8/1/24	1045
Received		OSE	8/1/24	1530
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

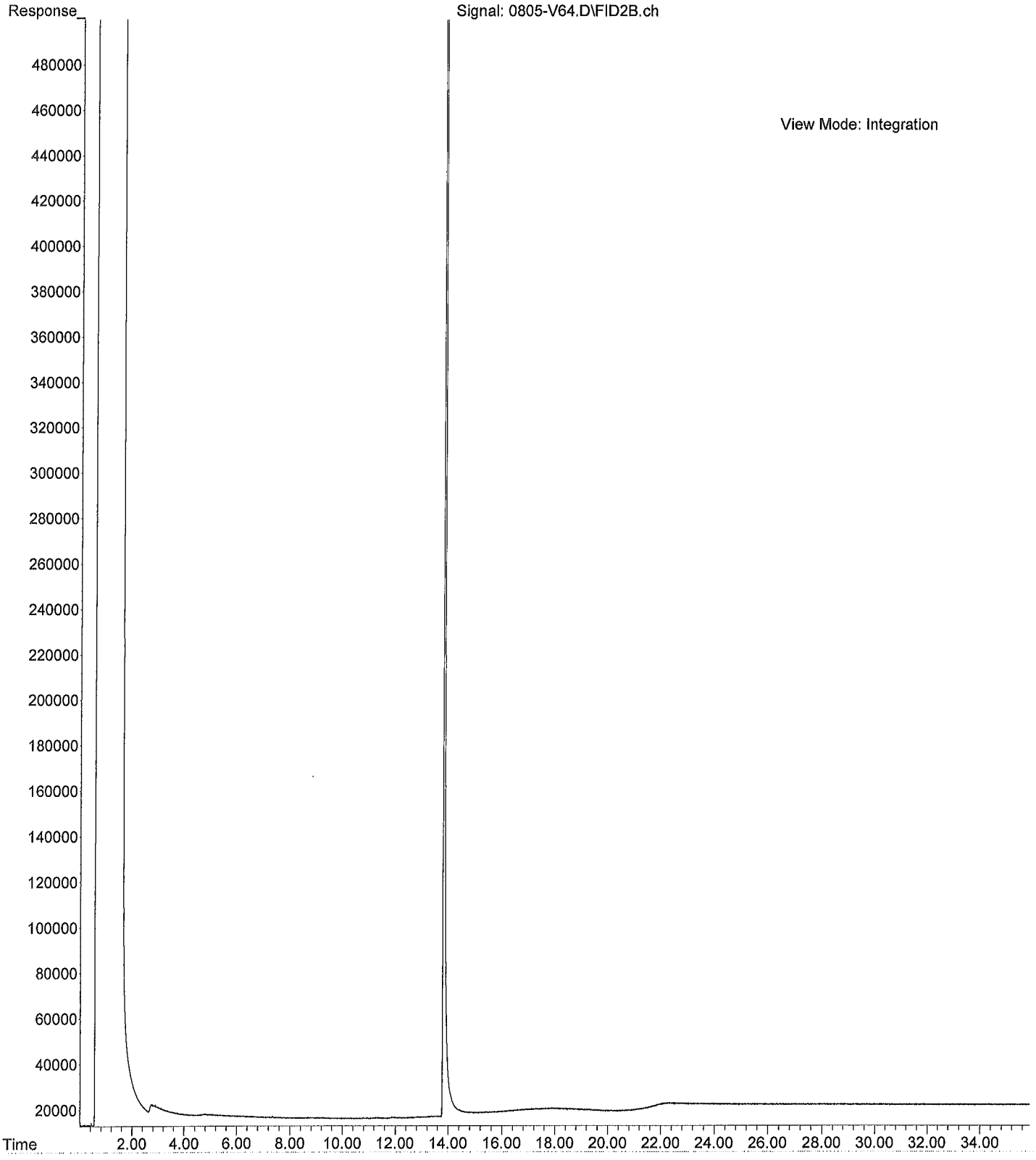
Comments/Special Instructions

Field filtered bottles clearly marked

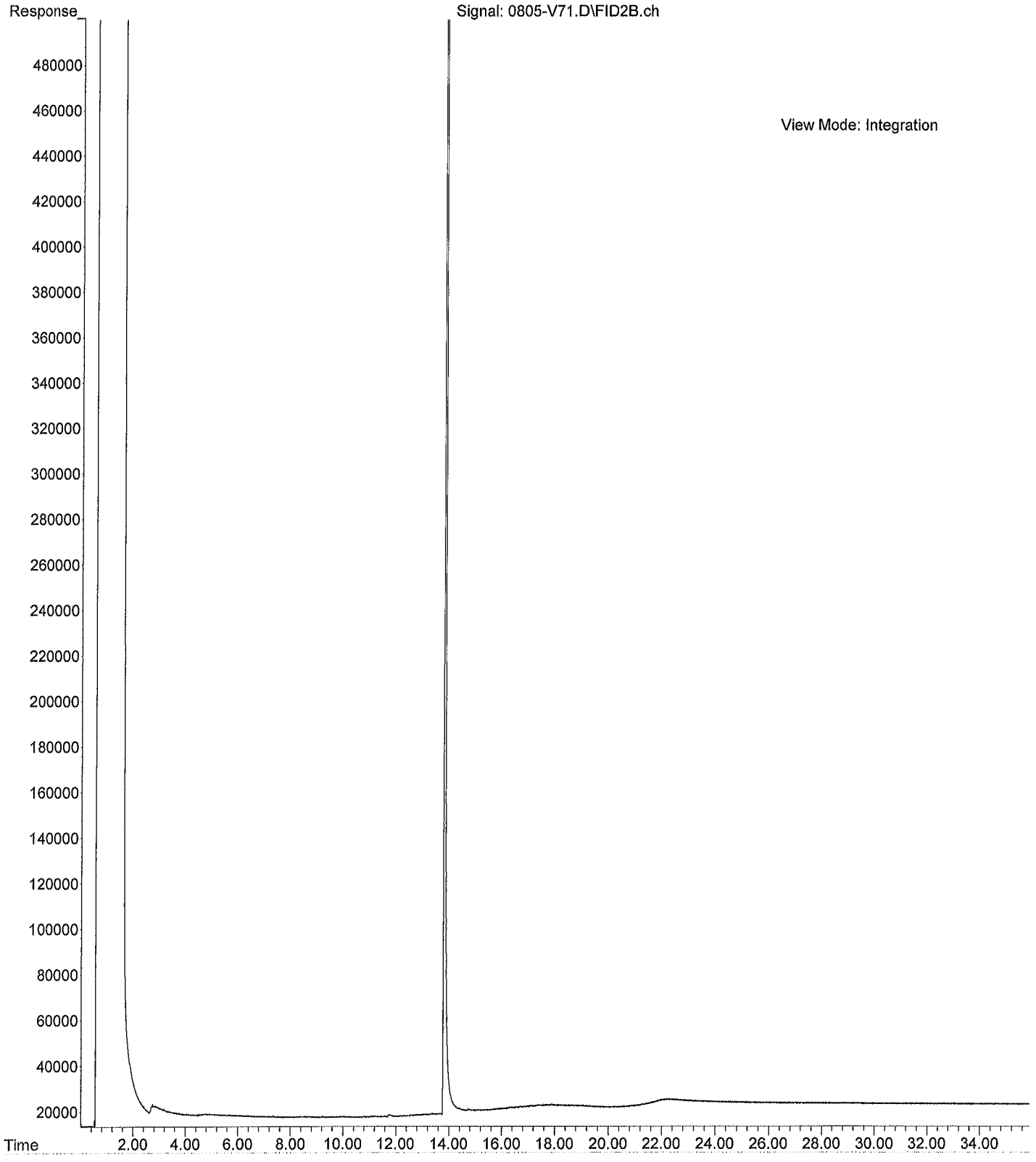
Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☒ Electronic Data Deliverables (EDDs) ☒

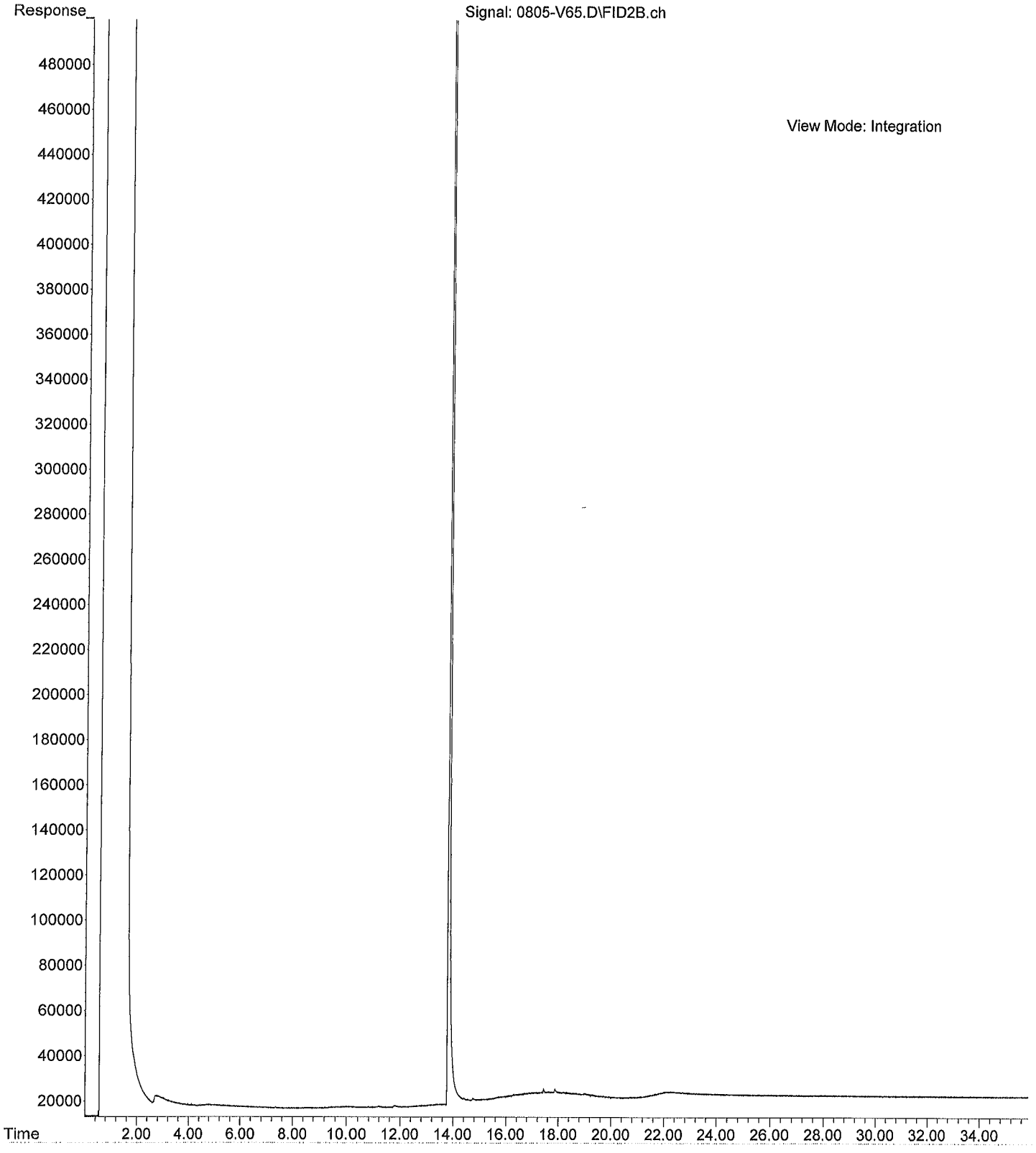
File :C:\msdchem\2\data\V240805.SEC\0805-V64.D
Operator : LW
Acquired : 5 Aug 2024 17:46 using AcqMethod V230830F.M
Instrument : Vigo
Sample Name: 08-009-01
Misc Info : RearSamp
Vial Number: 64



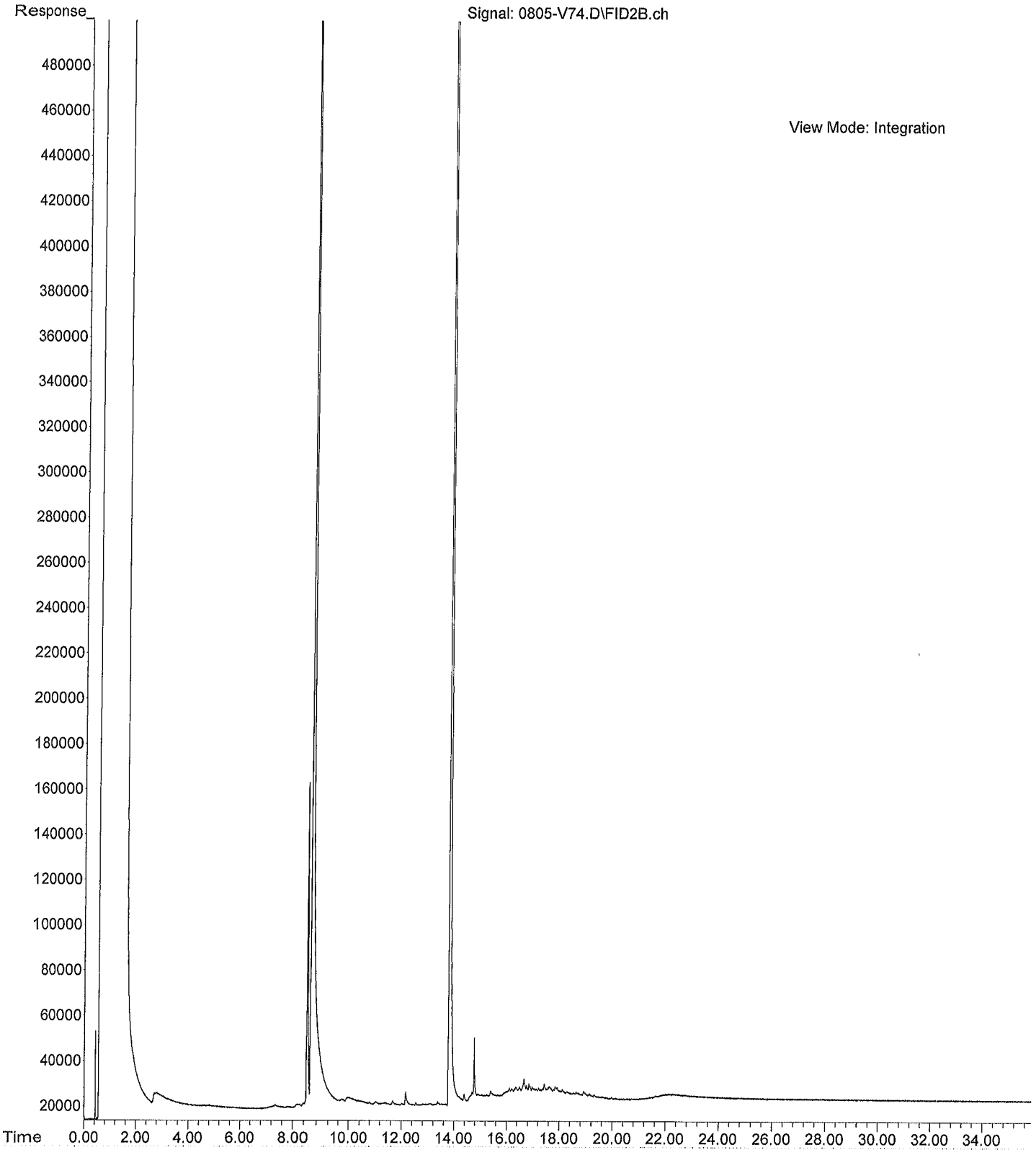
File :C:\msdchem\2\data\V240805.SEC\0805-V71.D
Operator : LW
Acquired : 5 Aug 2024 22:32 using AcqMethod V230830F.M
Instrument : Vigo
Sample Name: 08-009-02
Misc Info : RearSamp
Vial Number: 71



File :C:\msdchem\2\data\V240805.SEC\0805-V65.D
Operator : LW
Acquired : 5 Aug 2024 18:27 using AcqMethod V230830F.M
Instrument : Vigo
Sample Name: 08-009-03
Misc Info : RearSamp
Vial Number: 65



File :X:\DIESELS\Vigo\Data\V240805.SEC\0805-V74.D
Operator : LW
Acquired : 6 Aug 2024 00:34 using AcqMethod V230830F.M
Instrument : Vigo
Sample Name: 08-009-04
Misc Info : RearSamp
Vial Number: 74



OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 13, 2024

Chris Smith
Atlas GeoSciences NW
PO Box 1009
Sumner, WA 98390

Re: Analytical Data for Project 02-0019-D
Laboratory Reference No. 2411-027

Dear Chris:

Enclosed are the analytical results and associated quality control data for samples submitted on November 4, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: November 13, 2024
Samples Submitted: November 4, 2024
Laboratory Reference: 2411-027
Project: 02-0019-D

Case Narrative

Samples were collected on October 31, 2024 and received by the laboratory on November 4, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: November 13, 2024
Samples Submitted: November 4, 2024
Laboratory Reference: 2411-027
Project: 02-0019-D

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-3**					
Laboratory ID:	11-027-01					
Diesel Range Organics	**ND**	240	NWTPH-Dx	11-6-24	11-6-24	
Lube Oil Range Organics	**ND**	240	NWTPH-Dx	11-6-24	11-6-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*103*	*50-150*				
Client ID:	**MW-4**					
Laboratory ID:	11-027-02					
Diesel Range Organics	**ND**	220	NWTPH-Dx	11-6-24	11-6-24	
Lube Oil Range Organics	**ND**	220	NWTPH-Dx	11-6-24	11-6-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				
Client ID:	**MW-1**					
Laboratory ID:	11-027-03					
Diesel Range Organics	**ND**	220	NWTPH-Dx	11-6-24	11-6-24	
Lube Oil Range Organics	**ND**	220	NWTPH-Dx	11-6-24	11-6-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				
Client ID:	**MW-2**					
Laboratory ID:	11-027-04					
Diesel Range Organics	**ND**	220	NWTPH-Dx	11-6-24	11-6-24	
Lube Oil Range Organics	**ND**	220	NWTPH-Dx	11-6-24	11-6-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				

Date of Report: November 13, 2024
Samples Submitted: November 4, 2024
Laboratory Reference: 2411-027
Project: 02-0019-D

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1106W1					
Diesel Range Organics	**ND**	160	NWTPH-Dx	11-6-24	11-6-24	
Lube Oil Range Organics	**ND**	160	NWTPH-Dx	11-6-24	11-6-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-027-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Surrogate:											
o-Terphenyl						*103*	*102*	*50-150*			

Date of Report: November 13, 2024
Samples Submitted: November 4, 2024
Laboratory Reference: 2411-027
Project: 02-0019-D

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-3**					
Laboratory ID:	11-027-01					
Arsenic	**3.8**	3.3	EPA 200.8	11-8-24	11-8-24	
Cadmium	**ND**	4.4	EPA 200.8	11-8-24	11-8-24	
Lead	**ND**	1.1	EPA 200.8	11-8-24	11-8-24	
Client ID:	**MW-4**					
Laboratory ID:	11-027-02					
Arsenic	**ND**	3.3	EPA 200.8	11-8-24	11-8-24	
Cadmium	**ND**	4.4	EPA 200.8	11-8-24	11-8-24	
Lead	**ND**	1.1	EPA 200.8	11-8-24	11-8-24	
Client ID:	**MW-1**					
Laboratory ID:	11-027-03					
Arsenic	**ND**	3.3	EPA 200.8	11-8-24	11-8-24	
Cadmium	**ND**	4.4	EPA 200.8	11-8-24	11-8-24	
Lead	**ND**	1.1	EPA 200.8	11-8-24	11-8-24	
Client ID:	**MW-2**					
Laboratory ID:	11-027-04					
Arsenic	**ND**	3.3	EPA 200.8	11-8-24	11-8-24	
Cadmium	**ND**	4.4	EPA 200.8	11-8-24	11-8-24	
Lead	**ND**	1.1	EPA 200.8	11-8-24	11-8-24	

Date of Report: November 13, 2024
Samples Submitted: November 4, 2024
Laboratory Reference: 2411-027
Project: 02-0019-D

TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1108WM1					
Arsenic	**ND**	3.3	EPA 200.8	11-8-24	11-8-24	
Cadmium	**ND**	4.4	EPA 200.8	11-8-24	11-8-24	
Lead	**ND**	1.1	EPA 200.8	11-8-24	11-8-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	10-403-05										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	10-403-05										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**108**	**105**	111	111	ND	**97**	**94**	75-125	3	20	
Cadmium	**105**	**99.6**	111	111	ND	**94**	**90**	75-125	5	20	
Lead	**107**	**102**	111	111	ND	**97**	**92**	75-125	5	20	

Date of Report: November 13, 2024
Samples Submitted: November 4, 2024
Laboratory Reference: 2411-027
Project: 02-0019-D

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-3**					
Laboratory ID:	11-027-01					
Arsenic	**ND**	3.0	EPA 200.8		11-8-24	
Cadmium	**ND**	4.0	EPA 200.8		11-8-24	
Lead	**ND**	1.0	EPA 200.8		11-8-24	
Client ID:	**MW-4**					
Laboratory ID:	11-027-02					
Arsenic	**ND**	3.0	EPA 200.8		11-8-24	
Cadmium	**ND**	4.0	EPA 200.8		11-8-24	
Lead	**ND**	1.0	EPA 200.8		11-8-24	
Client ID:	**MW-1**					
Laboratory ID:	11-027-03					
Arsenic	**ND**	3.0	EPA 200.8		11-8-24	
Cadmium	**ND**	4.0	EPA 200.8		11-8-24	
Lead	**ND**	1.0	EPA 200.8		11-8-24	
Client ID:	**MW-2**					
Laboratory ID:	11-027-04					
Arsenic	**ND**	3.0	EPA 200.8		11-8-24	
Cadmium	**ND**	4.0	EPA 200.8		11-8-24	
Lead	**ND**	1.0	EPA 200.8		11-8-24	

Date of Report: November 13, 2024
Samples Submitted: November 4, 2024
Laboratory Reference: 2411-027
Project: 02-0019-D

DISSOLVED METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1108D1					
Arsenic	**ND**	3.0	EPA 200.8		11-8-24	
Cadmium	**ND**	4.0	EPA 200.8		11-8-24	
Lead	**ND**	1.0	EPA 200.8		11-8-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	10-423-08									
	ORIG	DUP								
Arsenic	**3.52**	**4.20**	NA	NA		NA	NA	18	20	
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	10-423-08									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**87.6**	**86.8**	80.0	80.0	3.52	**105**	**104**	75-125	1	20
Cadmium	**75.6**	**76.8**	80.0	80.0	ND	**95**	**96**	75-125	2	20
Lead	**77.6**	**77.6**	80.0	80.0	ND	**97**	**97**	75-125	0	20

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

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

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Atlas Geosciences NW
Project Number: 02-0019-D
Project Name: Former Special Interest Auto
Project Manager: Chris Smith/Lannie Smith
Sampled by:

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 11-027

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Arsenic Total + Dissolved	Cadmium Total + Dissolved	Lead Total + Dissolved		% Moisture
1	MW-3	10/31/24	1153	GW	4				X														X	X	X		
2	MW-4	10/31/24	1426	GW	4				X														X	X	X		
3	MW-1	10/31/24	1644	GW	4				X														X	X	X		
4	MW-2	10/31/24	1831	GW	4				X														X	X	X		

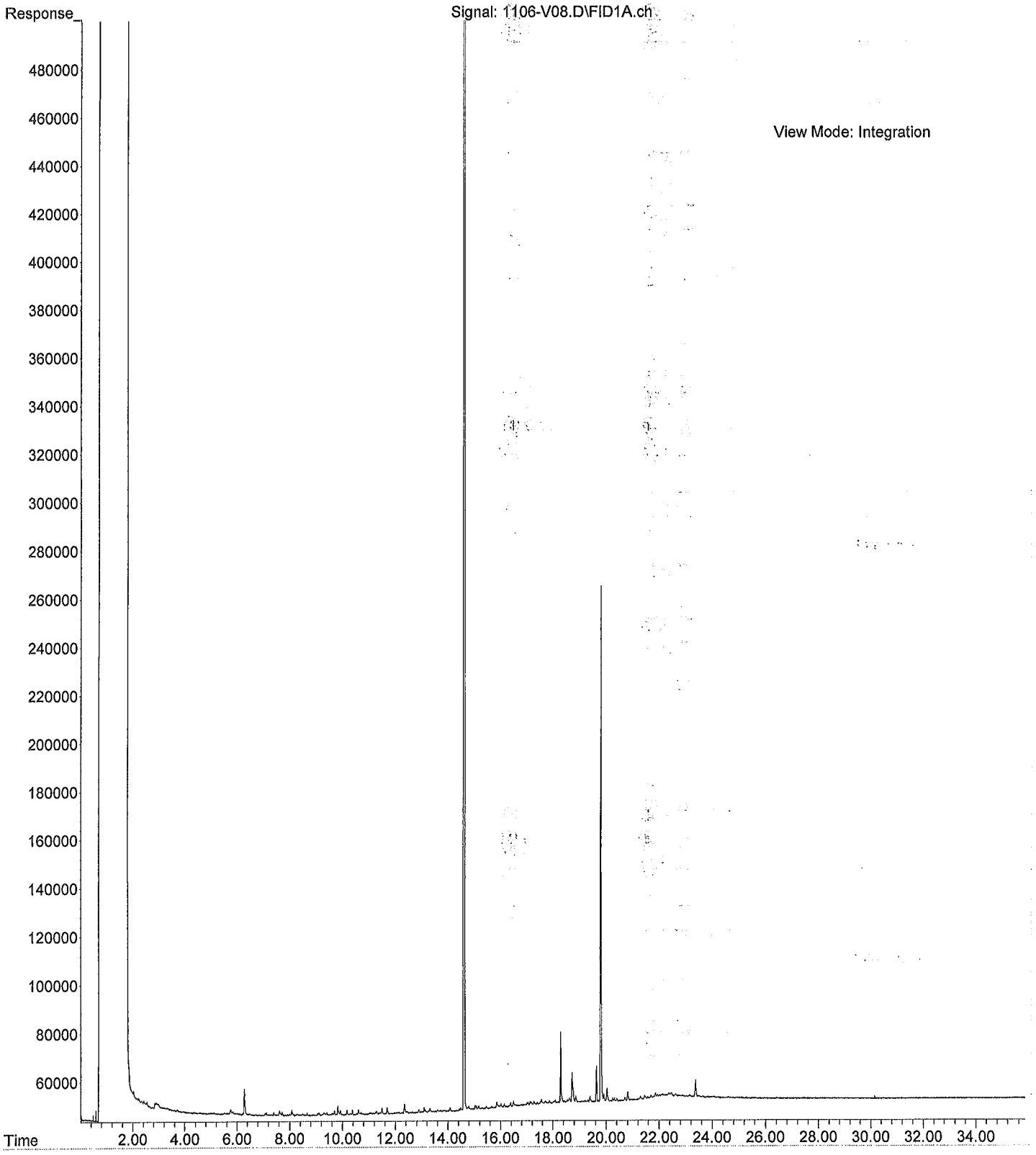
RAM

	Signature	Company	Date	Time
Relinquished	~~X~~ Ryan Van	Atlas Geosciences NW	11/4/24	1100
Received	Van	Spdy	11/4/24	1100
Relinquished		Spdy	11/4/24	1255
Received		OSE	11/4/24	1255
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

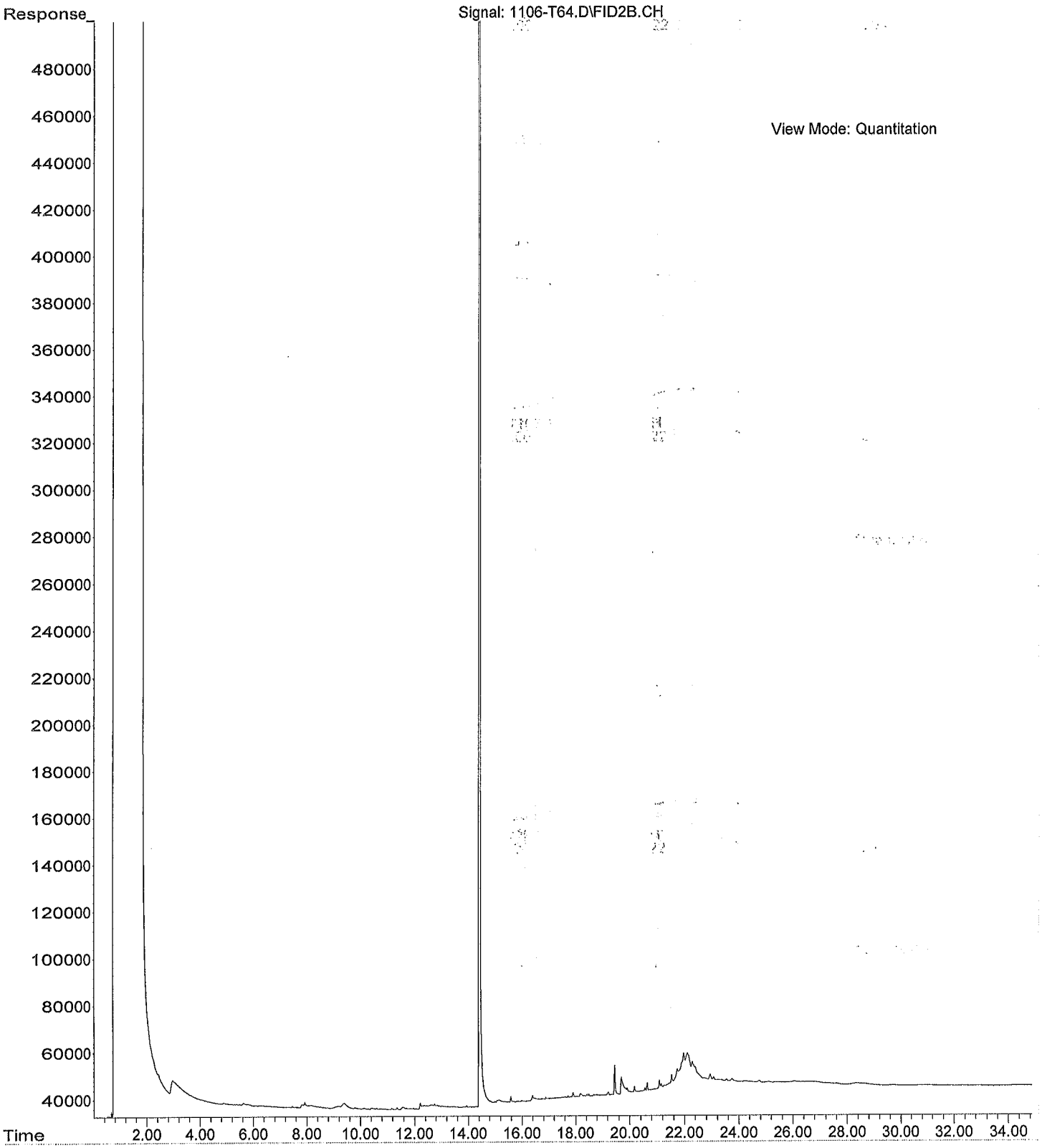
Comments/Special Instructions
~~Hold samples~~ Released 11/13/24, DD

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☒ Electronic Data Deliverables (EDDs) ☒

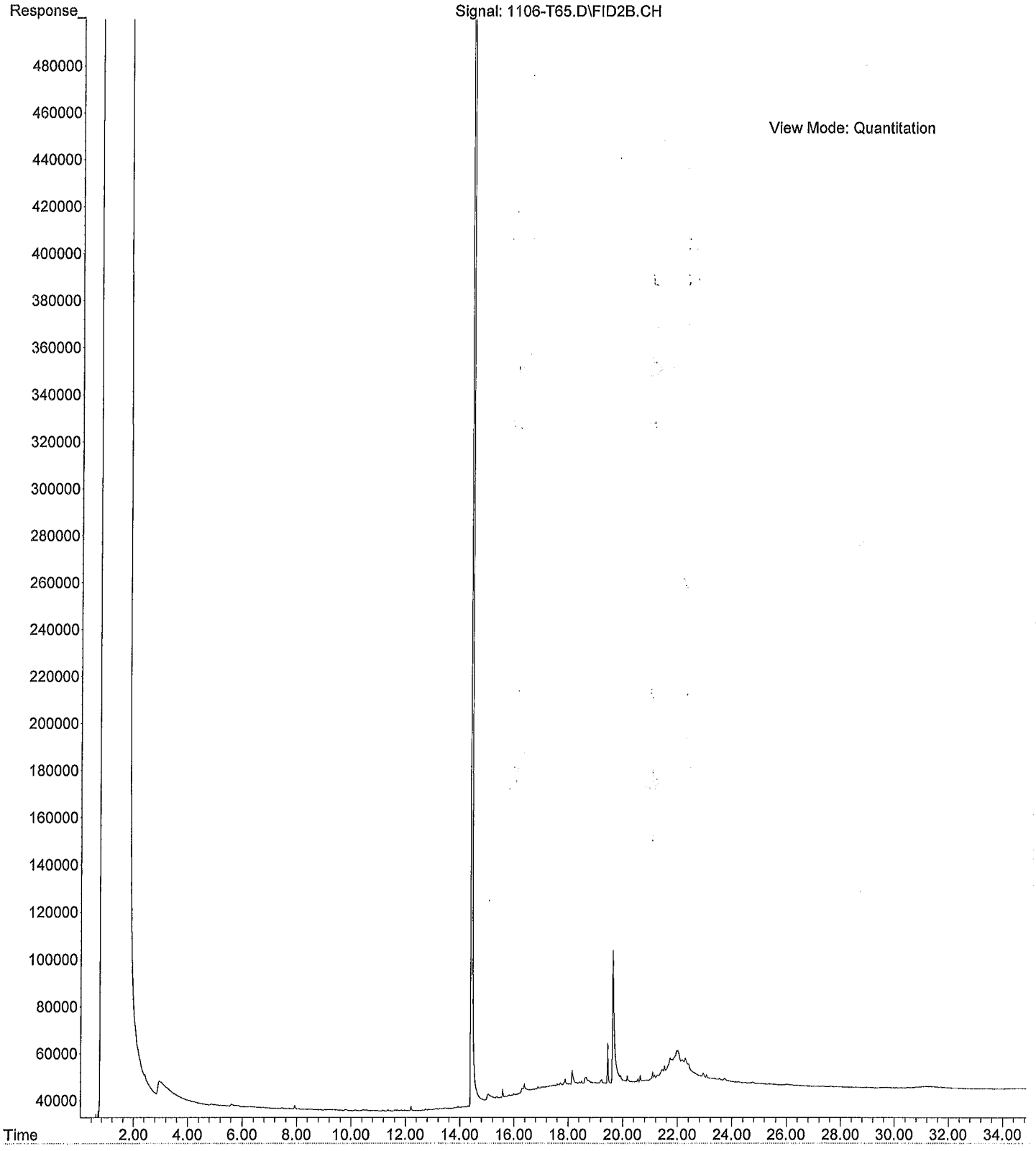
File :C:\msdchem\2\data\V241106\1106-V08.D
Operator : LW
Acquired : 6 Nov 2024 14:39 using AcqMethod V241001F.M
Instrument : Vigo
Sample Name: 11-027-01
Misc Info : Sample
Vial Number: 8



File :C:\msdchem\1\data\T241106.SEC\1106-T64.D
Operator : LW
Acquired : 06 Nov 2024 20:35 using AcqMethod T231127F.M
Instrument : Teri
Sample Name: 11-027-02
Misc Info : RearSamp
Vial Number: 64



File :C:\msdchem\1\data\T241106.SEC\1106-T65.D
Operator : LW
Acquired : 06 Nov 2024 21:17 using AcqMethod T231127F.M
Instrument : Teri
Sample Name: 11-027-03
Misc Info : RearSamp
Vial Number: 65



File :C:\msdchem\2\data\V241106.SEC\1106-V62.D
Operator : LW
Acquired : 6 Nov 2024 17:26 using AcqMethod V241001F.M
Instrument : Vigo
Sample Name: 11-027-04
Misc Info : RearSamp
Vial Number: 62