



**Speedway 5325**  
**(7-Eleven 46754 - Former TNS 52)**

**Q4 November 2024**  
**GWM Event Report**

ADEC File #2265.26.006

## AUTHORIZATION TO SUBMIT REPORT

Stantec has been authorized by the client, 7-Eleven (representative Paula Sime, PG, Manager – Environmental Services) to submit the enclosed report titled “Speedway 5325 (7-Eleven 46754 - Former TNS 52, 4Q November 2024 GWM Event Report” dated December 2024, to the Alaska Department of Environmental Conservation. If you have any questions or need additional information concerning this report, please contact me at (907) 227-9883 or via email at [bob.gilfilian@stantec.com](mailto:bob.gilfilian@stantec.com).

Regards,

STANTEC CONSULTING SERVICES, INC.

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Principal Senior Civil Engineer

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## ACRONYMS AND ABBREVIATIONS

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ADEC	Alaska Department of Environmental Conservation
AK	Alaska Test Method
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
DO	dissolved oxygen
DRO	diesel range organics
Chemox	chemical oxidation
CAP	corrective action plan
EPA	U.S. Environmental Protection Agency
gpm	gallons per minute
GRO	gasoline range organics
gcl	groundwater cleanup level
mg/L	milligrams per liter
mV	millivolts
ORP	oxidation-reduction potential
LOQ	laboratory limit of quantization
QA	quality assurance
QC	quality control
RDL	reported detection limit
SIM	selective ion method
SC	specific conductance
Stantec	Stantec Consulting Services Inc.
Tesoro	Tesoro Refining & Marketing Company
TNS	Tesoro North Store
TMB	Trimethylbenzene
$\mu\text{S}/\text{cm}^\circ\text{C}$	microSiemens per centimeter $^\circ\text{C}$
VOC	volatile organic compounds
VSC	vapor stripping and circulation

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## 1.0 INTRODUCTION

This Groundwater Monitoring Event Report was prepared by Stantec Consulting Services Inc. (Stantec) on behalf of Speedway Store 5325, located at 7172 West Parks Highway, Wasilla, Alaska (**Figure 1**). Background and historical information for this site is summarized in **Appendix A**. The methods used for this monitoring event were conducted in accordance with the Alaska Department of Environmental Conservation (ADEC) approved 2024 Corrective Action Plan (CAP) for this site. The 2024 CAP work plan tasks are summarized in **Appendix B**.

This fourth quarter 2024 groundwater monitoring event was conducted on October 28, 2024, by Stantec environmental staff Sydney Souza, Environmental Geologist; and Remi Malenfant, Geologist-In-Training. Stantec field staff were unable to complete the monthly chemical oxidation (chemox) injection event due to snow and freezing temperatures.

## 2.0 FIELD ACTIVITIES

The following field activities were completed during the fourth quarter 2024 groundwater monitoring event:

- Measured depth to groundwater in wells G-1, G-3, G-4, G-5, G-7, former Remediation Well RW16-1, and monitoring well MW16-2.
- Measured field intrinsic water quality parameters in wells G-1, G-3, G-4, G-5, G-7, RW16-1, and MW16-2.
- Collected groundwater samples from Monitoring Wells G-1, G-3, G-4, G-5, G-7, RW16-1 (with a duplicate sample), and MW16-2. Sample locations are shown on **Figure 2**. Samples were analyzed for the following groundwater contaminants:
  - Volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, and total xylenes (BTEX), 1,2,4-Trimethylbenzene (TMB), and 1,3,5-TMB by US Environmental Protection Agency (EPA) method 8260C; gasoline range organics (GRO) by Alaska test method (AK)101; diesel range organics (DRO) by AK102; polycyclic aromatic hydrocarbons (PAHs), specifically naphthalene, by EPA 8270D; and sodium to assess the extent of chemox treatment.
- Drinking water samples were collected from three drinking water wells, labeled R-4, R-5, and R1-2 (see lab results in Table 3b). Drinking water samples were analyzed for EPA 524.

Stantec was unable to conduct a monthly injection of chemox into the remediation wells RW20-1 and RW20-2 for the month of October. The temperature was below freezing and there was snow on the ground. Conditions such as this make mixing the bags of Klozur<sup>®</sup> One with water extremely difficult. The powder does not fully mix. Chemox injections are complete for the winter season and will begin again in the spring.

Field methods and procedures are provided in **Appendix B** and field measurements and notes are provided in **Appendix C**.

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### 3.0 GROUNDWATER MONITORING RESULTS

#### 3.1 GROUNDWATER ELEVATIONS

**Table 1** presents groundwater elevations at this site based on the depths to static groundwater levels measured during the monitoring event.

**Table 1 Groundwater Elevations**  
Measured on October 28, 2024

Monitoring Well Identification	Top of Casing Elevation <sup>1</sup> (feet)	Depth to Water (feet btoc)	Groundwater Elevation (feet)
G-1	99.29	1.01	98.28
G-2	99.25	NM	NM
G-3	99.13	23.62	75.51
G-4	98.28	23.02	75.26
G-5	101.45	26.02	75.43
G-7	99.42	24.70	74.72
RW16-1	99.44	23.78	75.66
MW16-2	99.21	23.61	75.60

Key:

1 – Well casing elevations surveyed on June 19, 2024. Elevations are presented in respect to a local benchmark with 100-foot datum.

btoc – below top of casing.

NM – not measured

The average groundwater gradient across the site was calculated to be approximately 0.004 feet per foot to the south at 189 degrees, as shown in **Figure 3**. The direction of flow and elevation gradient are comparable to historical measurements. A plot of groundwater elevation contours generated using the SampleServe<sup>®</sup> program, as well as a rose diagram, generated by the Surfer<sup>™</sup> software program, of past groundwater direction and gradient, is included in **Figure 3**. All static water levels were measured with the groundwater recirculation system running. For purposes of generating the contours, the water elevation in well G-1 was left off the plot. The extremely high-water level in G-1 indicates that the water percolates out of the well relatively slowly, and therefore its effect on the onsite flow regime is less than the water level would indicate.

#### 3.2 FIELD PARAMETERS

Temperature, pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), and specific conductance (SC) were measured following purging of the sampled wells. Monitoring and remediation wells were purged of three well volumes or until purged dry and allowed to recharge prior to sampling. Well G-1 was not purged due to water being actively cycled through the system. Results of water quality parameter testing are presented in **Table 2**.

**Table 2 Field Parameters**  
Measured on October 28, 2024

Monitoring Well Identification	Purged Volume (gallons)	Temp. (°C)	pH	DO (mg/L)	ORP (mV)	SC (µs/cm°C)
G-1	0	6.4	5.50	3.71	304.4	283.0
G-3	34	8.1	7.07	3.64	229.9	228.9
G-4	7	9.3	6.35	2.17	272.1	223.0
G-5	7	7.0	6.17	2.11	282.2	255.5
G-7	8.5	8.4	6.26	2.04	284.2	285.9
RW16-1	9	7.7	6.69	3.62	252.6	231.4
MW16-2	7.5	7.3	6.78	3.34	246.8	233.3

Key:

°C – degrees Celsius

µS/cm°C – microSiemens per centimeter °C

pH – -log [H<sup>+</sup>]

mg/L – milligrams/liter

NA – not applicable

ORP – oxidation-reduction potential

Temp. – temperature

SC – specific conductance

DO – dissolved oxygen

mV – millivolts

A summary of field measurements and notes generated by the SampleServe™ program are provided in **Appendix C**.

### 3.3 GROUNDWATER SAMPLE ANALYTICAL RESULTS

Pace Analytical Laboratory performed all analysis of groundwater samples for this sampling event. Historical monitoring data for all the wells associated with this site are presented in **Appendix D**. Laboratory analytical results are summarized in **Table 3a**. The laboratory analytical report is provided in **Appendix E**. Analytical sampling did not detect any analytes above GCLs.

### 3.4 DRINKING WATER SAMPLE ANALYTICAL RESULTS

Drinking Water was also sampled this quarter. Drinking water is sampled from three locations on the property annually. **Figure 2** shows the location these samples were taken and the analytical results. Results are summarized in **Table 3b**. The laboratory analytical report is provided in **Appendix E**. Analytical sampling did not detect any analytes above GCLs.

**Table 3a Groundwater Analytical Results**  
Samples collected on October 28, 2024

Sample Identification	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)	Naphthalene (mg/L)	Sodium (mg/L)
G-1	U(0.00100) J3	U(0.00100) J3	U(0.00100) J3	U(0.00300) J3	0.0508 B J	U(0.840)	U(0.000250)	4.76
G-3	U(0.00100) J3	U(0.00100) J3	0.000929 J J3	U(0.00300) J3	0.127 B	0.607 J	U(0.000250)	5.02
Dup (duplicate of G-3)	U(0.00100) J3	U(0.00100) J3	0.00105 J3	U(0.00300) J3	0.114 B	0.493 J	U(0.000250)	5.04
G-4	U(0.00100) J3	U(0.00100) J3	U(0.00100) J3	U(0.00300) J3	0.0595 B J	U(0.840)	U(0.000250)	5.13
G-5	U(0.00100) J3	U(0.00100) J3	U(0.00100) J3	U(0.00300) J3	0.0520 B J	U(0.800)	U(0.000250)	5.34
G-7	U(0.00100) J3	U(0.00100) J3	U(0.00100) J3	U(0.00300) J3	0.0581 B J	U(0.840)	U(0.000250)	4.55
RW16-1	U(0.00100) J3	U(0.00100) J3	0.000452 J J3	0.001666 J J3	0.386 B	U(0.888)	U(0.000250)	8.35
MW16-2	U(0.00100) J3	U(0.00100) J3	U(0.00100) J3	U(0.00300) J3	0.139 B	U(0.800)	U(0.000250)	6.13
<b>GCLs</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>2.2</b>	<b>1.5</b>	<b>0.0017</b>	<b>N/A</b>

**Table 3b Drinking Water Analytical Results**  
Samples collected on October 28, 2024

Sample Identification	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
Reunion Lot 4 (R4) <sup>1</sup>	0.0000526 J	U(0.000500)	U(0.000500)	U(0.000500)
Reunion Lot 5 (R5) <sup>1</sup>	U(0.000500)	U(0.000500)	U(0.000500)	U(0.000500)
Reunion Lots 1&2 (R1+2) <sup>1</sup>	U(0.000500)	U(0.000500)	U(0.000500)	U(0.000500)
<b>GCLs</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>

Key:

- 1 - Drinking water analyzed by method 524.
- B - The same analyte is found in the associated blank
- Bold** - Indicates the concentration exceeds the GCL or, if not detected, the reported detection limit (RDL) exceeds the GCL.
- DRO - Diesel range organics, analyzed by AK102
- GCLs - Groundwater cleanup levels, per Alaska Department of Environmental Conservation 18 Alaska Administrative Code 75.345, Table C, updated September 29, 2018.
- GRO - Gasoline range organics, analyzed by AK101
- J - The identification of the analyte is acceptable; the reported value is an estimate
- J3 - The associated batch QC was outside the established quality control range for precision.
- mg/L - Milligrams per Liter
- NM - Not measured
- TMB - Trimethylbenzene
- U - Undetected above practical quantitation limits shown in parentheses

### 3.5 QUALITY ASSURANCE (QA)/QUALITY CONTROL (QC) REVIEW

Laboratory QC data and the ADEC Laboratory Data Review Checklist are included with the laboratory report in **Appendix E**.



A duplicate sample set was collected to determine the precision of the field collection and laboratory analysis for the sampling event. Sample Duplicate 1 is a duplicate of Sample G-3. Data presented in **Table 4** shows that the precision for the duplicate sample set did not exceed the established QA criteria tolerance for any analyte. All analytes were extracted and analyzed within the applicable hold time.

**Table 4 Laboratory Quality Control Objectives**

Quality Control Designation	Tolerance	Results for this Event
<b>Holding Times</b>		
DRO/Water/to analyze	40 days	13 days
GRO/Water/to analyze	14 days	11 days
VOCs/Water/to analyze	14 days	11 days
<b>Field Duplicates – Precision</b>		
Benzene/Water	± 30%	NC
Toluene/Water	± 30%	NC
Ethylbenzene/Water	± 30%	12.2%
Xylenes/Water	± 30%	NC
Naphthalene/Water	± 30%	NC
GRO/Water	± 30%	10.8%
DRO/Water	± 30%	20.7%
Sodium/Water	± 30%	0.4%

Key:

- % - Percent
- ± - Plus or minus
- Bold** - Indicates the value is above the acceptable range
- NC - Not calculated because the analyte was not detected in one or more sample in the duplicate pair
- DRO - Diesel range organics
- GRO - Gasoline range organics
- PAHs - Polycyclic aromatic hydrocarbons, specifically naphthalene
- TMB - Trimethylbenzene
- VOCs - Volatile organic compounds

## 4.0 REMEDIATION SYSTEM

The on-site groundwater treatment process consists of a Vapor Stripping Circulation system (VSC) and routine injections of a chemox solution into the groundwater table via two remediation wells. An airlift well operates the VSC system.

The frequency of chemox injections is typically monthly, subject to ambient air temperatures being above freezing. The chemox solution consists of a mixture of water and a sodium persulfate compound sold as Klozur One®. Remediation wells RW20-1 and RW20-2 (**Figure 2**) are 4-inch diameter wells used for the chemox injection.

Monthly remediation events were not able to be completed for the fourth quarter due to snow and below freezing temperatures. Chemox injections will begin again in the spring once the temperatures are above freezing and snow and ice are no longer present.

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## 5.0 DISCUSSION OF FINDINGS

The laboratory analytical results for all groundwater monitoring and remediation wells sampled this during this quarterly monitoring event including the drinking water wells do not detect petroleum-associated analytes at concentrations exceeding ADEC GCLs as listed in Alaska Administrative Code (AAC) 18AAC 75.345 Table C (9/18/2019). Historical results for the current and previous monitoring events are presented in **Appendix D**.

Monthly remediation events were not able to be completed for the fourth quarter due to snow and bellowing freezing temperatures. Chemox injections will begin again in the spring once the temperatures are above freezing and snow and ice are no longer present.

The average groundwater gradient across the site was calculated to be approximately 0.004 feet per foot to the south at 189 degrees. The direction of flow and elevation gradient are comparable to historical measurements. All static water levels were measured with the groundwater recirculation system running. The extremely high-water level in G-1 indicates that the recirculated water percolates out of the well relatively slowly, and therefore its effect on the onsite flow regime is less than the water level would indicate.

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

No anomalies were found during this fourth quarter 2024 monitoring event that require additional corrective action or changes to the approved year 2024 Corrective Action Work Plan for this site. The annual work session is planned to be held on December 10, 2024.

## 7.0 LIMITATIONS

Stantec conducted this monitoring event in accordance with the 2024 Corrective Action Work Plan approved by ADEC, and in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions. All sampling activities were completed in accordance with the ADEC *Underground Storage Tanks Procedures Manual – Standard Sampling Procedures* (March 22, 2017). The conclusions in this report are Stantec’s professional opinion, as of the time of the report, and concerning the scope described in the report. The opinions in the document are based on conditions and information existing at the time the scope of work was conducted and do not consider any subsequent changes. This report relates solely to the specific project for which Stantec was retained and the stated purpose for which the report was prepared. The report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient’s own risk.

This report is intended solely for use by the client in accordance with Stantec’s contract with the client. While the report may be provided to applicable authorities having jurisdiction and others for whom the client is responsible, Stantec does not warrant the services to any third party. The report may not be relied upon by any other party without the express written consent of Stantec, which may be withheld at Stantec’s discretion.

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## FIGURES

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- Figure 1      Location and Vicinity Map  
Figure 2      Site Plan with Groundwater Analytical Results  
Figure 3      Groundwater Elevation Contours
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RW16-1 10/28/24	
124-TMB	0.00112
135-TMB	U(0.00100)
BENZENE	U(0.00100)
DRO	U(0.888)
ETHYLBENZENE	0.000452
GRO	0.386
NAPHTHALENE	U(0.000250)
SODIUM	8.35
TOLUENE	U(0.00100)
TOTAL XYLENES	0.001666

MW16-2 10/28/24	
124-TMB	U(0.00100)
135-TMB	U(0.00100)
BENZENE	U(0.00100)
DRO	U(0.800)
ETHYLBENZENE	U(0.00100)
GRO	0.139
NAPHTHALENE	U(0.000250)
SODIUM	6.13
TOLUENE	U(0.00100)
TOTAL XYLENES	U(0.00300)

G-4 10/28/24	
124-TMB	U(0.00100)
135-TMB	U(0.00100)
BENZENE	U(0.00100)
DRO	U(0.840)
ETHYLBENZENE	U(0.00100)
GRO	0.795
NAPHTHALENE	U(0.000250)
SODIUM	5.13
TOLUENE	U(0.00100)
TOTAL XYLENES	U(0.00300)

G-5 10/28/24	
124-TMB	U(0.00100)
135-TMB	U(0.00100)
BENZENE	U(0.00100)
DRO	U(0.890)
ETHYLBENZENE	U(0.00100)
GRO	0.052
NAPHTHALENE	U(0.000250)
SODIUM	5.34
TOLUENE	U(0.00100)
TOTAL XYLENES	U(0.00300)

R4 10/28/24	
124-TMB	--
135-TMB	--
BENZENE	0.0000526
DRO	--
ETHYLBENZENE	U(0.000500)
GRO	--
NAPHTHALENE	--
SODIUM	--
TOLUENE	U(0.000500)
TOTAL XYLENES	U(0.000500)

G-7 10/28/24	
124-TMB	U(0.00100)
135-TMB	U(0.00100)
BENZENE	U(0.00100)
DRO	U(0.840)
ETHYLBENZENE	U(0.00100)
GRO	0.0581
NAPHTHALENE	U(0.000250)
SODIUM	4.55
TOLUENE	U(0.00100)
TOTAL XYLENES	U(0.00300)

G-1 10/28/24	
124-TMB	U(0.00100)
135-TMB	U(0.00100)
BENZENE	U(0.00100)
DRO	U(0.840)
ETHYLBENZENE	U(0.00100)
GRO	0.0508
NAPHTHALENE	U(0.000250)
SODIUM	4.76
TOLUENE	U(0.00100)
TOTAL XYLENES	U(0.00300)

G-3 10/28/24	
124-TMB	0.00115
135-TMB	0.00104
BENZENE	U(0.00100)
DRO	0.607
ETHYLBENZENE	0.000929
GRO	0.127
NAPHTHALENE	U(0.000250)
SODIUM	5.02
TOLUENE	U(0.00100)
TOTAL XYLENES	U(0.00300)

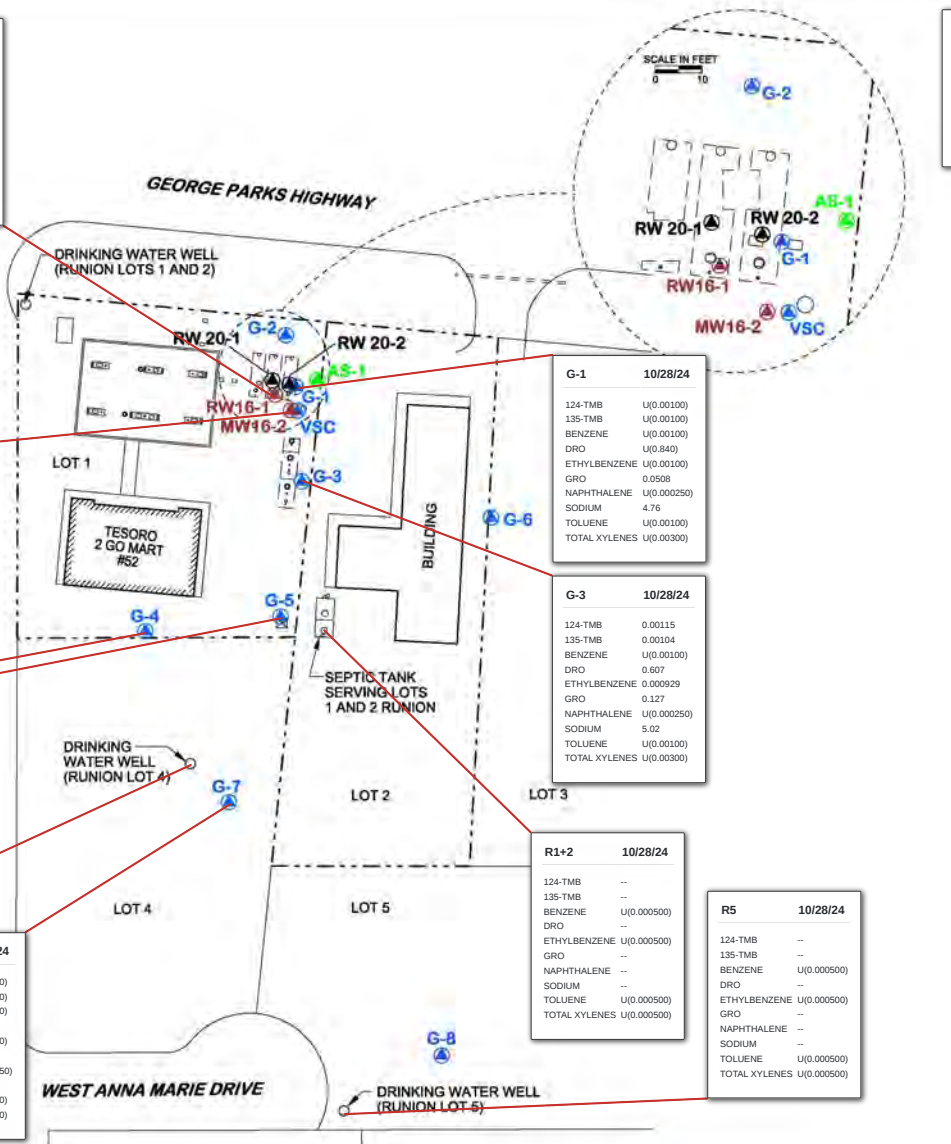
R1+2 10/28/24	
124-TMB	--
135-TMB	--
BENZENE	U(0.000500)
DRO	--
ETHYLBENZENE	U(0.000500)
GRO	--
NAPHTHALENE	--
SODIUM	--
TOLUENE	U(0.000500)
TOTAL XYLENES	U(0.000500)

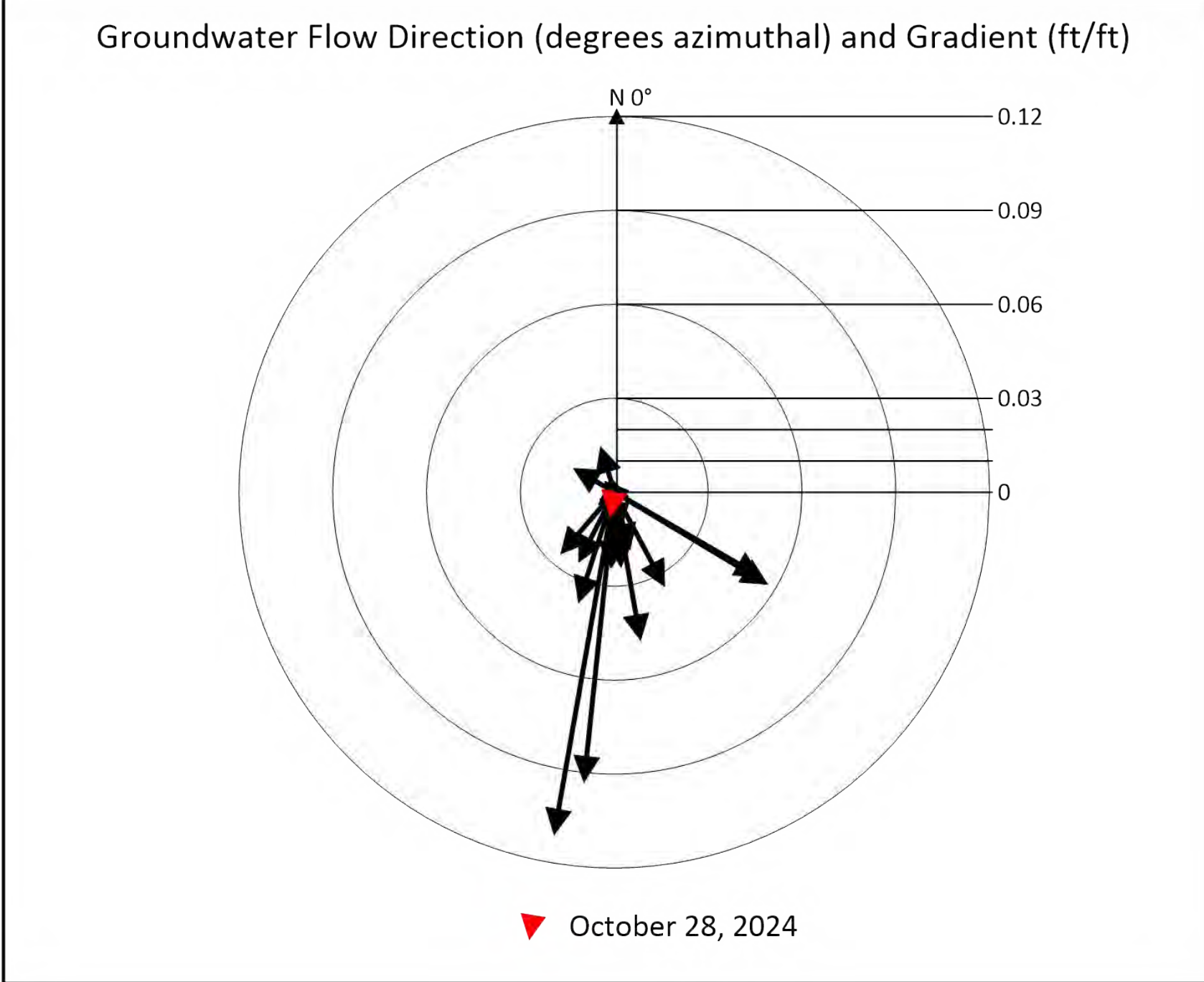
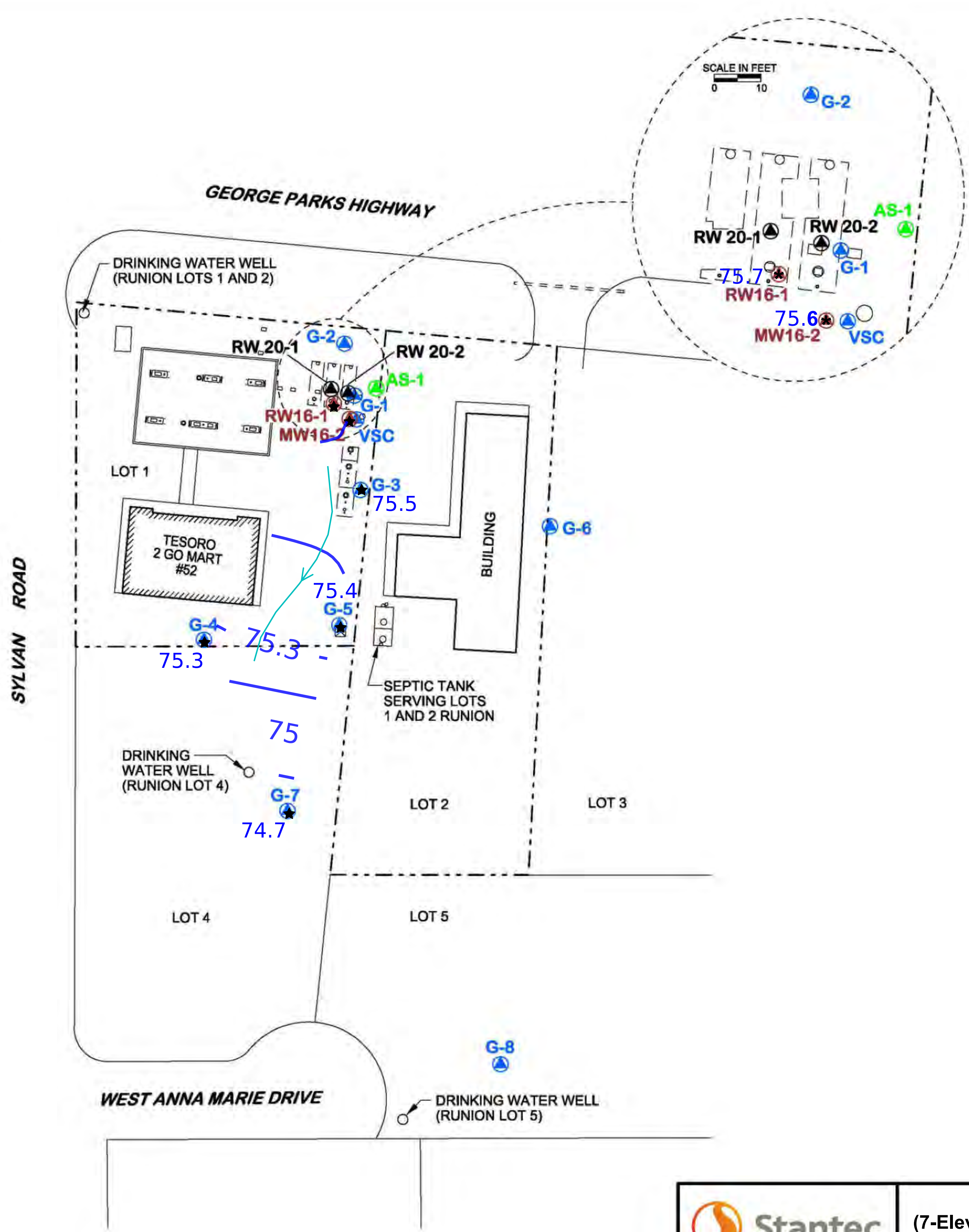
R5 10/28/24	
124-TMB	--
135-TMB	--
BENZENE	U(0.000500)
DRO	--
ETHYLBENZENE	U(0.000500)
GRO	--
NAPHTHALENE	--
SODIUM	--
TOLUENE	U(0.000500)
TOTAL XYLENES	U(0.000500)

SITE DATA COMPARED TO ADEC Groundwater Cleanup Levels (GCLs)		ND NOT DETECTED		124-TMB 0.056 mg/L	
--	NOT SAMPLED	--	NOT SAMPLED	135-TMB	0.06 mg/L
50	SAMPLED & UNDER CRITERION	50	SAMPLED & UNDER CRITERION	BENZENE	0.0046 mg/L
100	SAMPLED & OVER CRITERION	100	SAMPLED & OVER CRITERION	DRO	1.5 mg/L
E2	FREE PRODUCT DISPLAYED IN mg/L	E2	FREE PRODUCT DISPLAYED IN mg/L	ETHYLBENZENE	0.015 mg/L
				GRO	2.2 mg/L
				NAPHTHALENE	0.0017 mg/L
				SODIUM	
				TOLUENE	1.1 mg/L
				TOTAL XYLENES	0.19 mg/L

**LEGEND:**

- PROPERTY LINE
- ⊙ 2020 SOIL BORING/MONITORING WELL
- ⊙ 2016 SOIL BORING/MONITORING WELL
- ⊙ MONITORING WELL
- ⊙ AIR SPARGE WELL
- AS AIR SPARGE
- DRO DIESEL RANGE ORGANICS
- GRO GASOLINE RANGE ORGANICS
- GW Elev GROUNDWATER ELEVATION IN FEET
- NM NOT MEASURED
- TMB TRIMETHYLBENZENE
- U UNDETECTED ABOVE PRACTICAL QUANTIFICATION LIMIT SHOWN IN PARENTHESES
- VSC VAPOR STRIPPING AND CIRCULATION





**LEGEND:**

---	PROPERTY LINE
▲	2020 SOIL BORING/MONITORING WELL
●	2016 SOIL BORING/MONITORING WELL
○	MONITORING WELL
●	AIR SPARGE WELL
AS	AIR SPARGE
DRO	DIESEL RANGE ORGANICS
GRO	GASOLINE RANGE ORGANICS
GW Elev	GROUNDWATER ELEVATION IN FEET
NM	NOT MEASURED
TMB	TRIMETHYLBENZENE
U	UNDETECTED ABOVE PRACTICAL QUANTITATION LIMIT SHOWN IN PARENTHESES
VSC	VAPOR STRIPPING AND CIRCULATION

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**APPENDIX A**  
*Site Background*

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## APPENDIX A – SITE BACKGROUND

**Speedway 5325** (Mile 49 Parks Highway, Wasilla, Alaska)  
**ADEC Facility ID #648; ADEC File #2265.26.006**

**September 1996.** During the removal of the former underground storage tank (UST) fueling system (consisting of several fuel dispensers, two 12,000-gallon gasoline, and one 12,000-gallon diesel USTs) on September 7, 1996, petroleum contamination was encountered in the surrounding soil. Gilfilian Engineering conducted the UST site assessment work. Approximately 240 cubic yards of gasoline and 60 cubic yards of diesel contaminated soil was excavated and treated at Alaska Soil Recycling.

**February 1997.** The Alaska Department of Environmental Conservation (ADEC) reviewed the UST Closure Site Assessment Report prepared by Gilfilian Engineering. Subsequently, a Release Investigation (RI) Work Plan prepared by Gilfilian Engineering was approved by ADEC.

**April 1997.** The findings of the RI (later referred to as Phase I RI) showed high levels of diesel contamination under the diesel dispenser islands and gasoline contamination under the unleaded gasoline UST to 36 feet below ground surface (bgs). The RI included drilling five soil borings and installing and sampling one groundwater monitoring well (identified as G-1). Groundwater was also found to be contaminated. Subsequently, an ADEC-approved work plan was prepared by Gilfilian Engineering for Phase II RI.

**December 1997.** Phase II RI report submitted to ADEC. The RI included drilling soil borings and installing and sampling four groundwater monitoring wells (G-2, G-3, G-4 and G-5).

**April 1998.** ADEC approved the installation of a Soil Vapor Extraction (SVE) system.

**June 1998.** Gilfilian Engineering submitted a Well Search report to ADEC. The well search targeted an area of 0.25-mile radius centered on the gas station site.

**July 1998.** ADEC approved the work plan prepared by Gilfilian Engineering for a Phase III RI.

**August 1998.** A Phase III RI was completed at the site by Gilfilian Engineering. The RI included installing and sampling three groundwater monitoring wells (G-6, G-7, and G-8).

**January 2002.** Several “rising and falling head hydraulic conductivity tests” (slug tests using the Hvorslev method) were performed by Gilfilian Engineering on January 9, 2002. The hydraulic conductivity at Monitoring Wells G-4 and G-7 exceeded 171 feet/day. Based on the high hydraulic conductivity values, Gilfilian Engineering recommended a pilot test to determine the effectiveness of treating the groundwater with a vapor stripping and circulation (VSC) well.

**March/April 2002.** One soil boring was drilled on March 6, 2002, for installation of a VSC well. Benzene, toluene, ethylbenzene, and xylenes (BTEX), gasoline range organics (GRO), and diesel



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range organics (DRO) tested in soil samples collected from the soil boring were detected above ADEC soil cleanup levels (SCLs). In addition, a second soil boring was drilled for installation of an air sparge (AS) well that was designated AS-1. Benzene, ethylbenzene, and GRO were detected above SCLs and BTEX and GRO were above the ADEC groundwater cleanup levels (GCLs) in AS-1. Pilot testing conducted in March and April 2002 showed the hydrogeological formation could not provide adequate water to operate a VSC or AS system at this site. Continued operation of the SVE system only was recommended, and the VSC well was subsequently connected to the SVE system.

**June 2002.** The SVE system was re-started on June 25, 2002, and was set to withdraw vapors from Wells SVE-1, SVE-5, and SVE-6. A significant increase in the volatile contaminant concentrations to 139 parts per million by volume (ppmv) as measured by a photoionization detector (PID), was noted in the SVE system discharge. By July 3, 2002, the volatile levels dropped to 58.5 ppmv, which was possibly related to the significant decrease in the thickness of free product measured in Monitoring Well G-1 (SVE-1).

**December 2002.** An SVE pilot study using a 5-horsepower FL-707 Rotron blower was conducted on December 19, 2002. The purpose was to determine if the use of a larger capacity blower would increase the recovery of volatile petroleum contaminants. The dramatic rise in PID readings during the second quarter of 2002 is attributed to the addition of SVE Wells 5, 6, and VSC.

**October 2003.** A 1-horsepower air compressor was installed for operation of the AS system. The AS well (AS-1) was previously installed at the site in 2002. The VSC manhole was reconfigured to enhance SVE system performance.

**July 2004.** The AS system was converted into a VSC system for pilot testing on July 21, 2004. Down well piping was installed in Monitoring Well VSC and connected to the compressor air supply line. Pilot testing indicated the system could be an effective groundwater treatment option. The AS compressor was removed from the site for maintenance.

**September 2, 2004.** The VSC system was activated following ADEC approval. The VSC system was treating approximately 1 gallon of contaminated groundwater per minute, or 1,440 gallons per day. The treated water was transferred (pumped by air) from the VSC well to Monitoring Well G-1 for circulation.

**October 2007.** Ten confirmation soil borings (CSB-1 through CSB-10) were installed on October 3 through 9, 2007, near the former USTs and areas of previous investigations across the site. Benzene, ethylbenzene, xylenes, GRO, and DRO were detected above the SCLs in two or more borings. Toluene was the only analyte not detected above the SCLs in any soil boring.

**September 2008.** Three chemical oxidation applications were completed by MWH Americas, Inc. (MWH). Sampling of groundwater monitoring wells noted benzene, ethylbenzene, and GRO detected above the GCLs in Monitoring Well G-3.

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**February 2009.** Monitoring Well G-3 showed a consistent trend in increased hydrocarbon concentrations, and a fine sediment with a hydrocarbon odor was found in the bottom of the monitoring well. MWH recommended that the well be re-developed to remove the sediment build-up.

**March 2009.** Monitoring Well G-3 was redeveloped to remove the dark colored sediment. The sediment was noted to have a slight petroleum odor and heavy sheen.

**January/June/August 2010.** MWH performed potassium permanganate chemical oxidation treatments on January 27 and 28, June 11, and August 20, 2010. A solution of 3 percent potassium permanganate (180, 646, and 767 gallons, respectively) was injected into several groundwater monitoring wells.

**October 30, 2012.** The chemical oxidant Klozur CR<sup>®</sup> was injected into three on-site wells (Monitoring Well G-1 and SVE Wells SVE-5 and SVE-6). The Klozur CR<sup>®</sup> injection process was conducted to test the use of the existing remediation infrastructure for a means of delivering the chemical oxidant into the contaminated groundwater aquifer at the site, as well as evaluating the effectiveness of the chemical oxidant.

**October 2012.** Groundwater sample results were non-detect in all four monitoring wells sampled. The water table was considerably higher than normal, and the absence of dissolved contaminants was assumed to be associated with the high-water table. The last time a high-water table was observed was in October 2006, and the concentrations were all non-detects in all monitoring wells except for G-3, which was lower than historical concentrations at that time.

**January 30, 2013.** DRO was detected in Monitoring Wells G-1, G-3, and G-7, and toluene, ethylbenzene, and xylenes were detected in G-3 – with all analytes below the GCLs. The water table was higher than normal, and the concentrations detected were not believed to be indicative of the groundwater conditions at the site.

**December 19, 2013.** A chemical oxidation application of Klozur CR<sup>®</sup> was injected into three on-site wells: Monitoring Well G-1 and Remediation Wells SVE-5 and SVE-6.

**February 2014.** Groundwater sampling showed contaminant levels in all monitoring wells that were sampled remained below the GCLs for the last seven monitoring events.

**May 2014.** DRO was detected in Monitoring Well G-3 at 3.3 milligrams per liter (mg/L), exceeding the GCL for the first time since February 2011. The remediation system was operating on a full-time basis.

**October 2014.** Groundwater sampling showed contaminant levels in all monitoring wells were below GCLs. The remediation system was operating on a full-time basis.

**February 2015.** GRO and DRO were detected at 4.8 and 12 mg/L, respectively, in Monitoring Well G-3. All other analytes were below GCLs. Remediation system operating on full-time basis.

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**May 2015.** GRO was detected at 2.6 mg/L in the duplicate sample collected from Monitoring Well G-3, the primary and all other analytes were below GCLs.

**September 2015.** Groundwater sampling showed contaminant levels in all monitoring wells were below GCLs. The remediation system was operating on a full-time basis.

**October 2015.** Three CSBs were installed by MWH to investigate the extent of any remaining soil contamination at the site. Two areas were investigated: the former diesel dispensers and the former gas dispensers and USTs. Future management strategies at the site may include targeted chemical oxidation in the area of the former gas dispensers and USTs as represented by CSB 9-3, with no further cleanup action at the former diesel dispensers.

**November 2015.** GRO was detected at 3.2 mg/L in Monitoring Well G-3. An analytical sample was collected from the VSC well which indicated all analytes were below GCLs for the first time since September 2004. The remediation system was offline upon arrival at the site and remained offline pending groundwater conditions and further analytical sampling.

**January 2016.** The first quarter 2016 monitoring event was conducted on January 28, 2016. Analytical results from Remediation Well VSC were below PQLs.

**May 2016.** The second quarter 2016 monitoring event was conducted on May 9, 2016. All analytes were below the GCLs, only Monitoring Well G-3 had analytes detected above PQLs. Monitoring Wells G-2 and G-5 had insufficient water for sampling.

Four CSBs were placed at four locations surrounding the 2015 CSB 9-3, to the north, south, east, and west. Two discrete analytical soil samples were collected from CSB 16-1, CSB 16-2, and CSB 16-4, and one sample from CSB 16-3. These samples were collected from the locations with the highest PID readings, or at the water table interface if no detections were observed in field screened samples. Soil Borings CSB 16-1 and CSB 16-2 were completed with PVC riser and screen assemblies to provide future access points for monitoring and/or remediation activities.

**October 2016.** The third quarter 2016 monitoring event took place on October 24, 2016. All wells listed in the 2016 Work Plan to be sampled in the third quarter had sufficient water for sampling. Monitoring Well G-3 had GRO detected above GCL. New Wells RW16-1 and MW16-2 were sampled for the first time. Remediation Well RW16-1 had all analytes, except benzene and toluene, detected above their GCLs. Monitoring Well MW16-2 had analytes detected above PQLs, but none above GCLs. The VSC system was not operating.

**December 2016.** The fourth quarter 2016 monitoring event took place on December 9, 2016. All wells listed in the 2016 Work Plan to be sampled in the fourth quarter had sufficient water for sampling. Monitoring Well G-3 had GRO detected above GCL (update effective November 6, 2016). Drinking water samples had no detections above PQLs. The VSC system was not operating.

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**February 2017.** The first quarter 2017 monitoring event took place on February 8, 2017. Monitoring Wells G-1 and G-3 purged dry and did not recover sufficiently to allow for sampling. Monitoring Well G-5 was dry upon arrival at the site. The SVE treatment system was not operational and will require maintenance to the blower system following spring breakup.

**April and May 2017.** The second quarter 2017 monitoring event took place on April 25, 2017. Routine maintenance was conducted on the SVE and VSC systems, but due to unresolved electrical power/control issues, both systems are currently not operating until additional corrective action services are provided by an electrician. On May 3, 2017, the first phase of the pilot test was initiated with an injection of a chemical oxidant (chemox) consisting of Klozur CR<sup>®</sup> into the new Remediation Well RW16-1. The pilot test will be continued during the third and fourth quarters of 2017, when the wells will be resampled to determine the impact of the chemox injection. Subject to the findings of the 2017 monitoring events, the pilot test may be continued in 2018 with several more injections of Klozur CR<sup>®</sup>.

**October 2017.** The fourth quarter 2017 monitoring event took place on October 20, 2017. The SVE and VSC treatment systems were not operating due to electrical control systems malfunctions. The treatment systems are scheduled for replacement and/or upgrade in 2018. The pilot test program for the chemox injection was initiated in May 2017 in accordance with the ADEC approved work plan for the 2017 Work Plan Task 3. The test results for intrinsic parameters measured during the October 2017 monitoring event indicate no unusual findings and will be monitored in future quarterly monitoring events scheduled for 2018 with additional applications of Klozur CR<sup>®</sup> into Remediation Well RW16-1.

**February 2018.** The first quarter 2018 monitoring event took place on February 13, 2018. The SVE treatment system was off-line pending repairs. The operation of the VSC system was interrupted in the second quarter of 2017 relating to an issue with the variable frequency drive on the compressor and will be brought back online when the system can be evaluated by a licensed electrician.

**August 2018.** The third quarter monitoring event took place on August 17, 2018. The SVE and VSC treatment systems are not operating pending future repairs and/or modifications to the electrical systems which will be evaluated by a licensed electrician.

**October 2018.** The fourth quarter groundwater monitoring event was conducted on October 25, 2018. The VSC treatment system is currently operating and pumping, via the air-lift pump, approximately 2 to 3 gallons per minute on a continuous basis. During the 3<sup>rd</sup> quarter of 2018, Stantec completed a chemox injection Klozur One<sup>®</sup>. Fifty-five pounds of Klozur One<sup>®</sup> was mixed with approximately 100 gallons of clean water. The chemox solution was injected into Remediation Well RW 16-1.

**February 2019.** The first quarter 2019 monitoring event took place on February 26, 2019. The VSC and SVE treatment systems were found to be off (inoperative) upon arrival at the site due to an apparent power surge. Upon restart of the systems, the recirculation line was found to be frozen. The VSC and SVE systems were left off until spring thaw.

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**April 2019.** The second quarter 2019 groundwater monitoring event was conducted on April 23 and 24, 2019. During this monitoring event, the on-site groundwater remediation system, consisting of a VSC system was inspected to determine its operational condition. The VSC treatment system was found to be off (in-operative) upon arrival at the site due to an apparent power surge. The VSC system was left off until such time the electrical supply system could be evaluated to determine the cause of the power outages to the VSC compressor.

**July 2019.** The third quarter 2019 groundwater monitoring event was conducted on July 16, 2019. Groundwater flow direction and gradient were noted to be inconsistent with the historical results for this site. The change in groundwater flow may be a result of elevation changes due to “frost jacking” of the well casings on one or more monitoring wells that were noted during the sampling event. The elevations of the wells will be resurveyed during the 4<sup>th</sup> quarter monitoring event. The VSC groundwater treatment system was found to be off (inoperative) upon arrival at the site due to an apparent power surge. On a subsequent site visit conducted during the week of July 22, the VSC compressor was activated and currently remains operational. On July 25, 2019, Stantec injected a chemox solution consisting of 55 pounds of Klozur One® via a pressurized pump system into the remediation well RW 16-1.

**October 2019.** The fourth quarter 2019 groundwater monitoring event was conducted on October 17, 2019. The elevations of the wells were resurveyed during this monitoring event. The VSC groundwater treatment system was found to be operating within the normal range of performance with the production of 1 to 2 gallons per minute of recirculated groundwater with an air lift pump in the VSC well. Stantec injected a chemox solution consisting of 55 pounds of Klozur One® via gravity flow into the remediation well RW 16-1.

**August 2020.** This third quarter 2020 Monitoring Event Report was conducted on August 12, 2020. During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system was inspected to determine operational condition. The VSC compressor that operates the air-lift well was not operating due to a recent power outage. The compressor was activated and the flow from the air-lift well was adjusted to provide a constant flow of approximately 1 to 2 gallons per minute of aerated groundwater that is discharged into MW-1 for recirculation.

**October 2020.** This fourth quarter 2020 Monitoring Event was conducted on October 2, 2020. During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system (see Figure 3) was inspected to determine operational condition. The VSC compressor that operates the air-lift well was operational and providing adequate flow upon arrival on site. On October 27, 2020, Stantec finished the installation and development of two 4-inch diameter chemox injection wells, RW 20-1 and RW 20-2, located north of Remediation Well RW16-1. On November 27, 2020, Stantec conducted the first 2020 injection of a Klozur One® solution into the new chemox injection remediation wells, RW 20-1 and RW 20-2. The installation of the new wells will be described in a technical memorandum that will be submitted to ADEC.

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**March 2021.** This first quarter 2021 monitoring event was conducted on March 31, 2021. During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system (see Figure 3) was inspected to determine operational condition. The VSC compressor that operates the air-lift well was operational, but the air-lift well was not checked to determine if the well was discharging to the recirculation/receiving well (MW G-1). The staff noted there was a significant ice plug at the top of MW G-1 which prevented access to the well.

**May 2021.** This second quarter 2021 monitoring event was conducted on May 18, 2021. During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system that includes of an air-lift well (see Figure 3), was inspected to determine operational condition. The VSC compressor that operates the air-lift well was operational and observed to be discharging to the recirculation/receiving well (MW G-1). In addition, a chemox injection into the groundwater table via remediation wells RW 20-1 and RW 20-2 was completed during the monitoring event. A total of 220 pounds of Klozur One® and approximately 500 gallons of clean water from the store's water system was injected.

**July 2021.** Completed 3<sup>rd</sup> quarterly monitoring event. During this monitoring event, the on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system was inspected to determine operational condition. The VSC compressor that operates the air-lift well was not operational due to mechanical failure in one of the fins. The remediation event on July 21<sup>st</sup>, 2021, consisted of a total chemical oxidation (chemox) injection of 220 pounds of Klozur® One product combined with 110 gallons of potable water from Tesoro store into two treatment points (RW 20-1 and RW 20-2). The solution was further pushed into the formation with an additional 420 gallons of water.

**October 2021.** Completed 4th quarterly monitoring event. Earlier this year the compressor for the VSC system seized up and was shut down for several months. In September of this year, Stantec ordered a replacement blower that consisted of a Becker compressor model DT-4.10, 0.6 horsepower. The blower was placed into operation on October 4, 2021, and continues to operate the air-lift well to this date on a continuous basis (24-hours per day). The VSC/air-lift well discharges into MW G-1 at an estimated rate of 1 to 2 gpm.

**March 2022.** Completed 1st quarterly monitoring event. The on-site groundwater remediation system, consisting of a vapor stripping and circulation (VSC) system was not assessed due to the presence of ice in the receiving well, MW G-1. However, it was noted the VSC compressor that operates the air-lift well was operational upon arriving at the site. The air-lift well typically discharges an approximate flow rate of 1 to 2 gallons per minute (gpm) into MW G-1. The remediation event on March 24, 2022, consisted of a chemical oxidation (chemox) injection of a total of 110 pounds of Klozur One® product mixed with 100 gallons of potable water from Tesoro store into each of the two injection wells (RW 20-1 and RW 20-2). The total amount of 220 pounds of chemox was injected into the groundwater table and an additional several hundred gallons of potable water used to hydraulically “push” the chemox solution into the aquifer.

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**May 2022.** Completed 2nd quarterly monitoring event. The operation of the on-site groundwater remediation system was assessed during the monitoring event. It was found that the PVC piping used for injecting air into the air-lift well had broken over the winter, making the well inoperable. This was repaired during the monitoring event, and the blower was restarted at 7.5 psi with water flowing into G-1. Subsequently it was found that the ground surface around the air lift manhole had subsided, creating a pothole in the parking lot. The blower was turned off in June 2022 to ensure it would not exacerbate the subsidence problem.

**July 2022:** Completed 3<sup>rd</sup> quarterly monitoring event. On July 20, 2022, a remediation event was completed that consisted of a chemical oxidant (chemox) injection of a total of 110 pounds of Klozur One<sup>®</sup> product combined with 100 gallons of potable water from the 7-11 convenience store into each of the two injection wells (RW 20-1 and RW 20-2). The total amount of 220 pounds of chemox was injected into the groundwater table. The chemox solution was hydraulically “pushed” into the formation with additional injection of several hundred gallons of potable water.

The collapsed manhole housing the airlift VSC well was replaced on June 21, and included placing another manhole the same size over remediation well RW 20-1 to facilitate a change in plumbing of the remediation system. On July 5, Stantec installed buried insulated piping from the outlet of the VSC well to discharge on a continuous basis (24 hours per day) into RW 20-1. Flow discharged from the VSC well is split between MW G-1 and RW 20-1. During the chemox injection on July 20, flow into RW 20-1 was estimated at 1 to 2 gpm.

**October 2022:** The groundwater monitoring event was conducted on October 12, 2022. On September 28, 2022, a monthly remediation event was completed that involved the injection of a chemical oxidant (chemox). The chemox injection consisted of 110 pounds of Klozur One<sup>®</sup> product combined with 100 gallons of potable water (from the 7-Eleven convenience store) injected by gravity into each of the two injection wells RW 20-1 and RW 20-2. The chemox solution was hydraulically “pushed” into the formation with additional injection of several hundred gallons of potable water into each of the remediation injection wells.

In July 2022, the air lift VSC well was plumbed to split flow between G-1 and RW 20-1. Currently, excess flow from G-1 is diverted to RW 20-1 at a rate of approximately 1.5 gallons per minute. On September 28, the Becker blower which operates the air lift VSC well was taken out of commission for maintenance, including replacement of filters and graphite fins. The blower was re-installed on October 12 after the groundwater monitoring event. It is anticipated that the graphite fins on the blower will need to be replaced every 12 months, depending on the consistency of operation of the blower. During the chemox injection event the new manholes that were installed June 21 of this year were insulated, and the VSC system is expected to be operation through the winter.

**March 2023:** Completed 1st quarterly monitoring event. On March 29<sup>th</sup>, 2023, a monthly remediation event was completed that involved the injection of a chemical oxidant (chemox). The chemox injection consisted of 110 pounds of Klozur One<sup>®</sup> product combined with 100 gallons of potable water (from the 7-Eleven convenience store) injected by gravity into each of the two injection wells RW 20-1 and RW 20-2. The chemox solution was hydraulically “pushed” into the formation with additional injection of several hundred gallons of potable water into each of the

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remediation injection wells. On March 8<sup>th</sup>, 2023, the Becker blower was removed and taken out of commission for maintenance. Graphite fins in the blower were replaced and the blower was reinstalled on April 4<sup>th</sup>, 2023. It is anticipated that the graphite fins on the blower will need to be replaced every 12 months, depending on the consistency of operation of the blower.

**April 2023:** Completed 2nd quarterly monitoring event.

**July 2023:** Completed 3<sup>rd</sup> quarterly monitoring event. On July 14, 2023, a monthly remediation event was completed that involved the injection of chemox. The chemox injection consisted of 100 pounds of Klozur One<sup>®</sup> product combined with 110 gallons of potable water (from the 7-Eleven convenience store) injected by gravity into each of the two injection wells (RW20-1 and RW20-2). The chemox solution was hydraulically “pushed” into the formation with additional injection of several hundred gallons of potable water into each of the remediation injection wells.

**October 2023:** Completed 4th quarterly monitoring event. The laboratory analytical sample results showed petroleum associated analytes were not present at concentrations exceeding ADEC GCLs as listed in Alaska Administrative Code (AAC) 18AAC 75.345 Table C (9/18/2019) in any sampled monitoring wells. On October 9, 2023, a monthly remediation event was completed that involved the injection of chemox. The chemox injection consisted of 100 pounds of Klozur One<sup>®</sup> product combined with 110 gallons of potable water (from the 7-Eleven convenience store) injected by gravity into each of the two injection wells (RW20-1 and RW20-2). The chemox solution was hydraulically “pushed” into the formation with additional injection of several hundred gallons of potable water into each of the remediation injection wells.

**March 2024:** Completed 1st quarterly monitoring event. On April 23, Stantec conducted a monthly injection of chemox into the remediation wells RW20-1 and RW20-2. The event included the injection of two 55-gallon bags of Klozur<sup>®</sup> One, mixed with approximately 50 gallons of water each from the store’s hose tap, for a total of 110 pounds of chemox product and 100 gallons of tap water per well. The chemox was subsequently hydraulically pushed into formation by the injection of an additional 100-200 gallons of water each. The pipes that circulate the water through the wells were frozen and were unable to successfully deliver water to wells G-1 and RW20-1.

**June 2024:** Completed 2nd quarterly monitoring event. On June 19, Stantec conducted a monthly injection of chemox into the remediation wells RW20-1 and RW20-2. The event included the injection of two 55-pound bags of Klozur<sup>®</sup> One per well, mixed with approximately 50 gallons each of water from the store’s hose tap, for a total of 220 pounds of chemox product injected onsite. The chemox was subsequently hydraulically pushed into formation by the injection of an additional 100 gallons into RW20-2. RW20-1 is flushed continuously with water from the airlift well recirculation system.

**August 2024:** Completed 3<sup>rd</sup> quarterly monitoring event. The laboratory analytical sample results do not detect petroleum-associated analytes at concentrations exceeding ADEC GCLs as listed in Alaska Administrative Code (AAC) 18AAC 75.345 Table C (9/18/2019). On August 29, Stantec conducted a monthly injection of chemox into the remediation wells RW20-1 and RW20-2. The event included the injection of two 55-pound bags of Klozur<sup>®</sup> One per well, mixed with approximately 50 gallons each of water from the store’s hose tap, for a total of 220 pounds of chemox product injected onsite. The chemox was subsequently hydraulically pushed into

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formation by the injection of an additional 100 gallons into RW20-2. RW20-1 is flushed continuously with water from the air-lift well recirculation system.

**October 2024:** Completed 4th quarterly monitoring event. The laboratory analytical sample results do not detect petroleum-associated analytes at concentrations exceeding ADEC GCLs as listed in Alaska Administrative Code (AAC) 18AAC 75.345 Table C (9/18/2019). Monthly remediation events were not able to be completed for the fourth quarter due to snow and below freezing temperatures.

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**APPENDIX B**

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*Field Methods and Procedures*

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## APPENDIX B – FIELD METHODS AND PROCEDURES

### Speedway Store 5325

The following table presents the proposed tasks for the Alaska Department of Environmental Conservation (ADEC) approved 2024 Corrective Action Plan (CAP). The scope of these tasks is based on the results and findings of the monitoring and remediation completed to date at this site.

#### 2024 Work Plan Schedule for Speedway Store 5325

Work Plan Task 2024		1 <sup>st</sup> Quarter	2 <sup>nd</sup> Quarter	3 <sup>rd</sup> Quarter	4 <sup>th</sup> Quarter
Task 1	Monitoring Wells: G-1, G-3, G-5, G-7, MW16-2, and RW16-1	V, G, D, P, S & I	V, G, D, P, S, & I	V, G, D, P, S & I	V, G, D, P, S & I
	Monitoring Wells G-2 and G-4				V, G, D, P, S & I
	Drinking Water Wells serving Lots 1 and 2, Lot 4, and Lot 5 in Runion Subdivision				D & E
Task 2	O&M Air-Lift Well Remediation System	✓	✓	✓	✓
Task 3	Chemical Oxidation Treatment	✓	✓	✓	✓

Key:

- AK – Alaska Test Method
- D – Diesel range organics by AK102.
- E – Drinking water parameters by EPA Method 524.2.
- G – Gasoline range organics by AK101.
- I – Intrinsic indicators include dissolved oxygen, specific conductance, oxygen-reduction potential, pH, and temperature.
- O&M – Operation and Maintenance
- V – Volatile organic compounds by EPA Test Method 8260C.
- S – Sodium analyzed by Metals (ICP) Method 6010C.
- P – Polynuclear aromatic hydrocarbons (PAHs), i.e., semi-volatile organic compounds associated with petroleum fuel, by EPA Test Method 8270D Selective Ion Monitoring (SIM).

The CAP for the year 2024 will be implemented by Stantec on behalf of Speedway. Groundwater monitoring will be conducted to track migration and trends of contaminants that are present at the site. All sampling activities will be completed in accordance with ADEC’s *Underground Storage Tanks*

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*Procedures Manual– Standard Sampling Procedures* (March 22, 2017). The methods that will be used for conducting a monitoring event, unless otherwise noted in the monitoring report, will include:

- The static water levels in the monitoring wells will be measured with respect to the top of each well casing. The elevation of the static water level will be based on an arbitrary datum established on-site during a vertical control survey that will be completed by Stantec on an annual basis. The survey will be performed during the summer after the seasonal frost layer thaws.
- The monitoring wells will be purged of a minimum of three well bore volumes prior to collecting the water samples. A new, disposable, Teflon<sup>®</sup> bailer will be used to sample each well. The first bail of water removed from each well will be examined for petroleum odor, sheen, and any other unique physical features.
- Water samples will be collected in laboratory-supplied sample containers. The samples will be delivered to an ADEC-approved laboratory in accordance with standard chain-of-custody procedures.
- Additional water samples will be collected from the monitoring wells after the well has been purged, as described above, and tested in the field for chemical and physical intrinsic parameters listed in the 2024 Work Plan Schedule shown above.

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## **APPENDIX C**

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### *Field Measurements and Notes*

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Site Name: TNS #52

Date: 10/28/2024,  
12:34 PM

Sydney  
Name(s): Souza



Well ID	Free Product (ft)	Water (ft)	Bottom (ft)
G-3	N/A	23.62	
TOC	Well Dia. (in)	Screen Length (ft)	Well Material
99.13	4		
Latitude (decimal)		Longitude (decimal)	
61.5820198468		-149.630777474	

Analytical Parameters	Bottles to be filled
PAH	2 X 40 mL Amber VOAs ✓
BTEX/Fuel	3 X 40 mL Amber VOAs ✓
GRO	3 X 40 mL Amber VOAs ✓
DRO	2 X 100 mL Amber Glass ✓
Sodium	1 X 250 mL Poly ✓



Type/Model Meter Used: \_\_\_\_\_  
 Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_ Cell  
 Vol: \_\_\_\_\_  
 Type/Model Pump Used: \_\_\_\_\_  
 Pump Intake? \_\_\_\_\_ ft  
 Above / Below Bottom / TOC

Purge water disposal: Pour on ground  
**QA/QC: Duplicate #1**

Time	Depth to Water (ft)	Flow Rate (ml/Min)	pH		Conductivity (ms/cm)		Turbidity (NTU)		Dissolved O2 (mg/l)		Temp. (Celsius)		Oxygen Reduction Potential (ORP) mv	
			Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)	Reading	Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change* (±10mv)
12:33	23.62													

Sample Collected? Yes Time 12:34 Total Pumped from Well? 0 Gal

NOTES / COMMENTS:

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\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.

Site Name: TNS #52

Date: 10/28/2024,  
10:39 AM

Sydney  
Name(s): Souza

Well ID	Free Product (ft)	Water (ft)	Bottom (ft)	
G-4	N/A	23.02		
TOC	Well Dia. (in)	Screen Length (ft)	Well Material	
98.29				
Latitude (decimal)		Longitude (decimal)		Weather
61.5817561273		-149.631357438		

Analytical Parameters	Bottles to be filled
PAH	2 X 40 mL Amber VOAs ✓
BTEX/Fuel	3 X 40 mL Amber VOAs ✓
GRO	3 X 40 mL Amber VOAs ✓
DRO	2 X 100 mL Amber Glass ✓
Sodium	1 X 250 mL Poly ✓



Type/Model Meter Used: \_\_\_\_\_  
 Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_ Cell  
 Vol: \_\_\_\_\_  
 Type/Model Pump Used: \_\_\_\_\_  
 Pump Intake? \_\_\_\_\_ ft  
 Above / Below      Bottom / TOC

Purge water disposal: Pour on ground

Time	Depth to Water (ft)	Flow Rate (ml/Min)	pH		Conductivity (ms/cm)		Turbidity (NTU)		Dissolved O2 (mg/l)		Temp. (Celsius)		Oxygen Reduction Potential (ORP) mv	
			Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)	Reading	Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change* (±10mv)
10:39	23.02	<del>X</del>												

Sample Collected? Yes      Time 10:39      Total Pumped from Well? 0.0 L

NOTES / COMMENTS:

\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.

Site Name: TNS #52

Date: 10/28/2024,  
10:35 AM

Sydney  
Name(s): Souza

Well ID	Free Product (ft)	Water (ft)	Bottom (ft)
G-5	N/A	26.02	
TOC	Well Dia. (in)	Screen Length (ft)	Well Material
101.44			
Latitude (decimal)		Longitude (decimal)	Weather
61.581788987		-149.630862504	

Analytical Parameters	Bottles to be filled
PAH	2 X 40 mL Amber VOAs ✓
BTEX/Fuel	3 X 40 mL Amber VOAs ✓
GRO	3 X 40 mL Amber VOAs ✓
DRO	2 X 100 mL Amber Glass ✓
Sodium	1 X 250 mL Poly ✓



Type/Model Meter Used: \_\_\_\_\_  
 Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_ Cell \_\_\_\_\_  
 Vol: \_\_\_\_\_  
 Type/Model Pump Used: \_\_\_\_\_  
 Pump Intake? \_\_\_\_\_ ft  
 Above / Below Bottom / TOC

Purge water disposal: Pour on ground

Time	Depth to Water (ft)	Flow Rate (ml/Min)	pH		Conductivity (ms/cm)		Turbidity (NTU)		Dissolved O2 (mg/l)		Temp. (Celsius)		Oxygen Reduction Potential (ORP) mv	
			Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)	Reading	Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change* (±10mv)
10:34	26.02	X												

Sample Collected? Yes Time 10:35 Total Pumped from Well? 0 Gal

NOTES / COMMENTS:

\_\_\_\_\_

\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.

Site Name: TNS #52

Date: 10/28/2024,  
9:59 AM

Sydney  
Name(s): Souza



Well ID	Free Product (ft)	Water (ft)	Bottom (ft)
G-7	N/A	24.70	
TOC	Well Dia. (in)	Screen Length (ft)	Well Material
99.42	2.0		pvc
Latitude (decimal)		Longitude (decimal)	
61.581454289		-149.631059783	

Analytical Parameters	Bottles to be filled
PAH	2 X 40 mL Amber VOAs ✓
BTEX/Fuel	3 X 40 mL Amber VOAs ✓
GRO	3 X 40 mL Amber VOAs ✓
DRO	2 X 100 mL Amber Glass ✓
Sodium	1 X 250 mL Poly ✓

Purge water disposal: Pour on ground

Type/Model Meter Used: \_\_\_\_\_  
 Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_ Cell \_\_\_\_\_  
 Vol: \_\_\_\_\_  
 Type/Model Pump Used: \_\_\_\_\_  
 Pump Intake? \_\_\_\_\_ ft  
 Above / Below Bottom / TOC

Time	Depth to Water (ft)	Flow Rate (ml/Min)	pH		Conductivity (ms/cm)		Turbidity (NTU)		Dissolved O2 (mg/l)		Temp. (Celsius)		Oxygen Reduction Potential (ORP) mv	
			Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)	Reading	Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change* (±10mv)
09:58	24.7	<del> </del>												

Sample Collected? Yes Time 09:59 Total Pumped from Well? 0 Gal

NOTES / COMMENTS:

\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.

Site Name: TNS #52

Date: 10/28/2024,  
11:50 AM

Sydney  
Name(s): Souza



Well ID	Free Product (ft)	Water (ft)	Bottom (ft)
MW16-2	N/A	23.61	
TOC	Well Dia. (in)	Screen Length (ft)	Well Material
99.2			
Latitude (decimal)		Longitude (decimal)	Weather
61.5821668		-149.6308637	

Analytical Parameters	Bottles to be filled
PAH	2 X 40 mL Amber VOAs ✓
BTEX/Fuel	3 X 40 mL Amber VOAs ✓
GRO	3 X 40 mL Amber VOAs ✓
DRO	2 X 100 mL Amber Glass ✓
Sodium	1 X 250 mL Poly ✓



Purge water disposal: Pour on ground

Type/Model Meter Used: \_\_\_\_\_  
 Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_ Cell  
 Vol: \_\_\_\_\_  
 Type/Model Pump Used: \_\_\_\_\_  
 Pump Intake? \_\_\_\_\_ ft  
 Above / Below Bottom / TOC

Time	Depth to Water (ft)	Flow Rate (ml/Min)	pH		Conductivity (ms/cm)		Turbidity (NTU)		Dissolved O2 (mg/l)		Temp. (Celsius)		Oxygen Reduction Potential (ORP) mv	
			Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)	Reading	Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change* (±10mv)
11:43	23.61	<del> </del>												

Sample Collected? Yes Time 11:50 Total Pumped from Well? 0 Gal

NOTES / COMMENTS:

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\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.

Site Name: TNS #52

Date: 10/28/2024, 10:37 AM

Sydney  
Name(s): Souza

Well ID	Free Product (ft)	Water (ft)	Bottom (ft)
R1+2	N/A		
TOC	Well Dia. (in)	Screen Length (ft)	Well Material
Latitude (decimal)		Longitude (decimal)	Weather

Analytical Parameters	Bottles to be filled
N/A	

Type/Model Meter Used: \_\_\_\_\_  
Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_ Cell  
Vol: \_\_\_\_\_  
Type/Model Pump Used: \_\_\_\_\_  
Pump Intake? \_\_\_\_\_ ft  
Above / Below      Bottom / TOC

Purge water disposal: Pour on ground

Time	Depth to Water (ft)	Flow Rate (ml/Min)	pH		Conductivity (ms/cm)		Turbidity (NTU)		Dissolved O2 (mg/l)		Temp. (Celsius)		Oxygen Reduction Potential (ORP) mv	
			Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)	Reading	Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change* (±10mv)
10:36		<del>X</del>												

Sample Collected? No      Time 10:37      Total Pumped from Well? 0.0 L

NOTES / COMMENTS:

\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.



Site Name: TNS #52

Date: 10/28/2024, 9:41 AM

Sydney  
Name(s): Souza

Well ID	Free Product (ft)	Water (ft)	Bottom (ft)
R4	N/A		
TOC	Well Dia. (in)	Screen Length (ft)	Well Material
	Latitude (decimal)	Longitude (decimal)	Weather

Analytical Parameters	Bottles to be filled
N/A	

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Type/Model Meter Used: \_\_\_\_\_  
 Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_ Cell  
 Vol: \_\_\_\_\_  
 Type/Model Pump Used: \_\_\_\_\_  
 Pump Intake? \_\_\_\_\_ ft  
 Above / Below      Bottom / TOC

Purge water disposal: Pour on ground

Time	Depth to Water (ft)	Flow Rate (ml/Min)	pH		Conductivity (ms/cm)		Turbidity (NTU)		Dissolved O2 (mg/l)		Temp. (Celsius)		Oxygen Reduction Potential (ORP) mv	
			Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)	Reading	Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change* (±10mv)
09:41		X												

Sample Collected? No                      Time 09:41                      Total Pumped from Well? 0.0 L

NOTES / COMMENTS:

\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.

Site Name: TNS #52

Date: 10/28/2024, 9:51 AM

Sydney  
Name(s): Souza

Well ID	Free Product (ft)	Water (ft)	Bottom (ft)
R5	N/A		
TOC	Well Dia. (in)	Screen Length (ft)	Well Material
	Latitude (decimal)	Longitude (decimal)	Weather

Analytical Parameters	Bottles to be filled
N/A	

Type/Model Meter Used: \_\_\_\_\_  
 Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_ Cell  
 Vol: \_\_\_\_\_  
 Type/Model Pump Used: \_\_\_\_\_  
 Pump Intake? \_\_\_\_\_ ft  
 Above / Below Bottom / TOC

Purge water disposal: Pour on ground

Time	Depth to Water (ft)	Flow Rate (ml/Min)	pH		Conductivity (ms/cm)		Turbidity (NTU)		Dissolved O2 (mg/l)		Temp. (Celsius)		Oxygen Reduction Potential (ORP) mv	
			Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)	Reading	Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change* (±10mv)
09:51		<del>X</del>												

Sample Collected? No Time 09:51 Total Pumped from Well? 0.0 L

NOTES / COMMENTS:

\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.



Site Name: TNS #52

Date: 10/28/2024,  
11:42 AM

Sydney  
Name(s): Souza



Well ID	Free Product (ft)	Water (ft)	Bottom (ft)	
RW16-1	N/A	23.78		
TOC	Well Dia. (in)	Screen Length (ft)	Well Material	
99.44				
Latitude (decimal)		Longitude (decimal)		Weather
61.5821994		-149.6309133		

Analytical Parameters	Bottles to be filled
PAH	2 X 40 mL Amber VOAs ✓
BTEX/Fuel	3 X 40 mL Amber VOAs ✓
GRO	3 X 40 mL Amber VOAs ✓
DRO	2 X 100 mL Amber Glass ✓
Sodium	1 X 250 mL Poly ✓

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Type/Model Meter Used: \_\_\_\_\_  
 Calibrated: (date) \_\_\_\_\_ (time) \_\_\_\_\_ Cell Vol: \_\_\_\_\_  
 Type/Model Pump Used: \_\_\_\_\_  
 Pump Intake? \_\_\_\_\_ ft  
 Above / Below Bottom / TOC

Purge water disposal: Pour on ground

Time	Depth to Water (ft)	Flow Rate (ml/Min)	pH		Conductivity (ms/cm)		Turbidity (NTU)		Dissolved O2 (mg/l)		Temp. (Celsius)		Oxygen Reduction Potential (ORP) mv	
			Reading	Change* (±0.1)	Reading	Change* (±3%)	Reading	Change* (±10% or <5)	Reading	Change* (±10% or <0.5)	Reading	Change* (±3%)	Reading	Change* (±10mv)
11:41	23.78	<del>X</del>												

Sample Collected? Yes Time 11:42 Total Pumped from Well? 0 Gal

NOTES / COMMENTS:

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\*Minimum pumping time 15 Mins. - Collect data every 3 mins once flow through cell is full or once every volume of the flow through cell based on flow rate, which ever is longest. Indicator Parameters Have Stabilized When 3 Consecutive Readings Are Within: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for ORP; and ± 10% for Turbidity (when Turbidity is above 5 NTUs) or 3 readings less than 5.0 NTUs; ± 10% mg/l Dissolved Oxygen (when Dissolved Oxygen is above 0.5mg/l) or 3 readings less than 0.5 mg/l.

Site Name: TNS #52

Date: 10/28/2024,  
11:05 AM

Sydney  
Name(s): Souza



Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
G-1	61.5821862902	-149.630815567
<b>Field Intrinsic</b>		
Sampler Names: Sydney		Sheen/Odor?: No
pH: 5.50		Specific Conductance: 283.0
DO: 3.71		Temperature (C): 6.4
ORP: 304.4		Purge Volume (gal): 0
Notes: Water flowing . Dark transparent brown		



Site Name: TNS #52

10/28/2024,  
Date: 12:34 PM

Sydney  
Name(s): Souza



Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
G-3	61.5820198468	-149.630777474
<b>Field Intrinsic</b>		
Sampler Names: Sydney	Sheen/Odor?: No	
pH: 7.07	Specific Conductance: 228.9	
DO: 3.64	Temperature (C): 8.1	
ORP: 229.9	Purge Volume (gal): 34	
Notes: Brown		



Site Name: TNS #52

Date: 10/28/2024,  
10:39 AM

Name(s): Sydney  
Souza



Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
G-4	61.5817561273	-149.631357438
<b>Field Intrinsic</b>		
Sampler Names: Sydney	Sheen/Odor?: No	
pH: 6.35	Specific Conductance: 223.0	
DO: 2.17	Temperature (C): 9.3	
ORP: 272.1	Purge Volume (gal): 7	
Notes: Transparent light tan		



Site Name: TNS #52

Date: 10/28/2024,  
10:35 AM

Name(s): Sydney Souza



Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
G-5	61.581788987	-149.630862504
<b>Field Intrinsic</b>		
Sampler Names: Remi	Sheen/Odor?: No	
pH: 6.17	Specific Conductance: 255.5	
DO: 2.11	Temperature (C): 7.0	
ORP: 282.2	Purge Volume (gal): 7	
Notes: Clear		





Site Name: TNS #52

10/28/2024,  
Date: 9:59 AM

Sydney  
Name(s): Souza

Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
G-7	61.581454289	-149.631059783
<b>Field Intrinsic</b>		
Sampler Names: Sydney Remi		Sheen/Odor?: None
pH: 6.26		Specific Conductance: 285.9
DO: 2.04		Temperature (C): 8.4
ORP: 284.2		Purge Volume (gal): 8.5
Notes:		



Site Name: TNS #52

Date: 10/28/2024,  
11:50 AM

Name(s): Sydney  
Souza



Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
MW16-2	61.5821668	-149.6308637
<b>Field Intrinsic</b>		
Sampler Names: Sydney	Sheen/Odor?: No	
pH: 6.78	Specific Conductance: 233.3	
DO: 3.34	Temperature (C): 7.3	
ORP: 246.8	Purge Volume (gal): 7.5	
Notes: Brown		



Site Name: TNS #52Date: 10/28/2024,  
11:42 AMName(s): Sydney  
Souza

Location ID	GPS Latitude (decimal)	GPS Longitude (decimal)
RW16-1	61.5821994	-149.6309133
<b>Field Intrinsic</b>		
Sampler Names: Remi	Sheen/Odor?: Odor	
pH: 6.69	Specific Conductance: 231.4	
DO: 3.62	Temperature (C): 7.7	
ORP: 252.6	Purge Volume (gal): 9	
Notes: Brown		





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## **APPENDIX D**

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### *Tables of Historical Monitoring Data*

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TNS #52  
 7-Eleven - Paula Sime  
 7172 W Parks Hwy  
 Wasilla, Alaska 99623

Data Table

	Well Screen Interval	Ground Water Elevation	124-TMB	135-TMB	Benzene	DRO	Ethylbenzene	GRO	Naphthalene	Sodium	Toluene	Total Xylenes
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
GW Human Health Cleanup			<u>0.056</u>	<u>0.06</u>	<u>0.0046</u>	<u>1.5</u>	<u>0.015</u>	<u>2.2</u>	<u>0.0017</u>		<u>1.1</u>	<u>0.19</u>
G-1												
04/24/1997	--	--	—	—	<u>3.70</u>	<u>11.0</u>	<u>12.0</u>	<u>170</u>	—	—	<u>28.0</u>	<u>64.0</u>
09/03/1997	--	--	—	—	0.00100	<u>12.0</u>	<u>5.20</u>	<u>85.0</u>	—	—	<u>12.0</u>	<u>41.0</u>
12/29/1997	--	--	—	—	<u>0.0420</u>	<u>3.30</u>	<u>1.50</u>	<u>34.0</u>	—	—	<u>2.00</u>	<u>9.30</u>
04/23/1998	--	--	—	—	<u>0.13</u>	<u>8.30</u>	<u>4.10</u>	<u>91.0</u>	—	—	<u>3.90</u>	<u>23.0</u>
08/03/1998	--	--	—	—	<u>0.14</u>	<u>12.0</u>	<u>3.00</u>	<u>76.0</u>	—	—	<u>3.10</u>	<u>19.0</u>
11/02/1998	--	--	—	—	<u>0.121</u>	<u>5.58</u>	<u>4.76</u>	<u>70.0</u>	—	—	<u>4.59</u>	<u>27.12</u>
02/12/1999	--	--	—	—	0.00100	<u>19.0</u>	<u>4.00</u>	<u>91.0</u>	—	—	<u>5.40</u>	<u>24.0</u>
08/30/1999	--	--	—	—	0.00100	<u>10.0</u>	<u>5.60</u>	<u>190</u>	—	—	<u>3.10</u>	<u>36.0</u>
10/29/1999	--	--	—	—	0.00100	0.45	<u>0.0350</u>	0.89	—	—	0.0260	<u>0.21</u>
02/08/2000	--	--	—	—	0.00100	—	<u>4.40</u>	<u>10.0</u>	—	—	<u>3.30</u>	<u>26.0</u>
06/08/2000	--	--	—	—	0.00100	0.33	<u>0.11</u>	<u>2.30</u>	—	—	0.0510	<u>0.61</u>
08/30/2000	--	--	—	—	0.00100	0.57	<u>0.92</u>	<u>19.0</u>	—	—	0.50	<u>5.00</u>
11/30/2000	--	--	—	—	0.00100	<u>1.90</u>	<u>2.30</u>	<u>42.0</u>	—	—	<u>1.20</u>	<u>11.0</u>
02/05/2001	--	--	—	—	0.00100	<u>5.20</u>	<u>4.70</u>	<u>94.0</u>	—	—	<u>3.40</u>	<u>25.0</u>
05/10/2001	--	--	—	—	0.00100	<u>1.90</u>	<u>2.62</u>	<u>41.1</u>	—	—	0.967	<u>15.36</u>
08/16/2001	--	--	—	—	<u>0.0130</u>	<u>1.99</u>	<u>0.652</u>	<u>14.3</u>	—	—	0.401	<u>6.18</u>
11/09/2001	--	--	—	—	<u>0.0130</u>	<u>3.16</u>	<u>1.75</u>	<u>25.4</u>	—	—	0.608	<u>9.55</u>
02/15/2002	--	--	—	—	<u>0.0360</u>	<u>3.66</u>	<u>3.64</u>	<u>66.1</u>	—	—	<u>2.82</u>	<u>21.59</u>
05/30/2002	--	--	—	—	0.00100	<u>92.6</u>	<u>9.94</u>	<u>113</u>	—	—	<u>5.52</u>	<u>51.8</u>
08/14/2002	--	--	—	—	<u>0.0480</u>	<u>11.2</u>	<u>6.15</u>	<u>99.6</u>	—	—	<u>2.13</u>	<u>37.27</u>
11/14/2002	--	--	—	—	<u>0.0530</u>	<u>1.51</u>	<u>5.37</u>	<u>105</u>	—	—	<u>2.35</u>	<u>27.17</u>
01/28/2003	--	--	—	—	U (0.025)	<u>3.83</u>	<u>1.04</u>	<u>24.8</u>	—	—	0.462	<u>7.55</u>
04/17/2003	--	--	—	—	<u>0.217</u>	<u>4.70</u>	<u>4.55</u>	<u>117</u>	—	—	<u>1.15</u>	<u>26.9</u>
07/17/2003	--	--	—	—	U (0.05)	<u>8.34</u>	<u>6.00</u>	<u>104</u>	—	—	<u>1.81</u>	<u>35.6</u>
10/02/2003	--	--	—	—	<u>0.184</u>	U (0.32)	<u>5.34</u>	<u>137</u>	—	—	<u>1.84</u>	<u>33.4</u>
01/20/2004	--	--	—	—	U (0.2)	<u>10.6</u>	<u>5.90</u>	<u>100</u>	—	—	<u>2.46</u>	<u>34.8</u>
04/13/2004	--	--	—	—	U (0.1)	<u>6.97</u>	<u>6.37</u>	<u>109</u>	—	—	<u>1.49</u>	<u>37.5</u>
07/20/2004	--	--	—	—	U (0.25)	<u>8.09</u>	<u>2.67</u>	<u>87.1</u>	—	—	0.612	<u>26.2</u>
09/02/2004	--	--	—	—	U (0.05)	<u>4.94</u>	<u>2.60</u>	<u>48.5</u>	—	—	0.38	<u>18.4</u>
10/13/2004	--	--	—	—	U (0.005)	<u>1.90</u>	<u>0.232</u>	<u>5.98</u>	—	—	0.615	<u>1.87</u>

		Well Screen Interval	Ground Water Elevation	1,2,4-TMB	1,3,5-TMB	Benzene	DRO	Ethylbenzene	GRO	Naphthalene	Sodium	Toluene	Total Xylenes
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>			<b>0.056</b>	<b>0.06</b>	<b>0.0046</b>	<b>1.5</b>	<b>0.015</b>	<b>2.2</b>	<b>0.0017</b>			<b>1.1</b>	<b>0.19</b>
01/28/2005	--	--	—	—	U (0.0005)	0.818	<b>0.08430</b>	2.08	—	—	0.121	<b>0.582</b>	
04/11/2005	--	--	—	—	U (0.0005)	0.78	<b>0.03740</b>	0.963	—	—	0.0690	<b>0.306</b>	
08/12/2005	--	--	—	—	U (0.0005)	0.528	U (0.0005)	U (0.05)	—	—	U (0.0005)	0.003100	
10/07/2005	--	--	—	—	U (0.0005)	U (0.397)	0.008200	0.24	—	—	0.01030	0.07130	
02/14/2006	--	--	—	—	U (0.0005)	0.676	0.004100	0.141	—	—	0.0083100	0.04820	
04/18/2006	--	--	—	—	<b>0.01470</b>	<b>8.37</b>	<b>0.962</b>	<b>24.8</b>	—	—	0.08740	<b>6.64</b>	
07/06/2006	--	--	—	—	U (0.0005)	U (0.394)	0.0028900	0.153	—	—	0.0035900	0.05390	
10/26/2006	--	--	—	—	U (0.0005)	U (0.391)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
02/02/2007	--	--	—	—	U (0.0005)	1.04	<b>0.257</b>	<b>7.79</b>	—	—	0.21	<b>1.95</b>	
04/19/2007	--	--	—	—	U (0.0005)	0.894	<b>0.13</b>	<b>4.12</b>	—	—	0.165	<b>1.12</b>	
08/07/2007	--	--	—	—	U (0.0005)	0.582	<b>0.03920</b>	0.891	—	—	0.05360	<b>0.277</b>	
10/23/2007	--	--	—	—	U (0.0005)	U (0.424)	U (0.0005)	U (0.05)	—	—	U (0.0005)	0.0056600	
02/22/2008	--	--	—	—	U (0.0005)	0.479	0.0071200	0.229	—	—	0.01290	0.0680	
04/15/2008	--	--	—	—	U (0.0005)	0.667	0.01370	0.45	—	—	0.02470	0.116	
08/27/2008	--	--	—	—	U (0.0005)	U (0.4)	0.0039700	0.172	—	—	0.0066200	0.04770	
10/22/2008	--	--	—	—	U (0.0005)	U (0.427)	<b>0.02260</b>	0.742	—	—	0.0320	<b>0.255</b>	
02/05/2009	--	--	—	—	U (0.0005)	U (0.463)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
04/08/2009	--	--	—	—	U (0.0005)	U (0.424)	U (0.0005)	U (0.05)	—	—	U (0.0005)	0.002100	
07/09/2009	--	--	—	—	U (0.0005)	U (0.397)	U (0.001)	0.106	—	—	0.0013700	0.01880	
11/04/2009	--	--	—	—	U (0.0005)	U (0.403)	0.0062400	0.271	—	—	0.0085600	0.06390	
01/27/2010	--	--	—	—	U (0.0005)	0.844	U (0.001)	0.07570	—	—	0.0012300	0.01680	
05/27/2010	--	--	—	—	U (0.0005)	0.538	0.01170	0.257	—	—	0.01140	0.09230	
08/19/2010	--	--	—	—	U (0.0005)	U (0.455)	0.000537000	0.184	—	—	U (0.0005)	0.01890	
10/26/2010	--	--	—	—	U (0.0005)	0.993	0.0044300	0.181	—	—	0.0044100	0.05740	
02/17/2011	--	--	—	—	U (0.0005)	0.491	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
06/09/2011	--	--	—	—	U (0.0005)	0.635	0.000945000	0.143	—	—	0.000913000	0.04250	
09/20/2011	--	--	—	—	U (0.0005)	U (0.431)	U (0.0005)	U (0.05)	—	—	U (0.0005)	0.0023600	
10/21/2011	--	--	—	—	U (0.0005)	U (0.417)	<b>0.05650</b>	0.851	—	—	0.01210	<b>0.345</b>	
02/17/2012	--	--	—	—	U (0.0005)	0.712	0.0023500	0.07870	—	—	0.0012800	0.0410	
05/17/2012	--	--	—	—	U (0.0005)	0.596	<b>0.0250</b>	0.941	—	—	0.0057200	<b>0.339</b>	
09/05/2012	--	--	—	—	U (0.0005)	U (0.424)	0.01390	0.404	—	—	0.0046800	0.145	
10/30/2012	--	--	—	—	U (0.0005)	U (0.439)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
01/30/2013	--	--	—	—	U (0.0005)	0.461	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
05/10/2013	--	--	—	—	U (0.0005)	U (0.424)	0.0140	0.248	—	—	0.00067000	0.166	
10/11/2013	--	--	—	—	U (0.0005)	U (0.431)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
12/11/2013	--	--	—	—	U (0.0005)	U (0.403)	U (0.001)	U (0.05)	—	—	U (0.001)	U (0.003)	
02/19/2014	--	--	—	—	U (0.0005)	U (0.403)	U (0.0005)	U (0.05)	—	—	0.000667000	0.0028100	
05/01/2014	--	--	—	—	U (0.0005)	U (0.41)	0.003800	0.11	—	—	U (0.001)	0.0280	
10/30/2014	--	--	—	—	U (0.0005)	U (0.41)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	

	Well Screen Interval	Ground Water Elevation	124-TMB	135-TMB	Benzene	DRO	Ethylbenzene	GRO	Naphthalene	Sodium	Toluene	Total Xylenes
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>			<b>0.056</b>	<b>0.06</b>	<b>0.0046</b>	<b>1.5</b>	<b>0.015</b>	<b>2.2</b>	<b>0.0017</b>		<b>1.1</b>	<b>0.19</b>
05/15/2015	--	--	—	—	U (0.002)	0.34	U (0.003)	U (0.05)	—	—	U (0.002)	U (0.002)
09/02/2015	--	--	—	—	U (0.0002)	U (0.40)	U (0.001)	0.15	—	—	U (0.001)	U (0.003)
11/12/2015	--	--	—	—	U (0.0020)	0.63	U (0.0030)	U (0.050)	—	—	U (0.0020)	U (0.0020)
01/28/2016	--	--	—	—	U (0.0020)	0.88	U (0.0030)	U (0.050)	—	—	U (0.0020)	U (0.0020)
05/09/2016	--	--	—	—	U (0.0002)	U (0.41)	U (0.001)	U (0.1)	—	—	U (0.001)	U (0.003)
10/24/2016	--	--	—	—	U (0.0002)	U (0.41)	U (0.001)	U (0.1)	—	—	U (0.001)	U (0.003)
12/09/2016	--	--	—	—	U (0.002)	U (0.11)	U (0.003)	U (0.05)	—	—	U (0.002)	U (0.003)
04/25/2017	--	--	—	—	U (0.0002)	0.99	U (0.003)	U (1.0)	—	—	U (0.002)	U (0.002)
10/20/2017	--	--	—	—	U (0.002)	1.40	U (0.003)	U (1.0)	—	—	U (0.002)	U (0.003)
02/13/2018	--	--	—	—	U (0.002)	0.88	U (0.003)	U (1.0)	—	—	U (0.002)	U (0.002)
08/17/2018	--	--	—	—	U (0.015)	<b>1.60</b>	U (0.015)	U (0.25)	—	—	U (0.01)	U (0.015)
10/25/2018	--	--	—	—	U (0.003)	U (0.12)	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
02/26/2019	--	--	—	—	U (0.003)	0.51	0.006600	U (0.25)	—	—	U (0.002)	U (0.003)
04/24/2019	--	--	—	—	U (0.003)	U (0.25)	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
07/16/2019	--	--	—	—	U (0.003)	<b>1.60</b>	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
10/17/2019	--	--	—	—	U (0.003)	U (0.12)	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
08/12/2020	--	93.30	—	—	U (0.001)	0.242	U (0.001)	U (0.100)	—	23.4	U (0.001)	U (0.003)
10/02/2020	--	97.11	—	—	U (0.001)	U (0.824)	0.000248000	0.03370	—	—	U (0.001)	0.0026200
05/18/2021	--	97.04	U (0.00100)	U (0.00100)	U (0.001)	0.405	U (0.001)	0.01520	U (0.00500)	16.4	U (0.001)	U (0.002)
10/13/2021	--	--	0.000527000	0.000151000	0.000169000	0.518	0.000325000	0.182	U (0.000250)	56.7	U (0.001)	0.000554000
05/11/2022	--	69.63	U(0.00100)	U(0.00100)	U(0.00100)	1.08	U(0.00100)	U(0.100)	U(0.000250)	23.9	U(0.00100)	U(0.00300)
07/19/2022	--	97.00	U(0.00100)	U(0.00100)	U(0.00100)	0.554	U(0.00100)	U(0.100)	U(0.0002500)	1.96	U(0.00100)	U(0.00300)
10/12/2022	--	80.20	U(0.00100)	U(0.00100)	U(0.00100)	0.565	U(0.00100)	U(0.100)	U(0.000250)	7.81	U(0.00100)	U(0.00300)
07/12/2023	--	97.41	U(0.00100)	U(0.00100)	U(0.00100)	1.21	U(0.00100)	0.0300	U(0.000250)	6.78	U(0.00100)	U(0.00100)
11/02/2023	--	97.11	U(0.00100)	U(0.00100)	U(0.00100)	1.13	U(0.00100)	0.04130	U(0.000250)	4.54	U(0.00100)	U(0.00300)
03/22/2024	--	66.54	U(0.00100)	U(0.00100)	U(0.00100)	0.312	U(0.00100)	0.08040	U(0.000250)	24.7	U(0.00100)	U(0.00100)
06/19/2024	--	97.78	U(0.00100)	U(0.00100)	U(0.00100)	0.449	U(0.00100)	U(0.100)	U(0.000250)	5.79	U(0.00100)	U(0.00300)
08/27/2024	--	76.67	—	—	U(0.00100)	0.637	U(0.00100)	0.05350	U(0.000250)	5.83	U(0.00100)	U(0.00100)
10/28/2024	--	98.28	U(0.00100)	U(0.00100)	U(0.00100)	U(0.840)	U(0.00100)	0.05080	U(0.000250)	4.76	U(0.00100)	U(0.00300)
<b>G-3</b>												
04/24/1997	--	--	—	—	0.00100	<b>5.10</b>	<b>5.40</b>	<b>70.0</b>	—	—	<b>7.60</b>	<b>26.0</b>
09/03/1997	--	--	—	—	<b>0.0800</b>	<b>7.50</b>	<b>1.40</b>	<b>21.0</b>	—	—	<b>2.00</b>	<b>7.70</b>
12/29/1997	--	--	—	—	<b>0.0570</b>	<b>3.50</b>	<b>1.50</b>	<b>19.0</b>	—	—	0.43	<b>4.70</b>
04/23/1998	--	--	—	—	0.00100	<b>6.90</b>	<b>3.10</b>	<b>40.0</b>	—	—	0.49	<b>10.0</b>
08/03/1998	--	--	—	—	<b>0.14</b>	<b>2.00</b>	<b>3.30</b>	<b>39.0</b>	—	—	0.45	<b>10.0</b>
11/02/1998	--	--	—	—	0.00100	<b>2.43</b>	<b>3.00</b>	<b>30.0</b>	—	—	0.58	<b>10.27</b>
02/12/1999	--	--	—	—	0.00100	<b>8.00</b>	<b>3.90</b>	<b>48.0</b>	—	—	0.52	<b>12.0</b>
05/11/1999	--	--	—	—	<b>0.0510</b>	<b>17.6</b>	<b>1.02</b>	<b>14.0</b>	—	—	0.12	<b>4.16</b>
08/30/1999	--	--	—	—	0.00100	<b>4.60</b>	<b>1.60</b>	<b>19.0</b>	—	—	0.12	<b>3.90</b>

		Well Screen Interval	Ground Water Elevation	1,2,4-TMB	1,3,5-TMB	Benzene	DRO	Ethylbenzene	GRO	Naphthalene	Sodium	Toluene	Total Xylenes
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>			<b>0.056</b>	<b>0.06</b>	<b>0.0046</b>	<b>1.5</b>	<b>0.015</b>	<b>2.2</b>	<b>0.0017</b>			<b>1.1</b>	<b>0.19</b>
10/29/1999	--	--	—	—	0.001800	0.92	<b>0.0170</b>	0.32	—	—	0.001600	0.0730	
02/08/2000	--	--	—	—	<b>0.00700</b>	0	<b>0.47</b>	<b>4.00</b>	—	—	0.0380	<b>0.89</b>	
06/08/2000	--	--	—	—	0.00100	1.10	0.00300	0	—	—	U	0.0100	
08/30/2000	--	--	—	—	0.00100	0.51	0.00400	0.12	—	—	0.001800	0.0300	
11/30/2000	--	--	—	—	<b>0.00600</b>	<b>5.50</b>	<b>0.32</b>	<b>2.90</b>	—	—	0.0320	<b>0.68</b>	
02/05/2001	--	--	—	—	<b>0.00600</b>	<b>5.90</b>	<b>0.46</b>	<b>4.30</b>	—	—	0.14	<b>0.90</b>	
05/10/2001	--	--	—	—	0.00100	<b>12.8</b>	0.00300	0	—	—	U	0.00900	
08/16/2001	--	--	—	—	<b>0.00500</b>	<b>8.75</b>	<b>0.39</b>	<b>2.76</b>	—	—	0.06130	<b>0.856</b>	
11/09/2001	--	--	—	—	<b>0.0340</b>	<b>1.57</b>	<b>0.0190</b>	0.57	—	—	0.08280	0.103	
02/15/2002	--	--	—	—	<b>0.00800</b>	<b>70.7</b>	<b>0.0490</b>	0.87	—	—	0.119	0.156	
05/30/2002	--	--	—	—	<b>0.0210</b>	<b>34.2</b>	<b>0.20</b>	<b>2.25</b>	—	—	0.08090	<b>0.605</b>	
08/14/2002	--	--	—	—	<b>0.0290</b>	<b>5.68</b>	<b>0.488</b>	<b>5.44</b>	—	—	0.147	<b>1.49</b>	
11/14/2002	--	--	—	—	<b>0.06580</b>	<b>4.08</b>	<b>0.804</b>	<b>8.97</b>	—	—	0.186	<b>1.9704</b>	
01/28/2003	--	--	—	—	<b>0.05710</b>	<b>7.89</b>	<b>0.319</b>	<b>2.93</b>	—	—	0.09140	<b>0.644</b>	
04/17/2003	--	--	—	—	0.0028800	<b>4.58</b>	<b>0.02820</b>	0.585	—	—	0.02740	0.0820	
07/17/2003	--	--	—	—	U (0.0005)	<b>7.48</b>	0.01070	0.233	—	—	0.01650	0.03270	
10/02/2003	--	--	—	—	U (0.0005)	1.14	0.000626000	U (0.08)	—	—	0.0022400	0.0023200	
01/20/2004	--	--	—	—	U (0.0005)	<b>1.83</b>	0.0039900	0.144	—	—	0.04390	0.01270	
04/13/2004	--	--	—	—	U (0.005)	<b>2.89</b>	<b>0.04720</b>	0.855	—	—	0.02610	0.148	
07/20/2004	--	--	—	—	U (0.0005)	<b>19.4</b>	0.002800	0.164	—	—	0.03050	0.0085300	
10/13/2004	--	--	—	—	U (0.0005)	<b>2.11</b>	U (0.0005)	U (0.08)	—	—	0.000537000	U (0.001)	
01/28/2005	--	--	—	—	0.000857000	<b>3.65</b>	0.00078000	0.09730	—	—	0.02930	0.003800	
04/11/2005	--	--	—	—	0.0031100	<b>2.58</b>	0.0023200	0.127	—	—	0.01130	0.02530	
08/12/2005	--	--	—	—	U (0.0005)	1.14	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
10/07/2005	--	--	—	—	U (0.0005)	<b>2.85</b>	U (0.0005)	U (0.05)	—	—	0.0023400	U (0.0015)	
02/14/2006	--	--	—	—	0.000874000	<b>3.00</b>	0.0012900	0.215	—	—	0.0760	0.007200	
04/18/2006	--	--	—	—	U (0.0005)	<b>7.64</b>	0.000884000	0.181	—	—	0.06140	0.0035600	
07/06/2006	--	--	—	—	U (0.0005)	<b>3.17</b>	U (0.0005)	U (0.05)	—	—	0.0025200	U (0.0015)	
10/26/2006	--	--	—	—	U (0.0005)	1.06	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
02/02/2007	--	--	—	—	<b>0.0052800</b>	<b>2.27</b>	0.001700	0.236	—	—	0.05130	0.01540	
08/07/2007	--	--	—	—	U (0.0005)	0.841	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
10/23/2007	--	--	—	—	<b>0.0050200</b>	1.41	<b>0.0200</b>	0.322	—	—	0.03580	0.03190	
02/21/2008	--	--	—	—	<b>0.0051700</b>	0.93	<b>0.0670</b>	0.771	—	—	0.03070	0.144	
04/15/2008	--	--	—	—	<b>0.0056200</b>	0.604	<b>0.135</b>	1.44	—	—	0.0400	<b>0.211</b>	
08/27/2008	--	--	—	—	<b>0.01380</b>	0.978	<b>0.842</b>	<b>7.26</b>	—	—	0.436	<b>2.88</b>	
10/22/2008	--	--	—	—	<b>0.01240</b>	0.83	<b>0.96</b>	<b>9.55</b>	—	—	0.514	<b>3.57</b>	
02/05/2009	--	--	—	—	U (0.01)	0.909	<b>1.17</b>	<b>15.7</b>	—	—	0.234	<b>4.73</b>	
02/19/2009	--	--	—	—	<b>0.007100</b>	<b>9.47</b>	<b>0.08340</b>	1.04	—	—	0.04930	<b>0.241</b>	
04/08/2009	--	--	—	—	U (0.005)	<b>1.51</b>	<b>0.378</b>	<b>4.20</b>	—	—	0.07020	<b>1.43</b>	

Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		Well Screen Interval	Ground Water Elevation	124-TMB	135-TMB	Benzene	DRO	Ethylbenzene	GRO	Naphthalene	Sodium	Toluene	Total Xylenes
GW Human Health Cleanup			0.056	0.06	0.0046	1.5	0.015	2.2	0.0017			1.1	0.19
07/09/2009	--	--	—	—	U (0.0005)	1.81	1.12	3.01	—	—	0.04150	4.32	
11/04/2009	--	--	—	—	U (0.0005)	U (0.400)	0.579	12.7	—	—	0.101	2.55	
01/27/2010	--	--	—	—	U (0.0005)	1.12	0.337	6.47	—	—	0.01570	2.01	
05/27/2010	--	--	—	—	U (0.0005)	1.01	0.03790	0.936	—	—	0.000748000	0.137	
08/19/2010	--	--	—	—	U (0.0005)	U (0.403)	0.03360	0.933	—	—	0.000756000	0.12	
10/26/2010	--	--	—	—	U (0.0025)	U (0.397)	0.153	4.62	—	—	U (0.0025)	0.643	
02/17/2011	--	--	—	—	U (0.0005)	4.10	0.06470	2.11	—	—	0.0011200	0.222	
06/09/2011	--	--	—	—	0.000536000	U (0.446)	0.06660	2.26	—	—	0.0018800	0.232	
09/20/2011	--	--	—	—	U (0.0005)	U (0.400)	0.02350	1.69	—	—	0.000718000	0.07940	
10/21/2011	--	--	—	—	0.0010700	U (0.417)	0.03250	2.51	—	—	0.0012600	0.105	
02/17/2012	--	--	—	—	0.000809000	1.15	0.05360	2.62	—	—	0.000792000	0.131	
05/17/2012	--	--	—	—	0.0011700	0.56	0.08990	5.91	—	—	0.0016400	0.303	
09/05/2012	--	--	—	—	U (0.0005)	U (0.424)	0.166	0.71	—	—	U (0.0005)	0.04860	
10/30/2012	--	--	—	—	U (0.0005)	U (0.431)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
01/30/2013	--	--	—	—	U (0.0005)	0.67	0.01820	0.818	—	—	0.0036400	0.05550	
05/10/2013	--	--	—	—	0.0015300	U (0.439)	0.05540	1.35	—	—	0.0015100	0.167	
10/11/2013	--	--	—	—	U (0.0005)	U (0.391)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
12/11/2013	--	--	—	—	U (0.0005)	U (0.417)	U (0.001)	U (0.05)	—	—	U (0.001)	U (0.003)	
02/19/2014	--	--	—	—	U (0.0005)	0.928	0.00066000	U (0.05)	—	—	U (0.0005)	0.0017700	
05/01/2014	--	--	—	—	U (0.0005)	4.80	0.006600	0.30	—	—	0.00100	0.0170	
10/30/2014	--	--	—	—	U (0.0005)	1.00	0.009700	0.46	—	—	U (0.0005)	0.0230	
02/11/2015	--	--	—	—	0.00200	12.0	0.0870	4.80	—	—	0.001100	0.24	
05/15/2015	--	--	—	—	U (0.002)	1.30	0.007800	2.60	—	—	U (0.002)	0.0150	
09/02/2015	--	--	—	—	U (0.0002)	U (0.40)	0.007900	1.10	—	—	U (0.001)	0.006400	
11/12/2015	--	--	—	—	U (0.0020)	0.26	0.0360	3.20	—	—	U (0.0020)	0.0690	
01/28/2016	--	--	—	—	U (0.0020)	0.76	0.0270	3.20	—	—	U (0.0020)	0.0520	
05/09/2016	--	--	—	—	0.0002000	0.58	0.008600	1.60	—	—	U (0.001)	0.0120	
10/24/2016	--	--	—	—	0.0002000	0.37	0.001700	4.40	—	—	U (0.001)	0.003600	
12/09/2016	--	--	—	—	U (0.002)	0.48	0.00200	4.20	—	—	U (0.002)	0.003800	
04/25/2017	--	--	—	—	U (0.0002)	4.70	0.008900	2.30	—	—	U (0.002)	0.0160	
10/20/2017	--	--	—	—	U (0.002)	3.00	U (0.003)	U (1.0)	—	—	U (0.002)	U (0.003)	
02/13/2018	--	--	—	—	U (0.002)	6.70	U (0.003)	U (1.0)	—	—	0.005400	0.004700	
08/17/2018	--	--	—	—	U (0.003)	3.20	0.004700	0.99	—	—	0.00091000	0.0093800	
10/25/2018	--	--	—	—	U (0.003)	2.30	U (0.003)	0.37	—	—	U (0.002)	U (0.003)	
02/26/2019	--	--	—	—	U (0.003)	8.50	0.00600	1.70	—	—	U (0.002)	0.0130	
04/24/2019	--	--	—	—	U (0.003)	7.70	0.003400	1.60	—	—	U (0.002)	0.006800	
07/16/2019	--	--	—	—	U (0.003)	4.60	0.003300	1.30	—	—	U (0.002)	0.00600	
10/17/2019	--	--	—	—	U (0.003)	3.60	U (0.003)	0.58	—	—	U (0.002)	U (0.003)	
08/12/2020	--	67.25	—	—	U (0.001)	0.339	0.000754000	0.173	—	8.35	U (0.001)	0.0015900	

Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	Well Screen Interval	Ground Water Elevation	124-TMB	135-TMB	Benzene	DRO	Ethylbenzene	GRO	Naphthalene	Sodium	Toluene	Total Xylenes
<b>GW Human Health Cleanup</b>			<b>0.056</b>	<b>0.06</b>	<b>0.0046</b>	<b>1.5</b>	<b>0.015</b>	<b>2.2</b>	<b>0.0017</b>		<b>1.1</b>	<b>0.19</b>
10/02/2020	--	66.93	—	—	U (0.001)	1.45	0.000143000	0.12	—	—	U (0.001)	U (0.002)
03/03/2021	--	--	—	—	U (0.001)	1.47	0.00091000	1.01	—	—	U (0.001)	0.00086000
03/31/2021	--	62.99	—	—	—	—	—	—	123	—	—	—
05/18/2021	--	64.72	0.04520	0.04570	U (0.001)	<b>8.48</b>	U (0.001)	1.36	U (0.00500)	32.2	U (0.001)	U (0.002)
07/21/2021	--	64.55	<b>0.05990</b>	<b>0.06690</b>	U (0.001)	<b>2.32</b>	0.0016300	1.68	<b>0.0020600</b>	9.61	0.000279000	0.001500
10/13/2021	--	67.39	0.000928000	0.000365000	U (0.001)	0.865	U (0.001)	0.176	U (0.000250)	10.7	U (0.001)	U (0.002)
05/11/2022	--	67.75	U(0.00100)	U(0.00100)	U(0.00100)	U(0.800)	U(0.00100)	U(0.100)	U(0.000250)	22.0	U(0.00100)	U(0.00300)
10/12/2022	--	80.10	0.0011800	0.000508000	U(0.00100)	0.392	0.000464000	0.03490	U(0.000250)	7.96	U(0.00100)	0.000449000
04/28/2023	--	--	—	—	U(0.00100)	1.30	0.000565000	0.971	U(0.000250)	6.68	0.000797000	0.000581000
07/12/2023	--	73.70	0.000789000	U(0.00100)	U(0.00100)	<b>1.61</b>	0.000513000	0.07620	U(0.000250)	6.03	U(0.00100)	U(0.00100)
11/02/2023	--	74.43	0.005500	0.0028800	0.000151000	1.14	0.0031700	0.08810	U(0.000250)	5.00	0.01170	0.0024900
06/19/2024	--	73.48	0.000803000	U(0.00100)	U(0.00100)	U(0.800)	0.000439000	U(0.100)	U(0.000250)	6.12	U(0.00100)	U(0.00300)
08/27/2024	--	74.09	—	—	U(0.00100)	0.826	0.000468000	0.08640	U(0.000250)	5.68	U(0.00100)	0.000194000
10/28/2024	--	75.51	0.0011500	0.0010400	U(0.00100)	0.607	0.000929000	0.127	U(0.000250)	5.02	U(0.00100)	U(0.00300)
<b>G-4</b>												
04/24/1997	--	--	—	—	U	—	U	U	—	—	0.00100	0.004800
09/03/1997	--	--	—	—	U	0.32	U	U	—	—	U	U
12/29/1997	--	--	—	—	U	U	U	U	—	—	U	U
04/23/1998	--	--	—	—	U	U	U	U	—	—	U	U
08/03/1998	--	--	—	—	U	U	U	U	—	—	—	U
11/02/1998	--	--	—	—	U	U	U	U	—	—	0.001200	0.001100
02/12/1999	--	--	—	—	U	0.36	U	U	—	—	U	U
05/10/1999	--	--	—	—	U	<b>1.98</b>	0.006500	0.0910	—	—	U	0.02790
08/30/1999	--	--	—	—	U	U	U	U	—	—	U	U
10/29/1999	--	--	—	—	U	U	U	U	—	—	U	U
06/08/2000	--	--	—	—	U	0.30	U	U	—	—	U	U
11/30/2000	--	--	—	—	U	U	U	U	—	—	U	U
05/10/2001	--	--	—	—	U	U	U	U	—	—	U	0.00200
11/09/2001	--	--	—	—	U	U	U	U	—	—	U	U
05/30/2002	--	--	—	—	U (0.0005)	U	U	U	—	—	0.00300	U
04/17/2003	--	--	—	—	U (0.0005)	U (0.25)	U (0.0005)	U (0.08)	—	—	U (0.0005)	U (0.001)
04/13/2004	--	--	—	—	U (0.0005)	U (0.5)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
04/11/2005	--	--	—	—	U (0.0005)	<b>1.67</b>	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
04/18/2006	--	--	—	—	U (0.0005)	U (0.407)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
04/19/2007	--	--	—	—	U (0.0005)	U (0.431)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
04/15/2008	--	--	—	—	U (0.0005)	0.436	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
02/19/2009	--	--	—	—	—	U (0.463)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
04/08/2009	--	--	—	—	U (0.0005)	—	—	—	—	—	—	—
05/27/2010	--	--	—	—	U (0.0005)	U (0.431)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)

	Well Screen Interval	Ground Water Elevation	124-TMB	135-TMB	Benzene	DRO	Ethylbenzene	GRO	Naphthalene	Sodium	Toluene	Total Xylenes
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>			<b>0.056</b>	<b>0.06</b>	<b>0.0046</b>	<b>1.5</b>	<b>0.015</b>	<b>2.2</b>	<b>0.0017</b>		<b>1.1</b>	<b>0.19</b>
06/09/2011	--	--	—	—	U (0.0005)	U (0.424)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
05/17/2012	--	--	—	—	—	0.819	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
05/10/2013	--	--	—	—	U (0.0005)	U (0.463)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
05/01/2014	--	--	—	—	U (0.0005)	U (0.42)	U (0.001)	U (0.05)	—	—	U (0.001)	U (0.001)
05/15/2015	--	--	—	—	U (0.002)	U (0.23)	U (0.003)	U (0.05)	—	—	U (0.002)	U (0.002)
05/09/2016	--	--	—	—	U (0.0002)	U (0.42)	U (0.001)	U (0.1)	—	—	U (0.001)	U (0.003)
04/25/2017	--	--	—	—	U (0.0002)	U (0.11)	U (0.003)	U (1.0)	—	—	U (0.002)	U (0.002)
08/17/2018	--	--	—	—	U (0.003)	U (0.12)	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
04/24/2019	--	--	—	—	U (0.003)	U (0.28)	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
10/02/2020	--	66.26	—	—	U (0.001)	0.281	U (0.001)	U (0.100)	—	—	U (0.001)	U (0.002)
10/13/2021	--	66.83	U (0.00100)	U (0.00100)	U (0.001)	0.313	U (0.001)	0.0580	U (0.000250)	21.9	U (0.001)	U (0.002)
11/02/2023	--	74.23	U(0.00100)	U(0.00100)	U(0.00100)	0.574	U(0.00100)	0.03850	U(0.000250)	4.78	U(0.00100)	U(0.00300)
10/28/2024	--	75.27	U(0.00100)	U(0.00100)	U(0.00100)	U(0.840)	U(0.00100)	0.05950	U(0.000250)	5.13	U(0.00100)	U(0.00300)
<b>G-5</b>												
04/24/1997	--	--	—	—	<b>0.0320</b>	—	<b>0.91</b>	<b>17.0</b>	—	—	0.56	<b>5.20</b>
09/03/1997	--	--	—	—	0.00100	<b>4.80</b>	<b>1.10</b>	<b>25.0</b>	—	—	U	<b>5.40</b>
12/29/1997	--	--	—	—	<b>0.0650</b>	<b>4.00</b>	<b>1.00</b>	<b>19.0</b>	—	—	0.15	<b>4.70</b>
04/23/1998	--	--	—	—	<b>0.0480</b>	<b>2.70</b>	<b>0.38</b>	<b>11.0</b>	—	—	0.0680	<b>1.70</b>
08/03/1998	--	--	—	—	0.00100	0.27	U	0	—	—	U	0.001900
11/02/1998	--	--	—	—	<b>0.0260</b>	<b>1.82</b>	<b>0.12</b>	<b>3.70</b>	—	—	0.0100	<b>0.27</b>
08/31/1999	--	--	—	—	<b>0.0110</b>	0.95	<b>0.34</b>	<b>4.60</b>	—	—	0.0290	<b>0.90</b>
10/29/1999	--	--	—	—	<b>0.0240</b>	0.40	<b>0.0660</b>	<b>2.70</b>	—	—	0.00600	0.11
02/08/2000	--	--	—	—	<b>0.00800</b>	—	<b>0.0530</b>	<b>4.20</b>	—	—	0.00600	0.10
06/08/2000	--	--	—	—	0.00100	0	<b>0.0230</b>	0.61	—	—	U	0.0400
08/30/2000	--	--	—	—	0.00100	0.00100	0.00400	0.22	—	—	U	0.00800
11/30/2000	--	--	—	—	<b>0.0120</b>	0.49	<b>0.0790</b>	<b>3.90</b>	—	—	0.00600	0.14
02/05/2001	--	--	—	—	<b>0.0150</b>	0.32	<b>0.0160</b>	2.10	—	—	0.00800	0.0260
05/10/2001	--	--	—	—	<b>0.00700</b>	0.00100	<b>0.0610</b>	1.62	—	—	U	0.10
08/16/2001	--	--	—	—	<b>0.0310</b>	U	<b>0.0420</b>	<b>2.74</b>	—	—	0.0110	0.0650
11/09/2001	--	--	—	—	0.00400	U	U	0.258	—	—	U	0.00200
08/14/2002	--	--	—	—	<b>0.0130</b>	0.552	<b>0.145</b>	<b>2.53</b>	—	—	0.00300	0.182
11/14/2002	--	--	—	—	0.0025700	U (0.5)	U (0.002)	0.137	—	—	U (0.002)	U (0.002)
01/28/2003	--	--	—	—	<b>0.0640</b>	1.20	<b>0.07330</b>	<b>2.40</b>	—	—	U (0.02)	0.06670
04/17/2003	--	--	—	—	<b>0.01810</b>	0.418	<b>0.08340</b>	<b>3.14</b>	—	—	0.00200	0.186
07/17/2003	--	--	—	—	U (0.005)	U (0.5)	<b>0.06660</b>	<b>2.72</b>	—	—	U (0.005)	0.184
10/02/2003	--	--	—	—	<b>0.01250</b>	U (0.32)	<b>0.127</b>	<b>4.33</b>	—	—	0.0057700	<b>0.217</b>
04/13/2004	--	--	—	—	U (0.0005)	U (0.5)	U (0.0005)	0.05390	—	—	U (0.0005)	U (0.0015)
07/20/2004	--	--	—	—	0.0035100	0.484	<b>0.05610</b>	1.70	—	—	U (0.0005)	0.02390
10/13/2004	--	--	—	—	<b>0.00900</b>	0.443	<b>0.08930</b>	<b>2.71</b>	—	—	0.0015500	0.113



		Well Screen Interval	Ground Water Elevation	124-TMB	135-TMB	Benzene	DRO	Ethylbenzene	GRO	Naphthalene	Sodium	Toluene	Total Xylenes
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>			<b>0.056</b>	<b>0.06</b>	<b>0.0046</b>	<b>1.5</b>	<b>0.015</b>	<b>2.2</b>	<b>0.0017</b>			<b>1.1</b>	<b>0.19</b>
01/28/2005	--	--	—	—	0.001100	0.45	<b>0.01830</b>	1.35	—	—	0.0019800	0.0200	
04/11/2005	--	--	—	—	U (0.0005)	U (0.391)	0.01380	1.06	—	—	0.000845000	0.01170	
08/12/2005	--	--	—	—	U (0.0005)	U (0.41)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
10/07/2005	--	--	—	—	U (0.0005)	U (0.407)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
02/14/2006	--	--	—	—	0.0018600	0.475	<b>0.01630</b>	1.34	—	—	0.0013600	0.006600	
04/18/2006	--	--	—	—	0.001800	0.693	<b>0.153</b>	2.04	—	—	0.000663000	<b>0.24</b>	
07/06/2006	--	--	—	—	0.0014100	U (0.41)	<b>0.09320</b>	1.14	—	—	0.0015800	0.103	
10/26/2006	--	--	—	—	U (0.0005)	U (0.41)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
04/19/2007	--	--	—	—	U (0.0005)	U (0.435)	<b>0.01630</b>	0.774	—	—	U (0.0005)	0.02270	
08/07/2007	--	--	—	—	0.0014700	U (0.407)	0.0061100	0.529	—	—	U (0.0005)	0.00700	
10/23/2007	--	--	—	—	U (0.0005)	U (0.446)	0.0053400	0.40	—	—	U (0.0005)	0.0060300	
02/21/2008	--	--	—	—	0.0023100	U (0.417)	<b>0.05920</b>	1.97	—	—	0.000739000	0.05230	
08/27/2008	--	--	—	—	U (0.0005)	U (0.4)	<b>0.02030</b>	0.506	—	—	U (0.0005)	0.02430	
10/22/2008	--	--	—	—	U (0.0005)	U (0.420)	0.0062900	0.35	—	—	U (0.0005)	0.0051200	
02/05/2009	--	--	—	—	0.00093000	0.59	<b>0.08980</b>	2.02	—	—	0.0021100	0.101	
02/19/2009	--	--	—	—	0.0024900	0.689	<b>0.129</b>	1.96	—	—	0.0028300	<b>0.262</b>	
04/08/2009	--	--	—	—	<b>0.005800</b>	U (0.435)	<b>0.26</b>	<b>3.84</b>	—	—	0.169	<b>0.634</b>	
07/09/2009	--	--	—	—	0.0026700	U (0.410)	<b>0.184</b>	<b>2.51</b>	—	—	0.0045200	<b>0.284</b>	
11/04/2009	--	--	—	—	0.0036500	U (0.397)	<b>0.292</b>	<b>4.13</b>	—	—	0.0073900	<b>0.645</b>	
01/27/2010	--	--	—	—	0.0038500	U (0.427)	<b>0.499</b>	<b>7.17</b>	—	—	0.03130	<b>1.51</b>	
05/27/2010	--	--	—	—	0.002200	0.668	<b>0.406</b>	<b>5.19</b>	—	—	0.02180	<b>1.22</b>	
08/19/2010	--	--	—	—	0.0010500	0.415	<b>0.233</b>	<b>3.27</b>	—	—	0.0030700	<b>0.977</b>	
10/26/2010	--	--	—	—	U (0.0022)	U (0.403)	<b>0.04490</b>	0.741	—	—	U (0.0005)	0.07230	
02/17/2011	--	--	—	—	0.0029100	U (0.410)	<b>0.108</b>	<b>3.11</b>	—	—	0.003400	<b>0.472</b>	
06/09/2011	--	--	—	—	0.0019900	0.436	<b>0.173</b>	<b>5.08</b>	—	—	0.0040500	<b>0.856</b>	
09/20/2011	--	--	—	—	0.0010100	U (0.403)	<b>0.03620</b>	0.975	—	—	0.0013300	0.138	
10/21/2011	--	--	—	—	U (0.0005)	U (0.439)	0.01210	0.365	—	—	U (0.0005)	0.03030	
02/17/2012	--	--	—	—	0.0040300	0.726	<b>0.08070</b>	<b>2.80</b>	—	—	0.0049700	<b>0.476</b>	
05/17/2012	--	--	—	—	0.000704000	0.541	0.01250	0.683	—	—	0.000734000	0.03780	
10/30/2012	--	--	—	—	U (0.0005)	U (0.410)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
01/30/2013	--	--	—	—	U (0.0005)	U (0.403)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
05/10/2013	--	--	—	—	0.00052000	U (0.400)	U (0.0005)	0.221	—	—	0.000627000	0.0019400	
10/11/2013	--	--	—	—	U (0.0005)	U (0.439)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
12/11/2013	--	--	—	—	U (0.0005)	U (0.403)	U (0.001)	U (0.05)	—	—	U (0.001)	U (0.003)	
02/19/2014	--	--	—	—	U (0.0005)	U (0.400)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)	
05/01/2014	--	--	—	—	U (0.005)	U (0.41)	U (0.001)	U (0.05)	—	—	U (0.001)	U (0.001)	
10/30/2014	--	--	—	—	0.00086000	U (0.42)	U (0.0005)	0.19	—	—	U (0.0005)	U (0.0015)	
02/11/2015	--	--	—	—	U (0.0005)	U (0.42)	0.003100	0.28	—	—	U (0.0005)	0.003100	
11/12/2015	--	--	—	—	U (0.0020)	U (0.21)	U (0.0030)	0.32	—	—	U (0.0020)	U (0.0020)	

	Well Screen Interval	Ground Water Elevation	124-TMB	135-TMB	Benzene	DRO	Ethylbenzene	GRO	Naphthalene	Sodium	Toluene	Total Xylenes
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>			<b>0.056</b>	<b>0.06</b>	<b>0.0046</b>	<b>1.5</b>	<b>0.015</b>	<b>2.2</b>	<b>0.0017</b>		<b>1.1</b>	<b>0.19</b>
01/28/2016	--	--	—	—	U (0.0020)	U (0.11)	U (0.0030)	U (0.050)	—	—	U (0.0020)	U (0.0020)
10/24/2016	--	--	—	—	U (0.0002)	U (0.41)	U (0.001)	U (0.1)	—	—	U (0.001)	U (0.003)
12/09/2016	--	--	—	—	U (0.002)	U (0.12)	0.006300	0.17	—	—	U (0.001)	0.003400
04/24/2017	--	--	—	—	U (0.0002)	0.22	<b>0.0850</b>	1.40	—	—	U (0.001)	<b>0.44</b>
10/20/2017	--	--	—	—	U (0.002)	U (0.110)	U (0.003)	U (1.0)	—	—	U (0.002)	U (0.003)
02/13/2018	--	--	—	—	U (0.002)	U (0.13)	U (0.003)	U (1.0)	—	—	U (0.002)	U (0.002)
08/17/2018	--	--	—	—	U (0.003)	U (0.12)	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
10/25/2018	--	--	—	—	U (0.003)	U (0.12)	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
02/26/2019	--	--	—	—	U (0.003)	0.12	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
04/24/2019	--	--	—	—	U (0.003)	U (0.27)	0.008600	U (0.25)	—	—	U (0.002)	0.006800
07/16/2019	--	--	—	—	U (0.003)	U (0.12)	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
10/17/2019	--	--	—	—	U (0.003)	U (0.12)	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
08/12/2020	--	66.92	—	—	U (0.001)	U (0.864)	U (0.001)	U (0.100)	—	10.6	U (0.001)	U (0.003)
10/02/2020	--	66.29	—	—	0.000236000	0.406	U (0.001)	0.01890	—	—	U (0.001)	U (0.002)
05/18/2021	--	62.56	U (0.00100)	0.000191000	U (0.001)	U (0.800)	0.001700	0.06930	U (0.00500)	13.9	U (0.001)	U (0.002)
07/21/2021	--	62.64	0.000612000	0.000507000	U (0.001)	0.34	U (0.001)	0.04780	U (0.00500)	14.2	U (0.001)	U (0.003)
10/13/2021	--	66.89	U (0.00100)	U (0.00100)	0.000267000	0.402	U (0.001)	0.07760	U (0.000250)	20.3	U (0.001)	U (0.002)
03/18/2022	--	62.05	U (0.00100)	U (0.00100)	0.000264000	U (0.800)	0.000484000	0.08580	U (0.000250)	17.3	U (0.00100)	U (0.00300)
05/11/2022	--	67.47	U (0.00100)	U (0.00100)	U (0.00100)	U (0.800)	U (0.00100)	0.03450	U (0.000250)	20.2	U (0.00100)	U (0.00300)
07/19/2022	--	69.95	U (0.00100)	U (0.00100)	U (0.00100)	U (0.800)	U (0.00100)	U (0.100)	U (0.000250)	8.41	U (0.00100)	U (0.00300)
10/12/2022	--	79.93	U (0.00100)	U (0.00100)	U (0.00100)	U (0.170)	U (0.00100)	U (0.100)	U (0.000250)	8.87	U (0.00100)	U (0.00300)
03/08/2023	--	65.87	U (0.00100)	U (0.00100)	0.0031900	U (0.170)	U (0.00100)	U (0.100)	U (0.000250)	9.82	U (0.00100)	U (0.00300)
04/28/2023	--	--	—	—	0.000126000	0.386	U (0.00100)	0.07080	U (0.000250)	18.5	U (0.00100)	U (0.00300)
07/12/2023	--	73.56	U (0.00100)	U (0.00100)	U (0.00100)	0.207	U (0.00100)	0.03590	U (0.000250)	6.18	U (0.00100)	U (0.00100)
11/02/2023	--	74.35	U (0.00100)	U (0.00100)	U (0.00100)	1.02	U (0.00100)	0.03580	U (0.000250)	5.24	U (0.00100)	U (0.00300)
03/22/2024	--	64.34	U (0.00100)	U (0.00100)	U (0.00100)	U (0.800)	U (0.00100)	0.186	U (0.000250)	11.0	U (0.00100)	U (0.00100)
06/19/2024	--	73.32	U (0.00100)	U (0.00100)	U (0.00100)	U (0.800)	U (0.00100)	U (0.100)	U (0.000250)	6.07	U (0.00100)	U (0.00300)
08/27/2024	--	73.91	—	—	U (0.00100)	0.197	U (0.00100)	0.06040	U (0.000250)	5.65	U (0.00100)	U (0.00100)
10/28/2024	--	75.42	U (0.00100)	U (0.00100)	U (0.00100)	U (0.800)	U (0.00100)	0.0520	U (0.000250)	5.34	U (0.00100)	U (0.00300)
<b>G-7</b>												
08/03/1998	--	--	—	—	U	U	U	U	—	—	U	U
11/02/1998	--	--	—	—	U	U	0.0120	0.16	—	—	0.00500	0.0580
02/12/1999	--	--	—	—	U	0.79	U	U	—	—	U	U
05/10/1999	--	--	—	—	U	0.45	U	U	—	—	U	U
08/30/1999	--	--	—	—	U	U	U	U	—	—	U	U
10/29/1999	--	--	—	—	U	U	U	U	—	—	U	U
06/08/2000	--	--	—	—	U	U	U	U	—	—	U	U
11/30/2000	--	--	—	—	U	U	U	U	—	—	U	U
05/10/2001	--	--	—	—	U	U	U	U	—	—	U	U

	<i>Well Screen Interval</i>	<i>Ground Water Elevation</i>	<i>1,2,4-TMB</i>	<i>1,3,5-TMB</i>	<i>Benzene</i>	<i>DRO</i>	<i>Ethylbenzene</i>	<i>GRO</i>	<i>Naphthalene</i>	<i>Sodium</i>	<i>Toluene</i>	<i>Total Xylenes</i>
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>			<b>0.056</b>	<b>0.06</b>	<b>0.0046</b>	<b>1.5</b>	<b>0.015</b>	<b>2.2</b>	<b>0.0017</b>		<b>1.1</b>	<b>0.19</b>
11/09/2001	--	--	—	—	U	U	U	U	—	—	U	U
05/30/2002	--	--	—	—	U	2.47	U	U	—	—	U	U
04/17/2003	--	--	—	—	U (0.0005)	U (0.25)	U (0.0005)	U (0.08)	—	—	U (0.0005)	U (0.001)
04/13/2004	--	--	—	—	U (0.0005)	U (0.5)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
04/11/2005	--	--	—	—	U (0.0005)	U (0.435)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
04/18/2006	--	--	—	—	U (0.0005)	U (0.397)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
04/19/2007	--	--	—	—	U (0.0005)	U (0.42)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
04/15/2008	--	--	—	—	U (0.0005)	0.673	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
02/19/2009	--	--	—	—	U (0.0005)	U (0.455)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
01/27/2010	--	--	—	—	U (0.0005)	U (0.397)	U (0.001)	U (0.05)	—	—	U (0.001)	U (0.003)
05/27/2010	--	--	—	—	U (0.0005)	U (0.439)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
08/19/2010	--	--	—	—	U (0.0005)	U (0.410)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
10/26/2010	--	--	—	—	U (0.0005)	U (0.407)	U (0.0005)	U (0.08)	—	—	U (0.0005)	U (0.001)
02/17/2011	--	--	—	—	U (0.0005)	U (0.403)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
06/09/2011	--	--	—	—	U (0.0005)	U (0.439)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
09/20/2011	--	--	—	—	U (0.0005)	U (0.391)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
10/21/2011	--	--	—	—	U (0.0005)	U (0.413)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
02/17/2012	--	--	—	—	U (0.0005)	0.584	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
05/17/2012	--	--	—	—	U (0.0005)	0.628	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
07/18/2012	--	--	—	—	U (0.0005)	U (0.403)	U (0.0010)	U (0.05)	—	—	U (0.0010)	U (0.0030)
09/05/2012	--	--	—	—	U (0.0005)	U (0.400)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
10/30/2012	--	--	—	—	U (0.0005)	U (0.397)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
01/30/2013	--	--	—	—	U (0.0005)	0.531	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
02/15/2013	--	--	—	—	U (0.0005)	U (0.403)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
05/10/2013	--	--	—	—	U (0.0005)	U (0.417)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
10/11/2013	--	--	—	—	U (0.0005)	U (0.410)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
12/11/2013	--	--	—	—	U (0.0005)	U (0.410)	U (0.001)	U (0.05)	—	—	U (0.001)	U (0.003)
02/19/2014	--	--	—	—	U (0.0005)	U (0.407)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
05/01/2014	--	--	—	—	U (0.0005)	U (0.39)	U (0.001)	U (0.05)	—	—	U (0.001)	U (0.001)
10/30/2014	--	--	—	—	U (0.0005)	U (0.39)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
02/11/2015	--	--	—	—	U (0.0005)	U (0.42)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
05/15/2015	--	--	—	—	U (0.0005)	U (0.42)	U (0.0005)	U (0.05)	—	—	U (0.0005)	U (0.0015)
09/02/2015	--	--	—	—	U (0.0020)	U (0.42)	U (0.001)	0.16	—	—	U (0.001)	U (0.001)
11/12/2015	--	--	—	—	U (0.0020)	U (0.20)	U (0.0030)	U (0.050)	—	—	U (0.0020)	U (0.0020)
01/28/2016	--	--	—	—	U (0.0020)	0.23	U (0.0030)	U (0.050)	—	—	U (0.0020)	U (0.0020)
05/09/2016	--	--	—	—	U (0.0002)	U (0.41)	U (0.001)	U (0.1)	—	—	U (0.001)	U (0.003)
10/24/2016	--	--	—	—	U (0.0002)	U (0.41)	U (0.001)	U (0.1)	—	—	U (0.001)	U (0.003)
12/09/2016	--	--	—	—	U (0.002)	U (0.11)	U (0.003)	U (0.05)	—	—	U (0.002)	U (0.003)
02/08/2017	--	--	—	—	U (0.002)	U (0.11)	U (0.003)	U (0.05)	—	—	U (0.002)	U (0.002)

	Well Screen Interval	Ground Water Elevation	124-TMB	135-TMB	Benzene	DRO	Ethylbenzene	GRO	Naphthalene	Sodium	Toluene	Total Xylenes
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>			<b>0.056</b>	<b>0.06</b>	<b>0.0046</b>	<b>1.5</b>	<b>0.015</b>	<b>2.2</b>	<b>0.0017</b>		<b>1.1</b>	<b>0.19</b>
04/25/2017	--	--	—	—	U (0.0002)	U (0.11)	U (0.001)	U (1.0)	—	—	U (0.001)	U (0.003)
10/20/2017	--	--	—	—	U (0.002)	U (0.110)	U (0.003)	U (1.0)	—	—	U (0.002)	U (0.003)
02/13/2018	--	--	—	—	U (0.002)	U (0.12)	U (0.003)	U (1.0)	—	—	U (0.002)	U (0.002)
08/17/2018	--	--	—	—	U (0.003)	U (0.12)	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
10/25/2018	--	--	—	—	U (0.003)	U (0.12)	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
02/26/2019	--	--	—	—	U (0.003)	U (0.13)	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
04/24/2019	--	--	—	—	U (0.003)	U (0.26)	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
07/16/2019	--	--	—	—	U (0.003)	U (0.12)	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
10/17/2019	--	--	—	—	U (0.003)	U (0.12)	U (0.003)	U (0.25)	—	—	U (0.002)	U (0.003)
10/02/2020	--	67.10	—	—	U (0.001)	U (0.888)	U (0.001)	U (0.100)	—	—	U (0.001)	U (0.002)
05/18/2021	--	60.81	U (0.00100)	U (0.00100)	U (0.001)	U (0.800)	U (0.001)	0.0320	U (0.00500)	9.55	U (0.001)	U (0.002)
07/21/2021	--	61.67	U (0.00100)	U (0.00100)	U (0.001)	0.251	U (0.001)	U (0.100)	U (0.00500)	13.1	U (0.001)	U (0.003)
10/13/2021	--	66.63	U (0.00100)	U (0.00100)	U (0.001)	0.358	U (0.001)	0.05070	U (0.000250)	5.05	U (0.001)	U (0.002)
03/18/2022	--	59.20	U (0.00100)	U (0.00100)	U (0.00100)	U (0.800)	U (0.00100)	U (0.100)	U (0.000250)	14.3	U (0.00100)	U (0.00300)
05/11/2022	--	67.15	U (0.00100)	U (0.00100)	U (0.00100)	U (0.800)	U (0.00100)	U (0.100)	U (0.000250)	5.09	U (0.00100)	U (0.00300)
07/19/2022	--	69.89	U (0.00100)	U (0.00100)	U (0.00100)	U (0.800)	U (0.00100)	U (0.100)	U (0.000250)	6.10	U (0.00100)	U (0.00300)
10/12/2022	--	79.69	U (0.00100)	U (0.00100)	U (0.00100)	U (0.170)	U (0.00100)	U (0.0287)	U (0.000250)	6.88	U (0.00100)	U (0.00300)
03/08/2023	--	65.89	U (0.00100)	U (0.00100)	0.000124000	0.28	U (0.00100)	0.04930	U (0.000250)	4.35	U (0.00100)	U (0.00300)
04/28/2023	--	--	—	—	U (0.00100)	0.267	U (0.00100)	U (0.00100)	U (0.000250)	7.91	U (0.00100)	0.000431000
07/12/2023	--	73.37	U (0.00100)	U (0.00100)	U (0.00100)	0.216	U (0.00100)	0.04610	U (0.000250)	5.20	U (0.00100)	U (0.00100)
11/02/2023	--	74.17	U (0.00100)	U (0.00100)	U (0.00100)	0.563	U (0.00100)	0.0380	U (0.000250)	4.41	U (0.00100)	U (0.00300)
03/22/2024	--	64.30	U (0.00100)	U (0.00100)	U (0.00100)	U (0.840)	U (0.00100)	0.0430	U (0.000250)	4.67	U (0.00100)	U (0.00100)
06/19/2024	--	73.17	U (0.00100)	U (0.00100)	U (0.00100)	U (0.800)	U (0.00100)	0.04010	U (0.000250)	4.71	U (0.00100)	U (0.00300)
08/27/2024	--	73.74	—	—	U (0.00100)	0.228	U (0.00100)	0.05690	U (0.000250)	4.63	U (0.00100)	U (0.00100)
10/28/2024	--	74.72	U (0.00100)	U (0.00100)	U (0.00100)	U (0.840)	U (0.00100)	0.05810	U (0.000250)	4.55	U (0.00100)	U (0.00300)
<b>MW16-2</b>												
12/09/2016	--	--	—	—	U (0.0002)	0.25	<b>0.0220</b>	2.00	—	—	U (0.001)	<b>0.429</b>
02/08/2017	--	--	—	—	U (0.002)	<b>2.10</b>	<b>0.44</b>	<b>19.0</b>	—	—	0.007800	<b>3.30</b>
04/25/2017	--	--	—	—	U (0.0002)	0.86	U (0.30)	<b>8.70</b>	—	—	U (0.002)	<b>1.00</b>
10/20/2017	--	--	—	—	U (0.002)	0.26	<b>0.0420</b>	2.20	—	—	U (0.002)	0.125
02/13/2018	--	--	—	—	U (0.002)	0.59	<b>0.0510</b>	<b>6.10</b>	—	—	U (0.002)	0.177
08/17/2018	--	--	—	—	U (0.003)	0.63	0.0150	<b>2.40</b>	—	—	U (0.002)	0.07710
10/25/2018	--	--	—	—	U (0.003)	0.31	0.003600	1.00	—	—	U (0.002)	0.0130
02/26/2019	--	--	—	—	U (0.003)	1.10	0.006600	<b>4.60</b>	—	—	U (0.002)	0.0230
04/24/2019	--	--	—	—	U (0.003)	0.58	0.006500	<b>4.20</b>	—	—	U (0.002)	0.0270
07/16/2019	--	--	—	—	U (0.003)	0.67	0.006600	<b>3.40</b>	—	—	U (0.002)	0.0310
10/17/2019	--	--	—	—	U (0.003)	0.30	0.005200	2.10	—	—	U (0.002)	0.0230
08/12/2020	--	67.36	—	—	U (0.001)	0.419	0.0016600	1.65	—	21.7	U (0.001)	0.0073500
10/02/2020	--	67.05	—	—	U (0.001)	0.25	0.00072000	0.967	—	—	U (0.001)	0.00277200

		Well Screen Interval	Ground Water Elevation	124-TMB	135-TMB	Benzene	DRO	Ethylbenzene	GRO	Naphthalene	Sodium	Toluene	Total Xylenes
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>			<b>0.056</b>	<b>0.06</b>	<b>0.0046</b>	<b>1.5</b>	<b>0.015</b>	<b>2.2</b>	<b>0.0017</b>			<b>1.1</b>	<b>0.19</b>
03/31/2021	--	65.19	—	—	U (0.001)	0.585	0.00100	<b>2.86</b>	—	4.42	U (0.001)	0.0027600	
05/18/2021	--	66.27	0.0110	0.01030	U (0.001)	U (0.800)	U (0.001)	0.419	U (0.00500)	4.72	U (0.001)	U (0.002)	
07/21/2021	--	66.08	0.01450	0.01260	U (0.001)	0.441	0.000569000	0.724	U (0.00500)	5.58	U (0.001)	0.0013500	
10/13/2021	--	67.54	U (0.00100)	U (0.00100)	U (0.001)	0.819	U (0.001)	0.765	U (0.000250)	71.7	U (0.001)	U (0.002)	
03/18/2022	--	65.86	0.03410	0.02310	U (0.00100)	0.643	0.00032000	1.95	0.000106000	6.93	U (0.00100)	U (0.00300)	
05/11/2022	--	67.88	0.01240	0.0063100	0.000105000	0.49	U (0.00100)	0.658	U (0.000250)	21.6	U (0.00100)	U (0.00300)	
07/19/2022	--	70.17	0.02030	0.01010	0.00013000	U (0.800)	U (0.00100)	0.354	U (0.000250)	9.06	U (0.00100)	U (0.00300)	
10/12/2022	--	80.12	0.000523000	0.000487000	U (0.00100)	U (0.170)	U (0.00100)	0.02940	U (0.000250)	9.84	U (0.00100)	U (0.00300)	
03/08/2023	--	66.69	<b>0.09380</b>	<b>0.06640</b>	0.0029300	1.46	0.000899000	1.61	0.000116000	180	0.00042000	0.000326000	
04/28/2023	--	--	—	—	U (0.00100)	0.368	0.000143000	0.926	U (0.000250)	13.0	U (0.00100)	0.000357000	
07/12/2023	--	73.75	U (0.00100)	U (0.00100)	U (0.00100)	0.21	U (0.00100)	U (0.100)	U (0.000263)	6.95	U (0.00100)	U (0.00100)	
11/02/2023	--	74.47	U (0.00100)	U (0.00100)	U (0.00100)	0.449	U (0.00100)	0.03820	U (0.000250)	5.26	U (0.00100)	U (0.00300)	
03/22/2024	--	66.62	0.01980	0.01260	U (0.00100)	U (0.800)	0.000346000	0.864	U (0.000250)	42.9	U (0.00100)	U (0.00100)	
06/19/2024	--	73.52	U (0.00100)	U (0.00100)	U (0.00100)	U (0.800)	U (0.00100)	0.04740	U (0.000250)	6.16	U (0.00100)	U (0.00300)	
10/28/2024	--	75.59	U (0.00100)	U (0.00100)	U (0.00100)	U (0.800)	U (0.00100)	0.139	U (0.000250)	6.13	U (0.00100)	U (0.00300)	
<b>R1+2</b>													
12/09/2016	--	--	—	—	U	U	U	—	—	—	U	U	
04/25/2017	--	--	—	—	U	U	U	—	—	—	U	U	
08/17/2018	--	--	—	—	U	U	U	—	—	—	U	U	
04/23/2019	--	--	—	—	U	U (0.26)	U	—	—	—	U	U	
10/02/2020	--	--	—	—	U (0.000500)	U (0.240)	U (0.000500)	—	—	—	U (0.00100)	U (0.000500)	
10/13/2021	--	--	—	—	U (0.000500)	0.343	U (0.000500)	—	—	—	U (0.00100)	U (0.000500)	
10/12/2022	--	--	—	—	U (0.000500)	U (0.170)	U (0.000500)	—	—	—	U (0.00100)	U (0.000500)	
11/02/2023	--	--	—	—	U (0.000500)	0.444	U (0.000500)	—	—	—	U (0.000500)	U (0.000500)	
10/28/2024	--	--	—	—	U (0.000500)	—	U (0.000500)	—	—	—	U (0.000500)	U (0.000500)	
<b>R4</b>													
12/09/2016	--	--	—	—	U	U	U	—	—	—	U	U	
04/25/2017	--	--	—	—	U	U	U	—	—	—	U	U	
08/17/2018	--	--	—	—	U	U	U	—	—	—	U	U	
04/23/2019	--	--	—	—	U	U (0.25)	U	—	—	—	U	U	
10/02/2020	--	--	—	—	U (0.000500)	U (0.840)	U (0.000500)	—	—	—	U (0.00100)	U (0.000500)	
10/13/2021	--	--	—	—	U (0.000500)	0.327	U (0.000500)	—	—	—	U (0.00100)	U (0.000500)	
10/12/2022	--	--	—	—	U (0.000500)	U (0.800)	U (0.000500)	—	—	—	U (0.00100)	U (0.000500)	
10/28/2024	--	--	—	—	0.00005260000	—	U (0.000500)	—	—	—	U (0.000500)	U (0.000500)	
<b>R5</b>													
12/09/2016	--	--	—	—	U	U	U	—	—	—	U	U	
04/25/2017	--	--	—	—	U	U	U	—	—	—	U	U	
08/17/2018	--	--	—	—	U	U	U	—	—	—	U	U	

		Well Screen Interval	Ground Water Elevation	124-TMB	135-TMB	Benzene	DRO	Ethylbenzene	GRO	Naphthalene	Sodium	Toluene	Total Xylenes
Unit	ft	ft	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<b>GW Human Health Cleanup</b>			<b>0.056</b>	<b>0.06</b>	<b>0.0046</b>	<b>1.5</b>	<b>0.015</b>	<b>2.2</b>	<b>0.0017</b>			<b>1.1</b>	<b>0.19</b>
04/23/2019	--	--	—	—	U	U(0.27)	U	—	—	—	—	U	U
10/02/2020	--	--	—	—	U(0.000500)	U(0.800)	U(0.000500)	—	—	—	—	U(0.00100)	U(0.000500)
10/13/2021	--	--	—	—	U(0.000500)	0.273	U(0.000500)	—	—	—	—	U(0.00100)	U(0.000500)
10/12/2022	--	--	—	—	U(0.000500)	U(0.800)	U(0.000500)	—	—	—	—	U(0.00100)	0.000303000
11/02/2023	--	--	—	—	U(0.000500)	1.03	U(0.000500)	—	—	—	—	U(0.000500)	U(0.000500)
10/28/2024	--	--	—	—	U(0.000500)	—	U(0.000500)	—	—	—	—	U(0.000500)	U(0.000500)
<b>RW16-1</b>													
10/24/2016	--	--	—	—	U (0.0002)	<b>4.60</b>	<b>1.70</b>	<b>30.0</b>	—	—	—	0.0190	<b>10.1</b>
02/08/2017	--	--	—	—	U (0.002)	<b>2.70</b>	<b>7.90</b>	<b>25.0</b>	—	—	—	0.004800	<b>8.90</b>
04/25/2017	--	--	—	—	U (0.002)	<b>2.40</b>	U (0.750)	<b>12.0</b>	—	—	—	U (0.001)	<b>4.83</b>
08/17/2018	--	--	—	—	U (0.003)	<b>7.90</b>	<b>1.20</b>	<b>24.0</b>	—	—	—	0.001800	<b>8.50</b>
08/12/2020	--	67.49	—	—	0.00092000	<b>2.00</b>	<b>1.58</b>	<b>5.85</b>	—	65.8	—	0.0055800	<b>8.26</b>
10/02/2020	--	67.20	—	—	U (0.020)	<b>3.58</b>	<b>0.373</b>	<b>3.99</b>	—	—	—	0.01740	<b>1.721</b>
03/31/2021	--	67.77	—	—	U (0.020)	<b>4.72</b>	<b>1.33</b>	<b>14.0</b>	—	64.0	—	U (0.020)	<b>5.28</b>
05/18/2021	--	66.12	<b>2.50</b>	<b>0.53</b>	U (0.200)	<b>7.24</b>	<b>0.761</b>	<b>3.38</b>	U (1.00)	24.1	—	U (0.200)	<b>4.80</b>
07/21/2021	--	65.91	<b>2.90</b>	<b>0.597</b>	U (0.200)	<b>9.60</b>	<b>1.36</b>	<b>7.22</b>	U (1.00)	16.7	—	U (0.200)	<b>7.69</b>
10/13/2021	--	67.71	<b>1.83</b>	<b>0.28</b>	U (0.200)	<b>7.89</b>	<b>1.11</b>	<b>7.99</b>	U (1.00)	11.3	—	U (0.200)	<b>4.826</b>
03/18/2022	--	65.51	<b>4.04</b>	<b>0.868</b>	U(0.200)	<b>4.36</b>	<b>0.939</b>	<b>23.2</b>	<b>0.04860</b>	39.9	—	U(0.200)	<b>5.548</b>
05/11/2022	--	68.00	<b>3.88</b>	<b>0.756</b>	U(0.0500)	<b>5.82</b>	<b>0.533</b>	<b>17.7</b>	<b>0.06120</b>	56.9	—	U(0.0500)	<b>2.773</b>
07/19/2022	--	70.05	0.03960	0.01150	0.000116000	0.572	0.0024200	0.247	0.0010400	33.2	—	0.00028000	0.033910
10/12/2022	--	79.98	0.0024100	U(0.000104)	0.000309000	0.50	0.000383000	0.322	0.001100	26.7	—	0.00038000	0.0130
03/08/2023	--	66.64	<b>2.47</b>	<b>0.328</b>	0.0017400	<b>5.76</b>	<b>0.661</b>	<b>2.61</b>	<b>0.03170</b>	274	—	0.0044300	<b>0.531</b>
04/28/2023	--	--	—	—	U(0.00100)	<b>3.69</b>	<b>0.437</b>	<b>7.51</b>	<b>0.03820</b>	161	—	U(0.00100)	<b>2.14</b>
07/12/2023	--	73.62	<b>0.172</b>	0.05050	0.000595000	0.607	0.0080800	1.48	0.000706000	18.3	—	0.0015300	0.01910
11/02/2023	--	74.50	U(0.00100)	0.000216000	U(0.00100)	0.626	U(0.00100)	0.09130	U(0.000250)	9.90	—	U(0.00100)	U(0.00300)
03/22/2024	--	66.37	<b>2.47</b>	<b>0.458</b>	0.000964000	<b>2.56</b>	<b>0.534</b>	<b>14.9</b>	<b>0.04920</b>	102	—	0.0042500	<b>0.584</b>
06/19/2024	--	73.50	0.02710	0.0034900	U(0.00500)	U(0.800)	0.0074900	0.58	0.000851000	14.6	—	U(0.00500)	0.033930
08/27/2024	--	74.04	—	—	0.00013000	0.432	0.0043900	0.402	0.000472000	14.8	—	0.000374000	0.01190
10/28/2024	--	75.66	0.0011200	U(0.00100)	U(0.00100)	U(0.888)	0.000452000	0.386	U(0.000250)	8.35	—	U(0.00100)	0.00166600

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## **APPENDIX E**

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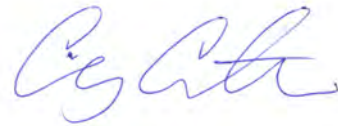
*PACE Laboratory Analytical Report and  
ADEC Laboratory Data Review Checklist*

---

**7-11 Stantec - Anchorage, AK**

Sample Delivery Group: L1794100  
Samples Received: 10/30/2024  
Project Number: 203723785  
Description: Store 5325  
Site: 5325/TNS 52  
Report To: Ms. Sydney Souza  
725 E Fireweed Lane  
Suite 200  
Anchorage, AK 99503

Entire Report Reviewed By:



Craig Cothron  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

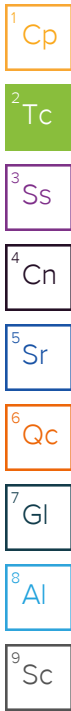
**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com



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# SAMPLE SUMMARY

## G-7 L1794100-01 GW

Collected by Sydney Souza      Collected date/time 10/28/24 09:59      Received date/time 10/30/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2395848	1	11/07/24 14:43	11/07/24 17:24	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2393958	1	11/02/24 11:47	11/02/24 11:47	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2397299	1	11/07/24 11:57	11/07/24 11:57	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2394825	1.05	11/05/24 04:29	11/05/24 19:58	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG2393724	1	11/01/24 16:35	11/03/24 14:36	HLA	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

## G-5 L1794100-02 GW

Collected by Sydney Souza      Collected date/time 10/28/24 10:35      Received date/time 10/30/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2395848	1	11/07/24 14:43	11/07/24 17:26	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2393958	1	11/02/24 12:09	11/02/24 12:09	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2397299	1	11/07/24 12:16	11/07/24 12:16	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2394825	1	11/05/24 04:29	11/05/24 20:19	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG2393724	1	11/01/24 16:35	11/03/24 14:54	HLA	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

## G-4 L1794100-03 GW

Collected by Sydney Souza      Collected date/time 10/28/24 10:39      Received date/time 10/30/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2395848	1	11/07/24 14:43	11/07/24 17:28	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2393958	1	11/02/24 12:31	11/02/24 12:31	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2397299	1	11/07/24 12:35	11/07/24 12:35	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2394825	1.05	11/05/24 04:29	11/05/24 20:39	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG2393724	1	11/01/24 16:35	11/03/24 15:11	HLA	Mt. Juliet, TN

9 Sc

## G-1 L1794100-04 GW

Collected by Sydney Souza      Collected date/time 10/28/24 11:05      Received date/time 10/30/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2395848	1	11/07/24 14:43	11/07/24 17:30	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2393958	1	11/02/24 12:54	11/02/24 12:54	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2397299	1	11/07/24 12:54	11/07/24 12:54	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2394825	1.05	11/05/24 04:29	11/05/24 20:59	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG2393724	1	11/01/24 16:35	11/03/24 15:29	HLA	Mt. Juliet, TN

## RW16-1 L1794100-05 GW

Collected by Sydney Souza      Collected date/time 10/28/24 11:42      Received date/time 10/30/24 09:00

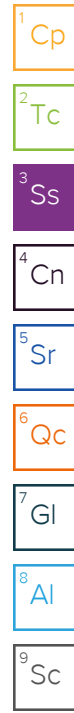
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2395848	1	11/07/24 14:43	11/07/24 17:31	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2394543	1	11/03/24 12:18	11/03/24 12:18	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2397299	1	11/07/24 13:13	11/07/24 13:13	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2394825	1.11	11/05/24 04:29	11/05/24 21:19	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG2393724	1	11/01/24 16:35	11/03/24 15:47	HLA	Mt. Juliet, TN

# SAMPLE SUMMARY

## MW16-2 L1794100-06 GW

Collected by Sydney Souza      Collected date/time 10/28/24 11:50      Received date/time 10/30/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2395848	1	11/07/24 14:43	11/07/24 17:33	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2394543	1	11/03/24 12:40	11/03/24 12:40	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2397299	1	11/07/24 13:32	11/07/24 13:32	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2394825	1	11/05/24 04:29	11/05/24 21:40	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG2393724	1	11/01/24 16:35	11/03/24 16:05	HLA	Mt. Juliet, TN



## G-3 L1794100-07 GW

Collected by Sydney Souza      Collected date/time 10/28/24 12:34      Received date/time 10/30/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2395848	1	11/07/24 14:43	11/07/24 17:35	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2394543	1	11/03/24 13:02	11/03/24 13:02	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2397299	1	11/07/24 13:51	11/07/24 13:51	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2394825	1.05	11/05/24 04:29	11/05/24 22:00	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG2393724	1	11/01/24 16:35	11/03/24 16:23	HLA	Mt. Juliet, TN

## R-4 L1794100-08 DW

Collected by Sydney Souza      Collected date/time 10/28/24 09:40      Received date/time 10/30/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 524.2	WG2394978	1	11/04/24 17:25	11/04/24 17:25	ADM	Mt. Juliet, TN

## TRIP BLANK 1 L1794100-09 GW

Collected by Sydney Souza      Collected date/time 10/28/24 00:00      Received date/time 10/30/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2397299	1	11/07/24 10:02	11/07/24 10:02	DYW	Mt. Juliet, TN

## R-5 L1794100-10 DW

Collected by Sydney Souza      Collected date/time 10/28/24 09:50      Received date/time 10/30/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 524.2	WG2394978	1	11/04/24 17:48	11/04/24 17:48	ADM	Mt. Juliet, TN

## R1+2 L1794100-11 DW

Collected by Sydney Souza      Collected date/time 10/28/24 10:05      Received date/time 10/30/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 524.2	WG2394978	1	11/04/24 18:11	11/04/24 18:11	ADM	Mt. Juliet, TN

## DUP L1794100-12 GW

Collected by Sydney Souza      Collected date/time 10/28/24 00:00      Received date/time 10/30/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2395848	1	11/07/24 14:43	11/07/24 17:37	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG2394543	1	11/03/24 13:25	11/03/24 13:25	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2397299	1	11/07/24 14:10	11/07/24 14:10	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG2394825	1.11	11/05/24 04:29	11/05/24 22:21	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG2393724	1	11/01/24 16:35	11/03/24 16:40	HLA	Mt. Juliet, TN

# SAMPLE SUMMARY

TRIP BLANK 2 L1794100-13 GW

Collected by: Sydney Souza  
Collected date/time: 10/28/24 00:00  
Received date/time: 10/30/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2397299	1	11/07/24 10:21	11/07/24 10:21	DYW	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

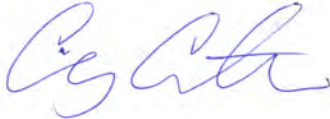
<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Craig Cothron  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	4.55		0.504	3.00	1	11/07/2024 17:24	<a href="#">WG2395848</a>

## Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.0581	<u>B J</u>	0.0287	0.100	1	11/02/2024 11:47	<a href="#">WG2393958</a>
(S) a,a,a-Trifluorotoluene(FID)	81.3			50.0-150		11/02/2024 11:47	<a href="#">WG2393958</a>
(S) a,a,a-Trifluorotoluene(PID)	0.000	<u>J2</u>		79.0-125		11/02/2024 11:47	<a href="#">WG2393958</a>

## Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U	<u>J3</u>	0.0000941	0.00100	1	11/07/2024 11:57	<a href="#">WG2397299</a>
n-Butylbenzene	U	<u>J3</u>	0.000157	0.00100	1	11/07/2024 11:57	<a href="#">WG2397299</a>
sec-Butylbenzene	U	<u>J3</u>	0.000125	0.00100	1	11/07/2024 11:57	<a href="#">WG2397299</a>
tert-Butylbenzene	U	<u>J3</u>	0.000127	0.00100	1	11/07/2024 11:57	<a href="#">WG2397299</a>
Ethylbenzene	U	<u>J3</u>	0.000137	0.00100	1	11/07/2024 11:57	<a href="#">WG2397299</a>
Isopropylbenzene	U	<u>J3</u>	0.000105	0.00100	1	11/07/2024 11:57	<a href="#">WG2397299</a>
Naphthalene	U		0.00100	0.00500	1	11/07/2024 11:57	<a href="#">WG2397299</a>
Toluene	U	<u>J3</u>	0.000278	0.00100	1	11/07/2024 11:57	<a href="#">WG2397299</a>
1,2,4-Trimethylbenzene	U	<u>J3</u>	0.000322	0.00100	1	11/07/2024 11:57	<a href="#">WG2397299</a>
1,3,5-Trimethylbenzene	U	<u>J3</u>	0.000104	0.00100	1	11/07/2024 11:57	<a href="#">WG2397299</a>
m&p-Xylene	U	<u>J3</u>	0.000430	0.00200	1	11/07/2024 11:57	<a href="#">WG2397299</a>
o-Xylene	U	<u>J3</u>	0.000174	0.00100	1	11/07/2024 11:57	<a href="#">WG2397299</a>
(S) Toluene-d8	100			80.0-120		11/07/2024 11:57	<a href="#">WG2397299</a>
(S) 4-Bromofluorobenzene	88.9			77.0-126		11/07/2024 11:57	<a href="#">WG2397299</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/07/2024 11:57	<a href="#">WG2397299</a>

## Semi-Volatile Organic Compounds (GC) by Method AK102

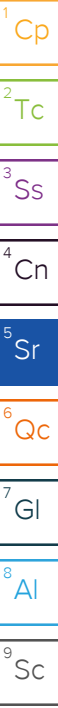
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.179	0.840	1.05	11/05/2024 19:58	<a href="#">WG2394825</a>
(S) o-Terphenyl	14.6	<u>J2</u>		50.0-150		11/05/2024 19:58	<a href="#">WG2394825</a>

## Sample Narrative:

L1794100-01 WG2394825: Duplicate Analysis performed due to surrogate failure. Reporting most compliant data.

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	11/03/2024 14:36	<a href="#">WG2393724</a>
Acenaphthene	U		0.0000190	0.0000500	1	11/03/2024 14:36	<a href="#">WG2393724</a>
Acenaphthylene	U		0.0000171	0.0000500	1	11/03/2024 14:36	<a href="#">WG2393724</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	11/03/2024 14:36	<a href="#">WG2393724</a>
Benzo(a)pyrene	U		0.0000184	0.0000500	1	11/03/2024 14:36	<a href="#">WG2393724</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	11/03/2024 14:36	<a href="#">WG2393724</a>
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	11/03/2024 14:36	<a href="#">WG2393724</a>
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	11/03/2024 14:36	<a href="#">WG2393724</a>
Chrysene	U		0.0000179	0.0000500	1	11/03/2024 14:36	<a href="#">WG2393724</a>
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	11/03/2024 14:36	<a href="#">WG2393724</a>
Fluoranthene	U		0.0000270	0.000100	1	11/03/2024 14:36	<a href="#">WG2393724</a>
Fluorene	U		0.0000169	0.0000500	1	11/03/2024 14:36	<a href="#">WG2393724</a>
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	11/03/2024 14:36	<a href="#">WG2393724</a>



## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Naphthalene	U		0.0000917	0.000250	1	11/03/2024 14:36	<a href="#">WG2393724</a>
Phenanthrene	U		0.0000180	0.0000500	1	11/03/2024 14:36	<a href="#">WG2393724</a>
Pyrene	U		0.0000169	0.0000500	1	11/03/2024 14:36	<a href="#">WG2393724</a>
1-Methylnaphthalene	U		0.0000687	0.000250	1	11/03/2024 14:36	<a href="#">WG2393724</a>
2-Methylnaphthalene	U		0.0000674	0.000250	1	11/03/2024 14:36	<a href="#">WG2393724</a>
<i>(S)</i> Nitrobenzene-d5	129			31.0-160		11/03/2024 14:36	<a href="#">WG2393724</a>
<i>(S)</i> 2-Fluorobiphenyl	124			48.0-148		11/03/2024 14:36	<a href="#">WG2393724</a>
<i>(S)</i> p-Terphenyl-d14	124			37.0-146		11/03/2024 14:36	<a href="#">WG2393724</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	5.34		0.504	3.00	1	11/07/2024 17:26	<a href="#">WG2395848</a>

## Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.0520	<u>B J</u>	0.0287	0.100	1	11/02/2024 12:09	<a href="#">WG2393958</a>
(S) a,a,a-Trifluorotoluene(FID)	81.2			50.0-150		11/02/2024 12:09	<a href="#">WG2393958</a>
(S) a,a,a-Trifluorotoluene(PID)	0.000	<u>J2</u>		79.0-125		11/02/2024 12:09	<a href="#">WG2393958</a>

## Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U	<u>J3</u>	0.0000941	0.00100	1	11/07/2024 12:16	<a href="#">WG2397299</a>
n-Butylbenzene	U	<u>J3</u>	0.000157	0.00100	1	11/07/2024 12:16	<a href="#">WG2397299</a>
sec-Butylbenzene	U	<u>J3</u>	0.000125	0.00100	1	11/07/2024 12:16	<a href="#">WG2397299</a>
tert-Butylbenzene	U	<u>J3</u>	0.000127	0.00100	1	11/07/2024 12:16	<a href="#">WG2397299</a>
Ethylbenzene	U	<u>J3</u>	0.000137	0.00100	1	11/07/2024 12:16	<a href="#">WG2397299</a>
Isopropylbenzene	U	<u>J3</u>	0.000105	0.00100	1	11/07/2024 12:16	<a href="#">WG2397299</a>
Naphthalene	U		0.00100	0.00500	1	11/07/2024 12:16	<a href="#">WG2397299</a>
Toluene	U	<u>J3</u>	0.000278	0.00100	1	11/07/2024 12:16	<a href="#">WG2397299</a>
1,2,4-Trimethylbenzene	U	<u>J3</u>	0.000322	0.00100	1	11/07/2024 12:16	<a href="#">WG2397299</a>
1,3,5-Trimethylbenzene	U	<u>J3</u>	0.000104	0.00100	1	11/07/2024 12:16	<a href="#">WG2397299</a>
m&p-Xylene	U	<u>J3</u>	0.000430	0.00200	1	11/07/2024 12:16	<a href="#">WG2397299</a>
o-Xylene	U	<u>J3</u>	0.000174	0.00100	1	11/07/2024 12:16	<a href="#">WG2397299</a>
(S) Toluene-d8	98.1			80.0-120		11/07/2024 12:16	<a href="#">WG2397299</a>
(S) 4-Bromofluorobenzene	92.8			77.0-126		11/07/2024 12:16	<a href="#">WG2397299</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/07/2024 12:16	<a href="#">WG2397299</a>

## Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.170	0.800	1	11/05/2024 20:19	<a href="#">WG2394825</a>
(S) o-Terphenyl	20.2	<u>J2</u>		50.0-150		11/05/2024 20:19	<a href="#">WG2394825</a>

## Sample Narrative:

L1794100-02 WG2394825: Duplicate Analysis performed due to surrogate failure. Reporting most compliant data.

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	11/03/2024 14:54	<a href="#">WG2393724</a>
Acenaphthene	U		0.0000190	0.0000500	1	11/03/2024 14:54	<a href="#">WG2393724</a>
Acenaphthylene	U		0.0000171	0.0000500	1	11/03/2024 14:54	<a href="#">WG2393724</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	11/03/2024 14:54	<a href="#">WG2393724</a>
Benzo(a)pyrene	U		0.0000184	0.0000500	1	11/03/2024 14:54	<a href="#">WG2393724</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	11/03/2024 14:54	<a href="#">WG2393724</a>
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	11/03/2024 14:54	<a href="#">WG2393724</a>
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	11/03/2024 14:54	<a href="#">WG2393724</a>
Chrysene	U		0.0000179	0.0000500	1	11/03/2024 14:54	<a href="#">WG2393724</a>
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	11/03/2024 14:54	<a href="#">WG2393724</a>
Fluoranthene	U		0.0000270	0.000100	1	11/03/2024 14:54	<a href="#">WG2393724</a>
Fluorene	U		0.0000169	0.0000500	1	11/03/2024 14:54	<a href="#">WG2393724</a>
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	11/03/2024 14:54	<a href="#">WG2393724</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Naphthalene	U		0.0000917	0.000250	1	11/03/2024 14:54	<a href="#">WG2393724</a>
Phenanthrene	U		0.0000180	0.0000500	1	11/03/2024 14:54	<a href="#">WG2393724</a>
Pyrene	U		0.0000169	0.0000500	1	11/03/2024 14:54	<a href="#">WG2393724</a>
1-Methylnaphthalene	U		0.0000687	0.000250	1	11/03/2024 14:54	<a href="#">WG2393724</a>
2-Methylnaphthalene	U		0.0000674	0.000250	1	11/03/2024 14:54	<a href="#">WG2393724</a>
<i>(S)</i> Nitrobenzene-d5	120			31.0-160		11/03/2024 14:54	<a href="#">WG2393724</a>
<i>(S)</i> 2-Fluorobiphenyl	116			48.0-148		11/03/2024 14:54	<a href="#">WG2393724</a>
<i>(S)</i> p-Terphenyl-d14	119			37.0-146		11/03/2024 14:54	<a href="#">WG2393724</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	5.13		0.504	3.00	1	11/07/2024 17:28	<a href="#">WG2395848</a>

## Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.0595	<u>B J</u>	0.0287	0.100	1	11/02/2024 12:31	<a href="#">WG2393958</a>
(S) a,a,a-Trifluorotoluene(FID)	82.5			50.0-150		11/02/2024 12:31	<a href="#">WG2393958</a>
(S) a,a,a-Trifluorotoluene(PID)	0.000	<u>J2</u>		79.0-125		11/02/2024 12:31	<a href="#">WG2393958</a>

## Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U	<u>J3</u>	0.0000941	0.00100	1	11/07/2024 12:35	<a href="#">WG2397299</a>
n-Butylbenzene	U	<u>J3</u>	0.000157	0.00100	1	11/07/2024 12:35	<a href="#">WG2397299</a>
sec-Butylbenzene	U	<u>J3</u>	0.000125	0.00100	1	11/07/2024 12:35	<a href="#">WG2397299</a>
tert-Butylbenzene	U	<u>J3</u>	0.000127	0.00100	1	11/07/2024 12:35	<a href="#">WG2397299</a>
Ethylbenzene	U	<u>J3</u>	0.000137	0.00100	1	11/07/2024 12:35	<a href="#">WG2397299</a>
Isopropylbenzene	U	<u>J3</u>	0.000105	0.00100	1	11/07/2024 12:35	<a href="#">WG2397299</a>
Naphthalene	U		0.00100	0.00500	1	11/07/2024 12:35	<a href="#">WG2397299</a>
Toluene	U	<u>J3</u>	0.000278	0.00100	1	11/07/2024 12:35	<a href="#">WG2397299</a>
1,2,4-Trimethylbenzene	U	<u>J3</u>	0.000322	0.00100	1	11/07/2024 12:35	<a href="#">WG2397299</a>
1,3,5-Trimethylbenzene	U	<u>J3</u>	0.000104	0.00100	1	11/07/2024 12:35	<a href="#">WG2397299</a>
m&p-Xylene	U	<u>J3</u>	0.000430	0.00200	1	11/07/2024 12:35	<a href="#">WG2397299</a>
o-Xylene	U	<u>J3</u>	0.000174	0.00100	1	11/07/2024 12:35	<a href="#">WG2397299</a>
(S) Toluene-d8	104			80.0-120		11/07/2024 12:35	<a href="#">WG2397299</a>
(S) 4-Bromofluorobenzene	95.8			77.0-126		11/07/2024 12:35	<a href="#">WG2397299</a>
(S) 1,2-Dichloroethane-d4	113			70.0-130		11/07/2024 12:35	<a href="#">WG2397299</a>

## Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.179	0.840	1.05	11/05/2024 20:39	<a href="#">WG2394825</a>
(S) o-Terphenyl	8.60	<u>J2</u>		50.0-150		11/05/2024 20:39	<a href="#">WG2394825</a>

## Sample Narrative:

L1794100-03 WG2394825: Duplicate Analysis performed due to surrogate failure. Reporting most compliant data.

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	11/03/2024 15:11	<a href="#">WG2393724</a>
Acenaphthene	U		0.0000190	0.0000500	1	11/03/2024 15:11	<a href="#">WG2393724</a>
Acenaphthylene	U		0.0000171	0.0000500	1	11/03/2024 15:11	<a href="#">WG2393724</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	11/03/2024 15:11	<a href="#">WG2393724</a>
Benzo(a)pyrene	U		0.0000184	0.0000500	1	11/03/2024 15:11	<a href="#">WG2393724</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	11/03/2024 15:11	<a href="#">WG2393724</a>
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	11/03/2024 15:11	<a href="#">WG2393724</a>
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	11/03/2024 15:11	<a href="#">WG2393724</a>
Chrysene	U		0.0000179	0.0000500	1	11/03/2024 15:11	<a href="#">WG2393724</a>
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	11/03/2024 15:11	<a href="#">WG2393724</a>
Fluoranthene	U		0.0000270	0.000100	1	11/03/2024 15:11	<a href="#">WG2393724</a>
Fluorene	U		0.0000169	0.0000500	1	11/03/2024 15:11	<a href="#">WG2393724</a>
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	11/03/2024 15:11	<a href="#">WG2393724</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Naphthalene	U		0.0000917	0.000250	1	11/03/2024 15:11	<a href="#">WG2393724</a>
Phenanthrene	U		0.0000180	0.0000500	1	11/03/2024 15:11	<a href="#">WG2393724</a>
Pyrene	U		0.0000169	0.0000500	1	11/03/2024 15:11	<a href="#">WG2393724</a>
1-Methylnaphthalene	U		0.0000687	0.000250	1	11/03/2024 15:11	<a href="#">WG2393724</a>
2-Methylnaphthalene	U		0.0000674	0.000250	1	11/03/2024 15:11	<a href="#">WG2393724</a>
<i>(S)</i> Nitrobenzene-d5	121			31.0-160		11/03/2024 15:11	<a href="#">WG2393724</a>
<i>(S)</i> 2-Fluorobiphenyl	115			48.0-148		11/03/2024 15:11	<a href="#">WG2393724</a>
<i>(S)</i> p-Terphenyl-d14	118			37.0-146		11/03/2024 15:11	<a href="#">WG2393724</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	4.76		0.504	3.00	1	11/07/2024 17:30	<a href="#">WG2395848</a>

## Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.0508	<u>B J</u>	0.0287	0.100	1	11/02/2024 12:54	<a href="#">WG2393958</a>
(S) a,a,a-Trifluorotoluene(FID)	81.0			50.0-150		11/02/2024 12:54	<a href="#">WG2393958</a>
(S) a,a,a-Trifluorotoluene(PID)	0.000	<u>J2</u>		79.0-125		11/02/2024 12:54	<a href="#">WG2393958</a>

## Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U	<u>J3</u>	0.0000941	0.00100	1	11/07/2024 12:54	<a href="#">WG2397299</a>
n-Butylbenzene	U	<u>J3</u>	0.000157	0.00100	1	11/07/2024 12:54	<a href="#">WG2397299</a>
sec-Butylbenzene	U	<u>J3</u>	0.000125	0.00100	1	11/07/2024 12:54	<a href="#">WG2397299</a>
tert-Butylbenzene	U	<u>J3</u>	0.000127	0.00100	1	11/07/2024 12:54	<a href="#">WG2397299</a>
Ethylbenzene	U	<u>J3</u>	0.000137	0.00100	1	11/07/2024 12:54	<a href="#">WG2397299</a>
Isopropylbenzene	U	<u>J3</u>	0.000105	0.00100	1	11/07/2024 12:54	<a href="#">WG2397299</a>
Naphthalene	U		0.00100	0.00500	1	11/07/2024 12:54	<a href="#">WG2397299</a>
Toluene	U	<u>J3</u>	0.000278	0.00100	1	11/07/2024 12:54	<a href="#">WG2397299</a>
1,2,4-Trimethylbenzene	U	<u>J3</u>	0.000322	0.00100	1	11/07/2024 12:54	<a href="#">WG2397299</a>
1,3,5-Trimethylbenzene	U	<u>J3</u>	0.000104	0.00100	1	11/07/2024 12:54	<a href="#">WG2397299</a>
m&p-Xylene	U	<u>J3</u>	0.000430	0.00200	1	11/07/2024 12:54	<a href="#">WG2397299</a>
o-Xylene	U	<u>J3</u>	0.000174	0.00100	1	11/07/2024 12:54	<a href="#">WG2397299</a>
(S) Toluene-d8	105			80.0-120		11/07/2024 12:54	<a href="#">WG2397299</a>
(S) 4-Bromofluorobenzene	102			77.0-126		11/07/2024 12:54	<a href="#">WG2397299</a>
(S) 1,2-Dichloroethane-d4	113			70.0-130		11/07/2024 12:54	<a href="#">WG2397299</a>

## Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.179	0.840	1.05	11/05/2024 20:59	<a href="#">WG2394825</a>
(S) o-Terphenyl	9.67	<u>J2</u>		50.0-150		11/05/2024 20:59	<a href="#">WG2394825</a>

## Sample Narrative:

L1794100-04 WG2394825: Duplicate Analysis performed due to surrogate failure. Reporting most compliant data.

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	11/03/2024 15:29	<a href="#">WG2393724</a>
Acenaphthene	U		0.0000190	0.0000500	1	11/03/2024 15:29	<a href="#">WG2393724</a>
Acenaphthylene	U		0.0000171	0.0000500	1	11/03/2024 15:29	<a href="#">WG2393724</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	11/03/2024 15:29	<a href="#">WG2393724</a>
Benzo(a)pyrene	U		0.0000184	0.0000500	1	11/03/2024 15:29	<a href="#">WG2393724</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	11/03/2024 15:29	<a href="#">WG2393724</a>
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	11/03/2024 15:29	<a href="#">WG2393724</a>
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	11/03/2024 15:29	<a href="#">WG2393724</a>
Chrysene	U		0.0000179	0.0000500	1	11/03/2024 15:29	<a href="#">WG2393724</a>
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	11/03/2024 15:29	<a href="#">WG2393724</a>
Fluoranthene	U		0.0000270	0.000100	1	11/03/2024 15:29	<a href="#">WG2393724</a>
Fluorene	U		0.0000169	0.0000500	1	11/03/2024 15:29	<a href="#">WG2393724</a>
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	11/03/2024 15:29	<a href="#">WG2393724</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Naphthalene	U		0.0000917	0.000250	1	11/03/2024 15:29	<a href="#">WG2393724</a>
Phenanthrene	U		0.0000180	0.0000500	1	11/03/2024 15:29	<a href="#">WG2393724</a>
Pyrene	U		0.0000169	0.0000500	1	11/03/2024 15:29	<a href="#">WG2393724</a>
1-Methylnaphthalene	U		0.0000687	0.000250	1	11/03/2024 15:29	<a href="#">WG2393724</a>
2-Methylnaphthalene	U		0.0000674	0.000250	1	11/03/2024 15:29	<a href="#">WG2393724</a>
<i>(S)</i> Nitrobenzene-d5	123			31.0-160		11/03/2024 15:29	<a href="#">WG2393724</a>
<i>(S)</i> 2-Fluorobiphenyl	117			48.0-148		11/03/2024 15:29	<a href="#">WG2393724</a>
<i>(S)</i> p-Terphenyl-d14	125			37.0-146		11/03/2024 15:29	<a href="#">WG2393724</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	8.35		0.504	3.00	1	11/07/2024 17:31	<a href="#">WG2395848</a>

## Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.386	<u>B</u>	0.0287	0.100	1	11/03/2024 12:18	<a href="#">WG2394543</a>
(S) a,a,a-Trifluorotoluene(FID)	82.5			50.0-150		11/03/2024 12:18	<a href="#">WG2394543</a>
(S) a,a,a-Trifluorotoluene(PID)	0.000	<u>J2</u>		79.0-125		11/03/2024 12:18	<a href="#">WG2394543</a>

## Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U	<u>J3</u>	0.0000941	0.00100	1	11/07/2024 13:13	<a href="#">WG2397299</a>
n-Butylbenzene	U	<u>J3</u>	0.000157	0.00100	1	11/07/2024 13:13	<a href="#">WG2397299</a>
sec-Butylbenzene	U	<u>J3</u>	0.000125	0.00100	1	11/07/2024 13:13	<a href="#">WG2397299</a>
tert-Butylbenzene	U	<u>J3</u>	0.000127	0.00100	1	11/07/2024 13:13	<a href="#">WG2397299</a>
Ethylbenzene	0.000452	<u>J J3</u>	0.000137	0.00100	1	11/07/2024 13:13	<a href="#">WG2397299</a>
Isopropylbenzene	0.000248	<u>J J3</u>	0.000105	0.00100	1	11/07/2024 13:13	<a href="#">WG2397299</a>
Naphthalene	U		0.00100	0.00500	1	11/07/2024 13:13	<a href="#">WG2397299</a>
Toluene	U	<u>J3</u>	0.000278	0.00100	1	11/07/2024 13:13	<a href="#">WG2397299</a>
1,2,4-Trimethylbenzene	0.00112	<u>J3</u>	0.000322	0.00100	1	11/07/2024 13:13	<a href="#">WG2397299</a>
1,3,5-Trimethylbenzene	U	<u>J3</u>	0.000104	0.00100	1	11/07/2024 13:13	<a href="#">WG2397299</a>
m&p-Xylene	0.00134	<u>J J3</u>	0.000430	0.00200	1	11/07/2024 13:13	<a href="#">WG2397299</a>
o-Xylene	0.000326	<u>J J3</u>	0.000174	0.00100	1	11/07/2024 13:13	<a href="#">WG2397299</a>
(S) Toluene-d8	101			80.0-120		11/07/2024 13:13	<a href="#">WG2397299</a>
(S) 4-Bromofluorobenzene	96.5			77.0-126		11/07/2024 13:13	<a href="#">WG2397299</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		11/07/2024 13:13	<a href="#">WG2397299</a>

## Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.189	0.888	1.11	11/05/2024 21:19	<a href="#">WG2394825</a>
(S) o-Terphenyl	12.8	<u>J2</u>		50.0-150		11/05/2024 21:19	<a href="#">WG2394825</a>

## Sample Narrative:

L1794100-05 WG2394825: Duplicate Analysis performed due to surrogate failure. Reporting most compliant data.

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	11/03/2024 15:47	<a href="#">WG2393724</a>
Acenaphthene	U		0.0000190	0.0000500	1	11/03/2024 15:47	<a href="#">WG2393724</a>
Acenaphthylene	U		0.0000171	0.0000500	1	11/03/2024 15:47	<a href="#">WG2393724</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	11/03/2024 15:47	<a href="#">WG2393724</a>
Benzo(a)pyrene	U		0.0000184	0.0000500	1	11/03/2024 15:47	<a href="#">WG2393724</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	11/03/2024 15:47	<a href="#">WG2393724</a>
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	11/03/2024 15:47	<a href="#">WG2393724</a>
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	11/03/2024 15:47	<a href="#">WG2393724</a>
Chrysene	U		0.0000179	0.0000500	1	11/03/2024 15:47	<a href="#">WG2393724</a>
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	11/03/2024 15:47	<a href="#">WG2393724</a>
Fluoranthene	U		0.0000270	0.000100	1	11/03/2024 15:47	<a href="#">WG2393724</a>
Fluorene	U		0.0000169	0.0000500	1	11/03/2024 15:47	<a href="#">WG2393724</a>
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	11/03/2024 15:47	<a href="#">WG2393724</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Naphthalene	U		0.0000917	0.000250	1	11/03/2024 15:47	<a href="#">WG2393724</a>
Phenanthrene	U		0.0000180	0.0000500	1	11/03/2024 15:47	<a href="#">WG2393724</a>
Pyrene	U		0.0000169	0.0000500	1	11/03/2024 15:47	<a href="#">WG2393724</a>
1-Methylnaphthalene	U		0.0000687	0.000250	1	11/03/2024 15:47	<a href="#">WG2393724</a>
2-Methylnaphthalene	U		0.0000674	0.000250	1	11/03/2024 15:47	<a href="#">WG2393724</a>
<i>(S)</i> Nitrobenzene-d5	126			31.0-160		11/03/2024 15:47	<a href="#">WG2393724</a>
<i>(S)</i> 2-Fluorobiphenyl	127			48.0-148		11/03/2024 15:47	<a href="#">WG2393724</a>
<i>(S)</i> p-Terphenyl-d14	129			37.0-146		11/03/2024 15:47	<a href="#">WG2393724</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

## Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	6.13		0.504	3.00	1	11/07/2024 17:33	<a href="#">WG2395848</a>

## Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.139	<u>B</u>	0.0287	0.100	1	11/03/2024 12:40	<a href="#">WG2394543</a>
(S) a,a,a-Trifluorotoluene(FID)	78.8			50.0-150		11/03/2024 12:40	<a href="#">WG2394543</a>
(S) a,a,a-Trifluorotoluene(PID)	0.000	<u>J2</u>		79.0-125		11/03/2024 12:40	<a href="#">WG2394543</a>

## Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U	<u>J3</u>	0.0000941	0.00100	1	11/07/2024 13:32	<a href="#">WG2397299</a>
n-Butylbenzene	U	<u>J3</u>	0.000157	0.00100	1	11/07/2024 13:32	<a href="#">WG2397299</a>
sec-Butylbenzene	U	<u>J3</u>	0.000125	0.00100	1	11/07/2024 13:32	<a href="#">WG2397299</a>
tert-Butylbenzene	U	<u>J3</u>	0.000127	0.00100	1	11/07/2024 13:32	<a href="#">WG2397299</a>
Ethylbenzene	U	<u>J3</u>	0.000137	0.00100	1	11/07/2024 13:32	<a href="#">WG2397299</a>
Isopropylbenzene	U	<u>J3</u>	0.000105	0.00100	1	11/07/2024 13:32	<a href="#">WG2397299</a>
Naphthalene	U		0.00100	0.00500	1	11/07/2024 13:32	<a href="#">WG2397299</a>
Toluene	U	<u>J3</u>	0.000278	0.00100	1	11/07/2024 13:32	<a href="#">WG2397299</a>
1,2,4-Trimethylbenzene	U	<u>J3</u>	0.000322	0.00100	1	11/07/2024 13:32	<a href="#">WG2397299</a>
1,3,5-Trimethylbenzene	U	<u>J3</u>	0.000104	0.00100	1	11/07/2024 13:32	<a href="#">WG2397299</a>
m&p-Xylene	U	<u>J3</u>	0.000430	0.00200	1	11/07/2024 13:32	<a href="#">WG2397299</a>
o-Xylene	U	<u>J3</u>	0.000174	0.00100	1	11/07/2024 13:32	<a href="#">WG2397299</a>
(S) Toluene-d8	101			80.0-120		11/07/2024 13:32	<a href="#">WG2397299</a>
(S) 4-Bromofluorobenzene	96.6			77.0-126		11/07/2024 13:32	<a href="#">WG2397299</a>
(S) 1,2-Dichloroethane-d4	113			70.0-130		11/07/2024 13:32	<a href="#">WG2397299</a>

## Semi-Volatile Organic Compounds (GC) by Method AK102

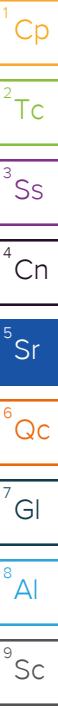
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	U		0.170	0.800	1	11/05/2024 21:40	<a href="#">WG2394825</a>
(S) o-Terphenyl	14.6	<u>J2</u>		50.0-150		11/05/2024 21:40	<a href="#">WG2394825</a>

## Sample Narrative:

L1794100-06 WG2394825: Duplicate Analysis performed due to surrogate failure. Reporting most compliant data.

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	11/03/2024 16:05	<a href="#">WG2393724</a>
Acenaphthene	U		0.0000190	0.0000500	1	11/03/2024 16:05	<a href="#">WG2393724</a>
Acenaphthylene	U		0.0000171	0.0000500	1	11/03/2024 16:05	<a href="#">WG2393724</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	11/03/2024 16:05	<a href="#">WG2393724</a>
Benzo(a)pyrene	U		0.0000184	0.0000500	1	11/03/2024 16:05	<a href="#">WG2393724</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	11/03/2024 16:05	<a href="#">WG2393724</a>
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	11/03/2024 16:05	<a href="#">WG2393724</a>
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	11/03/2024 16:05	<a href="#">WG2393724</a>
Chrysene	U		0.0000179	0.0000500	1	11/03/2024 16:05	<a href="#">WG2393724</a>
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	11/03/2024 16:05	<a href="#">WG2393724</a>
Fluoranthene	U		0.0000270	0.000100	1	11/03/2024 16:05	<a href="#">WG2393724</a>
Fluorene	U		0.0000169	0.0000500	1	11/03/2024 16:05	<a href="#">WG2393724</a>
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	11/03/2024 16:05	<a href="#">WG2393724</a>





Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Naphthalene	U		0.0000917	0.000250	1	11/03/2024 16:05	<a href="#">WG2393724</a>
Phenanthrene	U		0.0000180	0.0000500	1	11/03/2024 16:05	<a href="#">WG2393724</a>
Pyrene	U		0.0000169	0.0000500	1	11/03/2024 16:05	<a href="#">WG2393724</a>
1-Methylnaphthalene	U		0.0000687	0.000250	1	11/03/2024 16:05	<a href="#">WG2393724</a>
2-Methylnaphthalene	U		0.0000674	0.000250	1	11/03/2024 16:05	<a href="#">WG2393724</a>
<i>(S)</i> Nitrobenzene-d5	128			31.0-160		11/03/2024 16:05	<a href="#">WG2393724</a>
<i>(S)</i> 2-Fluorobiphenyl	127			48.0-148		11/03/2024 16:05	<a href="#">WG2393724</a>
<i>(S)</i> p-Terphenyl-d14	123			37.0-146		11/03/2024 16:05	<a href="#">WG2393724</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	5.02		0.504	3.00	1	11/07/2024 17:35	<a href="#">WG2395848</a>

## Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.127	<u>B</u>	0.0287	0.100	1	11/03/2024 13:02	<a href="#">WG2394543</a>
(S) a,a,a-Trifluorotoluene(FID)	82.3			50.0-150		11/03/2024 13:02	<a href="#">WG2394543</a>
(S) a,a,a-Trifluorotoluene(PID)	0.000	<u>J2</u>		79.0-125		11/03/2024 13:02	<a href="#">WG2394543</a>

## Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U	<u>J3</u>	0.0000941	0.00100	1	11/07/2024 13:51	<a href="#">WG2397299</a>
n-Butylbenzene	U	<u>J3</u>	0.000157	0.00100	1	11/07/2024 13:51	<a href="#">WG2397299</a>
sec-Butylbenzene	U	<u>J3</u>	0.000125	0.00100	1	11/07/2024 13:51	<a href="#">WG2397299</a>
tert-Butylbenzene	U	<u>J3</u>	0.000127	0.00100	1	11/07/2024 13:51	<a href="#">WG2397299</a>
Ethylbenzene	0.000929	<u>J J3</u>	0.000137	0.00100	1	11/07/2024 13:51	<a href="#">WG2397299</a>
Isopropylbenzene	0.000277	<u>J J3</u>	0.000105	0.00100	1	11/07/2024 13:51	<a href="#">WG2397299</a>
Naphthalene	U		0.00100	0.00500	1	11/07/2024 13:51	<a href="#">WG2397299</a>
Toluene	U	<u>J3</u>	0.000278	0.00100	1	11/07/2024 13:51	<a href="#">WG2397299</a>
1,2,4-Trimethylbenzene	0.00115	<u>J3</u>	0.000322	0.00100	1	11/07/2024 13:51	<a href="#">WG2397299</a>
1,3,5-Trimethylbenzene	0.00104	<u>J3</u>	0.000104	0.00100	1	11/07/2024 13:51	<a href="#">WG2397299</a>
m&p-Xylene	U	<u>J3</u>	0.000430	0.00200	1	11/07/2024 13:51	<a href="#">WG2397299</a>
o-Xylene	U	<u>J3</u>	0.000174	0.00100	1	11/07/2024 13:51	<a href="#">WG2397299</a>
(S) Toluene-d8	101			80.0-120		11/07/2024 13:51	<a href="#">WG2397299</a>
(S) 4-Bromofluorobenzene	100			77.0-126		11/07/2024 13:51	<a href="#">WG2397299</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/07/2024 13:51	<a href="#">WG2397299</a>

## Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	0.607	<u>J</u>	0.179	0.840	1.05	11/05/2024 22:00	<a href="#">WG2394825</a>
(S) o-Terphenyl	15.2	<u>J2</u>		50.0-150		11/05/2024 22:00	<a href="#">WG2394825</a>

## Sample Narrative:

L1794100-07 WG2394825: Duplicate Analysis performed due to surrogate failure. Reporting most compliant data.

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	11/03/2024 16:23	<a href="#">WG2393724</a>
Acenaphthene	U		0.0000190	0.0000500	1	11/03/2024 16:23	<a href="#">WG2393724</a>
Acenaphthylene	U		0.0000171	0.0000500	1	11/03/2024 16:23	<a href="#">WG2393724</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	11/03/2024 16:23	<a href="#">WG2393724</a>
Benzo(a)pyrene	U		0.0000184	0.0000500	1	11/03/2024 16:23	<a href="#">WG2393724</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	11/03/2024 16:23	<a href="#">WG2393724</a>
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	11/03/2024 16:23	<a href="#">WG2393724</a>
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	11/03/2024 16:23	<a href="#">WG2393724</a>
Chrysene	U		0.0000179	0.0000500	1	11/03/2024 16:23	<a href="#">WG2393724</a>
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	11/03/2024 16:23	<a href="#">WG2393724</a>
Fluoranthene	U		0.0000270	0.000100	1	11/03/2024 16:23	<a href="#">WG2393724</a>
Fluorene	U		0.0000169	0.0000500	1	11/03/2024 16:23	<a href="#">WG2393724</a>
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	11/03/2024 16:23	<a href="#">WG2393724</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Naphthalene	U		0.0000917	0.000250	1	11/03/2024 16:23	<a href="#">WG2393724</a>
Phenanthrene	U		0.0000180	0.0000500	1	11/03/2024 16:23	<a href="#">WG2393724</a>
Pyrene	U		0.0000169	0.0000500	1	11/03/2024 16:23	<a href="#">WG2393724</a>
1-Methylnaphthalene	U		0.0000687	0.000250	1	11/03/2024 16:23	<a href="#">WG2393724</a>
2-Methylnaphthalene	0.0000829	J	0.0000674	0.000250	1	11/03/2024 16:23	<a href="#">WG2393724</a>
(S) Nitrobenzene-d5	126			31.0-160		11/03/2024 16:23	<a href="#">WG2393724</a>
(S) 2-Fluorobiphenyl	124			48.0-148		11/03/2024 16:23	<a href="#">WG2393724</a>
(S) p-Terphenyl-d14	126			37.0-146		11/03/2024 16:23	<a href="#">WG2393724</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0000526	J	0.0000490	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Carbon tetrachloride	U		0.0000660	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,4-Dichlorobenzene	U		0.0000310	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,2-Dichloroethane	U		0.0000498	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,1-Dichloroethene	U		0.0000540	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,1,1-Trichloroethane	U		0.0000490	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Trichloroethene	U		0.0000440	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Vinyl chloride	U		0.0000260	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,2,4-Trichlorobenzene	U		0.0000530	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
cis-1,2-Dichloroethene	U		0.0000640	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Xylenes, Total	U		0.000340	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Methylene chloride	U		0.0000608	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,2-Dichlorobenzene	U		0.0000410	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
trans-1,2-Dichloroethene	U		0.000100	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,2-Dichloropropane	U		0.0000270	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,1,2-Trichloroethane	U		0.0000701	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Tetrachloroethene	U		0.0000790	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Chlorobenzene	U		0.0000370	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Toluene	U		0.000412	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Ethylbenzene	U		0.0000440	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Styrene	U		0.0000360	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Bromobenzene	U		0.0000490	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Bromodichloromethane	U		0.0000810	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Bromoform	U		0.0000800	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Bromomethane	U		0.0000790	0.00100	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Chlorodibromomethane	U		0.0000930	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Chloroethane	U		0.000190	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Chloroform	U		0.0000800	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Chloromethane	U		0.0000290	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
2-Chlorotoluene	U		0.0000480	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
4-Chlorotoluene	U		0.0000550	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
Dibromomethane	U		0.0000700	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,3-Dichlorobenzene	U		0.0000360	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,1-Dichloroethane	U		0.0000240	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,3-Dichloropropane	U		0.0000230	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
2,2-Dichloropropane	U		0.0000680	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,1-Dichloropropene	U		0.0000450	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,3-Dichloropropene	U		0.000150	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,1,1,2-Tetrachloroethane	U		0.0000700	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,1,2,2-Tetrachloroethane	U		0.0000790	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>
1,2,3-Trichloropropane	U		0.0000720	0.000500	1	11/04/2024 17:25	<a href="#">WG2394978</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000102	<u>J</u> <u>J3</u>	0.0000941	0.00100	1	11/07/2024 10:02	<a href="#">WG2397299</a>
n-Butylbenzene	U	<u>J3</u>	0.000157	0.00100	1	11/07/2024 10:02	<a href="#">WG2397299</a>
sec-Butylbenzene	U	<u>J3</u>	0.000125	0.00100	1	11/07/2024 10:02	<a href="#">WG2397299</a>
tert-Butylbenzene	U	<u>J3</u>	0.000127	0.00100	1	11/07/2024 10:02	<a href="#">WG2397299</a>
Ethylbenzene	U	<u>J3</u>	0.000137	0.00100	1	11/07/2024 10:02	<a href="#">WG2397299</a>
Isopropylbenzene	U	<u>J3</u>	0.000105	0.00100	1	11/07/2024 10:02	<a href="#">WG2397299</a>
Naphthalene	U		0.00100	0.00500	1	11/07/2024 10:02	<a href="#">WG2397299</a>
Toluene	U	<u>J3</u>	0.000278	0.00100	1	11/07/2024 10:02	<a href="#">WG2397299</a>
1,2,4-Trimethylbenzene	U	<u>J3</u>	0.000322	0.00100	1	11/07/2024 10:02	<a href="#">WG2397299</a>
1,3,5-Trimethylbenzene	U	<u>J3</u>	0.000104	0.00100	1	11/07/2024 10:02	<a href="#">WG2397299</a>
m&p-Xylene	U	<u>J3</u>	0.000430	0.00200	1	11/07/2024 10:02	<a href="#">WG2397299</a>
o-Xylene	U	<u>J3</u>	0.000174	0.00100	1	11/07/2024 10:02	<a href="#">WG2397299</a>
(S) Toluene-d8	98.6			80.0-120		11/07/2024 10:02	<a href="#">WG2397299</a>
(S) 4-Bromofluorobenzene	101			77.0-126		11/07/2024 10:02	<a href="#">WG2397299</a>
(S) 1,2-Dichloroethane-d4	115			70.0-130		11/07/2024 10:02	<a href="#">WG2397299</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000490	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Carbon tetrachloride	U		0.0000660	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,4-Dichlorobenzene	U		0.0000310	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,2-Dichloroethane	U		0.0000498	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,1-Dichloroethene	U		0.0000540	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,1,1-Trichloroethane	U		0.0000490	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Trichloroethene	U		0.0000440	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Vinyl chloride	U		0.0000260	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,2,4-Trichlorobenzene	U		0.0000530	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
cis-1,2-Dichloroethene	U		0.0000640	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Xylenes, Total	U		0.000340	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Methylene chloride	U		0.0000608	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,2-Dichlorobenzene	U		0.0000410	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
trans-1,2-Dichloroethene	U		0.000100	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,2-Dichloropropane	U		0.0000270	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,1,2-Trichloroethane	U		0.0000701	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Tetrachloroethene	U		0.0000790	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Chlorobenzene	U		0.0000370	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Toluene	U		0.000412	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Ethylbenzene	U		0.0000440	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Styrene	U		0.0000360	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Bromobenzene	U		0.0000490	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Bromodichloromethane	U		0.0000810	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Bromoform	U		0.0000800	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Bromomethane	U		0.0000790	0.00100	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Chlorodibromomethane	U		0.0000930	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Chloroethane	U		0.000190	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Chloroform	U		0.0000800	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Chloromethane	U		0.0000290	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
2-Chlorotoluene	U		0.0000480	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
4-Chlorotoluene	U		0.0000550	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
Dibromomethane	U		0.0000700	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,3-Dichlorobenzene	U		0.0000360	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,1-Dichloroethane	U		0.0000240	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,3-Dichloropropane	U		0.0000230	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
2,2-Dichloropropane	U		0.0000680	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,1-Dichloropropene	U		0.0000450	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,3-Dichloropropene	U		0.000150	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,1,1,2-Tetrachloroethane	U		0.0000700	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,1,2,2-Tetrachloroethane	U		0.0000790	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>
1,2,3-Trichloropropane	U		0.0000720	0.000500	1	11/04/2024 17:48	<a href="#">WG2394978</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000490	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Carbon tetrachloride	U		0.000660	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,4-Dichlorobenzene	U		0.000310	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,2-Dichloroethane	U		0.000498	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,1-Dichloroethene	U		0.000540	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,1,1-Trichloroethane	U		0.000490	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Trichloroethene	U		0.000440	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Vinyl chloride	U		0.000260	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,2,4-Trichlorobenzene	U		0.000530	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
cis-1,2-Dichloroethene	U		0.000640	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Xylenes, Total	U		0.000340	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Methylene chloride	U		0.000608	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,2-Dichlorobenzene	U		0.000410	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
trans-1,2-Dichloroethene	U		0.000100	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,2-Dichloropropane	U		0.000270	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,1,2-Trichloroethane	U		0.000701	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Tetrachloroethene	U		0.000790	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Chlorobenzene	U		0.000370	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Toluene	U		0.000412	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Ethylbenzene	U		0.000440	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Styrene	U		0.000360	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Bromobenzene	U		0.000490	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Bromodichloromethane	U		0.000810	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Bromoform	U		0.000800	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Bromomethane	U		0.000790	0.00100	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Chlorodibromomethane	U		0.000930	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Chloroethane	U		0.000190	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Chloroform	U		0.000800	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Chloromethane	U		0.000290	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
2-Chlorotoluene	U		0.000480	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
4-Chlorotoluene	U		0.000550	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
Dibromomethane	U		0.000700	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,3-Dichlorobenzene	U		0.000360	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,1-Dichloroethane	U		0.000240	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,3-Dichloropropane	U		0.000230	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
2,2-Dichloropropane	U		0.000680	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,1-Dichloropropene	U		0.000450	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,3-Dichloropropene	U		0.000150	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,1,1,2-Tetrachloroethane	U		0.000700	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,1,2,2-Tetrachloroethane	U		0.000790	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>
1,2,3-Trichloropropane	U		0.000720	0.000500	1	11/04/2024 18:11	<a href="#">WG2394978</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	5.04		0.504	3.00	1	11/07/2024 17:37	<a href="#">WG2395848</a>

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPHGAK C6 to C10	0.114	<u>B</u>	0.0287	0.100	1	11/03/2024 13:25	<a href="#">WG2394543</a>
(S) a,a,a-Trifluorotoluene(FID)	83.0			50.0-150		11/03/2024 13:25	<a href="#">WG2394543</a>
(S) a,a,a-Trifluorotoluene(PID)	0.000	<u>J2</u>		79.0-125		11/03/2024 13:25	<a href="#">WG2394543</a>

Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U	<u>J3</u>	0.0000941	0.00100	1	11/07/2024 14:10	<a href="#">WG2397299</a>
n-Butylbenzene	U	<u>J3</u>	0.000157	0.00100	1	11/07/2024 14:10	<a href="#">WG2397299</a>
sec-Butylbenzene	U	<u>J3</u>	0.000125	0.00100	1	11/07/2024 14:10	<a href="#">WG2397299</a>
tert-Butylbenzene	U	<u>J3</u>	0.000127	0.00100	1	11/07/2024 14:10	<a href="#">WG2397299</a>
Ethylbenzene	0.00105	<u>J3</u>	0.000137	0.00100	1	11/07/2024 14:10	<a href="#">WG2397299</a>
Isopropylbenzene	0.000246	<u>J J3</u>	0.000105	0.00100	1	11/07/2024 14:10	<a href="#">WG2397299</a>
Naphthalene	U		0.00100	0.00500	1	11/07/2024 14:10	<a href="#">WG2397299</a>
Toluene	U	<u>J3</u>	0.000278	0.00100	1	11/07/2024 14:10	<a href="#">WG2397299</a>
1,2,4-Trimethylbenzene	0.00108	<u>J3</u>	0.000322	0.00100	1	11/07/2024 14:10	<a href="#">WG2397299</a>
1,3,5-Trimethylbenzene	0.000940	<u>J J3</u>	0.000104	0.00100	1	11/07/2024 14:10	<a href="#">WG2397299</a>
m&p-Xylene	U	<u>J3</u>	0.000430	0.00200	1	11/07/2024 14:10	<a href="#">WG2397299</a>
o-Xylene	U	<u>J3</u>	0.000174	0.00100	1	11/07/2024 14:10	<a href="#">WG2397299</a>
(S) Toluene-d8	100			80.0-120		11/07/2024 14:10	<a href="#">WG2397299</a>
(S) 4-Bromofluorobenzene	96.3			77.0-126		11/07/2024 14:10	<a href="#">WG2397299</a>
(S) 1,2-Dichloroethane-d4	113			70.0-130		11/07/2024 14:10	<a href="#">WG2397299</a>

Semi-Volatile Organic Compounds (GC) by Method AK102

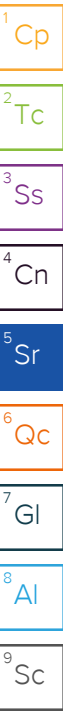
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
AK102 DRO C10-C25	0.493	<u>J</u>	0.189	0.888	1.11	11/05/2024 22:21	<a href="#">WG2394825</a>
(S) o-Terphenyl	15.7	<u>J2</u>		50.0-150		11/05/2024 22:21	<a href="#">WG2394825</a>

Sample Narrative:

L1794100-12 WG2394825: Duplicate Analysis performed due to surrogate failure. Reporting most compliant data.

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	11/03/2024 16:40	<a href="#">WG2393724</a>
Acenaphthene	U		0.0000190	0.0000500	1	11/03/2024 16:40	<a href="#">WG2393724</a>
Acenaphthylene	U		0.0000171	0.0000500	1	11/03/2024 16:40	<a href="#">WG2393724</a>
Benzo(a)anthracene	U		0.0000203	0.0000500	1	11/03/2024 16:40	<a href="#">WG2393724</a>
Benzo(a)pyrene	U		0.0000184	0.0000500	1	11/03/2024 16:40	<a href="#">WG2393724</a>
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	11/03/2024 16:40	<a href="#">WG2393724</a>
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	11/03/2024 16:40	<a href="#">WG2393724</a>
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	11/03/2024 16:40	<a href="#">WG2393724</a>
Chrysene	U		0.0000179	0.0000500	1	11/03/2024 16:40	<a href="#">WG2393724</a>
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	11/03/2024 16:40	<a href="#">WG2393724</a>
Fluoranthene	U		0.0000270	0.000100	1	11/03/2024 16:40	<a href="#">WG2393724</a>
Fluorene	U		0.0000169	0.0000500	1	11/03/2024 16:40	<a href="#">WG2393724</a>
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	11/03/2024 16:40	<a href="#">WG2393724</a>





Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Naphthalene	U		0.0000917	0.000250	1	11/03/2024 16:40	<a href="#">WG2393724</a>
Phenanthrene	U		0.0000180	0.0000500	1	11/03/2024 16:40	<a href="#">WG2393724</a>
Pyrene	U		0.0000169	0.0000500	1	11/03/2024 16:40	<a href="#">WG2393724</a>
1-Methylnaphthalene	U		0.0000687	0.000250	1	11/03/2024 16:40	<a href="#">WG2393724</a>
2-Methylnaphthalene	0.0000811	J	0.0000674	0.000250	1	11/03/2024 16:40	<a href="#">WG2393724</a>
(S) Nitrobenzene-d5	131			31.0-160		11/03/2024 16:40	<a href="#">WG2393724</a>
(S) 2-Fluorobiphenyl	127			48.0-148		11/03/2024 16:40	<a href="#">WG2393724</a>
(S) p-Terphenyl-d14	126			37.0-146		11/03/2024 16:40	<a href="#">WG2393724</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 524.2/8260C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U	<a href="#">J3</a>	0.0000941	0.00100	1	11/07/2024 10:21	<a href="#">WG2397299</a>
n-Butylbenzene	U	<a href="#">J3</a>	0.000157	0.00100	1	11/07/2024 10:21	<a href="#">WG2397299</a>
sec-Butylbenzene	U	<a href="#">J3</a>	0.000125	0.00100	1	11/07/2024 10:21	<a href="#">WG2397299</a>
tert-Butylbenzene	U	<a href="#">J3</a>	0.000127	0.00100	1	11/07/2024 10:21	<a href="#">WG2397299</a>
Ethylbenzene	U	<a href="#">J3</a>	0.000137	0.00100	1	11/07/2024 10:21	<a href="#">WG2397299</a>
Isopropylbenzene	U	<a href="#">J3</a>	0.000105	0.00100	1	11/07/2024 10:21	<a href="#">WG2397299</a>
Naphthalene	U		0.00100	0.00500	1	11/07/2024 10:21	<a href="#">WG2397299</a>
Toluene	U	<a href="#">J3</a>	0.000278	0.00100	1	11/07/2024 10:21	<a href="#">WG2397299</a>
1,2,4-Trimethylbenzene	U	<a href="#">J3</a>	0.000322	0.00100	1	11/07/2024 10:21	<a href="#">WG2397299</a>
1,3,5-Trimethylbenzene	U	<a href="#">J3</a>	0.000104	0.00100	1	11/07/2024 10:21	<a href="#">WG2397299</a>
m&p-Xylene	U	<a href="#">J3</a>	0.000430	0.00200	1	11/07/2024 10:21	<a href="#">WG2397299</a>
o-Xylene	U	<a href="#">J3</a>	0.000174	0.00100	1	11/07/2024 10:21	<a href="#">WG2397299</a>
(S) Toluene-d8	97.8			80.0-120		11/07/2024 10:21	<a href="#">WG2397299</a>
(S) 4-Bromofluorobenzene	99.1			77.0-126		11/07/2024 10:21	<a href="#">WG2397299</a>
(S) 1,2-Dichloroethane-d4	113			70.0-130		11/07/2024 10:21	<a href="#">WG2397299</a>

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R4143456-1 11/07/24 17:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Sodium	U		0.504	3.00

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R4143456-2 11/07/24 17:06

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Sodium	10.0	10.3	103	80.0-120	

4 Cn

5 Sr

L1794046-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1794046-06 11/07/24 17:07 • (MS) R4143456-4 11/07/24 17:11 • (MSD) R4143456-5 11/07/24 17:12

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Sodium	10.0	106	114	110	82.7	47.5	1	75.0-125		V	3.14	20

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4141656-3 11/01/24 23:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPHGAK C6 to C10	0.0587	<u>J</u>	0.0287	0.100
(S) a,a,a-Trifluorotoluene(FID)	81.9			60.0-120
(S) a,a,a-Trifluorotoluene(PID)	0.000	<u>J2</u>		79.0-125

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4141656-1 11/01/24 20:26 • (LCSD) R4141656-2 11/01/24 20:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	5.00	4.19	4.53	83.8	90.6	60.0-120			7.80	20
(S) a,a,a-Trifluorotoluene(FID)				93.3	97.4	60.0-120				
(S) a,a,a-Trifluorotoluene(PID)				0.000	0.000	79.0-125	<u>J2</u>	<u>J2</u>		

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4144997-3 11/03/24 11:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPHGAK C6 to C10	0.0923	<u>J</u>	0.0287	0.100
(S) a,a,a-Trifluorotoluene(FID)	83.2			60.0-120
(S) a,a,a-Trifluorotoluene(PID)	0.000	<u>J2</u>		79.0-125

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4144997-1 11/03/24 10:25 • (LCSD) R4144997-2 11/03/24 10:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	5.00	5.40	5.44	108	109	60.0-120			0.738	20
(S) a,a,a-Trifluorotoluene(FID)				97.5	102	60.0-120				
(S) a,a,a-Trifluorotoluene(PID)				0.000	0.000	79.0-125	<u>J2</u>	<u>J2</u>		

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4142536-2 11/04/24 11:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000490	0.000500
Carbon tetrachloride	U		0.000660	0.000500
1,4-Dichlorobenzene	U		0.000310	0.000500
1,2-Dichloroethane	U		0.000498	0.000500
1,1-Dichloroethene	U		0.000540	0.000500
1,1,1-Trichloroethane	U		0.000490	0.000500
Trichloroethene	U		0.000440	0.000500
Vinyl chloride	U		0.000260	0.000500
1,2,4-Trichlorobenzene	U		0.000530	0.000500
cis-1,2-Dichloroethene	U		0.000640	0.000500
Xylenes, Total	U		0.000340	0.000500
Methylene chloride	U		0.000608	0.000500
1,2-Dichlorobenzene	U		0.000410	0.000500
trans-1,2-Dichloroethene	U		0.000100	0.000500
1,2-Dichloropropane	U		0.000270	0.000500
1,1,2-Trichloroethane	U		0.000701	0.000500
Tetrachloroethene	U		0.000790	0.000500
Chlorobenzene	U		0.000370	0.000500
Toluene	U		0.000412	0.000500
Ethylbenzene	U		0.000440	0.000500
Styrene	U		0.000360	0.000500
Bromobenzene	U		0.000490	0.000500
Bromodichloromethane	U		0.000810	0.000500
Bromoform	U		0.000800	0.000500
Bromomethane	U		0.000790	0.001000
Chlorodibromomethane	U		0.000930	0.000500
Chloroethane	U		0.000190	0.000500
Chloroform	U		0.000800	0.000500
Chloromethane	U		0.000290	0.000500
2-Chlorotoluene	U		0.000480	0.000500
4-Chlorotoluene	U		0.000550	0.000500
Dibromomethane	U		0.000700	0.000500
1,3-Dichlorobenzene	U		0.000360	0.000500
1,1-Dichloroethane	U		0.000240	0.000500
1,3-Dichloropropane	U		0.000230	0.000500
2,2-Dichloropropane	U		0.000680	0.000500
1,1-Dichloropropene	U		0.000450	0.000500
1,3-Dichloropropene	U		0.000150	0.000500
1,1,1,2-Tetrachloroethane	U		0.000700	0.000500
1,1,2,2-Tetrachloroethane	U		0.000790	0.000500

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4142536-2 11/04/24 11:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
1,2,3-Trichloropropane	U		0.0000720	0.000500

Laboratory Control Sample (LCS)

(LCS) R4142536-1 11/04/24 10:32

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Benzene	0.00500	0.00455	91.0	70.0-130	
Carbon tetrachloride	0.00500	0.00462	92.4	70.0-130	
1,4-Dichlorobenzene	0.00500	0.00432	86.4	70.0-130	
1,2-Dichloroethane	0.00500	0.00457	91.4	70.0-130	
1,1-Dichloroethene	0.00500	0.00458	91.6	70.0-130	
1,1,1-Trichloroethane	0.00500	0.00460	92.0	70.0-130	
Trichloroethene	0.00500	0.00453	90.6	70.0-130	
Vinyl chloride	0.00500	0.00463	92.6	70.0-130	
1,2,4-Trichlorobenzene	0.00500	0.00428	85.6	70.0-130	
cis-1,2-Dichloroethene	0.00500	0.00452	90.4	70.0-130	
Xylenes, Total	0.0150	0.0137	91.3	70.0-130	
Methylene chloride	0.00500	0.00433	86.6	70.0-130	
1,2-Dichlorobenzene	0.00500	0.00435	87.0	70.0-130	
trans-1,2-Dichloroethene	0.00500	0.00459	91.8	70.0-130	
1,2-Dichloropropane	0.00500	0.00438	87.6	70.0-130	
1,1,2-Trichloroethane	0.00500	0.00455	91.0	70.0-130	
Tetrachloroethene	0.00500	0.00471	94.2	70.0-130	
Chlorobenzene	0.00500	0.00451	90.2	70.0-130	
Toluene	0.00500	0.00451	90.2	70.0-130	
Ethylbenzene	0.00500	0.00448	89.6	70.0-130	
Styrene	0.00500	0.00465	93.0	70.0-130	
Bromobenzene	0.00500	0.00456	91.2	70.0-130	
Bromodichloromethane	0.00500	0.00459	91.8	70.0-130	
Bromoform	0.00500	0.00441	88.2	70.0-130	
Bromomethane	0.00500	0.00440	88.0	70.0-130	
Chlorodibromomethane	0.00500	0.00445	89.0	70.0-130	
Chloroethane	0.00500	0.00494	98.8	70.0-130	
Chloroform	0.00500	0.00459	91.8	70.0-130	
Chloromethane	0.00500	0.00413	82.6	70.0-130	
2-Chlorotoluene	0.00500	0.00444	88.8	70.0-130	
4-Chlorotoluene	0.00500	0.00438	87.6	70.0-130	
Dibromomethane	0.00500	0.00445	89.0	70.0-130	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R4142536-1 11/04/24 10:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
1,3-Dichlorobenzene	0.00500	0.00443	88.6	70.0-130	
1,1-Dichloroethane	0.00500	0.00458	91.6	70.0-130	
1,3-Dichloropropane	0.00500	0.00435	87.0	70.0-130	
2,2-Dichloropropane	0.00500	0.00465	93.0	70.0-130	
1,1-Dichloropropene	0.00500	0.00456	91.2	70.0-130	
1,3-Dichloropropene	0.0100	0.00908	90.8	70.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00451	90.2	70.0-130	
1,1,2,2-Tetrachloroethane	0.00500	0.00430	86.0	70.0-130	
1,2,3-Trichloropropane	0.00500	0.00451	90.2	70.0-130	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R4143713-3 11/07/24 07:19

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Ethylbenzene	U		0.000137	0.00100
Isopropylbenzene	U		0.000105	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
m&p-Xylene	U		0.000430	0.00200
o-Xylene	U		0.000174	0.00100
(S) Toluene-d8	106			80.0-120
(S) 4-Bromofluorobenzene	103			77.0-126
(S) 1,2-Dichloroethane-d4	112			70.0-130

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4143713-1 11/07/24 06:22 • (LCSD) R4143713-2 11/07/24 06:41

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.00500	0.00549	0.00435	110	87.0	70.0-123		J3	23.2	20
n-Butylbenzene	0.00500	0.00514	0.00404	103	80.8	73.0-125		J3	24.0	20
sec-Butylbenzene	0.00500	0.00573	0.00451	115	90.2	75.0-125		J3	23.8	20
tert-Butylbenzene	0.00500	0.00568	0.00451	114	90.2	76.0-124		J3	23.0	20
Ethylbenzene	0.00500	0.00551	0.00417	110	83.4	79.0-123		J3	27.7	20
Isopropylbenzene	0.00500	0.00559	0.00428	112	85.6	76.0-127		J3	26.5	20
Naphthalene	0.00500	0.00509	0.00472	102	94.4	54.0-135		J	7.54	20
Toluene	0.00500	0.00539	0.00431	108	86.2	79.0-120		J3	22.3	20
1,2,4-Trimethylbenzene	0.00500	0.00571	0.00448	114	89.6	76.0-121		J3	24.1	20
1,3,5-Trimethylbenzene	0.00500	0.00562	0.00435	112	87.0	76.0-122		J3	25.5	20
m&p-Xylene	0.0100	0.0112	0.00874	112	87.4	80.0-122		J3	24.7	20
o-Xylene	0.00500	0.00541	0.00419	108	83.8	80.0-122		J3	25.4	20
(S) Toluene-d8				94.9	98.2	80.0-120				
(S) 4-Bromofluorobenzene				95.8	96.6	77.0-126				
(S) 1,2-Dichloroethane-d4				107	109	70.0-130				

Method Blank (MB)

(MB) R4142619-1 11/05/24 13:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
AK102 DRO C10-C25	U		0.170	0.800
<i>(S) o-Terphenyl</i>	119			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4142619-2 11/05/24 14:06 • (LCSD) R4142619-3 11/05/24 14:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
AK102 DRO C10-C25	6.00	5.24	5.50	87.3	91.7	75.0-125			4.84	20
<i>(S) o-Terphenyl</i>				122	119	60.0-120	J1			

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4141868-2 11/03/24 10:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000190	0.0000500
Acenaphthene	U		0.0000190	0.0000500
Acenaphthylene	U		0.0000171	0.0000500
Benzo(a)anthracene	U		0.0000203	0.0000500
Benzo(a)pyrene	U		0.0000184	0.0000500
Benzo(b)fluoranthene	U		0.0000168	0.0000500
Benzo(g,h,i)perylene	U		0.0000184	0.0000500
Benzo(k)fluoranthene	U		0.0000202	0.0000500
Chrysene	U		0.0000179	0.0000500
Dibenz(a,h)anthracene	U		0.0000160	0.0000500
Fluoranthene	U		0.0000270	0.000100
Fluorene	U		0.0000169	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500
Naphthalene	U		0.0000917	0.000250
Phenanthrene	U		0.0000180	0.0000500
Pyrene	U		0.0000169	0.0000500
1-Methylnaphthalene	U		0.0000687	0.000250
2-Methylnaphthalene	U		0.0000674	0.000250
<i>(S) Nitrobenzene-d5</i>	120			31.0-160
<i>(S) 2-Fluorobiphenyl</i>	116			48.0-148
<i>(S) p-Terphenyl-d14</i>	115			37.0-146

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R4141868-1 11/03/24 10:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.00200	0.00221	111	67.0-150	
Acenaphthene	0.00200	0.00205	103	65.0-138	
Acenaphthylene	0.00200	0.00225	112	66.0-140	
Benzo(a)anthracene	0.00200	0.00226	113	61.0-140	
Benzo(a)pyrene	0.00200	0.00213	106	60.0-143	
Benzo(b)fluoranthene	0.00200	0.00208	104	58.0-141	
Benzo(g,h,i)perylene	0.00200	0.00202	101	52.0-153	
Benzo(k)fluoranthene	0.00200	0.00206	103	58.0-148	
Chrysene	0.00200	0.00219	109	64.0-144	
Dibenz(a,h)anthracene	0.00200	0.00216	108	52.0-155	
Fluoranthene	0.00200	0.00227	114	69.0-153	
Fluorene	0.00200	0.00222	111	64.0-136	

Laboratory Control Sample (LCS)

(LCS) R4141868-1 11/03/24 10:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Indeno(1,2,3-cd)pyrene	0.00200	0.00206	103	54.0-153	
Naphthalene	0.00200	0.00212	106	61.0-137	
Phenanthrene	0.00200	0.00216	108	62.0-137	
Pyrene	0.00200	0.00209	104	60.0-142	
1-Methylnaphthalene	0.00200	0.00238	119	66.0-142	
2-Methylnaphthalene	0.00200	0.00227	114	62.0-136	
(S) Nitrobenzene-d5			121	31.0-160	
(S) 2-Fluorobiphenyl			119	48.0-148	
(S) p-Terphenyl-d14			114	37.0-146	

L1794433-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1794433-01 11/03/24 16:58 • (MS) R4141868-3 11/03/24 17:16 • (MSD) R4141868-4 11/03/24 17:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00190	U	0.00204	0.00208	107	109	1	56.0-156			1.94	20
Acenaphthene	0.00190	U	0.00195	0.00197	103	104	1	44.0-153			1.02	20
Acenaphthylene	0.00190	U	0.00206	0.00208	108	109	1	53.0-150			0.966	20
Benzo(a)anthracene	0.00190	U	0.00215	0.00214	113	113	1	47.0-151			0.466	20
Benzo(a)pyrene	0.00190	U	0.00202	0.00205	106	108	1	45.0-146			1.47	20
Benzo(b)fluoranthene	0.00190	U	0.00205	0.00208	108	109	1	43.0-142			1.45	20
Benzo(g,h,i)perylene	0.00190	U	0.00188	0.00197	98.9	104	1	40.0-147			4.68	20
Benzo(k)fluoranthene	0.00190	U	0.00196	0.00197	103	104	1	43.0-148			0.509	21
Chrysene	0.00190	U	0.00212	0.00212	112	112	1	50.0-148			0.000	20
Dibenz(a,h)anthracene	0.00190	U	0.00190	0.00204	100	107	1	37.0-151			7.11	20
Fluoranthene	0.00190	U	0.00213	0.00216	112	114	1	56.0-157			1.40	20
Fluorene	0.00190	U	0.00215	0.00215	113	113	1	48.0-148			0.000	20
Indeno(1,2,3-cd)pyrene	0.00190	U	0.00188	0.00197	98.9	104	1	41.0-148			4.68	20
Naphthalene	0.00190	U	0.00200	0.00198	105	104	1	10.0-160			1.01	20
Phenanthrene	0.00190	U	0.00204	0.00205	107	108	1	47.0-147			0.489	20
Pyrene	0.00190	U	0.00202	0.00202	106	106	1	51.0-148			0.000	20
1-Methylnaphthalene	0.00190	U	0.00225	0.00224	118	118	1	21.0-160			0.445	20
2-Methylnaphthalene	0.00190	U	0.00217	0.00214	114	113	1	31.0-160			1.39	20
(S) Nitrobenzene-d5					117	118		31.0-160				
(S) 2-Fluorobiphenyl					115	118		48.0-148				
(S) p-Terphenyl-d14					116	115		37.0-146				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
V	The sample concentration is too high to evaluate accurate spike recoveries.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122


Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: <b>7-11 Stantec - Anchorage, AK</b>		Billing Information: Attn Paula Sime PO Box 711 - Loc. 0148 Dallas, TX 75221		Analysis / Container / Preservative		Chain of Custody Page <u>1</u> of <u>2</u>	
725 E Fireweed Lane Suite 200 Anchorage, AK 99503		Email To: craig.cothron@pacelabs.com <i>Sydney.Souza@stantec.com</i>		Pres Chk		 <b>MT JULIET, TN</b> 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <a href="https://info.pacelabs.com/hubfs/pas-standard-terms.pdf">https://info.pacelabs.com/hubfs/pas-standard-terms.pdf</a>	

Report to: <b>Ms. Sydney Souza</b>	City/State Collected: <i>Wasilla, Ak</i>	Please Circle: PT MT CT ET
Project Description: Store 5325	Client Project # <del>200723785</del> <i>203723785</i>	Lab Project # STAAAKSSA-5325 <i>W01134775</i>

Phone: <b>907-266-1108</b>	Client Project # <i>203723785</i>	Lab Project # <i>W01134775</i>
Collected by (print): <i>Sydney Souza</i>	Site/Facility ID # <i>5325 / TNS 52</i>	P.O. # <i>85</i>
Collected by (signature): <i>[Signature]</i>	<b>Rush?</b> (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day	Quote #
Immediately Packed on Ice N <u>  </u> Y <u>X</u>	Date Results Needed	No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	AK101 40mlAmb HCl	AK102 100ml Amb HCl	NAICP 250mlHDPE-HNO3	PAHSIMLVID 40mlAmb-NoPres-WT	V524 40mlAmb-AscAcid+HCl	V8260C 40mlAmb-HCl	V8260C 40mlAmb-HCl-Blk	Remarks	Sample # (lab only)
G-7	G	GW		10/28/24	0959	11	X	X	X	X		X			-01
G-5		GW			1035	11	X	X	X	X		X			-02
G-4		GW			1039	11	X	X	X	X		X			-03
G-2		GW			1105	11	X	X	X	X		X			-04
RW16-1		GW			1142	11	X	X	X	X		X			-05
MW16-2		GW			1150	11	X	X	X	X		X			-06
G-3	↓	GW			1234	11	X	X	X	X		X			-07
R-4	G	DW			0940	3					X				-08
TRIP BLANK 1	—	GW	—		—	1							X		-09
R-5	G	DW	—	↓	0950	3					X				-10

* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____	Remarks: <i>W01135282 or W01134775</i> <i>Call me to confirm</i>	pH _____ Temp _____ Flow _____ Other _____	<b>Sample Receipt Checklist</b> COC Seal Present/Intact: <u>  </u> NP <u>  </u> Y <u>  </u> N COC Signed/Accurate: <u>  </u> Y <u>  </u> N Bottles arrive intact: <u>  </u> Y <u>  </u> N Correct bottles used: <u>  </u> Y <u>  </u> N Sufficient volume sent: <u>  </u> Y <u>  </u> N If Applicable VOA Zero Headspace: <u>  </u> Y <u>  </u> N Preservation Correct/Checked: <u>  </u> Y <u>  </u> N RAD Screen <0.5 mR/hr: <u>  </u> Y <u>  </u> N
Samples returned via: ___ UPS ___ FedEx ___ Courier _____	Tracking # <i>4041 0484 2367</i>		

Relinquished by: (Signature) <i>[Signature]</i>	Date: <i>10/30/24</i>	Time: <i>1000</i>	Received by: (Signature)	Trip Blank Received: Yes / No <i>2</i> HCL/MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <i>MSA9C</i> Bottles Received: <i>1.54.3=1.8 97</i>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>Alisa Metchen</i>	Date: <i>10/30/24</i> Time: <i>0900</i>

**7-11 Stantec - Anchorage, AK**  
 725 E Fireweed Lane  
 Suite 200  
 Anchorage, AK 99503

**Attn Paula Sime**  
**PO Box 711 - Loc. 0148**  
**Dallas, TX 75221**

Report to:  
**Ms. Sydney Souza**

Email To: **craig.cothron@pacelabs.com**  
**sydney.souza@stantec.com**

Project Description:  
**Store 5325**

City/State Collected: **Wasilla, AK**

Please Circle:  
 PT MT CT ET

Phone: **907-266-1108**

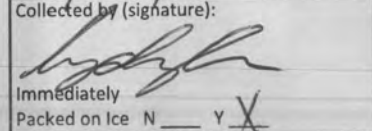
Client Project #  
**203723785**

Lab Project #  
**STAAAKSSA-5325**

Collected by (print):  
**Sydney Souza**

Site/Facility ID #  
**5325/TNS 52**

P.O. #  
**203723785**

Collected by (signature):  


**Rush?** (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #  
 Date Results Needed

Immediately Packed on Ice N  Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	AK101 40ml/Amb HCl	AK102 100ml Amb HCl	NAICP 250mlHDPE-HNO3	PAHSIMLVID 40ml/Amb-NoPres-WT	V524 40ml/Amb-AscAcid+HCl	V8260C 40ml/Amb-HCl	V8260C 40ml/Amb-HCl-Bik
R1 + 2	G	DW		10/28/24	1005	3					X		
DUP	↓	GW		↓	—	11	X	X	X	X		X	
		GW				11	X	X	X	X		X	
Trip Blank 2	—	GW	—	10/28/24	—	31							X

**Pace**  
 PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122  
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **1794100**

Table #

Acctnum: **STAAAKSSA**  
 Template: **T260579**  
 Prelogin: **P1102895**  
 PM: **034 - Craig Cothron**  
 PB: **9-18-24 BK**

Shipped Via: **FedEX 2nd Day**

Remarks | Sample # (lab only)

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks: **W01135282 of W01134775**  
**Call me to confirm**

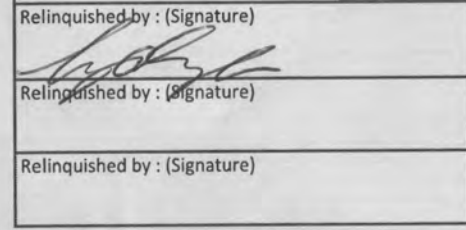
pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
 UPS  FedEx  Courier

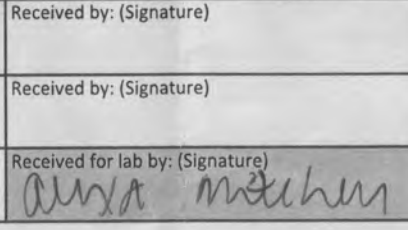
Tracking # **4041 0484 2367**

**Sample Receipt Checklist**

COC Seal Present/Intact:	NP	<input checked="" type="checkbox"/>	N
COC Signed/Accurate:		<input checked="" type="checkbox"/>	N
Bottles arrive intact:		<input checked="" type="checkbox"/>	N
Correct bottles used:		<input checked="" type="checkbox"/>	N
Sufficient volume sent:		<input checked="" type="checkbox"/>	N
<b>If Applicable</b>			
VOA Zero Headspace:		<input checked="" type="checkbox"/>	N
Preservation Correct/Checked:		<input checked="" type="checkbox"/>	N
RAD Screen <0.5 mR/hr:		<input checked="" type="checkbox"/>	N

Relinquished by: (Signature)  


Date: **10/30/24**  
 Time: **1000**

Received by: (Signature)  


Trip Blank Received: Yes / No  
 HCL / MeOH  
 TBR

Temp: **MSA9C**  
**1.5 + 0.3 = 1.8**

Bottles Received: **97**

If preservation required by Login: Date/Time

Hold: \_\_\_\_\_ Condition: **NCF / OK**

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature)  


Date: **10/30/24** Time: **0900**

Hold: \_\_\_\_\_ Condition: **NCF / OK**



# ADEC Contaminated Sites Program Laboratory Data Review Checklist

<b>Completed By:</b>	Sydney Souza	<b>CS Site Name:</b>	5325 / Tesoro North Store 52	<b>Lab Name:</b>	Pace Analytical
<b>Title:</b>	Environmental Geologist	<b>ADEC File No.:</b>	2265.26.006	<b>Lab Report No.:</b>	L1794100
<b>Consulting Firm:</b>	Stantec Consulting Services Inc.	<b>Hazard ID No.:</b>	23769	<b>Lab Report Date:</b>	November 13, 2024

**Note:** Any N/A or No box checked must have an explanation in the comments box.

## 1. Laboratory

- a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all the submitted sample analyses?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses CS-LAP approved?  
Yes  No  N/A   
Comments: Samples were not transferred

## 2. Chain of Custody (CoC)

- a. Is the CoC information completed, signed, and dated (including released/received by)?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
- b. Were the correct analyses requested?  
Yes  No  N/A   
Analyses requested: AK101, AK102, 8260, 8270SIM, drinking water (524), and sodium  
Comments: Click or tap here to enter text.

## 3. Laboratory Sample Receipt Documentation

- a. Is the sample/cooler temperature documented and within range at receipt (0° to 6° C)?  
Yes  No  N/A   
Cooler temperature(s): 1.8° C

**CS Site Name:** 5325 / Tesoro North Store 52  
**Lab Report No.:** L1794100

Comments: Click or tap here to enter text.

- b. Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)?

Yes  No  N/A

Comments: Click or tap here to enter text.

- c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.?

Yes  No  N/A

Comments: Sample condition documented as OK

- d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.?

Yes  No  N/A

Comments: None

- e. Is the data quality or usability affected?

Yes  No  N/A

Comments: Click or tap here to enter text.

#### 4. Case Narrative

- a. Is the case narrative present and understandable?

Yes  No  N/A

Comments: Click or tap here to enter text.

- b. Are there discrepancies, errors, or QC failures identified by the lab?

Yes  No  N/A

Comments: Case narrative documents no errors or discrepancies “unless qualified or notated within report”

- c. Were all the corrective actions documented?

Yes  No  N/A

Comments: No corrective actions taken

- d. What is the effect on data quality/usability according to the case narrative?

Comments: No effect on data quality/usability

#### 5. Sample Results

- a. Are the correct analyses performed/reported as requested on CoC?

Yes  No  N/A

Comments: Click or tap here to enter text.

**CS Site Name:** 5325 / Tesoro North Store 52

**Lab Report No.:** L1794100

- b. Are all applicable holding times met?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
- c. Are all soils reported on a dry weight basis?  
Yes  No  N/A   
Comments: No soil samples submitted to the lab
- d. Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
- e. Is the data quality or usability affected?  
Yes  No  N/A   
Comments: Click or tap here to enter text.

## 6. QC Samples

- a. Method Blank
- i. Was one method blank reported per matrix, analysis, and 20 samples?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
- ii. Are all method blank results less than LOQ (or RL)?  
Yes  No   
Comments: Click or tap here to enter text.
- iii. If above LoQ or RL, what samples are affected?  
Comments: Click or tap here to enter text.
- iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?  
Yes  No  N/A   
Comments:
- v. Data quality or usability affected?  
Yes  No  N/A   
Comments: Click or tap here to enter text.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

- i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes  No  N/A

Comments: Click or tap here to enter text.

- ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes  No  N/A

Comments: Click or tap here to enter text.

- iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes  No  N/A

Comments: Click or tap here to enter text.

- iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes  No  N/A

Comments: Click or tap here to enter text.

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments: N/A

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No  N/A

Comments: No affected samples

- vii. Is the data quality or usability affected?

Yes  No  N/A

Comments: Click or tap here to enter text.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?

Yes  No  N/A

Comments: Click or tap here to enter text.

CS Site Name: 5325 / Tesoro North Store 52

Lab Report No.: L1794100

- ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
  - iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
  - iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.  
Yes  No  N/A   
Comments: Click or tap here to enter text.
  - v. If %R or RPD is outside of acceptable limits, what samples are affected?  
Comments: N/A
  - vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?  
Yes  No  N/A   
Comments: No affected samples
  - vii. Is the data quality or usability affected?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
- d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only
- i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples?  
Yes  No  N/A   
Comments: Click or tap here to enter text.
  - ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)  
Yes  No  N/A   
Comments: Click or tap here to enter text.
  - iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

**CS Site Name:** 5325 / Tesoro North Store 52  
**Lab Report No.:** L1794100

Yes  No  N/A   
Comments: None failed

iv. Is the data quality or usability affected?

Yes  No  N/A

Comments: Click or tap here to enter text.

e. Trip Blanks

i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes  No  N/A

Comments: Click or tap here to enter text.

ii. Are all results less than LoQ or RL?

Yes  No  N/A

Comments: Click or tap here to enter text.

iii. If above LoQ or RL, what samples are affected?

Comments: Click or tap here to enter text.

iv. Is the data quality or usability affected?

Yes  No  N/A

Comments: No affected samples

f. Field Duplicate

i. Are one field duplicate submitted per matrix, analysis, and 10 project samples?

Yes  No  N/A

Comments: Click or tap here to enter text.

ii. Was the duplicate submitted blind to lab?

Yes  No  N/A

Comments: Click or tap here to enter text.

- iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

$$RPD (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| \times 100$$

Where  $R_1$  = Sample Concentration

$R_2$  = Field Duplicate Concentration

Is the data quality or usability affected? (Explain)

Yes  No  N/A

Comments:

- iv. Is the data quality or usability affected? (Explain)

Yes  No  N/A

Comments: Ethylbenzene, GRO, and sodium are well below GCL in both samples

g. Decontamination or Equipment Blanks

- i. Were decontamination or equipment blanks collected?

Yes  No  N/A

Comments: Used disposable equipment

- ii. Are all results less than LoQ or RL?

Yes  No  N/A

Comments: Used disposable equipment

- iii. If above LoQ or RL, specify what samples are affected.

Comments: Click or tap here to enter text.

- iv. Are data quality or usability affected?

Yes  No  N/A

Comments: Click or tap here to enter text.

**7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)**

- a. Are they defined and appropriate?

Yes  No  N/A

Comments: Click or tap here to enter text.