

Tena Seeds, PE
Senior Engineer, Uplands Unit
Northwest Region Toxics Cleanup Program
Washington State Department of Ecology
PO Box 330316
Shoreline, WA 98133-9716

Arcadis U.S., Inc.
1420 5th Avenue
Suite 2400
Seattle
Washington 98101
Phone: 206 325 5254
Fax: 206 325 8218
www.arcadis.com

Date: April 14, 2025

Subject: Progress Report – First Quarter 2025

Agreed Order No. DE 18042

Facility Site Identification No. 75486194

Cleanup Site Identification No. 14604

Time Oil Bulk Terminal – BNSF Property

Seattle, WA

Dear Ms. Seeds,

On behalf of BNSF Railway Company (BNSF), Arcadis U.S., Inc. (Arcadis) is providing this quarterly progress report for the Time Oil Bulk Terminal – BNSF Property (Site) in accordance with Section VII Subsection D of Agreed Order No. DE 18042 between the Washington Department of Ecology (Ecology) and BNSF. This progress report documents activities completed between January 1 and March 31, 2025 (First Quarter 2025 [Reporting Period]).

Activities and Deliverables from Prior Reporting Period

- Participated in a meeting with Ecology on February 4, 2025 regarding the location of the additional monitoring wells to be installed on the BNSF Property.
- Installed two additional groundwater monitoring wells (MW-BN-06 and MW-BN-07) between February 25 and February 27, 2025 in accordance with Remedial Investigation Work Plan (RIWP [Arcadis 2023]). This scope included the collection of soil samples (Attachment 1) and surveying of the new monitoring wells (Figure 1).
- Performed a round of groundwater monitoring between March 3 and March 5, 2025 in accordance with the RIWP (Arcadis 2023). Work included coordinated gauging of monitoring wells (Attachment 2) and groundwater sample collection for laboratory analysis (Attachment 1).

Deviations from Required Tasks

- None during the Reporting Period.

Deviations from Scope of Work and Schedule

- None during the Reporting Period.

Ms. Tena Seeds
Washington State Department of Ecology
April 14, 2025

Laboratory and Field Data Received

- None during the Reporting Period.

Planned Activities and Deliverables for the Upcoming Reporting Period

- A discussion with Ecology regarding the results of the additional soil and groundwater data is proposed for the week of April 21, 2025.

Please contact me with any questions or comments regarding this quarterly progress report.

Sincerely,
Arcadis U.S., Inc.



Kyle Haslam
Project Manager

Email: kyle.haslam@arcadis.com
Direct Line: 206-719-6991
Mobile: 206-726-4753

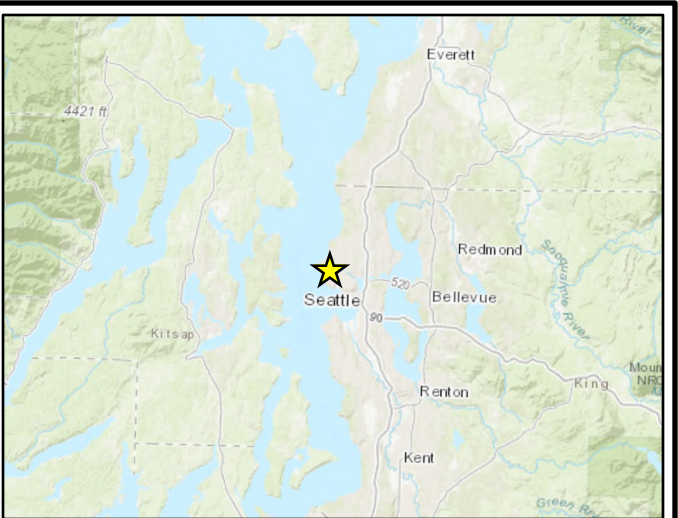
CC. Scott MacDonald, BNSF
Shane DeGross, BNSF
Emily Zikmund, Arcadis

References:

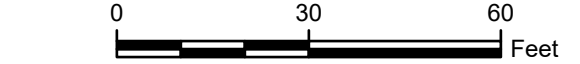
Arcadis 2023. Remedial Investigation Work Plan, Time Oil Bulk Terminal – BNSF Property, Seattle, WA.
Prepared for BNSF Railway Company. June 26.

Attachments: Figure 1 – Site Map
Attachment 1 – Groundwater Elevation and LNAPL Measurements
Attachment 2 – Laboratory Analytical Reports

Last Saved By: dholmes T:\ENV\BNSF\BNSF_WA\PRO\2024_RI_WorkPlan\2024_F12_ProposedBoring_MW.aprx 4/2/2025 11:44 AM LAYOUT NAME: F2_SiteMap



- LEGEND:**
- ★ SITE
 - PERCHED MONITORING WELL
 - SHALLOW MONITORING WELL
 - ABANDONED MONITORING WELL
 - HISTORICAL SOIL BORING
 - 2023 SOIL BORING
 - PROPERTY BOUNDARY
 - HISTORICAL RAIL SPUR (APPROXIMATE LOCATION)
 - PERCHED ZONE INTERCEPTOR TRENCH
 - EXTENT OF IN-SITU STABILIZATION
 - HISTORICAL BARRELING SHED (APPROXIMATE LOCATION)



NOTES:
1. BORING LOCATIONS ARE APPROXIMATE.
2. MONITORING WELL SURVEY ON BNSF PROPERTY COMPLETED BY TRUE NORTH AND SURVEYING, INC. ON NOVEMBER 27, 2023.
3. AERIAL IMAGERY OBTAINED FROM GOOGLE EARTH PRO. IMAGERY DATE: 08/14/2020.

BNSF RAILWAY COMPANY
TIME OIL BULK TERMINAL - BNSF PROPERTY
SEATTLE, WASHINGTON
PROGRESS REPORT - FIRST QUARTER 2025

SITE MAP

ARCADIS

FIGURE
1

Attachment 1
Groundwater Elevation and LNAPL Measurements
Progress Report - First Quarter 2025
Time Oil Bulk Terminal – BNSF Property
Seattle, Washington



Well Designation	Water Bearing Zone	TOC Elevation (feet NAVD88)	Total Depth (feet btoc)	Date	Apparent LNAPL Thickness (feet)	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)
01MW92	Perched	58.51	16.5	3/3/2025	--	9.14	49.37
01MW93	Shallow	58.99	38.7	3/3/2025	--	27.68	31.31
01MW94	Shallow	58.57	39.5	3/3/2025	--	29.85	28.72
01MW95	Shallow	59.32	36.3	3/3/2025	--	27.57	31.75
01MW96	Perched	59.59	15.0	3/3/2025	--	DRY	DRY
01MW97	Perched	58.83	14.6	3/3/2025	--	2.40	56.43
01MW98	Perched	57.78	14.4	3/3/2025	--	7.47	50.31
MW-BN-01	Perched	58.01	14.9	3/3/2025	--	7.41	50.60
MW-BN-02	Perched	58.60	14.9	3/3/2025	--	7.40	51.20
MW-BN-03	Shallow	59.45	37.7	3/3/2025	--	28.42	31.03
MW-BN-04	Perched	59.55	14.9	3/3/2025	--	13.13	46.42
MW-BN-05	Perched	59.56	14.9	3/3/2025	--	12.07	47.49
MW-BN-06	Shallow	57.49	37.5	3/3/2025	--	29.53	27.96
MW-BN-07	Shallow	58.14	38.5	3/3/2025	--	27.59	30.55

Acronyms and Abbreviations:

-- = Not Applicable

btoc = below top of casing

LNAPL = light nonaqueous phase liquid

NAVD88 = North American Vertical Datum of 1988

ARCADIS - BNSF Region 2

Sample Delivery Group: L1831051
Samples Received: 02/28/2025
Project Number: 30270277.01
Description: BNSF Time Oil Bulk Terminal - Seattle, WA
Site: SEATTLE, WA 98199
Report To: Kyle Haslam
1420 5th Avenue, Suite 2400
Seattle, WA 98101

Entire Report Reviewed By:



Andi R Jones
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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Is
⁸ Gl
⁹ Al
¹⁰ Sc

SAMPLE SUMMARY

SB-BN-13-5 (022525) L1831051-01 Solid

Collected by
Kyle Johnson

Collected date/time
02/25/25 11:20

Received date/time
02/28/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2462621	1	03/05/25 07:21	03/05/25 07:27	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2461089	25	02/25/25 11:20	03/02/25 12:21	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2461076	1	02/25/25 11:20	03/02/25 12:40	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2463442	1	03/06/25 06:51	03/06/25 23:38	KDB	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

SB-BN-12-20 (022525) L1831051-02 Solid

Collected by
Kyle Johnson

Collected date/time
02/25/25 12:30

Received date/time
02/28/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2462621	1	03/05/25 07:21	03/05/25 07:27	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2461089	25.3	02/25/25 12:30	03/02/25 12:41	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2461076	1.01	02/25/25 12:30	03/02/25 13:00	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2463442	1	03/06/25 06:51	03/06/25 23:52	KDB	Mt. Juliet, TN

⁵Sr

⁶Qc

⁷Is

⁸Gl

SB-DUP-1 (022525) L1831051-03 Solid

Collected by
Kyle Johnson

Collected date/time
02/25/25 00:00

Received date/time
02/28/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2462621	1	03/05/25 07:21	03/05/25 07:27	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2461089	25.5	02/25/25 00:00	03/02/25 13:00	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2461076	1.02	02/25/25 00:00	03/02/25 13:19	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2464213	1	03/07/25 07:29	03/07/25 20:52	KDB	Mt. Juliet, TN

⁹Al

¹⁰Sc

SB-BN-12-25 (022525) L1831051-04 Solid

Collected by
Kyle Johnson

Collected date/time
02/25/25 13:00

Received date/time
02/28/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2462621	1	03/05/25 07:21	03/05/25 07:27	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2461261	25	02/25/25 13:00	03/02/25 23:17	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2461076	1	02/25/25 13:00	03/02/25 13:39	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2463442	1	03/06/25 06:51	03/07/25 00:06	KDB	Mt. Juliet, TN

Collected by
Kyle Johnson

Collected date/time
02/25/25 13:30

Received date/time
02/28/25 09:00

SB-BN-12-30 (022525) L1831051-05 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2462621	1	03/05/25 07:21	03/05/25 07:27	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2461261	26	02/25/25 13:30	03/02/25 23:40	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2461076	1.04	02/25/25 13:30	03/02/25 13:58	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2463442	1	03/06/25 06:51	03/07/25 01:58	SGB	Mt. Juliet, TN

Collected by
Kyle Johnson

Collected date/time
02/25/25 13:45

Received date/time
02/28/25 09:00

SB-BN-12-35 (022525) L1831051-06 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2462621	1	03/05/25 07:21	03/05/25 07:27	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2461261	25	02/25/25 13:45	03/03/25 00:02	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2461076	1	02/25/25 13:45	03/02/25 14:17	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2463442	1	03/06/25 06:51	03/07/25 08:04	SGB	Mt. Juliet, TN

SAMPLE SUMMARY

SB-BN-12-40 (022525) L1831051-07 Solid

Collected by
Kyle Johnson

Collected date/time
02/25/25 14:10

Received date/time
02/28/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2462621	1	03/05/25 07:21	03/05/25 07:27	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2461261	25	02/25/25 14:10	03/03/25 00:25	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2461076	1	02/25/25 14:10	03/02/25 14:37	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2463442	1	03/06/25 06:51	03/07/25 08:18	SGB	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

EB-01 (022525) L1831051-08 GW

Collected by
Kyle Johnson

Collected date/time
02/25/25 15:15

Received date/time
02/28/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2462408	1	03/04/25 17:05	03/04/25 17:05	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2462191	1	03/04/25 13:46	03/04/25 13:46	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2462212	1	03/05/25 07:24	03/05/25 21:44	CAH	Mt. Juliet, TN

⁵ Sr

⁶ Qc

⁷ Is

SB-BN-13-10 (022625) L1831051-09 Solid

Collected by
Kyle Johnson

Collected date/time
02/26/25 10:30

Received date/time
02/28/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2462621	1	03/05/25 07:21	03/05/25 07:27	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2462380	25	02/26/25 10:30	03/05/25 08:41	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2462431	20	02/26/25 10:30	03/05/25 01:52	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2463442	1	03/06/25 06:51	03/07/25 01:16	SGB	Mt. Juliet, TN

⁸ Gl

⁹ Al

¹⁰ Sc

SB-BN-13-15 (022625) L1831051-10 Solid

Collected by
Kyle Johnson

Collected date/time
02/26/25 12:30

Received date/time
02/28/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2462621	1	03/05/25 07:21	03/05/25 07:27	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2461261	25	02/26/25 12:30	03/03/25 01:10	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2461076	1	02/26/25 12:30	03/02/25 15:16	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2462431	10	02/26/25 12:30	03/05/25 02:11	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2463442	1	03/06/25 06:51	03/06/25 23:24	KDB	Mt. Juliet, TN

Collected by
Kyle Johnson

Collected date/time
02/26/25 12:45

Received date/time
02/28/25 09:00

SB-BN-13-20 (022625) L1831051-11 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2462622	1	03/05/25 08:26	03/05/25 08:41	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2461261	25	02/26/25 12:45	03/03/25 01:32	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2461076	1	02/26/25 12:45	03/02/25 15:35	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2462431	1	02/26/25 12:45	03/05/25 00:16	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2463442	1	03/06/25 06:51	03/06/25 22:56	KDB	Mt. Juliet, TN

Collected by
Kyle Johnson

Collected date/time
02/26/25 13:00

Received date/time
02/28/25 09:00

SB-BN-13-25 (022625) L1831051-12 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2462622	1	03/05/25 08:26	03/05/25 08:41	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2461261	25	02/26/25 13:00	03/03/25 03:02	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2461076	1	02/26/25 13:00	03/02/25 15:55	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2462431	40	02/26/25 13:00	03/05/25 02:31	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2463442	1	03/06/25 06:51	03/06/25 23:10	KDB	Mt. Juliet, TN

SAMPLE SUMMARY

SB-BN-13-30 (022625) L1831051-13 Solid

Collected by
Kyle Johnson

Collected date/time
02/26/25 13:15

Received date/time
02/28/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2462622	1	03/05/25 08:26	03/05/25 08:41	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2462380	25	02/26/25 13:15	03/05/25 10:08	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2461076	1	02/26/25 13:15	03/02/25 16:14	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2462431	10	02/26/25 13:15	03/05/25 02:50	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2463860	1	03/06/25 16:47	03/07/25 12:23	SGB	Mt. Juliet, TN



SB-BN-13-35 (022625) L1831051-14 Solid

Collected by
Kyle Johnson

Collected date/time
02/26/25 13:30

Received date/time
02/28/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2462622	1	03/05/25 08:26	03/05/25 08:41	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2461261	25	02/26/25 13:30	03/03/25 03:47	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2461076	1	02/26/25 13:30	03/02/25 16:33	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2462431	1	02/26/25 13:30	03/05/25 00:35	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2463860	1	03/06/25 16:47	03/07/25 12:37	SGB	Mt. Juliet, TN



WC-1 (022625) L1831051-15 Solid

Collected by
Kyle Johnson

Collected date/time
02/26/25 15:30

Received date/time
02/28/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2462622	1	03/05/25 08:26	03/05/25 08:41	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2461261	25	02/26/25 15:30	03/03/25 04:09	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2461076	1	02/26/25 15:30	03/02/25 16:53	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2462431	1	02/26/25 15:30	03/05/25 00:54	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2463860	1	03/06/25 16:47	03/07/25 12:51	SGB	Mt. Juliet, TN



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.



Andi R Jones
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Is

⁸ Gl

⁹ Al

¹⁰ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.5		1	03/05/2025 07:27	WG2462621

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		1.16	3.41	25	03/02/2025 12:21	WG2461089
(S) a,a,a-Trifluorotoluene(FID)	98.2			77.0-120		03/02/2025 12:21	WG2461089

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
1,2-Dichloroethane	U	C3	0.000886	0.00341	1	03/02/2025 12:40	WG2461076
1,1-Dichloroethene	U		0.000828	0.00341	1	03/02/2025 12:40	WG2461076
cis-1,2-Dichloroethene	0.00197	J	0.00100	0.00341	1	03/02/2025 12:40	WG2461076
trans-1,2-Dichloroethene	U		0.00142	0.00683	1	03/02/2025 12:40	WG2461076
Tetrachloroethene	U		0.00122	0.00341	1	03/02/2025 12:40	WG2461076
Trichloroethene	0.160		0.000798	0.00137	1	03/02/2025 12:40	WG2461076
Vinyl chloride	U	C3	0.00158	0.00341	1	03/02/2025 12:40	WG2461076
(S) Toluene-d8	97.0			75.0-131		03/02/2025 12:40	WG2461076
(S) 4-Bromofluorobenzene	101			67.0-138		03/02/2025 12:40	WG2461076
(S) 1,2-Dichloroethane-d4	98.9			70.0-130		03/02/2025 12:40	WG2461076

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	1.69	J	1.54	4.62	1	03/06/2025 23:38	WG2463442
Residual Range Organics (RRO)	U		3.85	11.6	1	03/06/2025 23:38	WG2463442
(S) o-Terphenyl	68.2			18.0-148		03/06/2025 23:38	WG2463442

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.0		1	03/05/2025 07:27	WG2462621

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		0.967	2.85	25.3	03/02/2025 12:41	WG2461089
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		03/02/2025 12:41	WG2461089

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
1,2-Dichloroethane	U	C3	0.000739	0.00285	1.01	03/02/2025 13:00	WG2461076
1,1-Dichloroethene	U		0.000690	0.00285	1.01	03/02/2025 13:00	WG2461076
cis-1,2-Dichloroethene	U		0.000836	0.00285	1.01	03/02/2025 13:00	WG2461076
trans-1,2-Dichloroethene	U		0.00118	0.00569	1.01	03/02/2025 13:00	WG2461076
Tetrachloroethene	U		0.00102	0.00285	1.01	03/02/2025 13:00	WG2461076
Trichloroethene	0.00120		0.000665	0.00114	1.01	03/02/2025 13:00	WG2461076
Vinyl chloride	U	C3	0.00132	0.00285	1.01	03/02/2025 13:00	WG2461076
(S) Toluene-d8	97.1			75.0-131		03/02/2025 13:00	WG2461076
(S) 4-Bromofluorobenzene	100			67.0-138		03/02/2025 13:00	WG2461076
(S) 1,2-Dichloroethane-d4	99.9			70.0-130		03/02/2025 13:00	WG2461076

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	1.52	J	1.42	4.26	1	03/06/2025 23:52	WG2463442
Residual Range Organics (RRO)	U		3.54	10.6	1	03/06/2025 23:52	WG2463442
(S) o-Terphenyl	66.9			18.0-148		03/06/2025 23:52	WG2463442

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.5		1	03/05/2025 07:27	WG2462621

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		0.984	2.90	25.5	03/02/2025 13:00	WG2461089
(S) a,a,a-Trifluorotoluene(FID)	96.8			77.0-120		03/02/2025 13:00	WG2461089

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
1,2-Dichloroethane	U	C3	0.000754	0.00290	1.02	03/02/2025 13:19	WG2461076
1,1-Dichloroethene	U		0.000704	0.00290	1.02	03/02/2025 13:19	WG2461076
cis-1,2-Dichloroethene	U		0.000853	0.00290	1.02	03/02/2025 13:19	WG2461076
trans-1,2-Dichloroethene	U		0.00121	0.00581	1.02	03/02/2025 13:19	WG2461076
Tetrachloroethene	U		0.00104	0.00290	1.02	03/02/2025 13:19	WG2461076
Trichloroethene	U		0.000678	0.00116	1.02	03/02/2025 13:19	WG2461076
Vinyl chloride	U	C3	0.00134	0.00290	1.02	03/02/2025 13:19	WG2461076
(S) Toluene-d8	98.7			75.0-131		03/02/2025 13:19	WG2461076
(S) 4-Bromofluorobenzene	102			67.0-138		03/02/2025 13:19	WG2461076
(S) 1,2-Dichloroethane-d4	100			70.0-130		03/02/2025 13:19	WG2461076

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.42	4.28	1	03/07/2025 20:52	WG2464213
Residual Range Organics (RRO)	U		3.56	10.7	1	03/07/2025 20:52	WG2464213
(S) o-Terphenyl	61.6			18.0-148		03/07/2025 20:52	WG2464213

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Is⁸ Gl⁹ Al¹⁰ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.4		1	03/05/2025 07:27	WG2462621

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	1.32	<u>J</u>	1.06	3.12	25	03/02/2025 23:17	WG2461261
(S) a,a,a-Trifluorotoluene(FID)	94.9			77.0-120		03/02/2025 23:17	WG2461261

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
1,2-Dichloroethane	U	<u>C3</u>	0.000811	0.00312	1	03/02/2025 13:39	WG2461076
1,1-Dichloroethene	U		0.000757	0.00312	1	03/02/2025 13:39	WG2461076
cis-1,2-Dichloroethene	U		0.000917	0.00312	1	03/02/2025 13:39	WG2461076
trans-1,2-Dichloroethene	U		0.00130	0.00625	1	03/02/2025 13:39	WG2461076
Tetrachloroethene	U		0.00112	0.00312	1	03/02/2025 13:39	WG2461076
Trichloroethene	U		0.000730	0.00125	1	03/02/2025 13:39	WG2461076
Vinyl chloride	U	<u>C3</u>	0.00145	0.00312	1	03/02/2025 13:39	WG2461076
(S) Toluene-d8	98.2			75.0-131		03/02/2025 13:39	WG2461076
(S) 4-Bromofluorobenzene	101			67.0-138		03/02/2025 13:39	WG2461076
(S) 1,2-Dichloroethane-d4	85.0			70.0-130		03/02/2025 13:39	WG2461076

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.98	<u>J</u>	1.49	4.48	1	03/07/2025 00:06	WG2463442
Residual Range Organics (RRO)	U		3.73	11.2	1	03/07/2025 00:06	WG2463442
(S) o-Terphenyl	56.7			18.0-148		03/07/2025 00:06	WG2463442

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.0		1	03/05/2025 07:27	WG2462621

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

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	1.13	<u>J</u>	1.05	3.10	26	03/02/2025 23:40	WG2461261
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		03/02/2025 23:40	WG2461261

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
1,2-Dichloroethane	U	<u>C3</u>	0.000806	0.00310	1.04	03/02/2025 13:58	WG2461076
1,1-Dichloroethene	U		0.000752	0.00310	1.04	03/02/2025 13:58	WG2461076
cis-1,2-Dichloroethene	U		0.000911	0.00310	1.04	03/02/2025 13:58	WG2461076
trans-1,2-Dichloroethene	U		0.00129	0.00621	1.04	03/02/2025 13:58	WG2461076
Tetrachloroethene	U		0.00111	0.00310	1.04	03/02/2025 13:58	WG2461076
Trichloroethene	U		0.000724	0.00124	1.04	03/02/2025 13:58	WG2461076
Vinyl chloride	U	<u>C3</u>	0.00144	0.00310	1.04	03/02/2025 13:58	WG2461076
(S) Toluene-d8	98.3			75.0-131		03/02/2025 13:58	WG2461076
(S) 4-Bromofluorobenzene	101			67.0-138		03/02/2025 13:58	WG2461076
(S) 1,2-Dichloroethane-d4	86.8			70.0-130		03/02/2025 13:58	WG2461076

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	6.09		1.46	4.39	1	03/07/2025 01:58	WG2463442
Residual Range Organics (RRO)	7.19	<u>J</u>	3.66	11.0	1	03/07/2025 01:58	WG2463442
(S) o-Terphenyl	58.3			18.0-148		03/07/2025 01:58	WG2463442

Sample Narrative:

L1831051-05 WG2463442: Sample does not resemble laboratory standard for Jet Fuel.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.0		1	03/05/2025 07:27	WG2462621

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		1.19	3.52	25	03/03/2025 00:02	WG2461261
(S) a,a,a-Trifluorotoluene(FID)	94.8			77.0-120		03/03/2025 00:02	WG2461261

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
1,2-Dichloroethane	U	C3	0.000913	0.00352	1	03/02/2025 14:17	WG2461076
1,1-Dichloroethene	U		0.000853	0.00352	1	03/02/2025 14:17	WG2461076
cis-1,2-Dichloroethene	U		0.00103	0.00352	1	03/02/2025 14:17	WG2461076
trans-1,2-Dichloroethene	U		0.00146	0.00704	1	03/02/2025 14:17	WG2461076
Tetrachloroethene	U		0.00126	0.00352	1	03/02/2025 14:17	WG2461076
Trichloroethene	U		0.000822	0.00141	1	03/02/2025 14:17	WG2461076
Vinyl chloride	U	C3	0.00163	0.00352	1	03/02/2025 14:17	WG2461076
(S) Toluene-d8	99.2			75.0-131		03/02/2025 14:17	WG2461076
(S) 4-Bromofluorobenzene	102			67.0-138		03/02/2025 14:17	WG2461076
(S) 1,2-Dichloroethane-d4	101			70.0-130		03/02/2025 14:17	WG2461076

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.12	J	1.56	4.70	1	03/07/2025 08:04	WG2463442
Residual Range Organics (RRO)	U		3.92	11.8	1	03/07/2025 08:04	WG2463442
(S) o-Terphenyl	74.2			18.0-148		03/07/2025 08:04	WG2463442

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Is
⁸ Gl
⁹ Al
¹⁰ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.6		1	03/05/2025 07:27	WG2462621

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		1.27	3.76	25	03/03/2025 00:25	WG2461261
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		03/03/2025 00:25	WG2461261

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
1,2-Dichloroethane	U	C3	0.000975	0.00376	1	03/02/2025 14:37	WG2461076
1,1-Dichloroethene	U		0.000910	0.00376	1	03/02/2025 14:37	WG2461076
cis-1,2-Dichloroethene	U		0.00110	0.00376	1	03/02/2025 14:37	WG2461076
trans-1,2-Dichloroethene	U		0.00156	0.00751	1	03/02/2025 14:37	WG2461076
Tetrachloroethene	U		0.00135	0.00376	1	03/02/2025 14:37	WG2461076
Trichloroethene	U		0.000877	0.00150	1	03/02/2025 14:37	WG2461076
Vinyl chloride	U	C3	0.00174	0.00376	1	03/02/2025 14:37	WG2461076
(S) Toluene-d8	97.8			75.0-131		03/02/2025 14:37	WG2461076
(S) 4-Bromofluorobenzene	100			67.0-138		03/02/2025 14:37	WG2461076
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/02/2025 14:37	WG2461076

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	4.99		1.65	4.97	1	03/07/2025 08:18	WG2463442
Residual Range Organics (RRO)	22.8		4.13	12.4	1	03/07/2025 08:18	WG2463442
(S) o-Terphenyl	39.2			18.0-148		03/07/2025 08:18	WG2463442

Sample Narrative:

L1831051-07 WG2463442: Sample resembles laboratory standard for Hydraulic Oil.



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/04/2025 17:05	WG2462408
(S) a,a,a-Trifluorotoluene(FID)	107			78.0-120		03/04/2025 17:05	WG2462408

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0190	0.100	1	03/04/2025 13:46	WG2462191
1,1-Dichloroethene	U		0.0200	0.100	1	03/04/2025 13:46	WG2462191
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/04/2025 13:46	WG2462191
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/04/2025 13:46	WG2462191
Tetrachloroethene	U		0.0280	0.100	1	03/04/2025 13:46	WG2462191
Trichloroethene	U		0.0160	0.0400	1	03/04/2025 13:46	WG2462191
Vinyl chloride	U		0.0273	0.100	1	03/04/2025 13:46	WG2462191
(S) Toluene-d8	95.9			75.0-131		03/04/2025 13:46	WG2462191
(S) 4-Bromofluorobenzene	96.8			67.0-138		03/04/2025 13:46	WG2462191
(S) 1,2-Dichloroethane-d4	106			70.0-130		03/04/2025 13:46	WG2462191

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		60.5	200	1	03/05/2025 21:44	WG2462212
Residual Range Organics (RRO)	U		77.2	250	1	03/05/2025 21:44	WG2462212
(S) o-Terphenyl	122			52.0-156		03/05/2025 21:44	WG2462212

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.3		1	03/05/2025 07:27	WG2462621

1
Cp

2
Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	6.43	J6	1.35	3.97	25	03/05/2025 08:41	WG2462380
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120		03/05/2025 08:41	WG2462380

3
Ss

4
Cn

5
Sr

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
1,2-Dichloroethane	U		0.0206	0.0794	20	03/05/2025 01:52	WG2462431
1,1-Dichloroethene	U		0.0192	0.0794	20	03/05/2025 01:52	WG2462431
cis-1,2-Dichloroethene	0.0260	J	0.0233	0.0794	20	03/05/2025 01:52	WG2462431
trans-1,2-Dichloroethene	U		0.0330	0.159	20	03/05/2025 01:52	WG2462431
Tetrachloroethene	U		0.0284	0.0794	20	03/05/2025 01:52	WG2462431
Trichloroethene	10.4	V	0.0186	0.0318	20	03/05/2025 01:52	WG2462431
Vinyl chloride	U		0.0368	0.0794	20	03/05/2025 01:52	WG2462431
(S) Toluene-d8	96.3			75.0-131		03/05/2025 01:52	WG2462431
(S) 4-Bromofluorobenzene	101			67.0-138		03/05/2025 01:52	WG2462431
(S) 1,2-Dichloroethane-d4	106			70.0-130		03/05/2025 01:52	WG2462431

6
Qc

7
Is

8
Gl

9
Al

10
Sc

Sample Narrative:

L1831051-09 WG2462431: Target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.77	J	1.68	5.04	1	03/07/2025 01:16	WG2463442
Residual Range Organics (RRO)	U		4.20	12.6	1	03/07/2025 01:16	WG2463442
(S) o-Terphenyl	68.2			18.0-148		03/07/2025 01:16	WG2463442

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.9		1	03/05/2025 07:27	WG2462621

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	5.45		1.30	3.84	25	03/03/2025 01:10	WG2461261
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120		03/03/2025 01:10	WG2461261

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
1,2-Dichloroethane	0.00173	C3 J	0.000996	0.00384	1	03/02/2025 15:16	WG2461076
1,1-Dichloroethene	0.00500		0.000930	0.00384	1	03/02/2025 15:16	WG2461076
cis-1,2-Dichloroethene	0.0500		0.00113	0.00384	1	03/02/2025 15:16	WG2461076
trans-1,2-Dichloroethene	0.0108		0.00160	0.00767	1	03/02/2025 15:16	WG2461076
Tetrachloroethene	U		0.00138	0.00384	1	03/02/2025 15:16	WG2461076
Trichloroethene	2.81		0.00896	0.0153	10	03/05/2025 02:11	WG2462431
Vinyl chloride	0.00525	C3	0.00178	0.00384	1	03/02/2025 15:16	WG2461076
(S) Toluene-d8	98.1			75.0-131		03/02/2025 15:16	WG2461076
(S) Toluene-d8	97.2			75.0-131		03/05/2025 02:11	WG2462431
(S) 4-Bromofluorobenzene	102			67.0-138		03/02/2025 15:16	WG2461076
(S) 4-Bromofluorobenzene	99.1			67.0-138		03/05/2025 02:11	WG2462431
(S) 1,2-Dichloroethane-d4	102			70.0-130		03/02/2025 15:16	WG2461076
(S) 1,2-Dichloroethane-d4	106			70.0-130		03/05/2025 02:11	WG2462431

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.14	J	1.64	4.94	1	03/06/2025 23:24	WG2463442
Residual Range Organics (RRO)	U		4.12	12.4	1	03/06/2025 23:24	WG2463442
(S) o-Terphenyl	53.3			18.0-148		03/06/2025 23:24	WG2463442

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.5		1	03/05/2025 08:41	WG2462622

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		1.37	4.03	25	03/03/2025 01:32	WG2461261
(S) a,a,a-Trifluorotoluene(FID)	95.7			77.0-120		03/03/2025 01:32	WG2461261

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
1,2-Dichloroethane	U	C3	0.00105	0.00403	1	03/02/2025 15:35	WG2461076
1,1-Dichloroethene	U		0.000976	0.00403	1	03/02/2025 15:35	WG2461076
cis-1,2-Dichloroethene	U		0.00118	0.00403	1	03/02/2025 15:35	WG2461076
trans-1,2-Dichloroethene	U		0.00168	0.00806	1	03/02/2025 15:35	WG2461076
Tetrachloroethene	U		0.00144	0.00403	1	03/02/2025 15:35	WG2461076
Trichloroethene	0.00395		0.000941	0.00161	1	03/05/2025 00:16	WG2462431
Vinyl chloride	U	C3	0.00187	0.00403	1	03/02/2025 15:35	WG2461076
(S) Toluene-d8	97.1			75.0-131		03/02/2025 15:35	WG2461076
(S) Toluene-d8	97.3			75.0-131		03/05/2025 00:16	WG2462431
(S) 4-Bromofluorobenzene	100			67.0-138		03/02/2025 15:35	WG2461076
(S) 4-Bromofluorobenzene	102			67.0-138		03/05/2025 00:16	WG2462431
(S) 1,2-Dichloroethane-d4	101			70.0-130		03/02/2025 15:35	WG2461076
(S) 1,2-Dichloroethane-d4	96.9			70.0-130		03/05/2025 00:16	WG2462431

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.69	5.10	1	03/06/2025 22:56	WG2463442
Residual Range Organics (RRO)	U		4.24	12.7	1	03/06/2025 22:56	WG2463442
(S) o-Terphenyl	31.8			18.0-148		03/06/2025 22:56	WG2463442

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.8		1	03/05/2025 08:41	WG2462622

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	20.1		1.31	3.86	25	03/03/2025 03:02	WG2461261
(S) a,a,a-Trifluorotoluene(FID)	95.8			77.0-120		03/03/2025 03:02	WG2461261

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
1,2-Dichloroethane	0.00118	C3 J	0.00100	0.00386	1	03/02/2025 15:55	WG2461076
1,1-Dichloroethene	0.00732		0.000936	0.00386	1	03/02/2025 15:55	WG2461076
cis-1,2-Dichloroethene	0.269		0.00113	0.00386	1	03/02/2025 15:55	WG2461076
trans-1,2-Dichloroethene	0.309		0.00161	0.00772	1	03/02/2025 15:55	WG2461076
Tetrachloroethene	U		0.00138	0.00386	1	03/02/2025 15:55	WG2461076
Trichloroethene	16.2		0.0361	0.0618	40	03/05/2025 02:31	WG2462431
Vinyl chloride	0.00389	C3	0.00179	0.00386	1	03/02/2025 15:55	WG2461076
(S) Toluene-d8	96.7			75.0-131		03/02/2025 15:55	WG2461076
(S) Toluene-d8	97.6			75.0-131		03/05/2025 02:31	WG2462431
(S) 4-Bromofluorobenzene	101			67.0-138		03/02/2025 15:55	WG2461076
(S) 4-Bromofluorobenzene	101			67.0-138		03/05/2025 02:31	WG2462431
(S) 1,2-Dichloroethane-d4	85.3			70.0-130		03/02/2025 15:55	WG2461076
(S) 1,2-Dichloroethane-d4	109			70.0-130		03/05/2025 02:31	WG2462431

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.11	J	1.67	5.01	1	03/06/2025 23:10	WG2463442
Residual Range Organics (RRO)	U		4.17	12.5	1	03/06/2025 23:10	WG2463442
(S) o-Terphenyl	48.6			18.0-148		03/06/2025 23:10	WG2463442

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.0		1	03/05/2025 08:41	WG2462622

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	3.06	<u>J</u>	1.15	3.40	25	03/05/2025 10:08	WG2462380
(S) a,a,a-Trifluorotoluene(FID)	97.9			77.0-120		03/05/2025 10:08	WG2462380

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
1,2-Dichloroethane	U	<u>C3</u>	0.000883	0.00340	1	03/02/2025 16:14	WG2461076
1,1-Dichloroethene	0.00346		0.000825	0.00340	1	03/02/2025 16:14	WG2461076
cis-1,2-Dichloroethene	0.0598		0.000999	0.00340	1	03/02/2025 16:14	WG2461076
trans-1,2-Dichloroethene	0.0377		0.00142	0.00681	1	03/02/2025 16:14	WG2461076
Tetrachloroethene	U		0.00122	0.00340	1	03/02/2025 16:14	WG2461076
Trichloroethene	5.25		0.00795	0.0136	10	03/05/2025 02:50	WG2462431
Vinyl chloride	U	<u>C3</u>	0.00158	0.00340	1	03/02/2025 16:14	WG2461076
(S) Toluene-d8	97.8			75.0-131		03/02/2025 16:14	WG2461076
(S) Toluene-d8	97.4			75.0-131		03/05/2025 02:50	WG2462431
(S) 4-Bromofluorobenzene	101			67.0-138		03/02/2025 16:14	WG2461076
(S) 4-Bromofluorobenzene	99.9			67.0-138		03/05/2025 02:50	WG2462431
(S) 1,2-Dichloroethane-d4	99.4			70.0-130		03/02/2025 16:14	WG2461076
(S) 1,2-Dichloroethane-d4	104			70.0-130		03/05/2025 02:50	WG2462431

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	1.66	<u>J</u>	1.55	4.65	1	03/07/2025 12:23	WG2463860
Residual Range Organics (RRO)	U		3.87	11.6	1	03/07/2025 12:23	WG2463860
(S) o-Terphenyl	61.0			18.0-148		03/07/2025 12:23	WG2463860

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.6		1	03/05/2025 08:41	WG2462622

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	2.81	<u>J</u>	1.26	3.72	25	03/03/2025 03:47	WG2461261
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120		03/03/2025 03:47	WG2461261

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
1,2-Dichloroethane	U	<u>C3</u>	0.000965	0.00372	1	03/02/2025 16:33	WG2461076
1,1-Dichloroethene	0.00509		0.000901	0.00372	1	03/02/2025 16:33	WG2461076
cis-1,2-Dichloroethene	0.0473		0.00109	0.00372	1	03/02/2025 16:33	WG2461076
trans-1,2-Dichloroethene	0.0201		0.00155	0.00744	1	03/02/2025 16:33	WG2461076
Tetrachloroethene	U		0.00133	0.00372	1	03/02/2025 16:33	WG2461076
Trichloroethene	1.04		0.000869	0.00149	1	03/05/2025 00:35	WG2462431
Vinyl chloride	U	<u>C3</u>	0.00173	0.00372	1	03/02/2025 16:33	WG2461076
(S) Toluene-d8	97.4			75.0-131		03/02/2025 16:33	WG2461076
(S) Toluene-d8	98.1			75.0-131		03/05/2025 00:35	WG2462431
(S) 4-Bromofluorobenzene	101			67.0-138		03/02/2025 16:33	WG2461076
(S) 4-Bromofluorobenzene	101			67.0-138		03/05/2025 00:35	WG2462431
(S) 1,2-Dichloroethane-d4	97.4			70.0-130		03/02/2025 16:33	WG2461076
(S) 1,2-Dichloroethane-d4	92.3			70.0-130		03/05/2025 00:35	WG2462431

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.45	<u>J</u>	1.61	4.84	1	03/07/2025 12:37	WG2463860
Residual Range Organics (RRO)	U		4.03	12.1	1	03/07/2025 12:37	WG2463860
(S) o-Terphenyl	56.5			18.0-148		03/07/2025 12:37	WG2463860

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.2		1	03/05/2025 08:41	WG2462622

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	48.4		1.28	3.77	25	03/03/2025 04:09	WG2461261
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120		03/03/2025 04:09	WG2461261

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
1,2-Dichloroethane	0.00150	C3 J	0.000978	0.00377	1	03/02/2025 16:53	WG2461076
1,1-Dichloroethene	U		0.000913	0.00377	1	03/02/2025 16:53	WG2461076
cis-1,2-Dichloroethene	U		0.00111	0.00377	1	03/02/2025 16:53	WG2461076
trans-1,2-Dichloroethene	U		0.00157	0.00754	1	03/02/2025 16:53	WG2461076
Tetrachloroethene	U		0.00135	0.00377	1	03/02/2025 16:53	WG2461076
Trichloroethene	0.0102		0.000880	0.00151	1	03/05/2025 00:54	WG2462431
Vinyl chloride	U	C3	0.00175	0.00377	1	03/02/2025 16:53	WG2461076
(S) Toluene-d8	95.9			75.0-131		03/02/2025 16:53	WG2461076
(S) Toluene-d8	96.9			75.0-131		03/05/2025 00:54	WG2462431
(S) 4-Bromofluorobenzene	102			67.0-138		03/02/2025 16:53	WG2461076
(S) 4-Bromofluorobenzene	102			67.0-138		03/05/2025 00:54	WG2462431
(S) 1,2-Dichloroethane-d4	98.9			70.0-130		03/02/2025 16:53	WG2461076
(S) 1,2-Dichloroethane-d4	87.8			70.0-130		03/05/2025 00:54	WG2462431

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	136		1.66	4.99	1	03/07/2025 12:51	WG2463860
Residual Range Organics (RRO)	76.1		4.15	12.5	1	03/07/2025 12:51	WG2463860
(S) o-Terphenyl	28.9			18.0-148		03/07/2025 12:51	WG2463860

Sample Narrative:

L1831051-15 WG2463860: Sample resembles laboratory standard for Diesel and Hydraulic Oil.



Method Blank (MB)

(MB) R4182825-1 03/05/25 07:27

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1831051-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1831051-09 03/05/25 07:27 • (DUP) R4182825-3 03/05/25 07:27

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	79.3	79.3	1	0.00416		10

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R4182825-2 03/05/25 07:27

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

Method Blank (MB)

(MB) R4182855-1 03/05/25 08:41

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00200			

L1831110-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1831110-03 03/05/25 08:41 • (DUP) R4182855-3 03/05/25 08:41

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	70.2	71.3	1	1.44		10

Laboratory Control Sample (LCS)

(LCS) R4182855-2 03/05/25 08:41

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Is

8

Gl

9

Al

10

Sc

Method Blank (MB)

(MB) R4182499-3 03/02/25 11:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	U		0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120

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

(LCS) R4182499-1 03/02/25 10:00 • (LCSD) R4182499-2 03/02/25 10:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5.00	5.25	4.65	105	93.0	71.0-124			12.1	20
(S) a,a,a-Trifluorotoluene(FID)				103	102	77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4182404-3 03/02/25 22:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	U		0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	95.8			77.0-120

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

(LCS) R4182404-1 03/02/25 20:14 • (LCSD) R4182404-2 03/02/25 20:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5.00	4.60	4.84	92.0	96.8	71.0-124			5.08	20
(S) a,a,a-Trifluorotoluene(FID)				105	103	77.0-120				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4182939-3 03/04/25 23:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	U		0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120

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

(LCS) R4182939-1 03/04/25 21:45 • (LCSD) R4182939-2 03/04/25 22:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5.00	5.40	4.95	108	99.0	71.0-124			8.70	20
(S) a,a,a-Trifluorotoluene(FID)				108	105	77.0-120				

L1831051-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1831051-09 03/05/25 08:41 • (MS) R4182939-4 03/05/25 09:08 • (MSD) R4182939-5 03/05/25 09:30

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	6.35	6.43	6.05	6.70	0.000	4.25	1	50.0-150	J6	J6	10.2	27
(S) a,a,a-Trifluorotoluene(FID)					103	105		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4183184-3 03/04/25 14:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	47.6	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120

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

(LCS) R4183184-1 03/04/25 13:05 • (LCSD) R4183184-2 03/04/25 13:26

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5000	5200	4530	104	90.6	70.0-124			13.8	20
(S) a,a,a-Trifluorotoluene(FID)				113	111	78.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4182446-3 03/02/25 10:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
Tetrachloroethene	U		0.000896	0.00250
Trichloroethene	U		0.000584	0.00100
Vinyl chloride	U		0.00116	0.00250
(S) Toluene-d8	98.2			75.0-131
(S) 4-Bromofluorobenzene	101			67.0-138
(S) 1,2-Dichloroethane-d4	95.9			70.0-130

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

(LCS) R4182446-1 03/02/25 09:14 • (LCSD) R4182446-2 03/02/25 09:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,2-Dichloroethane	0.125	0.0984	0.0972	78.7	77.8	65.0-131			1.23	20
1,1-Dichloroethene	0.125	0.114	0.116	91.2	92.8	65.0-131			1.74	20
cis-1,2-Dichloroethene	0.125	0.126	0.128	101	102	73.0-125			1.57	20
trans-1,2-Dichloroethene	0.125	0.127	0.130	102	104	71.0-125			2.33	20
Tetrachloroethene	0.125	0.120	0.124	96.0	99.2	70.0-136			3.28	20
Trichloroethene	0.125	0.125	0.127	100	102	76.0-126			1.59	20
Vinyl chloride	0.125	0.0875	0.102	70.0	81.6	63.0-134			15.3	20
(S) Toluene-d8				98.9	99.9	75.0-131				
(S) 4-Bromofluorobenzene				102	105	67.0-138				
(S) 1,2-Dichloroethane-d4				96.8	99.0	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4182912-3 03/04/25 21:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
Tetrachloroethene	U		0.000896	0.00250
Trichloroethene	U		0.000584	0.00100
Vinyl chloride	U		0.00116	0.00250
(S) Toluene-d8	95.8			75.0-131
(S) 4-Bromofluorobenzene	104			67.0-138
(S) 1,2-Dichloroethane-d4	110			70.0-130

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

(LCS) R4182912-1 03/04/25 19:51 • (LCSD) R4182912-2 03/04/25 20:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,2-Dichloroethane	0.125	0.144	0.135	115	108	65.0-131			6.45	20
1,1-Dichloroethene	0.125	0.145	0.148	116	118	65.0-131			2.05	20
cis-1,2-Dichloroethene	0.125	0.126	0.127	101	102	73.0-125			0.791	20
trans-1,2-Dichloroethene	0.125	0.130	0.130	104	104	71.0-125			0.000	20
Tetrachloroethene	0.125	0.125	0.128	100	102	70.0-136			2.37	20
Trichloroethene	0.125	0.128	0.129	102	103	76.0-126			0.778	20
Vinyl chloride	0.125	0.133	0.124	106	99.2	63.0-134			7.00	20
(S) Toluene-d8				96.4	93.4	75.0-131				
(S) 4-Bromofluorobenzene				104	104	67.0-138				
(S) 1,2-Dichloroethane-d4				115	111	70.0-130				

L1831051-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1831051-09 03/05/25 01:52 • (MS) R4182912-4 03/05/25 04:07 • (MSD) R4182912-5 03/05/25 04:27

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2-Dichloroethane	0.159	U	0.168	0.175	106	110	1	50.0-150			3.70	35
1,1-Dichloroethene	0.159	U	0.179	0.170	113	107	1	50.0-150			5.45	37
cis-1,2-Dichloroethene	0.159	0.0260	0.168	0.179	89.6	96.6	1	50.0-150			6.39	37
trans-1,2-Dichloroethene	0.159	U	0.155	0.162	97.8	102	1	50.0-150			4.20	37
Tetrachloroethene	0.159	U	0.148	0.141	93.5	88.7	1	50.0-150			5.27	39
Trichloroethene	0.159	10.4	0.772	0.767	0.000	0.000	1	50.0-150	V	V	0.619	38

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

L1831051-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1831051-09 03/05/25 01:52 • (MS) R4182912-4 03/05/25 04:07 • (MSD) R4182912-5 03/05/25 04:27

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Vinyl chloride	0.159	U	0.149	0.142	93.8	89.4	1	50.0-150			4.80	37
(S) Toluene-d8					96.9	95.5		75.0-131				
(S) 4-Bromofluorobenzene					100	101		67.0-138				
(S) 1,2-Dichloroethane-d4					106	104		70.0-130				

Sample Narrative:
OS: Target compounds too high to run at a lower dilution.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4182813-3 03/04/25 12:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
Tetrachloroethene	U		0.0280	0.100
Trichloroethene	U		0.0160	0.0400
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	98.3			75.0-131
(S) 4-Bromofluorobenzene	97.5			67.0-138
(S) 1,2-Dichloroethane-d4	107			70.0-130

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

(LCS) R4182813-1 03/04/25 09:06 • (LCSD) R4182813-2 03/04/25 09:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,2-Dichloroethane	5.00	5.90	5.99	118	120	65.0-131			1.51	20
1,1-Dichloroethene	5.00	6.22	6.07	124	121	65.0-131			2.44	20
cis-1,2-Dichloroethene	5.00	5.28	5.33	106	107	73.0-125			0.943	20
trans-1,2-Dichloroethene	5.00	5.51	5.48	110	110	71.0-125			0.546	20
Tetrachloroethene	5.00	6.18	6.56	124	131	70.0-136			5.97	20
Trichloroethene	5.00	5.88	5.67	118	113	76.0-126			3.64	20
Vinyl chloride	5.00	5.47	5.28	109	106	63.0-134			3.53	20
(S) Toluene-d8				97.1	97.6	75.0-131				
(S) 4-Bromofluorobenzene				94.8	96.3	67.0-138				
(S) 1,2-Dichloroethane-d4				112	109	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4183042-1 03/05/25 11:11

Analyte	MB Result ug/l	<u>MB Qualifier</u>	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		60.5	200
Residual Range Organics (RRO)	U		77.2	250
(S) o-Terphenyl	123			52.0-156

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

(LCS) R4183042-2 03/05/25 11:31 • (LCSD) R4183042-3 03/05/25 11:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1580	1500	105	100	50.0-150			5.19	20
(S) o-Terphenyl				133	131	52.0-156				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4183556-1 03/06/25 18:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	82.0			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4183556-2 03/06/25 18:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	44.7	89.4	50.0-150	
(S) o-Terphenyl			75.2	18.0-148	

L1831051-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1831051-09 03/07/25 01:16 • (MS) R4183556-3 03/07/25 01:31 • (MSD) R4183556-4 03/07/25 01:44

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	61.8	2.77	54.1	51.8	83.1	79.7	1	50.0-150			4.29	20
(S) o-Terphenyl					50.8	49.5		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4183837-1 03/07/25 11:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	71.0			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4183837-2 03/07/25 11:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	39.4	78.8	50.0-150	
(S) o-Terphenyl			65.5	18.0-148	

L1831110-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1831110-03 03/07/25 17:21 • (MS) R4183837-3 03/07/25 17:35 • (MSD) R4183837-4 03/07/25 17:49

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	69.2	5.94	58.9	57.1	76.6	74.5	1	50.0-150			3.19	20
(S) o-Terphenyl					53.5	62.0		18.0-148				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4183974-1 03/07/25 20:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	62.9			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4183974-2 03/07/25 20:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	34.3	68.6	50.0-150	
(S) o-Terphenyl			59.5	18.0-148	

L1831670-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1831670-02 03/08/25 01:06 • (MS) R4183974-3 03/08/25 01:20 • (MSD) R4183974-4 03/08/25 01:34

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	48.9	3.26	36.5	33.6	68.0	62.2	1	50.0-150			8.27	20
(S) o-Terphenyl					50.6	48.9		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCGC1 • File ID: 0302_30

03/02/25 19:52			
Sample ID	File ID	FLUOROBENZENE (FID) Response	FLUOROBENZENE (PID) Response
Standard	0302_30	2357354000	233796200
Upper Limit		4714708000	467592400
Lower Limit		1178677000	116898100
LCS R4182404-1 WG2461261 1x	0302_31	2424947000	237541500
LCSD R4182404-2 WG2461261 1x	0302_33	2400285000	237682500
BLANK R4182404-3 WG2461261 25x	0302_36	2340806000	223737300
L1831051-04 WG2461261 25x	0302_37	2204730000	212542200
L1831051-05 WG2461261 26x	0302_38	2352668000	227157300
L1831051-06 WG2461261 25x	0302_39	2310756000	222424700
L1831051-07 WG2461261 25x	0302_40	2345689000	226686200
L1831051-10 WG2461261 25x	0302_42	2314352000	224708800
L1831051-11 WG2461261 25x	0302_43	2318613000	223618400

Instrument: VOCGC1 • File ID: 0302_45

03/03/25 02:17			
Sample ID	File ID	FLUOROBENZENE (FID) Response	FLUOROBENZENE (PID) Response
Standard	0302_45	2353746000	234796900
Upper Limit		4714708000	467592400
Lower Limit		1178677000	116898100
L1831051-12 WG2461261 25x	0302_47	1620824000	163226500
L1831051-14 WG2461261 25x	0302_49	2406129000	234279200
L1831051-15 WG2461261 25x	0302_50	2415983000	235599700

Instrument: VOCGC17 • File ID: 0302_03

03/02/25 09:41			
Sample ID	File ID	FLUOROBENZENE (FID) Response	FLUOROBENZENE (PID) Response
Standard	0302_03	459168700	44848930
Upper Limit		918337400	89697860
Lower Limit		229584400	22424460
LCS R4182499-1 WG2461089 1x	0302_04	441571600	45164410

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCGC17 • File ID: 0302_03

03/02/25 09:41			
Sample ID	File ID	FLUOROBENZENE (FID) Response	FLUOROBENZENE (PID) Response
LCSD R4182499-2 WG2461089 1x	0302_05	512221000	50399500
BLANK R4182499-3 WG2461089 25x	0302_08	517542300	0
L1831051-01 WG2461089 25x	0302_10	377342100	300268
L1831051-02 WG2461089 25.3x	0302_11	380445900	
L1831051-03 WG2461089 25.5x	0302_12	426559200	

Instrument: VOCGC17 • File ID: 0304_31

03/04/25 21:15			
Sample ID	File ID	FLUOROBENZENE (FID) Response	FLUOROBENZENE (PID) Response
Standard	0304_31	445336200	41135100
Upper Limit		890672400	82270200
Lower Limit		222668100	20567550
LCS R4182939-1 WG2462380 1x	0304_32	491170800	52837500
LCSD R4182939-2 WG2462380 1x	0304_33	402904200	39615560
BLANK R4182939-3 WG2462380 25x	0304_36	416234300	0
L1831051-09 WG2462380 25x	0304_40	369588400	1246549
MS R4182939-4 WG2462380 1x	0304_43	439034700	36713240
MSD R4182939-5 WG2462380 1x	0304_44	412141500	37363580
L1831051-13 WG2462380 25x	0304_46	377099600	2540297

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCGC6 • File ID: 0304_07

03/04/25 13:05

Sample ID	File ID	FLUOROBENZENE (FID)	FLUOROBENZENE (PID)
		Response	Response
Standard	0304_07	113710300	205638100
Upper Limit		227420600	411276200
Lower Limit		56855150	102819000
LCS R4183184-1 WG2462408 1x	0304_07z	113710300	205638100
LCSD R4183184-2 WG2462408 1x	0304_08	125510100	226668600
BLANK R4183184-3 WG2462408 1x	0304_10	112076300	213412700
L1831051-08 WG2462408 1x	0304_12	124300100	235098800

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCMS42 • File ID: 0302_02

03/02/25 09:14				
Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	0302_02	823038.40	386930.80	379490.30
Upper Limit		1646077	773862	758981
Lower Limit		411519	193465	189745
LCS R4182446-1 WG2461076 1x	0302_02LCS	823038.40	386930.80	379490.30
LCSD R4182446-2 WG2461076 1x	0302_03	865938.80	399975.40	404520.10
BLANK R4182446-3 WG2461076 1x	0302_07	879157.80	426338.30	421737
L1831051-01 WG2461076 1x	0302_12	829940.40	418814.10	407845.60
L1831051-02 WG2461076 1.01x	0302_13	830693.80	415037.70	403339.50
L1831051-03 WG2461076 1.02x	0302_14	816663.80	402834.20	385151.30
L1831051-04 WG2461076 1x	0302_15	822725.20	413355.30	395718.20
L1831051-05 WG2461076 1.04x	0302_16	825612.40	408456.20	387903.30
L1831051-06 WG2461076 1x	0302_17	801574.40	400314.10	386251.50
L1831051-07 WG2461076 1x	0302_18	887890.50	423435.80	409033.20
L1831051-10 WG2461076 1x	0302_20	841920.30	426036.10	415676.40
L1831051-11 WG2461076 1x	0302_21	811682.60	410803.10	401006.30
L1831051-12 WG2461076 1x	0302_22	785555.10	399622.50	387589.50
L1831051-13 WG2461076 1x	0302_23	777051.40	397822.70	383394.80
L1831051-14 WG2461076 1x	0302_24	649718.10	341143.30	332098.20
L1831051-15 WG2461076 1x	0302_25	807840	417321	403607.40

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gf

9Al

10Sc

Instrument: VOCMS54 • File ID: 0304_25-1

03/04/25 19:51				
Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	0304_25-1	629129.90	393655.40	317506.80
Upper Limit		1258260	787311	635014
Lower Limit		314565	196828	158753
LCS R4182912-1 WG2462431 1x	0304_25LCS	629129.90	393655.40	317506.80
LCSD R4182912-2 WG2462431 1x	0304_26	644260.30	394367.60	331290.50
BLANK R4182912-3 WG2462431 1x	0304_30	677067.10	408888.90	342121.20
L1831051-11 WG2462431 1x	0304_36	822191.60	481431.90	381834
L1831051-14 WG2462431 1x	0304_37	784700.30	492440.30	379572.30
L1831051-15 WG2462431 1x	0304_38	851362.50	507540.70	433812.70
L1831051-09 WG2462431 20x	0304_41	810160	491823.90	387428.60
L1831051-10 WG2462431 10x	0304_42	779204.30	482989.20	379331.20

INTERNAL STANDARD SUMMARY

Instrument: VOCMS54 • File ID: 0304_25-1

03/04/25 19:51				
Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
L1831051-12 WG2462431 40x	0304_43	775214.30	469172.30	366760.20
L1831051-13 WG2462431 10x	0304_44	770222.60	457072	361502
MS R4182912-4 WG2462431 1x	0304_48	752978	470171.70	370360.40
MSD R4182912-5 WG2462431 1x	0304_49	778375.50	472603.20	376551.90

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCMS56 • File ID: 0304_02-1

03/04/25 09:06

Sample ID	File ID	8260-FLUOROBENZENE	8260-CHLOROBENZENE-D5	8260-1,4-DICHLOROBENZENE-D4
		Response	Response	Response
Standard	0304_02-1	1046052	590099.80	538739.20
Upper Limit		2092104	1180200	1077478
Lower Limit		523026	295050	269370
LCS R4182813-1 WG2462191 1x	0304_02LCSA	1046052	590099.80	538739.20
LCSD R4182813-2 WG2462191 1x	0304_03A	989180.70	556098.10	502236.70
BLANK R4182813-3 WG2462191 1x	0304_09A	1195914	663023.40	650756.90
L1831051-08 WG2462191 1x	0304_11	908121.20	501796.60	477894.10

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	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
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

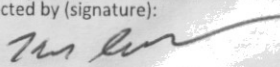
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	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 ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	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 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ 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: ARCADIS - BNSF Region 2 1420 5th Avenue, Suite 2400 Seattle, WA 98101				Billing Information: Arcadis, US, Inc. 630 Plaza Drive Suite 200 Highlands Ranch, CO 80129				Analysis / Container / Preservative NWTPHDXLVNOSGT 40mlAmb-HCl-BT NWTPHDXNOSGT 8ozClr-NoPres NWTPHGX 40mlAmb HCl NWTPHGX 40mlAmb/MeOH10ml/Syr V8260 40mlAmb/MeOH10ml/Syr V8260ULL 40mlAmb-HCl				Chain of Custody Page <u>1</u> of <u>2</u>  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	
Report to: Kyle Haslam 206-726-4753				Email To: kyle.haslam@arcadis.com;emily.zikmund@arca									
Project Description: BNSF Time Oil Bulk Terminal - Seattle, WA			City/State Collected: Seattle WA		Please Circle: ☒ PT ☐ MT ☐ CT ☐ ET								
Regulatory Program(DOD,RCRA,DW,etc):		Client Project # 30270277.01		Lab Project # BNSF2ARCA-TIMEOIL									
Collected by (print): Kyle Johnson		Site/Facility ID # SEATTLE, WA 98199		P.O. #									
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 ☒ STD TAT		Quote #									
Immediately Packed on Ice N ☐ Y ☒				Date Results Needed		No. of Cntrs							
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time								
MB-13 SB-BN-13-5 (022525)	6	SS	5	2-25-25	11:20	3	X	X	X				
SB-BN-12-20 (022525)	6	SS	20	2-25-25	12:30	3							
SB-DUP-1 (022525)	6	SS	—	2-25-25	—	3							
SB-BN-12-25 (022525)	6	SS	25	2-25-25	1300	3							
SB-BN-12-30 (022525)	6	SS	30	2-25-25	1330	3							
SB-BN-12-35 (022525)	6	SS	35	2-25-25	1345	3							
SB-BN-12-40 (022525)	6	SS	40	2-25-25	1410	3							
EB-01 (022525)	6	SS	—	2-25-25	1515	8	X	X	X				
		SS											
		SS											

* Matrix:

SS - Soil AIR - Air F - Filter

GW - Groundwater B - Bioassay

WW - WasteWater

DW - Drinking Water

OT - Other

Remarks: VOC list: BTEX, 1,2DCE, 1,1-DCE, cis & trans-1,2DCE, TCE, PCE, VC

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N

COC Signed/Accurate: ☒ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N

Correct bottles used: ☒ Y ☐ N

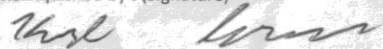
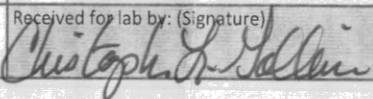
Sufficient volume sent: ☒ Y ☐ N

If Applicable

VOA Zero HeadSpace: ☒ Y ☐ N

Preservation Correct/Checked: ☒ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Relinquished by: (Signature) 		Date: 2-27-25	Time: 1615	Received by: (Signature) 	Trip Blank Received: Yes/No 3xHCL 2xYSBM ☒ HCL/MeOH ☐ TBR
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)	Temp: 15.0 °C Bottles Received: 42 58
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)	Date: 2/28/25 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition:
 NCF ☐ OK ☒

Company Name/Address: ARCADIS - BNSF Region 2 1420 5th Avenue, Suite 2400 Seattle, WA 98101				Billing Information: Arcadis, US, Inc. 630 Plaza Drive Suite 200 Highlands Ranch, CO 80129				Pres Chk		Analysis / Container / Preservative				Chain of Custody Page 2 of 2	
Report to: Kyle Haslam 206-726-4753				Email To: kyle.haslam@arcadis.com; emily.zikmund@arca				 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 # LF31051 Table # Acctnum: BNSF2ARCA Template: T268775 Prelogin: P1133005 PM: 4089 - Andi R Jones PB: 2-21-2025 6u Shipped Via: FedEX 2nd Day					
Project Description: BNSF Time Oil Bulk Terminal - Seattle, WA		City/State Collected: Seattle, WA		Please Circle: ☒ MT ☐ CT ☐ ET											
Regulatory Program(DOD, RCRA, DW, etc):		Client Project # 30270277.01		Lab Project # BNSF2ARCA-TIMEOIL											
Collected by (print): Kyle Johnson		Site/Facility ID # SEATTLE, WA 98199		P.O. #											
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 ☒ STD TAT		Quote # Date Results Needed											
Immediately Packed on Ice N ☐ Y ☒		No. of Cntrs		NWTPHDXLVINOSGT 40mlAmb-HCl-BT NWTPHDXNOSGT 8ozClr-NoPres NWTPHGX 40mlAmb HCl NWTPHGX 40mlAmb/MeOH10ml/Syr V8260 40mlAmb/MeOH10ml/Syr V8260ULL 40mlAmb-HCl											
Sample ID	Comp/Grab	Matrix *	Depth			Date	Time								
SB-BN-13-10(022625)	G	SS	10			2-26-25	1030								
SB-BN-13-15(022625)	↓	SS	15			↓	1230								
SB-BN-13-20(022625)	↓	SS	20			↓	1245								
SB-BN-13-25(022625)	↓	SS	25			↓	1300								
SB-BN-13-30(022625)	↓	SS	30			↓	1315								
SB-BN-13-35(022625)	↓	SS	35			↓	1330								
WC-1 (022625)	Comp	SS	—			↓	1530								
		SS													
		SS													
		SS													
		SS													
		SS													

* Matrix:

SS - Soil AIR - Air F - Filter

GW - Groundwater B - Bioassay

WW - Waste Water

DW - Drinking Water

OT - Other

Remarks: VOC list: BTEX, 1,2DCE, 1,1-DCE, cis & trans-1,2DCE, TCE, PCE, VC

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No	Bottles Received:
	2-27-25	1615		HCL / MeOH TBR	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C	If preservation required by Login: Date/Time
				1.504219	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:
				2/28/25	0900
				Hold:	Condition: NCF / OK

Sample Receipt Checklist

COC Seal Present/Intact:	☒ NP	☒ N
COC Signed/Accurate:	☒	☒ N
Bottles arrive intact:	☒	☒ N
Correct bottles used:	☒	☒ N
Sufficient volume sent:	☒	☒ N
If Applicable		
VOA Zero Headspace:	☒	☒ N
Preservation Correct/Checked:	☒	☒ N
RAD Screen <0.5 mR/hr:	☒	☒ N

Multiple Parcel Form

L#

1831051

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
738096651025	TLA9	1.1	0.4	1.5	Yes / No / Not Present
1086	TLA9	1.5	0.4	1.9	Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Name

Date

ARCADIS - BNSF Region 2

Sample Delivery Group: L1833588
Samples Received: 03/07/2025
Project Number: 30270277.01
Description: BNSF Time Oil
Site: BNSF TIME OIL
Report To: Kyle Haslam
1420 5th Avenue, Suite 2400
Seattle, WA 98101

Entire Report Reviewed By:



Andi R Jones
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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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01MW92(030525) L1833588-14	26
EB-01(030525) L1833588-15	28
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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Is
⁸ Gl
⁹ Al
¹⁰ Sc

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

SAMPLE SUMMARY

MW-BN-02(030325) L1833588-01 GW

				Collected by Michelle N	Collected date/time 03/03/25 13:00	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2467321	1	03/12/25 23:02	03/12/25 23:02	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2464794	1	03/13/25 03:26	03/13/25 03:26	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2464972	1	03/08/25 17:27	03/08/25 17:27	BMD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465124	1	03/08/25 20:08	03/10/25 11:13	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465138	1	03/10/25 01:30	03/10/25 17:07	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2465785	1	03/10/25 11:17	03/10/25 11:17	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465722	1	03/10/25 14:17	03/10/25 14:17	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2466659	1	03/13/25 08:00	03/14/25 14:00	TJD	Mt. Juliet, TN



MW-BN-05(030325) L1833588-02 GW

				Collected by Michelle N	Collected date/time 03/03/25 14:55	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2464794	1	03/13/25 04:05	03/13/25 04:05	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2464972	1	03/08/25 17:48	03/08/25 17:48	BMD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2465785	1	03/10/25 11:38	03/10/25 11:38	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465722	1	03/10/25 14:37	03/10/25 14:37	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2466659	1	03/13/25 08:00	03/14/25 14:41	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2465290	1	03/10/25 07:57	03/10/25 23:19	ALM	Mt. Juliet, TN

01MW97(030325) L1833588-03 GW

				Collected by Michelle N	Collected date/time 03/03/25 16:45	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2467321	1	03/12/25 23:09	03/12/25 23:09	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2464794	1	03/13/25 04:17	03/13/25 04:17	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2464972	1	03/08/25 18:08	03/08/25 18:08	BMD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465124	1	03/08/25 20:08	03/10/25 11:16	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465138	1	03/10/25 01:30	03/10/25 17:10	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2465785	1	03/10/25 11:59	03/10/25 11:59	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465722	1	03/10/25 14:56	03/10/25 14:56	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2466659	1	03/13/25 08:00	03/14/25 15:22	TJD	Mt. Juliet, TN

01MW94(030425) L1833588-04 GW

				Collected by Michelle N	Collected date/time 03/04/25 09:10	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2467321	1	03/12/25 23:11	03/12/25 23:11	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2464794	1	03/13/25 04:30	03/13/25 04:30	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2464972	1	03/08/25 19:05	03/08/25 19:05	BMD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465124	1	03/08/25 20:08	03/10/25 11:19	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465138	1	03/10/25 01:30	03/10/25 17:13	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2465785	1	03/10/25 12:20	03/10/25 12:20	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465722	1	03/10/25 15:15	03/10/25 15:15	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2466661	1	03/14/25 15:53	03/20/25 00:42	TJD	Mt. Juliet, TN

SAMPLE SUMMARY

MW-BN-06(030425) L1833588-05 GW

				Collected by Michelle N	Collected date/time 03/04/25 10:45	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2467321	1	03/12/25 23:14	03/12/25 23:14	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2464794	1	03/13/25 04:43	03/13/25 04:43	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2464972	1	03/08/25 19:44	03/08/25 19:44	BMD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465124	1	03/08/25 20:08	03/10/25 11:23	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465138	1	03/10/25 01:30	03/10/25 17:16	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2465785	1	03/10/25 12:41	03/10/25 12:41	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2468880	1	03/13/25 23:25	03/13/25 23:25	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2465524	1	03/09/25 18:41	03/12/25 06:50	MAA	Mt. Juliet, TN



MW-BN-07(030425) L1833588-06 GW

				Collected by Michelle N	Collected date/time 03/04/25 13:30	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2467321	1	03/12/25 23:16	03/12/25 23:16	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2464794	1	03/13/25 06:00	03/13/25 06:00	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2464972	1	03/08/25 20:04	03/08/25 20:04	BMD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465124	1	03/08/25 20:08	03/10/25 10:57	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465138	1	03/10/25 01:30	03/10/25 16:54	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2466096	1	03/11/25 11:53	03/11/25 11:53	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465596	1	03/10/25 01:32	03/10/25 01:32	GLN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465830	50	03/11/25 03:15	03/11/25 03:15	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2465524	1	03/09/25 18:41	03/12/25 07:12	MAA	Mt. Juliet, TN

MW-BN-03(030425) L1833588-07 GW

				Collected by Michelle N	Collected date/time 03/04/25 17:17	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2467321	1	03/12/25 23:35	03/12/25 23:35	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2464794	1	03/13/25 04:56	03/13/25 04:56	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2464972	1	03/08/25 21:06	03/08/25 21:06	BMD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465124	1	03/08/25 20:08	03/10/25 11:44	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465138	1	03/10/25 01:30	03/10/25 17:27	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465596	50	03/10/25 06:32	03/10/25 06:32	GLN	Mt. Juliet, TN

MW-DUP-01(030425) L1833588-08 GW

				Collected by Michelle N	Collected date/time 03/04/25 00:00	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2466096	1	03/11/25 12:14	03/11/25 12:14	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465596	1	03/10/25 01:53	03/10/25 01:53	GLN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465830	200	03/11/25 05:58	03/11/25 05:58	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2466661	1	03/14/25 15:53	03/20/25 01:05	TJD	Mt. Juliet, TN

01MW93(030525) L1833588-09 GW

				Collected by Michelle N	Collected date/time 03/05/25 10:15	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2467321	1	03/12/25 23:37	03/12/25 23:37	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2464794	1	03/13/25 05:09	03/13/25 05:09	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2464972	1	03/08/25 21:25	03/08/25 21:25	BMD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465124	1	03/08/25 20:08	03/10/25 11:47	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465138	1	03/10/25 01:30	03/10/25 17:30	LD	Mt. Juliet, TN

SAMPLE SUMMARY

01MW93(030525) L1833588-09 GW

				Collected by Michelle N	Collected date/time 03/05/25 10:15	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2466096	1	03/11/25 12:36	03/11/25 12:36	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465596	25	03/10/25 06:54	03/10/25 06:54	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2466696	1	03/14/25 15:57	03/19/25 09:34	JDJ	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

01MW95(030525) L1833588-10 GW

				Collected by Michelle N	Collected date/time 03/05/25 11:35	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2467321	1	03/12/25 23:39	03/12/25 23:39	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2464794	1	03/13/25 06:51	03/13/25 06:51	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2464794	5	03/13/25 07:03	03/13/25 07:03	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2464972	1	03/08/25 21:45	03/08/25 21:45	BMD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465124	1	03/08/25 20:08	03/10/25 11:51	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465138	1	03/10/25 01:30	03/10/25 17:34	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465722	1	03/10/25 15:35	03/10/25 15:35	GLN	Mt. Juliet, TN

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Is

⁸ Gl

MW-BN-04(030525) L1833588-11 GW

				Collected by Michelle N	Collected date/time 03/05/25 12:15	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9060A	WG2464972	1	03/08/25 22:05	03/08/25 22:05	BMD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2466096	1	03/11/25 12:57	03/11/25 12:57	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2469333	1	03/14/25 16:30	03/14/25 16:30	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2467552	1	03/13/25 16:19	03/14/25 00:57	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2465723	1	03/11/25 05:44	03/13/25 15:05	MBE	Mt. Juliet, TN

⁹ Al

¹⁰ Sc

01MW98(030525) L1833588-12 GW

				Collected by Michelle N	Collected date/time 03/05/25 14:05	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2467321	1	03/12/25 23:42	03/12/25 23:42	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2464794	1	03/13/25 05:21	03/13/25 05:21	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2464972	1	03/08/25 22:26	03/08/25 22:26	BMD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465124	1	03/08/25 20:08	03/10/25 11:54	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465138	1	03/10/25 01:30	03/10/25 17:37	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2466096	20	03/11/25 13:18	03/11/25 13:18	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465596	20	03/10/25 07:15	03/10/25 07:15	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2465524	1	03/09/25 18:41	03/12/25 08:20	MAA	Mt. Juliet, TN

MW-BN-01(030525) L1833588-13 GW

				Collected by Michelle N	Collected date/time 03/05/25 15:30	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2467321	1	03/12/25 23:44	03/12/25 23:44	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2464794	1	03/13/25 07:16	03/13/25 07:16	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2464972	1	03/08/25 22:46	03/08/25 22:46	BMD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465124	1	03/08/25 20:08	03/10/25 11:57	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465138	1	03/10/25 01:30	03/10/25 17:40	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2466168	1	03/11/25 00:06	03/11/25 00:06	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465722	1	03/10/25 15:54	03/10/25 15:54	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2467552	1	03/13/25 16:19	03/14/25 01:20	MAA	Mt. Juliet, TN

SAMPLE SUMMARY

01MW92(030525) L1833588-14 GW

				Collected by Michelle N	Collected date/time 03/05/25 16:30	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2467321	1	03/12/25 23:47	03/12/25 23:47	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2464794	1	03/13/25 07:29	03/13/25 07:29	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2464972	1	03/08/25 23:06	03/08/25 23:06	BMD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465124	1	03/08/25 20:08	03/10/25 12:00	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2465138	1	03/10/25 01:30	03/10/25 17:43	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2466168	5	03/11/25 00:26	03/11/25 00:26	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465596	20	03/10/25 07:37	03/10/25 07:37	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2467552	1	03/13/25 16:19	03/14/25 01:44	MAA	Mt. Juliet, TN



EB-01(030525) L1833588-15 GW

				Collected by Michelle N	Collected date/time 03/05/25 15:45	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2465785	1	03/10/25 10:56	03/10/25 10:56	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465722	1	03/10/25 13:20	03/10/25 13:20	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2467552	1	03/13/25 16:19	03/20/25 15:20	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2465723	1	03/11/25 05:44	03/13/25 11:28	MBE	Mt. Juliet, TN

WASTE-GW-01(030525) L1833588-16 GW

				Collected by Michelle N	Collected date/time 03/05/25 17:35	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465596	20	03/10/25 07:58	03/10/25 07:58	GLN	Mt. Juliet, TN

TB-01(030625) L1833588-17 GW

				Collected by Michelle N	Collected date/time 03/06/25 00:00	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465722	1	03/10/25 12:03	03/10/25 12:03	GLN	Mt. Juliet, TN

TB-02(030625) L1833588-18 GW

				Collected by Michelle N	Collected date/time 03/06/25 00:00	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465722	1	03/10/25 12:23	03/10/25 12:23	GLN	Mt. Juliet, TN

TB-03(030625) L1833588-19 GW

				Collected by Michelle N	Collected date/time 03/06/25 00:00	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465722	1	03/10/25 12:42	03/10/25 12:42	GLN	Mt. Juliet, TN

TB-04(030625) L1833588-20 GW

				Collected by Michelle N	Collected date/time 03/06/25 00:00	Received date/time 03/07/25 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2465722	1	03/10/25 13:01	03/10/25 13:01	GLN	Mt. Juliet, TN

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.



Andi R Jones
Project Manager

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
L1833588-01	MW-BN-02(030325)	6020B
L1833588-03	01MW97(030325)	6020B
L1833588-04	01MW94(030425)	6020B
L1833588-05	MW-BN-06(030425)	6020B
L1833588-06	MW-BN-07(030425)	6020B
L1833588-07	MW-BN-03(030425)	6020B
L1833588-09	01MW93(030525)	6020B
L1833588-10	01MW95(030525)	6020B
L1833588-12	01MW98(030525)	6020B
L1833588-13	MW-BN-01(030525)	6020B
L1833588-14	01MW92(030525)	6020B
R4184701-3		6020B

Analyzed from headspace vial.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
L1833588-08	MW-DUP-01(030425)	8260D



Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	63.0	J	43.5	200	1	03/12/2025 23:02	WG2467321

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	3240		547	1000	1	03/13/2025 03:26	WG2464794
Sulfate	12800		637	5000	1	03/13/2025 03:26	WG2464794

6 Qc

7 Is

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2170		495	1000	1	03/08/2025 17:27	WG2464972

8 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	110		22.6	100	1	03/10/2025 11:13	WG2465124
Iron,Dissolved	U		22.6	100	1	03/10/2025 17:07	WG2465138
Manganese	14.1		0.700	5.00	1	03/10/2025 11:13	WG2465124
Manganese,Dissolved	8.99		0.700	5.00	1	03/10/2025 17:07	WG2465138

9 Al

10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/10/2025 11:17	WG2465785
(S) a,a,a-Trifluorotoluene(FID)	100			78.0-120		03/10/2025 11:17	WG2465785

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/10/2025 14:17	WG2465722
1,2-Dichloroethane	U		0.0190	0.100	1	03/10/2025 14:17	WG2465722
1,1-Dichloroethene	U		0.0200	0.100	1	03/10/2025 14:17	WG2465722
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/10/2025 14:17	WG2465722
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/10/2025 14:17	WG2465722
Tetrachloroethene	U		0.0280	0.100	1	03/10/2025 14:17	WG2465722
Trichloroethene	U		0.0160	0.0400	1	03/10/2025 14:17	WG2465722
Vinyl chloride	U		0.0273	0.100	1	03/10/2025 14:17	WG2465722
(S) Toluene-d8	93.2			75.0-131		03/10/2025 14:17	WG2465722
(S) 4-Bromofluorobenzene	107			67.0-138		03/10/2025 14:17	WG2465722
(S) 1,2-Dichloroethane-d4	119			70.0-130		03/10/2025 14:17	WG2465722

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		60.5	200	1	03/14/2025 14:00	WG2466659
Residual Range Organics (RRO)	U		77.2	250	1	03/14/2025 14:00	WG2466659
(S) o-Terphenyl	125			52.0-156		03/14/2025 14:00	WG2466659

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	5910		547	1000	1	03/13/2025 04:05	WG2464794
Sulfate	U		637	5000	1	03/13/2025 04:05	WG2464794

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	17700		495	1000	1	03/08/2025 17:48	WG2464972

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	291	B	31.6	100	1	03/10/2025 11:38	WG2465785
(S) <i>a,a</i> -Trifluorotoluene(FID)	98.4			78.0-120		03/10/2025 11:38	WG2465785

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	11.7		0.0160	0.0400	1	03/10/2025 14:37	WG2465722
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/10/2025 14:37	WG2465722
1,2-Dichloroethane	U		0.0190	0.100	1	03/10/2025 14:37	WG2465722
1,1-Dichloroethene	U		0.0200	0.100	1	03/10/2025 14:37	WG2465722
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/10/2025 14:37	WG2465722
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/10/2025 14:37	WG2465722
Ethylbenzene	3.58		0.0212	0.100	1	03/10/2025 14:37	WG2465722
Tetrachloroethene	U		0.0280	0.100	1	03/10/2025 14:37	WG2465722
Toluene	0.159	J	0.0500	0.200	1	03/10/2025 14:37	WG2465722
Trichloroethene	U		0.0160	0.0400	1	03/10/2025 14:37	WG2465722
Vinyl chloride	U		0.0273	0.100	1	03/10/2025 14:37	WG2465722
Xylenes, Total	0.860		0.191	0.260	1	03/10/2025 14:37	WG2465722
(S) <i>Toluene-d8</i>	89.8			75.0-131		03/10/2025 14:37	WG2465722
(S) <i>4-Bromofluorobenzene</i>	108			67.0-138		03/10/2025 14:37	WG2465722
(S) <i>1,2-Dichloroethane-d4</i>	118			70.0-130		03/10/2025 14:37	WG2465722

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	6560		60.5	200	1	03/14/2025 14:41	WG2466659
Residual Range Organics (RRO)	1850		77.2	250	1	03/14/2025 14:41	WG2466659
(S) <i>o</i> -Terphenyl	77.4			52.0-156		03/14/2025 14:41	WG2466659

Sample Narrative:

L1833588-02 WG2466659: Sample resembles laboratory standard for Hydraulic Fluid.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Pentachlorophenol	U	J4	0.313	1.00	1	03/10/2025 23:19	WG2465290
(S) <i>2-Fluorophenol</i>	23.4			10.0-120		03/10/2025 23:19	WG2465290
(S) <i>Phenol-d5</i>	17.8			10.0-120		03/10/2025 23:19	WG2465290
(S) <i>Nitrobenzene-d5</i>	47.6			10.0-127		03/10/2025 23:19	WG2465290
(S) <i>2-Fluorobiphenyl</i>	39.5			10.0-130		03/10/2025 23:19	WG2465290
(S) <i>2,4,6-Tribromophenol</i>	58.2			10.0-155		03/10/2025 23:19	WG2465290

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) p-Terphenyl-d14	56.3			10.0-128		03/10/2025 23:19	WG2465290

Sample Narrative:

L1833588-02 WG2465290: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

01MW97(030325)

Collected date/time: 03/03/25 16:45

SAMPLE RESULTS - 03

L1833588

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	58.0	J	43.5	200	1	03/12/2025 23:09	WG2467321

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	U		547	1000	1	03/13/2025 04:17	WG2464794
Sulfate	3570	J	637	5000	1	03/13/2025 04:17	WG2464794

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3930		495	1000	1	03/08/2025 18:08	WG2464972

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	120		22.6	100	1	03/10/2025 11:16	WG2465124
Iron,Dissolved	37.9	J	22.6	100	1	03/10/2025 17:10	WG2465138
Manganese	17.8		0.700	5.00	1	03/10/2025 11:16	WG2465124
Manganese,Dissolved	1.17	J	0.700	5.00	1	03/10/2025 17:10	WG2465138

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/10/2025 11:59	WG2465785
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	100			78.0-120		03/10/2025 11:59	WG2465785

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/10/2025 14:56	WG2465722
1,2-Dichloroethane	U		0.0190	0.100	1	03/10/2025 14:56	WG2465722
1,1-Dichloroethene	U		0.0200	0.100	1	03/10/2025 14:56	WG2465722
cis-1,2-Dichloroethene	0.823		0.0276	0.100	1	03/10/2025 14:56	WG2465722
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/10/2025 14:56	WG2465722
Tetrachloroethene	U		0.0280	0.100	1	03/10/2025 14:56	WG2465722
Trichloroethene	1.34		0.0160	0.0400	1	03/10/2025 14:56	WG2465722
Vinyl chloride	U		0.0273	0.100	1	03/10/2025 14:56	WG2465722
(S) Toluene-d8	89.9			75.0-131		03/10/2025 14:56	WG2465722
(S) 4-Bromofluorobenzene	104			67.0-138		03/10/2025 14:56	WG2465722
(S) 1,2-Dichloroethane-d4	119			70.0-130		03/10/2025 14:56	WG2465722

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		60.5	200	1	03/14/2025 15:22	WG2466659
Residual Range Organics (RRO)	205	J	77.2	250	1	03/14/2025 15:22	WG2466659
(S) <i>o</i> -Terphenyl	109			52.0-156		03/14/2025 15:22	WG2466659



01MW94(030425)

Collected date/time: 03/04/25 09:10

SAMPLE RESULTS - 04

L1833588

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		43.5	200	1	03/12/2025 23:11	WG2467321

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	11200		547	1000	1	03/13/2025 04:30	WG2464794
Sulfate	4320	J	637	5000	1	03/13/2025 04:30	WG2464794

6 Qc

7 Is

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4530		495	1000	1	03/08/2025 19:05	WG2464972

8 Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1180		22.6	100	1	03/10/2025 11:19	WG2465124
Iron,Dissolved	U		22.6	100	1	03/10/2025 17:13	WG2465138
Manganese	838		0.700	5.00	1	03/10/2025 11:19	WG2465124
Manganese,Dissolved	756		0.700	5.00	1	03/10/2025 17:13	WG2465138

9 Al

10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/10/2025 12:20	WG2465785
(S) a,a,a-Trifluorotoluene(FID)	100			78.0-120		03/10/2025 12:20	WG2465785

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/10/2025 15:15	WG2465722
1,2-Dichloroethane	U		0.0190	0.100	1	03/10/2025 15:15	WG2465722
1,1-Dichloroethene	U		0.0200	0.100	1	03/10/2025 15:15	WG2465722
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/10/2025 15:15	WG2465722
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/10/2025 15:15	WG2465722
Tetrachloroethene	U		0.0280	0.100	1	03/10/2025 15:15	WG2465722
Trichloroethene	U		0.0160	0.0400	1	03/10/2025 15:15	WG2465722
Vinyl chloride	0.187		0.0273	0.100	1	03/10/2025 15:15	WG2465722
(S) Toluene-d8	89.9			75.0-131		03/10/2025 15:15	WG2465722
(S) 4-Bromofluorobenzene	107			67.0-138		03/10/2025 15:15	WG2465722
(S) 1,2-Dichloroethane-d4	121			70.0-130		03/10/2025 15:15	WG2465722

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	845		60.5	200	1	03/20/2025 00:42	WG2466661
Residual Range Organics (RRO)	441		77.2	250	1	03/20/2025 00:42	WG2466661
(S) o-Terphenyl	98.4			52.0-156		03/20/2025 00:42	WG2466661

Sample Narrative:

L1833588-04 WG2466661: Sample resembles laboratory standards for Diesel and Motor Oil.

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		43.5	200	1	03/12/2025 23:14	WG2467321

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	16700		547	1000	1	03/13/2025 04:43	WG2464794
Sulfate	29800		637	5000	1	03/13/2025 04:43	WG2464794

6 Qc

7 Is

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5310		495	1000	1	03/08/2025 19:44	WG2464972

8 Gl

9 Al

10 Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1430		22.6	100	1	03/10/2025 11:23	WG2465124
Iron,Dissolved	U		22.6	100	1	03/10/2025 17:16	WG2465138
Manganese	1100		0.700	5.00	1	03/10/2025 11:23	WG2465124
Manganese,Dissolved	1000		0.700	5.00	1	03/10/2025 17:16	WG2465138

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/10/2025 12:41	WG2465785
(S) a,a,a-Trifluorotoluene(FID)	100			78.0-120		03/10/2025 12:41	WG2465785

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/13/2025 23:25	WG2468880
1,2-Dichloroethane	U		0.0190	0.100	1	03/13/2025 23:25	WG2468880
1,1-Dichloroethene	U		0.0200	0.100	1	03/13/2025 23:25	WG2468880
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/13/2025 23:25	WG2468880
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/13/2025 23:25	WG2468880
Tetrachloroethene	U		0.0280	0.100	1	03/13/2025 23:25	WG2468880
Trichloroethene	U		0.0160	0.0400	1	03/13/2025 23:25	WG2468880
Vinyl chloride	U		0.0273	0.100	1	03/13/2025 23:25	WG2468880
(S) Toluene-d8	109			75.0-131		03/13/2025 23:25	WG2468880
(S) 4-Bromofluorobenzene	90.3			67.0-138		03/13/2025 23:25	WG2468880
(S) 1,2-Dichloroethane-d4	116			70.0-130		03/13/2025 23:25	WG2468880

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	1210		60.5	200	1	03/12/2025 06:50	WG2465524
Residual Range Organics (RRO)	427		77.2	250	1	03/12/2025 06:50	WG2465524
(S) o-Terphenyl	118			52.0-156		03/12/2025 06:50	WG2465524

Sample Narrative:

L1833588-05 WG2465524: Sample resembles laboratory standard for Hydraulic Fluid.

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		43.5	200	1	03/12/2025 23:16	WG2467321

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	4920		547	1000	1	03/13/2025 06:00	WG2464794
Sulfate	39500		637	5000	1	03/13/2025 06:00	WG2464794

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5400		495	1000	1	03/08/2025 20:04	WG2464972

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	381		22.6	100	1	03/10/2025 10:57	WG2465124
Iron,Dissolved	U		22.6	100	1	03/10/2025 16:54	WG2465138
Manganese	252		0.700	5.00	1	03/10/2025 10:57	WG2465124
Manganese,Dissolved	183		0.700	5.00	1	03/10/2025 16:54	WG2465138

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	289		31.6	100	1	03/11/2025 11:53	WG2466096
(S) a,a,a-Trifluorotoluene(FID)	100			78.0-120		03/11/2025 11:53	WG2466096

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
trans-1,4-Dichloro-2-butene	U		0.467	2.50	1	03/10/2025 01:32	WG2465596
1,2-Dichloroethane	U		0.0819	1.00	1	03/10/2025 01:32	WG2465596
1,1-Dichloroethene	0.567	J	0.188	1.00	1	03/10/2025 01:32	WG2465596
cis-1,2-Dichloroethene	77.3		0.126	1.00	1	03/10/2025 01:32	WG2465596
trans-1,2-Dichloroethene	64.8		0.149	1.00	1	03/10/2025 01:32	WG2465596
Tetrachloroethene	U		0.300	1.00	1	03/10/2025 01:32	WG2465596
Trichloroethene	14.0	J	9.50	50.0	50	03/11/2025 03:15	WG2465830
Vinyl chloride	1.38		0.234	1.00	1	03/10/2025 01:32	WG2465596
(S) Toluene-d8	101			80.0-120		03/10/2025 01:32	WG2465596
(S) Toluene-d8	91.6			80.0-120		03/11/2025 03:15	WG2465830
(S) 4-Bromofluorobenzene	89.1			77.0-126		03/10/2025 01:32	WG2465596
(S) 4-Bromofluorobenzene	104			77.0-126		03/11/2025 03:15	WG2465830
(S) 1,2-Dichloroethane-d4	108			70.0-130		03/10/2025 01:32	WG2465596
(S) 1,2-Dichloroethane-d4	106			70.0-130		03/11/2025 03:15	WG2465830

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1020		60.5	200	1	03/12/2025 07:12	WG2465524
Residual Range Organics (RRO)	859		77.2	250	1	03/12/2025 07:12	WG2465524
(S) o-Terphenyl	119			52.0-156		03/12/2025 07:12	WG2465524

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	

Sample Narrative:

L1833588-06 WG2465524: Sample resembles laboratory standard for Hydraulic Fluid.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		43.5	200	1	03/12/2025 23:35	WG2467321

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	9580		547	1000	1	03/13/2025 04:56	WG2464794
Sulfate	41700		637	5000	1	03/13/2025 04:56	WG2464794

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7900		495	1000	1	03/08/2025 21:06	WG2464972

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2160		22.6	100	1	03/10/2025 11:44	WG2465124
Iron,Dissolved	U		22.6	100	1	03/10/2025 17:27	WG2465138
Manganese	705		0.700	5.00	1	03/10/2025 11:44	WG2465124
Manganese,Dissolved	646		0.700	5.00	1	03/10/2025 17:27	WG2465138

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	5.93	J	4.71	50.0	50	03/10/2025 06:32	WG2465596
trans-1,4-Dichloro-2-butene	U		23.4	125	50	03/10/2025 06:32	WG2465596
1,2-Dichloroethane	U		4.09	50.0	50	03/10/2025 06:32	WG2465596
1,1-Dichloroethene	U		9.40	50.0	50	03/10/2025 06:32	WG2465596
cis-1,2-Dichloroethene	466		6.30	50.0	50	03/10/2025 06:32	WG2465596
trans-1,2-Dichloroethene	68.7		7.45	50.0	50	03/10/2025 06:32	WG2465596
Ethylbenzene	U		6.85	50.0	50	03/10/2025 06:32	WG2465596
Tetrachloroethene	U		15.0	50.0	50	03/10/2025 06:32	WG2465596
Toluene	U		13.9	50.0	50	03/10/2025 06:32	WG2465596
Trichloroethene	4090		9.50	50.0	50	03/10/2025 06:32	WG2465596
Vinyl chloride	U		11.7	50.0	50	03/10/2025 06:32	WG2465596
Xylenes, Total	U		8.70	150	50	03/10/2025 06:32	WG2465596
(S) Toluene-d8	103			80.0-120		03/10/2025 06:32	WG2465596
(S) 4-Bromofluorobenzene	94.6			77.0-126		03/10/2025 06:32	WG2465596
(S) 1,2-Dichloroethane-d4	114			70.0-130		03/10/2025 06:32	WG2465596

Sample Narrative:

L1833588-07 WG2465596: Target compound too high to run at a lower dilution.



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1170		31.6	100	1	03/11/2025 12:14	WG2466096
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120		03/11/2025 12:14	WG2466096

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	6.21		0.0941	1.00	1	03/10/2025 01:53	WG2465596
trans-1,4-Dichloro-2-butene	U		0.467	2.50	1	03/10/2025 01:53	WG2465596
1,2-Dichloroethane	0.0961	J	0.0819	1.00	1	03/10/2025 01:53	WG2465596
1,1-Dichloroethene	5.13		0.188	1.00	1	03/10/2025 01:53	WG2465596
cis-1,2-Dichloroethene	486		25.2	200	200	03/11/2025 05:58	WG2465830
trans-1,2-Dichloroethene	75.4		0.149	1.00	1	03/10/2025 01:53	WG2465596
Ethylbenzene	U		0.137	1.00	1	03/10/2025 01:53	WG2465596
Tetrachloroethene	U		0.300	1.00	1	03/10/2025 01:53	WG2465596
Toluene	U		0.278	1.00	1	03/10/2025 01:53	WG2465596
Trichloroethene	3390		38.0	200	200	03/11/2025 05:58	WG2465830
Vinyl chloride	20.1		0.234	1.00	1	03/10/2025 01:53	WG2465596
Xylenes, Total	U		0.174	3.00	1	03/10/2025 01:53	WG2465596
(S) Toluene-d8	103			80.0-120		03/10/2025 01:53	WG2465596
(S) Toluene-d8	94.5			80.0-120		03/11/2025 05:58	WG2465830
(S) 4-Bromofluorobenzene	93.4			77.0-126		03/10/2025 01:53	WG2465596
(S) 4-Bromofluorobenzene	105			77.0-126		03/11/2025 05:58	WG2465830
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/10/2025 01:53	WG2465596
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/11/2025 05:58	WG2465830

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1940		60.5	200	1	03/20/2025 01:05	WG2466661
Residual Range Organics (RRO)	1090		77.2	250	1	03/20/2025 01:05	WG2466661
(S) o-Terphenyl	102			52.0-156		03/20/2025 01:05	WG2466661

Sample Narrative:

L1833588-08 WG2466661: Sample resembles laboratory standards for Diesel and Motor Oil.



01MW93(030525)

Collected date/time: 03/05/25 10:15

SAMPLE RESULTS - 09

L1833588

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		43.5	200	1	03/12/2025 23:37	WG2467321

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	9500		547	1000	1	03/13/2025 05:09	WG2464794
Sulfate	19900		637	5000	1	03/13/2025 05:09	WG2464794

6 Qc

7 Is

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6960		495	1000	1	03/08/2025 21:25	WG2464972

8 Gl

9 Al

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	124		22.6	100	1	03/10/2025 11:47	WG2465124
Iron,Dissolved	U		22.6	100	1	03/10/2025 17:30	WG2465138
Manganese	1270		0.700	5.00	1	03/10/2025 11:47	WG2465124
Manganese,Dissolved	1160		0.700	5.00	1	03/10/2025 17:30	WG2465138

10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	462		31.6	100	1	03/11/2025 12:36	WG2466096
(S) a,a,a-Trifluorotoluene(FID)	100			78.0-120		03/11/2025 12:36	WG2466096

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
trans-1,4-Dichloro-2-butene	U		11.7	62.5	25	03/10/2025 06:54	WG2465596
1,2-Dichloroethane	U		2.05	25.0	25	03/10/2025 06:54	WG2465596
1,1-Dichloroethene	U		4.70	25.0	25	03/10/2025 06:54	WG2465596
cis-1,2-Dichloroethene	118		3.15	25.0	25	03/10/2025 06:54	WG2465596
trans-1,2-Dichloroethene	24.4	J	3.73	25.0	25	03/10/2025 06:54	WG2465596
Tetrachloroethene	U		7.50	25.0	25	03/10/2025 06:54	WG2465596
Trichloroethene	1170		4.75	25.0	25	03/10/2025 06:54	WG2465596
Vinyl chloride	U		5.85	25.0	25	03/10/2025 06:54	WG2465596
(S) Toluene-d8	104			80.0-120		03/10/2025 06:54	WG2465596
(S) 4-Bromofluorobenzene	94.6			77.0-126		03/10/2025 06:54	WG2465596
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/10/2025 06:54	WG2465596

Sample Narrative:

L1833588-09 WG2465596: Target compound too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	1940		60.5	200	1	03/19/2025 09:34	WG2466696
Residual Range Organics (RRO)	831		77.2	250	1	03/19/2025 09:34	WG2466696
(S) o-Terphenyl	97.9			52.0-156		03/19/2025 09:34	WG2466696

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	

Sample Narrative:

L1833588-09 WG2466696: Sample resembles laboratory standard for Hydraulic Fluid.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		43.5	200	1	03/12/2025 23:39	WG2467321

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	8400		547	1000	1	03/13/2025 06:51	WG2464794
Sulfate	95300		3180	25000	5	03/13/2025 07:03	WG2464794

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4830		495	1000	1	03/08/2025 21:45	WG2464972

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2660		22.6	100	1	03/10/2025 11:51	WG2465124
Iron,Dissolved	U		22.6	100	1	03/10/2025 17:34	WG2465138
Manganese	1030		0.700	5.00	1	03/10/2025 11:51	WG2465124
Manganese,Dissolved	925		0.700	5.00	1	03/10/2025 17:34	WG2465138

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/10/2025 15:35	WG2465722
1,2-Dichloroethane	U		0.0190	0.100	1	03/10/2025 15:35	WG2465722
1,1-Dichloroethene	U		0.0200	0.100	1	03/10/2025 15:35	WG2465722
cis-1,2-Dichloroethene	0.123		0.0276	0.100	1	03/10/2025 15:35	WG2465722
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/10/2025 15:35	WG2465722
Tetrachloroethene	U		0.0280	0.100	1	03/10/2025 15:35	WG2465722
Trichloroethene	3.34		0.0160	0.0400	1	03/10/2025 15:35	WG2465722
Vinyl chloride	U		0.0273	0.100	1	03/10/2025 15:35	WG2465722
(S) Toluene-d8	89.3			75.0-131		03/10/2025 15:35	WG2465722
(S) 4-Bromofluorobenzene	105			67.0-138		03/10/2025 15:35	WG2465722
(S) 1,2-Dichloroethane-d4	118			70.0-130		03/10/2025 15:35	WG2465722

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	18900		495	1000	1	03/08/2025 22:05	WG2464972

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	337		31.6	100	1	03/11/2025 12:57	WG2466096
(S) a,a,a-Trifluorotoluene(FID)	96.3			78.0-120		03/11/2025 12:57	WG2466096

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	0.277		0.0160	0.0400	1	03/14/2025 16:30	WG2469333
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/14/2025 16:30	WG2469333
1,2-Dichloroethane	0.163		0.0190	0.100	1	03/14/2025 16:30	WG2469333
1,1-Dichloroethene	U		0.0200	0.100	1	03/14/2025 16:30	WG2469333
cis-1,2-Dichloroethene	0.358		0.0276	0.100	1	03/14/2025 16:30	WG2469333
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/14/2025 16:30	WG2469333
Ethylbenzene	0.0410	J	0.0212	0.100	1	03/14/2025 16:30	WG2469333
Tetrachloroethene	U		0.0280	0.100	1	03/14/2025 16:30	WG2469333
Toluene	U		0.0500	0.200	1	03/14/2025 16:30	WG2469333
Trichloroethene	0.312		0.0160	0.0400	1	03/14/2025 16:30	WG2469333
Vinyl chloride	U		0.0273	0.100	1	03/14/2025 16:30	WG2469333
Xylenes, Total	U		0.191	0.260	1	03/14/2025 16:30	WG2469333
(S) Toluene-d8	86.4			75.0-131		03/14/2025 16:30	WG2469333
(S) 4-Bromofluorobenzene	82.4			67.0-138		03/14/2025 16:30	WG2469333
(S) 1,2-Dichloroethane-d4	106			70.0-130		03/14/2025 16:30	WG2469333

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	6700		60.5	200	1	03/14/2025 00:57	WG2467552
Residual Range Organics (RRO)	3080		77.2	250	1	03/14/2025 00:57	WG2467552
(S) o-Terphenyl	97.9			52.0-156		03/14/2025 00:57	WG2467552

Sample Narrative:

L1833588-11 WG2467552: Sample resembles laboratory standard for Hydraulic Fluid.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Pentachlorophenol	U		0.313	1.00	1	03/13/2025 15:05	WG2465723
(S) 2-Fluorophenol	25.5			10.0-120		03/13/2025 15:05	WG2465723
(S) Phenol-d5	18.8			10.0-120		03/13/2025 15:05	WG2465723
(S) Nitrobenzene-d5	57.7			10.0-127		03/13/2025 15:05	WG2465723
(S) 2-Fluorobiphenyl	57.1			10.0-130		03/13/2025 15:05	WG2465723
(S) 2,4,6-Tribromophenol	74.7			10.0-155		03/13/2025 15:05	WG2465723
(S) p-Terphenyl-d14	62.9			10.0-128		03/13/2025 15:05	WG2465723



01MW98(030525)

Collected date/time: 03/05/25 14:05

SAMPLE RESULTS - 12

L1833588

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		43.5	200	1	03/12/2025 23:42	WG2467321

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1920		547	1000	1	03/13/2025 05:21	WG2464794
Sulfate	6370		637	5000	1	03/13/2025 05:21	WG2464794

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	9120		495	1000	1	03/08/2025 22:26	WG2464972

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	245		22.6	100	1	03/10/2025 11:54	WG2465124
Iron,Dissolved	U		22.6	100	1	03/10/2025 17:37	WG2465138
Manganese	299		0.700	5.00	1	03/10/2025 11:54	WG2465124
Manganese,Dissolved	220		0.700	5.00	1	03/10/2025 17:37	WG2465138

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	710	J	632	2000	20	03/11/2025 13:18	WG2466096
(S) a,a,a-Trifluorotoluene(FID)	100			78.0-120		03/11/2025 13:18	WG2466096

Sample Narrative:

L1833588-12 WG2466096: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
trans-1,4-Dichloro-2-butene	U		9.34	50.0	20	03/10/2025 07:15	WG2465596
1,2-Dichloroethane	U		1.64	20.0	20	03/10/2025 07:15	WG2465596
1,1-Dichloroethene	U		3.76	20.0	20	03/10/2025 07:15	WG2465596
cis-1,2-Dichloroethene	170		2.52	20.0	20	03/10/2025 07:15	WG2465596
trans-1,2-Dichloroethene	U		2.98	20.0	20	03/10/2025 07:15	WG2465596
Tetrachloroethene	U		6.00	20.0	20	03/10/2025 07:15	WG2465596
Trichloroethene	297		3.80	20.0	20	03/10/2025 07:15	WG2465596
Vinyl chloride	U		4.68	20.0	20	03/10/2025 07:15	WG2465596
(S) Toluene-d8	102			80.0-120		03/10/2025 07:15	WG2465596
(S) 4-Bromofluorobenzene	94.4			77.0-126		03/10/2025 07:15	WG2465596
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/10/2025 07:15	WG2465596

Sample Narrative:

L1833588-12 WG2465596: Elevated RL due to foamy matrix.



Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	2430		60.5	200	1	03/12/2025 08:20	WG2465524
Residual Range Organics (RRO)	1780		77.2	250	1	03/12/2025 08:20	WG2465524
(S) o-Terphenyl	124			52.0-156		03/12/2025 08:20	WG2465524

Sample Narrative:

L1833588-12 WG2465524: Sample resembles laboratory standard for Hydraulic Fluid.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	1020		43.5	200	1	03/12/2025 23:44	WG2467321

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1320		547	1000	1	03/13/2025 07:16	WG2464794
Sulfate	12900		637	5000	1	03/13/2025 07:16	WG2464794

6 Qc

7 Is

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	8300		495	1000	1	03/08/2025 22:46	WG2464972

8 Gl

9 Al

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	87.1	J	22.6	100	1	03/10/2025 11:57	WG2465124
Iron,Dissolved	27.4	J	22.6	100	1	03/10/2025 17:40	WG2465138
Manganese	4.95	J	0.700	5.00	1	03/10/2025 11:57	WG2465124
Manganese,Dissolved	3.14	J	0.700	5.00	1	03/10/2025 17:40	WG2465138

10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	33.2	B J	31.6	100	1	03/11/2025 00:06	WG2466168
(S) a,a,a-Trifluorotoluene(FID)	100			78.0-120		03/11/2025 00:06	WG2466168

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/10/2025 15:54	WG2465722
1,2-Dichloroethane	U		0.0190	0.100	1	03/10/2025 15:54	WG2465722
1,1-Dichloroethene	U		0.0200	0.100	1	03/10/2025 15:54	WG2465722
cis-1,2-Dichloroethene	0.896		0.0276	0.100	1	03/10/2025 15:54	WG2465722
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/10/2025 15:54	WG2465722
Tetrachloroethene	U		0.0280	0.100	1	03/10/2025 15:54	WG2465722
Trichloroethene	28.4		0.0160	0.0400	1	03/10/2025 15:54	WG2465722
Vinyl chloride	U		0.0273	0.100	1	03/10/2025 15:54	WG2465722
(S) Toluene-d8	89.8			75.0-131		03/10/2025 15:54	WG2465722
(S) 4-Bromofluorobenzene	103			67.0-138		03/10/2025 15:54	WG2465722
(S) 1,2-Dichloroethane-d4	132	J1		70.0-130		03/10/2025 15:54	WG2465722

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	924		60.5	200	1	03/14/2025 01:20	WG2467552
Residual Range Organics (RRO)	1850		77.2	250	1	03/14/2025 01:20	WG2467552
(S) o-Terphenyl	88.9			52.0-156		03/14/2025 01:20	WG2467552

Sample Narrative:

L1833588-13 WG2467552: Sample resembles laboratory standard for Hydraulic Fluid.

01MW92(030525)

Collected date/time: 03/05/25 16:30

SAMPLE RESULTS - 14

L1833588

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	312		43.5	200	1	03/12/2025 23:47	WG2467321

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	5660		547	1000	1	03/13/2025 07:29	WG2464794
Sulfate	8680		637	5000	1	03/13/2025 07:29	WG2464794

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7870		495	1000	1	03/08/2025 23:06	WG2464972

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	747		22.6	100	1	03/10/2025 12:00	WG2465124
Iron,Dissolved	U		22.6	100	1	03/10/2025 17:43	WG2465138
Manganese	680		0.700	5.00	1	03/10/2025 12:00	WG2465124
Manganese,Dissolved	625		0.700	5.00	1	03/10/2025 17:43	WG2465138

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	568	B	158	500	5	03/11/2025 00:26	WG2466168
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120		03/11/2025 00:26	WG2466168

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		1.88	20.0	20	03/10/2025 07:37	WG2465596
trans-1,4-Dichloro-2-butene	U		9.34	50.0	20	03/10/2025 07:37	WG2465596
1,2-Dichloroethane	U		1.64	20.0	20	03/10/2025 07:37	WG2465596
1,1-Dichloroethene	U		3.76	20.0	20	03/10/2025 07:37	WG2465596
cis-1,2-Dichloroethene	220		2.52	20.0	20	03/10/2025 07:37	WG2465596
trans-1,2-Dichloroethene	89.8		2.98	20.0	20	03/10/2025 07:37	WG2465596
Ethylbenzene	U		2.74	20.0	20	03/10/2025 07:37	WG2465596
Tetrachloroethene	U		6.00	20.0	20	03/10/2025 07:37	WG2465596
Toluene	U		5.56	20.0	20	03/10/2025 07:37	WG2465596
Trichloroethene	1260		3.80	20.0	20	03/10/2025 07:37	WG2465596
Vinyl chloride	U		4.68	20.0	20	03/10/2025 07:37	WG2465596
Xylenes, Total	U		3.48	60.0	20	03/10/2025 07:37	WG2465596
(S) Toluene-d8	98.8			80.0-120		03/10/2025 07:37	WG2465596
(S) 4-Bromofluorobenzene	94.3			77.0-126		03/10/2025 07:37	WG2465596
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/10/2025 07:37	WG2465596

Sample Narrative:

L1833588-14 WG2465596: Target compound too high to run at a lower dilution



Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1970		60.5	200	1	03/14/2025 01:44	WG2467552
Residual Range Organics (RRO)	1630		77.2	250	1	03/14/2025 01:44	WG2467552
(S) o-Terphenyl	90.5			52.0-156		03/14/2025 01:44	WG2467552

Sample Narrative:

L1833588-14 WG2467552: Sample resembles laboratory standard for Hydraulic Fluid.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	55.6	B J	31.6	100	1	03/10/2025 10:56	WG2465785
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	99.7			78.0-120		03/10/2025 10:56	WG2465785

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0160	0.0400	1	03/10/2025 13:20	WG2465722
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/10/2025 13:20	WG2465722
1,2-Dichloroethane	U		0.0190	0.100	1	03/10/2025 13:20	WG2465722
1,1-Dichloroethene	U		0.0200	0.100	1	03/10/2025 13:20	WG2465722
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/10/2025 13:20	WG2465722
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/10/2025 13:20	WG2465722
Ethylbenzene	U		0.0212	0.100	1	03/10/2025 13:20	WG2465722
Tetrachloroethene	U		0.0280	0.100	1	03/10/2025 13:20	WG2465722
Toluene	U		0.0500	0.200	1	03/10/2025 13:20	WG2465722
Trichloroethene	U		0.0160	0.0400	1	03/10/2025 13:20	WG2465722
Vinyl chloride	U		0.0273	0.100	1	03/10/2025 13:20	WG2465722
Xylenes, Total	U		0.191	0.260	1	03/10/2025 13:20	WG2465722
(S) Toluene-d8	89.0			75.0-131		03/10/2025 13:20	WG2465722
(S) 4-Bromofluorobenzene	106			67.0-138		03/10/2025 13:20	WG2465722
(S) 1,2-Dichloroethane-d4	118			70.0-130		03/10/2025 13:20	WG2465722

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		60.5	200	1	03/20/2025 15:20	WG2467552
Residual Range Organics (RRO)	U		77.2	250	1	03/20/2025 15:20	WG2467552
(S) <i>o</i> -Terphenyl	88.9			52.0-156		03/20/2025 15:20	WG2467552

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Pentachlorophenol	U		0.313	1.00	1	03/13/2025 11:28	WG2465723
(S) 2-Fluorophenol	26.4			10.0-120		03/13/2025 11:28	WG2465723
(S) Phenol-d5	18.5			10.0-120		03/13/2025 11:28	WG2465723
(S) Nitrobenzene-d5	47.7			10.0-127		03/13/2025 11:28	WG2465723
(S) 2-Fluorobiphenyl	49.9			10.0-130		03/13/2025 11:28	WG2465723
(S) 2,4,6-Tribromophenol	48.8			10.0-155		03/13/2025 11:28	WG2465723
(S) <i>p</i> -Terphenyl-d14	62.4			10.0-128		03/13/2025 11:28	WG2465723



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		1.88	20.0	20	03/10/2025 07:58	WG2465596
trans-1,4-Dichloro-2-butene	U		9.34	50.0	20	03/10/2025 07:58	WG2465596
1,2-Dichloroethane	U		1.64	20.0	20	03/10/2025 07:58	WG2465596
1,1-Dichloroethene	U		3.76	20.0	20	03/10/2025 07:58	WG2465596
cis-1,2-Dichloroethene	30.5		2.52	20.0	20	03/10/2025 07:58	WG2465596
trans-1,2-Dichloroethene	10.1	J	2.98	20.0	20	03/10/2025 07:58	WG2465596
Ethylbenzene	U		2.74	20.0	20	03/10/2025 07:58	WG2465596
Tetrachloroethene	U		6.00	20.0	20	03/10/2025 07:58	WG2465596
Toluene	8.39	J	5.56	20.0	20	03/10/2025 07:58	WG2465596
Trichloroethene	201		3.80	20.0	20	03/10/2025 07:58	WG2465596
Vinyl chloride	U		4.68	20.0	20	03/10/2025 07:58	WG2465596
Xylenes, Total	U		3.48	60.0	20	03/10/2025 07:58	WG2465596
(S) Toluene-d8	98.7			80.0-120		03/10/2025 07:58	WG2465596
(S) 4-Bromofluorobenzene	96.0			77.0-126		03/10/2025 07:58	WG2465596
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/10/2025 07:58	WG2465596

Sample Narrative:

L1833588-16 WG2465596: Elevated RL due to foamy matrix.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0160	0.0400	1	03/10/2025 12:03	WG2465722
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/10/2025 12:03	WG2465722
1,2-Dichloroethane	U		0.0190	0.100	1	03/10/2025 12:03	WG2465722
1,1-Dichloroethene	U		0.0200	0.100	1	03/10/2025 12:03	WG2465722
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/10/2025 12:03	WG2465722
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/10/2025 12:03	WG2465722
Ethylbenzene	U		0.0212	0.100	1	03/10/2025 12:03	WG2465722
Tetrachloroethene	U		0.0280	0.100	1	03/10/2025 12:03	WG2465722
Toluene	U		0.0500	0.200	1	03/10/2025 12:03	WG2465722
Trichloroethene	U		0.0160	0.0400	1	03/10/2025 12:03	WG2465722
Vinyl chloride	U		0.0273	0.100	1	03/10/2025 12:03	WG2465722
Xylenes, Total	U		0.191	0.260	1	03/10/2025 12:03	WG2465722
(S) Toluene-d8	91.1			75.0-131		03/10/2025 12:03	WG2465722
(S) 4-Bromofluorobenzene	103			67.0-138		03/10/2025 12:03	WG2465722
(S) 1,2-Dichloroethane-d4	116			70.0-130		03/10/2025 12:03	WG2465722

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Is⁸ Gl⁹ Al¹⁰ Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0160	0.0400	1	03/10/2025 12:23	WG2465722
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/10/2025 12:23	WG2465722
1,2-Dichloroethane	U		0.0190	0.100	1	03/10/2025 12:23	WG2465722
1,1-Dichloroethene	U		0.0200	0.100	1	03/10/2025 12:23	WG2465722
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/10/2025 12:23	WG2465722
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/10/2025 12:23	WG2465722
Ethylbenzene	U		0.0212	0.100	1	03/10/2025 12:23	WG2465722
Tetrachloroethene	U		0.0280	0.100	1	03/10/2025 12:23	WG2465722
Toluene	U		0.0500	0.200	1	03/10/2025 12:23	WG2465722
Trichloroethene	U		0.0160	0.0400	1	03/10/2025 12:23	WG2465722
Vinyl chloride	U		0.0273	0.100	1	03/10/2025 12:23	WG2465722
Xylenes, Total	U		0.191	0.260	1	03/10/2025 12:23	WG2465722
(S) Toluene-d8	91.9			75.0-131		03/10/2025 12:23	WG2465722
(S) 4-Bromofluorobenzene	107			67.0-138		03/10/2025 12:23	WG2465722
(S) 1,2-Dichloroethane-d4	114			70.0-130		03/10/2025 12:23	WG2465722

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Is⁸ Gl⁹ Al¹⁰ Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0160	0.0400	1	03/10/2025 12:42	WG2465722
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/10/2025 12:42	WG2465722
1,2-Dichloroethane	U		0.0190	0.100	1	03/10/2025 12:42	WG2465722
1,1-Dichloroethene	U		0.0200	0.100	1	03/10/2025 12:42	WG2465722
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/10/2025 12:42	WG2465722
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/10/2025 12:42	WG2465722
Ethylbenzene	U		0.0212	0.100	1	03/10/2025 12:42	WG2465722
Tetrachloroethene	U		0.0280	0.100	1	03/10/2025 12:42	WG2465722
Toluene	U		0.0500	0.200	1	03/10/2025 12:42	WG2465722
Trichloroethene	U		0.0160	0.0400	1	03/10/2025 12:42	WG2465722
Vinyl chloride	U		0.0273	0.100	1	03/10/2025 12:42	WG2465722
Xylenes, Total	U		0.191	0.260	1	03/10/2025 12:42	WG2465722
(S) Toluene-d8	92.3			75.0-131		03/10/2025 12:42	WG2465722
(S) 4-Bromofluorobenzene	105			67.0-138		03/10/2025 12:42	WG2465722
(S) 1,2-Dichloroethane-d4	118			70.0-130		03/10/2025 12:42	WG2465722

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Is⁸ Gl⁹ Al¹⁰ Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0160	0.0400	1	03/10/2025 13:01	WG2465722
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/10/2025 13:01	WG2465722
1,2-Dichloroethane	U		0.0190	0.100	1	03/10/2025 13:01	WG2465722
1,1-Dichloroethene	U		0.0200	0.100	1	03/10/2025 13:01	WG2465722
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/10/2025 13:01	WG2465722
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/10/2025 13:01	WG2465722
Ethylbenzene	U		0.0212	0.100	1	03/10/2025 13:01	WG2465722
Tetrachloroethene	U		0.0280	0.100	1	03/10/2025 13:01	WG2465722
Toluene	U		0.0500	0.200	1	03/10/2025 13:01	WG2465722
Trichloroethene	U		0.0160	0.0400	1	03/10/2025 13:01	WG2465722
Vinyl chloride	U		0.0273	0.100	1	03/10/2025 13:01	WG2465722
Xylenes, Total	U		0.191	0.260	1	03/10/2025 13:01	WG2465722
(S) Toluene-d8	89.9			75.0-131		03/10/2025 13:01	WG2465722
(S) 4-Bromofluorobenzene	106			67.0-138		03/10/2025 13:01	WG2465722
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/10/2025 13:01	WG2465722

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Is⁸ Gl⁹ Al¹⁰ Sc

Method Blank (MB)

(MB) R4185896-1 03/12/25 22:58

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Nitrate-Nitrite	U		43.5	200

Laboratory Control Sample (LCS)

(LCS) R4185896-2 03/12/25 23:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Nitrate-Nitrite	2500	2540	101	90.0-110	

L1833588-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1833588-01 03/12/25 23:02 • (MS) R4185896-3 03/12/25 23:04 • (MSD) R4185896-4 03/12/25 23:07

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate-Nitrite	2500	63.0	2330	2680	90.6	105	1	90.0-110			14.1	20

L1833588-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1833588-06 03/12/25 23:16 • (MS) R4185896-5 03/12/25 23:18 • (MSD) R4185896-6 03/12/25 23:33

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate-Nitrite	2500	U	2530	2490	101	99.5	1	90.0-110			1.64	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4186112-1 03/13/25 00:38

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		547	1000
Sulfate	U		637	5000

L1833588-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1833588-01 03/13/25 03:26 • (DUP) R4186112-3 03/13/25 03:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	3240	3230	1	0.389		15
Sulfate	12800	12700	1	0.940		15

L1833588-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1833588-06 03/13/25 06:00 • (DUP) R4186112-5 03/13/25 06:12

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	4920	5030	1	2.25		15
Sulfate	39500	40500	1	2.43		15

Laboratory Control Sample (LCS)

(LCS) R4186112-2 03/13/25 00:51

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	39000	97.5	80.0-120	
Sulfate	40000	39700	99.4	80.0-120	

L1833588-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1833588-01 03/13/25 03:26 • (MS) R4186112-4 03/13/25 03:52

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	ug/l	ug/l	ug/l	%		%	
Chloride	40000	3240	43000	99.4	1	80.0-120	
Sulfate	40000	12800	50500	94.3	1	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

L1833588-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1833588-06 03/13/25 06:00 • (MS) R4186112-6 03/13/25 06:25 • (MSD) R4186112-7 03/13/25 06:38

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chloride	40000	4920	44100	43300	98.0	96.0	1	80.0-120			1.88	15
Sulfate	40000	39500	72500	71400	82.5	79.6	1	80.0-120		J6	1.61	15

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4184388-2 03/08/25 11:12

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	U		495	1000

L1832987-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1832987-01 03/08/25 15:26 • (DUP) R4184388-5 03/08/25 15:43

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	892	897	1	0.492	⌵	20

L1833588-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1833588-04 03/08/25 19:05 • (DUP) R4184388-6 03/08/25 19:25

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	4530	4520	1	0.199		20

Laboratory Control Sample (LCS)

(LCS) R4184388-1 03/08/25 10:52

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	25000	24400	97.8	85.0-115	

L1833588-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1833588-06 03/08/25 20:04 • (MS) R4184388-7 03/08/25 20:25 • (MSD) R4184388-8 03/08/25 20:46

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	5400	30600	30400	101	100	1	85.0-115			0.623	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4184500-1 03/10/25 10:50

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Iron	U		22.6	100
Manganese	U		0.700	5.00

Laboratory Control Sample (LCS)

(LCS) R4184500-2 03/10/25 10:53

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	1000	1030	103	80.0-120	
Manganese	50.0	51.2	102	80.0-120	

L1833588-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1833588-06 03/10/25 10:57 • (MS) R4184500-4 03/10/25 11:07 • (MSD) R4184500-5 03/10/25 11:10

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	1000	381	1380	1400	100	102	1	75.0-125			1.51	20
Manganese	50.0	252	298	298	92.3	90.6	1	75.0-125			0.294	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4184701-1 03/10/25 16:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron,Dissolved	U		22.6	100
Manganese,Dissolved	U		0.700	5.00

Laboratory Control Sample (LCS)

(LCS) R4184701-2 03/10/25 16:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron,Dissolved	1000	933	93.3	80.0-120	
Manganese,Dissolved	50.0	46.3	92.5	80.0-120	

L1833588-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1833588-06 03/10/25 16:54 • (MS) R4184701-4 03/10/25 17:00 • (MSD) R4184701-5 03/10/25 17:04

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron,Dissolved	1000	U	908	891	90.8	89.1	1	75.0-125			1.89	20
Manganese,Dissolved	50.0	183	228	228	90.0	89.9	1	75.0-125			0.0118	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4184687-3 03/10/25 09:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	51.6	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	99.8			78.0-120

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

(LCS) R4184687-1 03/10/25 08:39 • (LCSD) R4184687-2 03/10/25 09:00

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5000	4480	4240	89.6	84.8	70.0-124			5.50	20
(S) a,a,a-Trifluorotoluene(FID)				105	106	78.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4185263-3 03/11/25 11:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	100			78.0-120

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

(LCS) R4185263-1 03/11/25 09:37 • (LCSD) R4185263-2 03/11/25 09:58

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5000	4290	4480	85.8	89.6	70.0-124			4.33	20
(S) a,a,a-Trifluorotoluene(FID)				101	102	78.0-120				

L1833588-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1833588-06 03/11/25 11:53 • (MS) R4185263-4 03/11/25 13:39 • (MSD) R4185263-5 03/11/25 14:00

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5000	289	6670	6710	128	128	1	10.0-155			0.598	21
(S) a,a,a-Trifluorotoluene(FID)					102	102		78.0-120				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Is

8
Gl

9
Al

10
Sc

Method Blank (MB)

(MB) R4184878-3 03/10/25 22:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	36.9	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	99.6			78.0-120

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

(LCS) R4184878-1 03/10/25 19:43 • (LCSD) R4184878-2 03/10/25 21:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5000	4330	4290	86.6	85.8	70.0-124			0.928	20
(S) a,a,a-Trifluorotoluene(FID)				106	105	78.0-120				

L1833817-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1833817-01 03/11/25 02:32 • (MS) R4184878-4 03/11/25 07:03 • (MSD) R4184878-5 03/11/25 07:24

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5000	U	2110	1800	42.2	36.0	1	10.0-155			15.9	21
(S) a,a,a-Trifluorotoluene(FID)					96.7	97.9		78.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4184424-3 03/10/25 00:36

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
trans-1,4-Dichloro-2-butene	U		0.467	2.50
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
Ethylbenzene	U		0.137	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
Trichloroethene	U		0.190	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	99.2			80.0-120
(S) 4-Bromofluorobenzene	92.6			77.0-126
(S) 1,2-Dichloroethane-d4	108			70.0-130

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

(LCS) R4184424-1 03/09/25 23:32 • (LCSD) R4184424-2 03/09/25 23:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	5.17	4.91	103	98.2	70.0-123			5.16	20
trans-1,4-Dichloro-2-butene	5.00	6.39	6.25	128	125	33.0-144			2.22	20
1,2-Dichloroethane	5.00	5.34	5.19	107	104	70.0-128			2.85	20
1,1-Dichloroethene	5.00	4.27	4.03	85.4	80.6	71.0-124			5.78	20
cis-1,2-Dichloroethene	5.00	5.07	4.76	101	95.2	73.0-120			6.31	20
trans-1,2-Dichloroethene	5.00	4.84	4.31	96.8	86.2	73.0-120			11.6	20
Ethylbenzene	5.00	4.76	4.74	95.2	94.8	79.0-123			0.421	20
Tetrachloroethene	5.00	4.65	4.65	93.0	93.0	72.0-132			0.000	20
Toluene	5.00	5.10	4.94	102	98.8	79.0-120			3.19	20
Trichloroethene	5.00	4.53	4.71	90.6	94.2	78.0-124			3.90	20
Vinyl chloride	5.00	4.54	4.26	90.8	85.2	67.0-131			6.36	20
Xylenes, Total	15.0	15.0	14.3	100	95.3	79.0-123			4.78	20
(S) Toluene-d8				102	100	80.0-120				
(S) 4-Bromofluorobenzene				97.4	93.9	77.0-126				
(S) 1,2-Dichloroethane-d4				111	108	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

L1833588-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1833588-06 03/10/25 01:32 • (MS) R4184424-4 03/10/25 08:19 • (MSD) R4184424-5 03/10/25 08:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	0.118	4.93	5.16	96.2	101	1	17.0-158			4.56	27
trans-1,4-Dichloro-2-butene	5.00	U	5.63	4.88	113	97.6	1	10.0-157			14.3	37
1,2-Dichloroethane	5.00	U	5.33	5.32	107	106	1	29.0-151			0.188	27
1,1-Dichloroethene	5.00	0.567	6.03	5.43	109	97.3	1	11.0-160			10.5	29
cis-1,2-Dichloroethene	5.00	77.3	84.7	81.3	148	80.0	1	10.0-160			4.10	27
trans-1,2-Dichloroethene	5.00	64.8	71.0	68.7	124	78.0	1	17.0-153			3.29	27
Ethylbenzene	5.00	U	4.74	4.90	94.8	98.0	1	30.0-155			3.32	27
Tetrachloroethene	5.00	U	3.91	4.60	78.2	92.0	1	10.0-160			16.2	27
Toluene	5.00	U	4.76	4.90	95.2	98.0	1	26.0-154			2.90	28
Trichloroethene	5.00	623	643	614	400	0.000	1	10.0-160	EV	EV	4.61	25
Vinyl chloride	5.00	1.38	5.39	5.26	80.2	77.6	1	10.0-160			2.44	27
Xylenes, Total	15.0	U	13.6	15.1	90.7	101	1	29.0-154			10.5	28
(S) Toluene-d8					96.4	99.4		80.0-120				
(S) 4-Bromofluorobenzene					91.2	103		77.0-126				
(S) 1,2-Dichloroethane-d4					111	112		70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4185123-3 03/10/25 10:55

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0160	0.0400
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
Ethylbenzene	U		0.0212	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
Trichloroethene	U		0.0160	0.0400
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	90.6			75.0-131
(S) 4-Bromofluorobenzene	104			67.0-138
(S) 1,2-Dichloroethane-d4	113			70.0-130

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

(LCS) R4185123-1 03/10/25 09:38 • (LCSD) R4185123-2 03/10/25 09:57

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	5.55	5.34	111	107	70.0-123			3.86	20
trans-1,4-Dichloro-2-butene	5.00	3.86	4.55	77.2	91.0	45.0-143			16.4	20
1,2-Dichloroethane	5.00	5.84	5.61	117	112	65.0-131			4.02	20
1,1-Dichloroethene	5.00	6.10	5.80	122	116	65.0-131			5.04	20
cis-1,2-Dichloroethene	5.00	5.42	5.71	108	114	73.0-125			5.21	20
trans-1,2-Dichloroethene	5.00	5.87	5.50	117	110	71.0-125			6.51	20
Ethylbenzene	5.00	5.17	5.09	103	102	74.0-126			1.56	20
Tetrachloroethene	5.00	4.92	5.23	98.4	105	70.0-136			6.11	20
Toluene	5.00	4.76	4.79	95.2	95.8	75.0-121			0.628	20
Trichloroethene	5.00	5.89	5.46	118	109	76.0-126			7.58	20
Vinyl chloride	5.00	5.22	5.48	104	110	63.0-134			4.86	20
Xylenes, Total	15.0	15.4	15.5	103	103	72.0-127			0.647	20
(S) Toluene-d8				92.6	93.5	75.0-131				
(S) 4-Bromofluorobenzene				104	107	67.0-138				
(S) 1,2-Dichloroethane-d4				114	110	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4185101-3 03/10/25 20:35

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.126	1.00
Trichloroethene	U		0.190	1.00
(S) Toluene-d8	94.8			80.0-120
(S) 4-Bromofluorobenzene	108			77.0-126
(S) 1,2-Dichloroethane-d4	114			70.0-130

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

(LCS) R4185101-1 03/10/25 18:59 • (LCSD) R4185101-2 03/10/25 19:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	5.48	5.64	110	113	73.0-120			2.88	20
Trichloroethene	5.00	5.57	5.75	111	115	78.0-124			3.18	20
(S) Toluene-d8				88.8	91.3	80.0-120				
(S) 4-Bromofluorobenzene				104	107	77.0-126				
(S) 1,2-Dichloroethane-d4				128	124	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4186505-2 03/13/25 21:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
Tetrachloroethene	U		0.0280	0.100
Trichloroethene	U		0.0160	0.0400
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	104			75.0-131
(S) 4-Bromofluorobenzene	99.3			67.0-138
(S) 1,2-Dichloroethane-d4	120			70.0-130

Laboratory Control Sample (LCS)

(LCS) R4186505-1 03/13/25 20:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
trans-1,4-Dichloro-2-butene	5.00	4.50	90.0	45.0-143	
1,2-Dichloroethane	5.00	5.97	119	65.0-131	
1,1-Dichloroethene	5.00	5.33	107	65.0-131	
cis-1,2-Dichloroethene	5.00	5.08	102	73.0-125	
trans-1,2-Dichloroethene	5.00	4.88	97.6	71.0-125	
Tetrachloroethene	5.00	6.00	120	70.0-136	
Trichloroethene	5.00	5.02	100	76.0-126	
Vinyl chloride	5.00	4.41	88.2	63.0-134	
(S) Toluene-d8			103	75.0-131	
(S) 4-Bromofluorobenzene			92.7	67.0-138	
(S) 1,2-Dichloroethane-d4			114	70.0-130	

L1833588-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1833588-05 03/13/25 23:25 • (MS) R4186505-3 03/14/25 06:06 • (MSD) R4186505-4 03/14/25 06:26

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,4-Dichloro-2-butene	5.00	U	3.49	2.48	69.8	49.6	1	10.0-152			33.8	36
1,2-Dichloroethane	5.00	U	6.66	6.95	133	139	1	10.0-148			4.26	35
1,1-Dichloroethene	5.00	U	5.79	6.15	116	123	1	10.0-155			6.03	37
cis-1,2-Dichloroethene	5.00	U	5.42	5.80	108	116	1	10.0-149			6.77	37
trans-1,2-Dichloroethene	5.00	U	5.19	5.46	104	109	1	10.0-150			5.07	37

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

L1833588-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1833588-05 03/13/25 23:25 • (MS) R4186505-3 03/14/25 06:06 • (MSD) R4186505-4 03/14/25 06:26

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Tetrachloroethene	5.00	U	6.10	6.47	122	129	1	10.0-156			5.89	39
Trichloroethene	5.00	U	5.20	5.42	104	108	1	10.0-156			4.14	38
Vinyl chloride	5.00	U	5.09	5.10	102	102	1	10.0-160			0.196	37
(S) Toluene-d8					102	101		75.0-131				
(S) 4-Bromofluorobenzene					92.4	91.6		67.0-138				
(S) 1,2-Dichloroethane-d4					120	120		70.0-130				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4187129-3 03/14/25 11:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0160	0.0400
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
Ethylbenzene	U		0.0212	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
Trichloroethene	U		0.0160	0.0400
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	97.9			75.0-131
(S) 4-Bromofluorobenzene	88.4			67.0-138
(S) 1,2-Dichloroethane-d4	109			70.0-130

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

(LCS) R4187129-1 03/14/25 10:30 • (LCSD) R4187129-2 03/14/25 10:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	4.82	5.05	96.4	101	70.0-123			4.66	20
trans-1,4-Dichloro-2-butene	5.00	5.91	6.02	118	120	45.0-143			1.84	20
1,2-Dichloroethane	5.00	5.18	5.43	104	109	65.0-131			4.71	20
1,1-Dichloroethene	5.00	5.67	5.95	113	119	65.0-131			4.82	20
cis-1,2-Dichloroethene	5.00	4.57	4.96	91.4	99.2	73.0-125			8.18	20
trans-1,2-Dichloroethene	5.00	4.59	4.97	91.8	99.4	71.0-125			7.95	20
Ethylbenzene	5.00	4.45	4.62	89.0	92.4	74.0-126			3.75	20
Tetrachloroethene	5.00	4.96	5.05	99.2	101	70.0-136			1.80	20
Toluene	5.00	4.47	4.74	89.4	94.8	75.0-121			5.86	20
Trichloroethene	5.00	4.73	4.85	94.6	97.0	76.0-126			2.51	20
Vinyl chloride	5.00	6.29	6.72	126	134	63.0-134			6.61	20
Xylenes, Total	15.0	13.3	13.6	88.7	90.7	72.0-127			2.23	20
(S) Toluene-d8				96.1	96.5	75.0-131				
(S) 4-Bromofluorobenzene				90.5	90.8	67.0-138				
(S) 1,2-Dichloroethane-d4				108	111	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4185289-1 03/11/25 14:47

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Diesel Range Organics (DRO)	U		60.5	200
Residual Range Organics (RRO)	U		77.2	250
(S) o-Terphenyl	91.0			52.0-156

Method Blank (MB)

(MB) R4185425-1 03/12/25 06:27

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Diesel Range Organics (DRO)	U		60.5	200
Residual Range Organics (RRO)	U		77.2	250
(S) o-Terphenyl	117			52.0-156

Laboratory Control Sample (LCS)

(LCS) R4185289-2 03/11/25 15:11

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Diesel Range Organics (DRO)	1500	1740	116	50.0-150	
(S) o-Terphenyl			97.0	52.0-156	

L1833588-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1833588-06 03/12/25 07:12 • (MS) R4185425-2 03/12/25 07:35 • (MSD) R4185425-3 03/12/25 07:58

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Diesel Range Organics (DRO)	1430	1020	2670	2640	115	113	1	50.0-150			1.13	20
(S) o-Terphenyl					111	110		52.0-156				

Sample Narrative:

OS: Sample resembles laboratory standard for Hydraulic Fluid.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4186189-1 03/13/25 13:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		60.5	200
Residual Range Organics (RRO)	U		77.2	250
(S) o-Terphenyl	89.0			52.0-156

Method Blank (MB)

(MB) R4186275-1 03/13/25 19:13

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		60.5	200
Residual Range Organics (RRO)	U		77.2	250
(S) o-Terphenyl	129			52.0-156

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

(LCS) R4186189-2 03/13/25 13:57 • (LCSD) R4186189-3 03/13/25 14:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1730	1640	115	109	50.0-150			5.34	20
(S) o-Terphenyl				99.5	97.0	52.0-156				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4187088-3 03/14/25 21:24

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		60.5	200
Residual Range Organics (RRO)	U		77.2	250
(S) o-Terphenyl	81.5			52.0-156

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

(LCS) R4187088-1 03/14/25 20:35 • (LCSD) R4187088-2 03/14/25 20:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1660	1650	111	110	50.0-150			0.604	20
(S) o-Terphenyl				89.5	89.0	52.0-156				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4187358-1 03/17/25 09:55

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		60.5	200
Residual Range Organics (RRO)	U		77.2	250
(S) o-Terphenyl	90.5			52.0-156

Method Blank (MB)

(MB) R4188305-1 03/19/25 07:13

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		60.5	200
Residual Range Organics (RRO)	U		77.2	250
(S) o-Terphenyl	87.0			52.0-156

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

(LCS) R4187358-2 03/17/25 10:17 • (LCSD) R4187358-3 03/17/25 10:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1560	1590	104	106	50.0-150			1.90	20
(S) o-Terphenyl				89.5	89.5	52.0-156				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4186306-1 03/13/25 21:38

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		60.5	200
Residual Range Organics (RRO)	U		77.2	250
(S) o-Terphenyl	80.5			52.0-156

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

(LCS) R4186306-2 03/13/25 22:02 • (LCSD) R4186306-3 03/13/25 22:26

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1620	1660	108	111	50.0-150			2.44	20
(S) o-Terphenyl				88.5	88.5	52.0-156				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4185067-3 03/10/25 21:54

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Pentachlorophenol	U		0.313	1.00
(S) 2-Fluorophenol	19.1			10.0-120
(S) Phenol-d5	12.5			10.0-120
(S) Nitrobenzene-d5	36.4			10.0-127
(S) 2-Fluorobiphenyl	36.9			10.0-130
(S) 2,4,6-Tribromophenol	34.6			10.0-155
(S) p-Terphenyl-d14	59.5			10.0-128

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

(LCS) R4185067-1 03/10/25 21:12 • (LCSD) R4185067-2 03/10/25 21:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Pentachlorophenol	50.0	10.1	10.6	20.2	21.2	23.0-120	J4	J4	4.83	25
(S) 2-Fluorophenol				22.5	21.8	10.0-120				
(S) Phenol-d5				17.7	15.3	10.0-120				
(S) Nitrobenzene-d5				39.9	37.3	10.0-127				
(S) 2-Fluorobiphenyl				45.6	38.5	10.0-130				
(S) 2,4,6-Tribromophenol				57.0	51.5	10.0-155				
(S) p-Terphenyl-d14				59.1	56.8	10.0-128				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4186730-3 03/13/25 11:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Pentachlorophenol	U		0.313	1.00
(S) 2-Fluorophenol	23.6			10.0-120
(S) Phenol-d5	17.3			10.0-120
(S) Nitrobenzene-d5	61.3			10.0-127
(S) 2-Fluorobiphenyl	55.7			10.0-130
(S) 2,4,6-Tribromophenol	41.1			10.0-155
(S) p-Terphenyl-d14	58.3			10.0-128

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

(LCS) R4186730-1 03/13/25 10:23 • (LCSD) R4186730-2 03/13/25 10:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Pentachlorophenol	50.0	14.2	13.4	28.4	26.8	23.0-120			5.80	25
(S) 2-Fluorophenol				27.1	36.4	10.0-120				
(S) Phenol-d5				20.9	24.2	10.0-120				
(S) Nitrobenzene-d5				47.2	63.0	10.0-127				
(S) 2-Fluorobiphenyl				49.1	60.4	10.0-130				
(S) 2,4,6-Tribromophenol				64.5	68.0	10.0-155				
(S) p-Terphenyl-d14				60.7	64.4	10.0-128				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCGC14 • File ID: 0310_03

03/10/25 08:39			
Sample ID	File ID	FLUOROBENZENE (FID) Response	FLUOROBENZENE (PID) Response
Standard	0310_03	305308400	976896800
Upper Limit		610616800	1953794000
Lower Limit		152654200	488448400
LCS R4184687-1 WG2465785 1x	0310_03U	305308400	976896800
LCSD R4184687-2 WG2465785 1x	0310_04	310225700	984128100
BLANK R4184687-3 WG2465785 1x	0310_06	291299400	908660400
L1833588-15 WG2465785 1x	0310_07	299797200	951819700
L1833588-01 WG2465785 1x	0310_08	291487000	927149800
L1833588-02 WG2465785 1x	0310_09	299272300	926763000
L1833588-03 WG2465785 1x	0310_10	294033500	930834900
L1833588-04 WG2465785 1x	0310_11	290453500	922359400
L1833588-05 WG2465785 1x	0310_12	288834400	920484700

Instrument: VOCGC14 • File ID: 0310_26

03/10/25 19:43			
Sample ID	File ID	FLUOROBENZENE (FID) Response	FLUOROBENZENE (PID) Response
Standard	0310_26	315796500	1026263000
Upper Limit		631593000	2052526000
Lower Limit		157898300	513131500
LCS R4184878-1 WG2466168 1x	0310_26u	315796500	1026263000
LCSD R4184878-2 WG2466168 1x	0310_28	315430600	1014225000
BLANK R4184878-3 WG2466168 1x	0310_30	294652700	918629700
L1833588-13 WG2466168 1x	0310_33	291589900	916675600
L1833588-14 WG2466168 5x	0310_34	291155600	919561300
MS R4184878-4 WG2466168 1x	0310_53	314171900	938650800
MSD R4184878-5 WG2466168 1x	0310_54	303397700	921784000

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

INTERNAL STANDARD SUMMARY

Instrument: VO CGC14 • File ID: 0311_03

03/11/25 09:37			
Sample ID	File ID	FLUOROBENZENE (FID) Response	FLUOROBENZENE (PID) Response
Standard	0311_03	310072800	977988700
Upper Limit		620145600	1955977000
Lower Limit		155036400	488994300
LCS R4185263-1 WG2466096 1x	0311_03uA	310072800	977988700
LCSD R4185263-2 WG2466096 1x	0311_04A	303706000	952267200
BLANK R4185263-3 WG2466096 1x	0311_06A	289553300	914788100
L1833588-06 WG2466096 1x	0311_07	297457600	951466000
L1833588-08 WG2466096 1x	0311_08	292205100	930061200
L1833588-09 WG2466096 1x	0311_09	290192400	918090800
L1833588-11 WG2466096 1x	0311_10	304117300	908521800
L1833588-12 WG2466096 20x	0311_11	293951000	921350000
MS R4185263-4 WG2466096 1x	0311_12	305473800	962052000
MSD R4185263-5 WG2466096 1x	0311_13	307154600	953038000

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCMS35 • File ID: 0309A_02-1

03/09/25 23:32				
Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	0309A_02-1	188580	88218	40867
Upper Limit		377160	176436	81734
Lower Limit		94290	44109	20434
LCS R4184424-1 WG2465596 1x	0309A_02LCS	188580	88218	40867
LCSD R4184424-2 WG2465596 1x	0309A_03	189514	89017	41118
BLANK R4184424-3 WG2465596 1x	0309A_05	187809	88056	39041
L1833588-06 WG2465596 1x	0309A_07	184923	86266	35908
L1833588-08 WG2465596 1x	0309A_08	181540	85297	38958
L1833588-07 WG2465596 50x	0309A_21	171700	77428	36753
L1833588-09 WG2465596 25x	0309A_22	176763	80102	37801
L1833588-12 WG2465596 20x	0309A_23	174382	80282	38040
L1833588-14 WG2465596 20x	0309A_24	176882	81998	39431
L1833588-16 WG2465596 20x	0309A_25	172678	82383	40838
MS R4184424-4 WG2465596 1x	0309A_26	171986	86111	36619
MSD R4184424-5 WG2465596 1x	0309A_27	180618	86070	47361

Instrument: VOCMS41 • File ID: 0313_30-1

03/13/25 20:20				
Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	0313_30-1	644227	271585	136363.40
Upper Limit		1288454	543170	272727
Lower Limit		322114	135793	68182
LCS R4186505-1 WG2468880 1x	0313_30LCSB	644227	271585	136363.40
BLANK R4186505-2 WG2468880 1x	0313_34B	676058.40	289975.80	167350.80
L1833588-05 WG2468880 1x	0313_36	631620	248680.30	117433.80
MS R4186505-3 WG2468880 1x	0313_57	640753.30	273498.30	136603.50
MSD R4186505-4 WG2468880 1x	0313_58	613027.30	262990.20	134061.40

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCMS54 • File ID: 0310_02-1

03/10/25 09:38				
Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	0310_02-1	684628.50	452371.30	384049.20
Upper Limit		1369257	904743	768098
Lower Limit		342314	226186	192025
LCS R4185123-1 WG2465722 1x	0310_02LCS	684628.50	452371.30	384049.20
LCSD R4185123-2 WG2465722 1x	0310_03	672458.90	425165	383748.80
BLANK R4185123-3 WG2465722 1x	0310_06	609417.50	395451.70	363211.70
L1833588-17 WG2465722 1x	0310_09	619489.70	406433.50	346855.10
L1833588-18 WG2465722 1x	0310_10	589711.20	391223.50	363554.20
L1833588-19 WG2465722 1x	0310_11	584134.30	384648.80	319622.40
L1833588-20 WG2465722 1x	0310_12	583918.10	373897.70	346227.60
L1833588-15 WG2465722 1x	0310_13	567890.70	373362.50	323880.80
L1833588-01 WG2465722 1x	0310_16	544738.40	358109.60	320625.40
L1833588-02 WG2465722 1x	0310_17	554396.70	379436.20	346129.80
L1833588-03 WG2465722 1x	0310_18	541634.80	357894	326534.10
L1833588-04 WG2465722 1x	0310_19	538568.60	352866.20	327406.40
L1833588-10 WG2465722 1x	0310_20	537365.10	351802.90	327391.70
L1833588-13 WG2465722 1x	0310_21	471393.70	347651.70	313591.90

Instrument: VOCMS54 • File ID: 0310_29-1

03/10/25 18:59				
Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	0310_29-1	511675.90	365516	330904.80
Upper Limit		1023352	731032	661810
Lower Limit		255838	182758	165452
LCS R4185101-1 WG2465830 1x	0310_29LCSC	511675.90	365516	330904.80
LCSD R4185101-2 WG2465830 1x	0310_30C	507577.40	342322	312887.80
BLANK R4185101-3 WG2465830 1x	0310_34C	565553.20	360996.80	341380.10
L1833588-06 WG2465830 50x	0310_55	684942.40	433643.70	385216.80
L1833588-08 WG2465830 200x	0310_56	699662.40	458443.30	407789.10

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCMS59 • File ID: 0314_02-1

03/14/25 10:30				
Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	0314_02-1	252159.40	120483.20	96473.80
Upper Limit		504319	240966	192948
Lower Limit		126080	60242	48237
LCS R4187129-1 WG2469333 1x	0314_02LCS	252159.40	120483.20	96473.80
LCSD R4187129-2 WG2469333 1x	0314_03	239658.20	112967.20	90244.10
BLANK R4187129-3 WG2469333 1x	0314_06	234035.50	105476.50	81422.80
L1833588-11 WG2469333 1x	0314_14	216828.30	109757.30	71851.60

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

INTERNAL STANDARD SUMMARY

Instrument: BNAMS33 • File ID: 0310B_02

03/10/25 19:47

Sample ID	File ID	1,4-DICHLOROBENZENE-D4	NAPHTHALENE-D8	ACENAPHTHENE-D10	PHENANTHRENE-D10	CHRYSENE-D12	PERYLENE-D12
		Response	Response	Response	Response	Response	Response
Standard	0310B_02	129917	500432	277007	521373	496683	483394
Upper Limit		259834	1000864	554014	1042746	993366	966788
Lower Limit		64959	250216	138504	260687	248342	241697
LCS R4185067-1 WG2465290 1x	0310B_06	135418	556823	290128	555968	530713	532615
LCSD R4185067-2 WG2465290 1x	0310B_07	130978	537987	286240	535113	514923	518714
BLANK R4185067-3 WG2465290 1x	0310B_08	142401	547185	292466	577146	525710	527549
L1833588-02 WG2465290 1x	0310B_12	124342	487222	278292	527226	483161	483067

Instrument: BNAMS33 • File ID: 0313_03-1

03/13/25 08:52

Sample ID	File ID	1,4-DICHLOROBENZENE-D4	NAPHTHALENE-D8	ACENAPHTHENE-D10	PHENANTHRENE-D10	CHRYSENE-D12	PERYLENE-D12
		Response	Response	Response	Response	Response	Response
Standard	0313_03-1	125985	479340	266949	499245	496445	492881
Upper Limit		251970	958680	533898	998490	992890	985762
Lower Limit		62993	239670	133475	249623	248223	246441
LCS R4186730-1 WG2465723 1x	0313_07	118309	498808	264657	505911	498023	506918
LCSD R4186730-2 WG2465723 1x	0313_08	118837	512599	264444	496764	469716	458539
BLANK R4186730-3 WG2465723 1x	0313_09	114416	439078	254836	492628	464231	470488
L1833588-15 WG2465723 1x	0313_10	120727	468404	261441	512253	486506	507105
L1833588-11 WG2465723 1x	0313_20	124094	480901	270660	513318	465531	472655

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Is

8Gl

9Al

10Sc

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.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
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.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
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 ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	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 ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	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 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ 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: ARCADIS - BNSF Region 2 1420 5th Avenue, Suite 2400 Seattle, WA 98101		Billing Information: Arcadis, US. Inc. 630 Plaza Drive Suite 200 Highlands Ranch, CO 80129		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 1 of 1			
Report to: Kyle Haslam 206-726-4753		Email To: kyle.haslam@arcadis.com;emily.zikmund@arcadis.com														 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			
Project Description: BNSF Time Oil		City/State Collected: Seattle, WA		Please Circle: PT MT CT ET												SDG # L1833580			
Regulatory Program(DOD,RCRA,DW,etc): Michelle Nguyen		Client Project # 30270277.01		Lab Project # BNSF2ARCA-TIMEOIL												Table #			
Collected by (print): mm gym		Site/Facility ID # BNSF TIME OIL		P.O. #												Acctnum: BNSF2ARCA			
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 STD TAT		Quote #												Template: T240430			
Immediately Packed on Ice N ☐ Y ☒				Date Results Needed												Prelogin: P1135169			
				No. of Cntrs												PM: 4089 - Andi R Jones			
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time											PB: 2-25-25		
																	Shipped Via: FedEX Priority		
																	Remarks		
																	Sample # (lab only)		
MW-BN-04(030525)		G	GW	—	3/5/25	1215	11	X		X			X	X	X		X		-11
01MW98(030525)		G	GW	—	3/5/25	1405	16		X	X	X	X	X	X	X	X			12
MW-BN-01(030525)		G	GW	—	3/5/25	1530	13		X	X	X	X	X	X	X	X			13
01MW92(030525)		G	GW	—	3/5/25	1630	13		X	X	X	X	X	X	X	X	X		14
EB-01(030525)		G	GW	—	3/5/25	1545	15	X		X			X	X			X		15
WASTE-GW-01(030525)		C	GW	—	3/5/25	1735	3			X							X		16
TB-01(030625)		G	GW	—	3/6/25	—	3			X							X		17
TB-02(030625)		G	GW	—	3/6/25	—	3			X							X		18
TB-03(030625)		G	GW	—	3/6/25	—	3			X							X		19
TB-04(030625)		G	GW	—	3/6/25	—	3			X							X		20
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:V8260: Special list *Samples may be analyzed for V8260ULL pending results		pH _____ Temp _____ Flow _____ Other _____												Sample Receipt Checklist COC Seal Present/Intact: ☐ NP ☒ Y ☐ N COC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N If Applicable VOA Zero Headspace: ☒ Y ☐ N Preservation Correct/Checked: ☒ Y ☐ N RAD Screen <0.5 mR/hr: ☒ Y ☐ N			
Samples returned via: ☐ UPS ☒ FedEx ☐ Courier		Tracking #																	
Relinquished by: (Signature) mm gym		Date: 3/6/25	Time: 1330	Received by: (Signature)		Trip Blank Received: Yes/No 12 HCL MeOH FBR													
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: °C Bottles Received: 217												If preservation required by Login: Date/Time	
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)		Date: 3/6 Time: 900												Hold: Condition: NCF / OK	

Multiple Parcel Form

L# L1833588

Name _____

Name

Yes /
Date

Date

RE: Time Oil GWM Samples

From Zikmund, Emily <Emily.Zikmund@arcadis.com>

Date Fri 3/7/25 12:52 PM

To Andi Jones <andi.jones@pacelabs.com>

Cc Nguyen, Michelle <Michelle.Nguyen@arcadis.com>; Haslam, Kyle <Kyle.Haslam@arcadis.com>

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Hi Andi,

1. We want the turnaround to be quick enough that the samples are within the hold time. I believe 7 days to extraction and 14 to analysis, so probably a 5 day turnaround time should be quick enough.
2. Yes, the three for quick turn around is regular VOCs with the possibility of ULL.
3. I've updated accordingly. Should be quick turnaround for all regular VOCs so we can analyze for LL within hold time if needed.
4. Total metals has been removed from the table below. I don't think we have the bottleware to support the analysis for this location.
5. The duplicate should not be sampled for chloride/sulfate, dissolved or total metals, NO3, and TOC. I have added this to the table below.
6. EB samples should be analyzed for ULL. This has also been added to the table below.

Let me know if you have any other questions.

Thanks,
Emily

Emily Zikmund (she/her)

Project Civil Engineer

Arcadis U.S., Inc.

1420 5th Avenue, Suite 2400 | Seattle, WA | 98101 | USA

T. +1 206 413 6534

M. +1 707 260 5171

From: Andi Jones <andi.jones@pacelabs.com>

Sent: Friday, March 7, 2025 9:59 AM

To: Zikmund, Emily <Emily.Zikmund@arcadis.com>

Cc: Nguyen, Michelle <Michelle.Nguyen@arcadis.com>; Haslam, Kyle <Kyle.Haslam@arcadis.com>

Subject: Re: Time Oil GWM Samples

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Emily,

We have the samples. I wanted to clarify a few things:

How quick of a turnaround do you want on the three samples noted?

Are we running the regular VOCs first on a quick turn with possible LL for all three?

Quick was noted for regular VOCs on 2 of the samples and under LL on the other. Please clarify.

MW-BN-05: total metals are on your spreadsheet but appear to be marked out on the COC. Are these needed?

MW-DUP-01 & EB-01: These are not on the spreadsheet, are the tests marked correctly on the COC? Do you need LL VOCs for either sample?

Thank,
Andi

Andi Jones

Project Manager 2, Pace National

Pace[®] Analytical Services

12065 Lebanon Road | Mt. Juliet, TN 37122

From: Zikmund, Emily <Emily.Zikmund@arcadis.com>
Sent: Friday, March 7, 2025 10:25 AM
To: Andi Jones <andi.jones@pacelabs.com>
Cc: Nguyen, Michelle <Michelle.Nguyen@arcadis.com>; Haslam, Kyle <Kyle.Haslam@arcadis.com>
Subject: RE: Time Oil GWM Samples

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Hi Andi,

There was only one spot for CVOCs, so there wasn't a good way for us to note which ones required the ULL. I don't think we added the quick turnaround either, so please use this email for reference.

Thanks,
Emily

Emily Zikmund (she/her)
Project Civil Engineer
Arcadis U.S., Inc.
1420 5th Avenue, Suite 2400 | Seattle, WA | 98101 | USA
T. +1 206 413 6534
M. +1 707 260 5171

From: Andi Jones <andi.jones@pacelabs.com>
Sent: Friday, March 7, 2025 6:35 AM
To: Zikmund, Emily <Emily.Zikmund@arcadis.com>
Cc: Nguyen, Michelle <Michelle.Nguyen@arcadis.com>; Haslam, Kyle <Kyle.Haslam@arcadis.com>
Subject: Re: Time Oil GWM Samples

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Thanks Emily. Are the COCs marked accordingly for which samples need the low level up front and rush TAT?

Andi

Andi Jones

Project Manager 2, Pace National

Pace® Analytical Services

12065 Lebanon Road | Mt. Juliet, TN 37122

615.583.2006 | pacelabs.com

From: Zikmund, Emily <Emily.Zikmund@arcadis.com>
Sent: Thursday, March 6, 2025 3:58 PM
To: Andi Jones <andi.jones@pacelabs.com>
Cc: Nguyen, Michelle <Michelle.Nguyen@arcadis.com>; Haslam, Kyle <Kyle.Haslam@arcadis.com>
Subject: Time Oil GWM Samples

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Hi Andi,

We are sending the Time Oil GWM samples today for delivery tomorrow. We also send back extra bottleware and coolers that were not needed.

Tracking numbers are:

443924383559
443924383560
443924383515
443924383537
443924383548
443924383526

Below please note there are COCs included with the samples, but I have clarified below which wells need to be analyzed using CVOCs ULL. There are a few samples that we would like quick turnaround for CVOCs only because we may need to analyze for CVOCs ULL. These are also noted below. Please let me know if you have any questions.

Sample ID	Matrix	CVOCs	CVOCs ULL	BTEX	NWPTH-Dx NWPTH-GX	PCP	TOC	Chloride/ Sulfate	Nitrate	Total Metals	Dissolved Metals
MW-BN-02(03032025)	GW		X		X		X	X	X	X	X
MW-BN-05(03032025)	GW		X	X	X	X	X (2/3 bottle)	X			
01MW97(03032025)	GW		X		X		X	X	X	X	X
01MW94(03042025)	GW		X		X		X	X	X	X	X
MW-BN-06(03042025)	GW	X (quick turnaround)	X		X		X	X	X	X	X
MW-BN-07(03042025)	GW	X (quick turnaround)	X		X		X	X	X	X	X
MW-BN-03(03042025)	GW	X		X			X	X	X	X	X
01MW93(03052025)	GW	X			X		X	X	X	X	X
01MW95(03052025)	GW		X				X	X	X	X	X
MW-BN-04(03052025)	GW	X		X	X	X	X (3/4 bottle)				
01MW98(03052025)	GW	X (quick turnaround)	X		X		X	X	X	X	X
MW-BN-01(03052025)	GW		X		X		X	X	X	X	X
01MW92(03052025)	GW	X		X	X		X	X	X	X	X
TB-01(03062025)	GW		X	X							
TB-02(03062025)	GW		X	X							
TB-03(03062025)	GW		X	X							
TB-04(03062025)	GW		X	X							
MW-DUP-01(03042025)	GW	X		X	X						
EB-01(030525)	GW		X	X	X	X					

Thanks,
Emily

Emily Zikmund (she/her)
Project Civil Engineer
Arcadis U.S., Inc.
1420 5th Avenue, Suite 2400 | Seattle, WA | 98101 | USA
T. +1 206 413 6534
M. +1 707 260 5171
www.arcadis.com



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RE: Draft VOCs Time Oil L1833588

From Zikmund, Emily <Emily.Zikmund@arcadis.com>

Date Wed 3/12/25 2:14 PM

To Andi Jones <andi.jones@pacelabs.com>; Haslam, Kyle <Kyle.Haslam@arcadis.com>

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Thanks for providing!

Please run low level on the following:

- MW-BN-06(030425)
- MW-BN-04(030525)
 - Please let me know if you have enough volume to run on this well.

Thanks,
Emily

Emily Zikmund (she/her)

Project Civil Engineer

Arcadis U.S., Inc.

1420 5th Avenue, Suite 2400 | Seattle, WA | 98101 | USA

T. +1 206 413 6534

M. +1 707 260 5171

From: Andi Jones <andi.jones@pacelabs.com>

Sent: Wednesday, March 12, 2025 11:38 AM

To: Zikmund, Emily <Emily.Zikmund@arcadis.com>; Haslam, Kyle <Kyle.Haslam@arcadis.com>

Subject: Draft VOCs Time Oil L1833588

Importance: High

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Hi,

The draft is attached for the Time Oil GW sample with VOCs included. Not all the tests are complete, but the VOCs are entered. Please let me know if you need low level VOCs added to any samples. Also, can you please send me the site address for invoicing. I did not see it in a previous email, but I apologize if you had already sent it in the past.

Thanks
Andi

Committed to You...

Andi Jones

Project Manager 2, Pace National

Pace® Analytical Services

12065 Lebanon Road | Mt. Juliet, TN 37122

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Emergency Response Line | (877) 859-7778



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