

K.P. Kauffman Company, Inc.

Sample Delivery Group: L1852794

Samples Received: 04/29/2025

Project Number:

Description: Jillson 1

Report To: Dan Motisi
1700 Lincoln Street, Suite 4550
Denver, CO 80203

Entire Report Reviewed By:



Tony Gibson
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.

TABLE OF CONTENTS

Cp: Cover Page	1	
Tc: Table of Contents	2	
Ss: Sample Summary	3	
Cn: Case Narrative	5	
Sr: Sample Results	6	
SS-1 L1852794-01	6	
SS-2 L1852794-02	9	
SS-3 L1852794-03	12	
SS-4 L1852794-04	15	
SS-5 L1852794-05	18	
SS-6 L1852794-06	21	
Qc: Quality Control Summary	24	
Wet Chemistry by Method 7199	24	
Wet Chemistry by Method 9045D	25	
Wet Chemistry by Method 9050AMod	27	
Metals (ICP) by Method 6010B-NE493 Ch 2	29	
Metals (ICPMS) by Method 6020	30	
Volatile Organic Compounds (GC) by Method 8015D/GRO	31	
Volatile Organic Compounds (GC/MS) by Method 8260B	32	
Semi-Volatile Organic Compounds (GC) by Method 8015M	44	
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	45	
Gl: Glossary of Terms	49	
Al: Accreditations & Locations	50	
Sc: Sample Chain of Custody	51	

SAMPLE SUMMARY

SS-1 L1852794-01

Collected by Dan M. Collected date/time 04/23/25 00:00 Received date/time 04/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505001	1	05/03/25 03:17	05/03/25 03:17	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2504790	1	05/02/25 08:40	05/05/25 04:38	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2505938	1	05/03/25 10:11	05/03/25 18:40	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2505940	1	05/03/25 10:13	05/03/25 15:10	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505049	1	05/02/25 17:40	05/03/25 11:59	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506487	5	05/06/25 17:38	05/07/25 16:58	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2504959	1	04/23/25 00:00	05/02/25 05:07	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2505619	1	04/23/25 00:00	05/03/25 06:56	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2506350	20	05/06/25 08:28	05/07/25 03:17	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2504882	1	05/05/25 11:42	05/06/25 21:04	JNJ	Mt. Juliet, TN



SS-2 L1852794-02

Collected by Dan M. Collected date/time 04/23/25 00:00 Received date/time 04/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505798	1	05/05/25 12:21	05/05/25 12:21	MAP	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2504790	1	05/02/25 08:40	05/05/25 04:47	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2507415	1	05/05/25 17:04	05/06/25 12:40	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2507402	1	05/05/25 17:03	05/06/25 16:54	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505049	1	05/02/25 17:40	05/03/25 12:02	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506487	5	05/06/25 17:38	05/07/25 17:15	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2504959	1	04/23/25 00:00	05/02/25 05:30	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2505619	1	04/23/25 00:00	05/03/25 07:16	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2506350	1	05/06/25 08:28	05/07/25 01:53	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2504882	1	05/05/25 11:42	05/06/25 20:11	JNJ	Mt. Juliet, TN

SS-3 L1852794-03

Collected by Dan M. Collected date/time 04/23/25 00:00 Received date/time 04/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505001	1	05/03/25 03:19	05/03/25 03:19	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2504790	1	05/02/25 08:40	05/05/25 04:56	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2505938	1	05/03/25 10:11	05/03/25 18:40	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2505940	1	05/03/25 10:13	05/03/25 15:10	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505049	1	05/02/25 17:40	05/03/25 12:06	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506487	5	05/06/25 17:38	05/07/25 17:18	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2504959	1	04/23/25 00:00	05/02/25 05:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2505619	1	04/23/25 00:00	05/03/25 07:36	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2506350	1	05/06/25 08:28	05/07/25 02:07	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2504882	1	05/05/25 11:42	05/06/25 20:28	JNJ	Mt. Juliet, TN

SS-4 L1852794-04

Collected by Dan M. Collected date/time 04/23/25 00:00 Received date/time 04/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505001	1	05/03/25 03:24	05/03/25 03:24	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2504790	1	05/02/25 08:40	05/05/25 05:05	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2505938	1	05/03/25 10:11	05/03/25 18:40	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2505940	1	05/03/25 10:13	05/03/25 15:10	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505049	1	05/02/25 17:40	05/03/25 12:08	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506487	5	05/06/25 17:38	05/07/25 17:22	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2504959	1	04/23/25 00:00	05/02/25 06:17	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2505619	1	04/23/25 00:00	05/03/25 07:56	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

SS-4 L1852794-04

Collected by Dan M. Collected date/time 04/23/25 00:00 Received date/time 04/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2506350	1	05/06/25 08:28	05/07/25 02:21	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2505558	1	05/05/25 08:36	05/06/25 03:17	JNJ	Mt. Juliet, TN



SS-5 L1852794-05

Collected by Dan M. Collected date/time 04/23/25 00:00 Received date/time 04/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505001	1	05/03/25 03:26	05/03/25 03:26	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2504790	1	05/02/25 08:40	05/05/25 05:14	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2505938	1	05/03/25 10:11	05/03/25 18:40	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2505940	1	05/03/25 10:13	05/03/25 15:10	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505049	1	05/02/25 17:40	05/03/25 12:11	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506487	5	05/06/25 17:38	05/07/25 17:32	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2504959	1	04/23/25 00:00	05/02/25 06:41	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2505619	1	04/23/25 00:00	05/03/25 08:16	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2506350	20	05/06/25 08:28	05/07/25 03:31	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2505558	1	05/05/25 08:36	05/06/25 06:35	JNJ	Mt. Juliet, TN

SS-6 L1852794-06

Collected by Dan M. Collected date/time 04/23/25 00:00 Received date/time 04/29/25 08:00

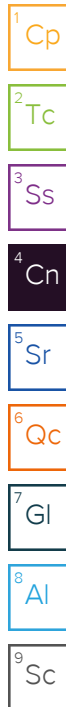
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2505001	1	05/03/25 03:28	05/03/25 03:28	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2504790	1	05/02/25 08:40	05/05/25 05:23	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2505938	1	05/03/25 10:11	05/03/25 18:40	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2505940	1	05/03/25 10:13	05/03/25 15:10	KRB	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2505049	1	05/02/25 17:40	05/03/25 12:14	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2506487	5	05/06/25 17:38	05/07/25 17:35	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2504959	1	04/23/25 00:00	05/02/25 07:05	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2506567	1	04/23/25 00:00	05/04/25 13:33	WHS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2506350	1	05/06/25 08:28	05/07/25 02:35	SGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2505558	1	05/05/25 08:36	05/06/25 03:34	JNJ	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.



Tony Gibson
Project Manager



Report Revision History

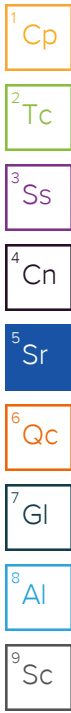
Level II Report - Version 1: 05/19/25 16:17
Level II Report - Version 2: 05/22/25 15:50

Project Narrative

Updated Imiits to show MDL - WET - Tony Gibson 5/22/25

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	6.42		1	05/03/2025 03:17	WG2505001



Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/05/2025 04:38	WG2504790

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.30	<u>T8</u>	1	05/03/2025 18:40	WG2505938

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	9080	umhos/cm		10.0	1	05/03/2025 15:10	WG2505940

Sample Narrative:

L1852794-01 WG2505940: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	1.03		0.0167	0.200	1	05/03/2025 11:59	WG2505049

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.87		0.100	1.00	5	05/07/2025 16:58	WG2506487
Barium	77.9		0.152	2.50	5	05/07/2025 16:58	WG2506487
Cadmium	0.207	<u>J</u>	0.0855	1.00	5	05/07/2025 16:58	WG2506487
Copper	33.8		0.132	5.00	5	05/07/2025 16:58	WG2506487
Lead	32.9		0.0990	2.00	5	05/07/2025 16:58	WG2506487
Nickel	8.35		0.197	2.50	5	05/07/2025 16:58	WG2506487
Selenium	1.04	<u>J</u>	0.180	2.50	5	05/07/2025 16:58	WG2506487
Silver	U		0.0865	0.500	5	05/07/2025 16:58	WG2506487
Zinc	38.4		0.740	25.0	5	05/07/2025 16:58	WG2506487

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0443	<u>B J</u>	0.0217	0.100	1	05/02/2025 05:07	WG2504959
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		05/02/2025 05:07	WG2504959

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0365	0.0500	1	05/03/2025 06:56	WG2505619
Acrylonitrile	U		0.00361	0.0125	1	05/03/2025 06:56	WG2505619
Benzene	U		0.000467	0.00100	1	05/03/2025 06:56	WG2505619
Bromobenzene	U		0.000900	0.0125	1	05/03/2025 06:56	WG2505619
Bromodichloromethane	U		0.000725	0.00250	1	05/03/2025 06:56	WG2505619

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Bromoform	U		0.0017	0.0250	1	05/03/2025 06:56	WG2505619
Bromomethane	0.00197	J	0.00197	0.0125	1	05/03/2025 06:56	WG2505619
n-Butylbenzene	U		0.00525	0.0125	1	05/03/2025 06:56	WG2505619
sec-Butylbenzene	U		0.00288	0.0125	1	05/03/2025 06:56	WG2505619
tert-Butylbenzene	U		0.00195	0.00500	1	05/03/2025 06:56	WG2505619
Carbon tetrachloride	U		0.000898	0.00500	1	05/03/2025 06:56	WG2505619
Chlorobenzene	U		0.000210	0.00250	1	05/03/2025 06:56	WG2505619
Chlorodibromomethane	U		0.000612	0.00250	1	05/03/2025 06:56	WG2505619
Chloroethane	U		0.00170	0.00500	1	05/03/2025 06:56	WG2505619
Chloroform	0.00107	B J	0.00103	0.00250	1	05/03/2025 06:56	WG2505619
Chloromethane	U		0.00435	0.0125	1	05/03/2025 06:56	WG2505619
2-Chlorotoluene	U		0.000865	0.00250	1	05/03/2025 06:56	WG2505619
4-Chlorotoluene	U		0.000450	0.00500	1	05/03/2025 06:56	WG2505619
1,2-Dibromo-3-Chloropropane	U	C3	0.00390	0.0250	1	05/03/2025 06:56	WG2505619
1,2-Dibromoethane	U		0.000648	0.00250	1	05/03/2025 06:56	WG2505619
Dibromomethane	U		0.000750	0.00500	1	05/03/2025 06:56	WG2505619
1,2-Dichlorobenzene	U		0.000425	0.00500	1	05/03/2025 06:56	WG2505619
1,3-Dichlorobenzene	U		0.000600	0.00500	1	05/03/2025 06:56	WG2505619
1,4-Dichlorobenzene	U		0.000700	0.00500	1	05/03/2025 06:56	WG2505619
Dichlorodifluoromethane	U		0.00161	0.00500	1	05/03/2025 06:56	WG2505619
1,1-Dichloroethane	U		0.000491	0.00250	1	05/03/2025 06:56	WG2505619
1,2-Dichloroethane	U		0.000649	0.00250	1	05/03/2025 06:56	WG2505619
1,1-Dichloroethene	U		0.000606	0.00250	1	05/03/2025 06:56	WG2505619
cis-1,2-Dichloroethene	U		0.000734	0.00250	1	05/03/2025 06:56	WG2505619
trans-1,2-Dichloroethene	U		0.00104	0.00500	1	05/03/2025 06:56	WG2505619
1,2-Dichloropropane	U		0.00142	0.00500	1	05/03/2025 06:56	WG2505619
1,1-Dichloropropene	U		0.000809	0.00250	1	05/03/2025 06:56	WG2505619
1,3-Dichloropropane	U		0.000501	0.00500	1	05/03/2025 06:56	WG2505619
cis-1,3-Dichloropropene	U		0.000757	0.00250	1	05/03/2025 06:56	WG2505619
trans-1,3-Dichloropropene	U		0.00114	0.00500	1	05/03/2025 06:56	WG2505619
2,2-Dichloropropane	U		0.00138	0.00250	1	05/03/2025 06:56	WG2505619
Di-isopropyl ether	U		0.000410	0.00100	1	05/03/2025 06:56	WG2505619
Ethylbenzene	U		0.000737	0.00250	1	05/03/2025 06:56	WG2505619
Hexachloro-1,3-butadiene	U	C3	0.00600	0.0250	1	05/03/2025 06:56	WG2505619
Isopropylbenzene	U		0.000425	0.00250	1	05/03/2025 06:56	WG2505619
p-Isopropyltoluene	U		0.00255	0.00500	1	05/03/2025 06:56	WG2505619
2-Butanone (MEK)	U		0.0635	0.100	1	05/03/2025 06:56	WG2505619
Methylene Chloride	U		0.00664	0.0250	1	05/03/2025 06:56	WG2505619
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250	1	05/03/2025 06:56	WG2505619
Methyl tert-butyl ether	U		0.000350	0.00100	1	05/03/2025 06:56	WG2505619
Naphthalene	U	C3	0.00488	0.0125	1	05/03/2025 06:56	WG2505619
n-Propylbenzene	U		0.000950	0.00500	1	05/03/2025 06:56	WG2505619
Styrene	U		0.000229	0.0125	1	05/03/2025 06:56	WG2505619
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250	1	05/03/2025 06:56	WG2505619
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250	1	05/03/2025 06:56	WG2505619
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250	1	05/03/2025 06:56	WG2505619
Tetrachloroethene	U		0.000896	0.00250	1	05/03/2025 06:56	WG2505619
Toluene	U		0.00130	0.00500	1	05/03/2025 06:56	WG2505619
1,2,3-Trichlorobenzene	U	C3	0.00733	0.0125	1	05/03/2025 06:56	WG2505619
1,2,4-Trichlorobenzene	U	C3	0.00440	0.0125	1	05/03/2025 06:56	WG2505619
1,1,1-Trichloroethane	U		0.000923	0.00250	1	05/03/2025 06:56	WG2505619
1,1,2-Trichloroethane	U		0.000597	0.00250	1	05/03/2025 06:56	WG2505619
Trichloroethene	U		0.000584	0.00100	1	05/03/2025 06:56	WG2505619
Trichlorofluoromethane	U		0.000827	0.00250	1	05/03/2025 06:56	WG2505619
1,2,3-Trichloropropane	U		0.00162	0.0125	1	05/03/2025 06:56	WG2505619
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/03/2025 06:56	WG2505619

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2,3-Trimethylbenzene	U		0.00158	0.00500	1	05/03/2025 06:56	WG2505619
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/03/2025 06:56	WG2505619
Vinyl chloride	U		0.00116	0.00250	1	05/03/2025 06:56	WG2505619
Xylenes, Total	U		0.000880	0.00650	1	05/03/2025 06:56	WG2505619
(S) Toluene-d8	97.1			75.0-131		05/03/2025 06:56	WG2505619
(S) 4-Bromofluorobenzene	93.1			67.0-138		05/03/2025 06:56	WG2505619
(S) 1,2-Dichloroethane-d4	110			70.0-130		05/03/2025 06:56	WG2505619

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	219		32.2	80.0	20	05/07/2025 03:17	WG2506350
C28-C36 Motor Oil Range	511		5.48	80.0	20	05/07/2025 03:17	WG2506350
(S) o-Terphenyl	0.000	J7		18.0-148		05/07/2025 03:17	WG2506350

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.0330	0.0330	1	05/06/2025 21:04	WG2504882
Acenaphthene	U		0.0330	0.0330	1	05/06/2025 21:04	WG2504882
Acenaphthylene	U		0.0330	0.0330	1	05/06/2025 21:04	WG2504882
Benzo(a)anthracene	U		0.00600	0.00600	1	05/06/2025 21:04	WG2504882
Benzo(a)pyrene	U		0.0330	0.0330	1	05/06/2025 21:04	WG2504882
Benzo(b)fluoranthene	U		0.0330	0.0330	1	05/06/2025 21:04	WG2504882
Benzo(g,h,i)perylene	U		0.0330	0.0330	1	05/06/2025 21:04	WG2504882
Benzo(k)fluoranthene	U		0.0330	0.0330	1	05/06/2025 21:04	WG2504882
Chrysene	U		0.0330	0.0330	1	05/06/2025 21:04	WG2504882
Dibenz(a,h)anthracene	U		0.0330	0.0330	1	05/06/2025 21:04	WG2504882
Fluoranthene	U		0.0330	0.0330	1	05/06/2025 21:04	WG2504882
Fluorene	U		0.0330	0.0330	1	05/06/2025 21:04	WG2504882
Indeno(1,2,3-cd)pyrene	U		0.0330	0.0330	1	05/06/2025 21:04	WG2504882
Naphthalene	U		0.00300	0.00300	1	05/06/2025 21:04	WG2504882
Phenanthrene	U		0.0330	0.0330	1	05/06/2025 21:04	WG2504882
Pyrene	U		0.0330	0.0330	1	05/06/2025 21:04	WG2504882
1-Methylnaphthalene	U		0.00300	0.00300	1	05/06/2025 21:04	WG2504882
2-Methylnaphthalene	U		0.0120	0.0120	1	05/06/2025 21:04	WG2504882
(S) p-Terphenyl-d14	76.9			23.0-120		05/06/2025 21:04	WG2504882
(S) Nitrobenzene-d5	94.9			14.0-149		05/06/2025 21:04	WG2504882
(S) 2-Fluorobiphenyl	81.7			34.0-125		05/06/2025 21:04	WG2504882

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	8.53		1	05/05/2025 12:21	WG2505798

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/05/2025 04:47	WG2504790

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.15	<u>T8</u>	1	05/06/2025 12:40	WG2507415

Sample Narrative:

L1852794-02 WG2507415: 0

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	11300	umhos/cm		10.0	1	05/06/2025 16:54	WG2507402

Sample Narrative:

L1852794-02 WG2507402: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

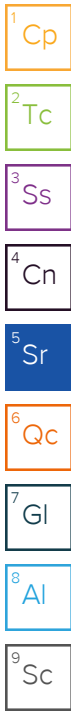
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	1.56		0.0167	0.200	1	05/03/2025 12:02	WG2505049

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.65		0.100	1.00	5	05/07/2025 17:15	WG2506487
Barium	163		0.152	2.50	5	05/07/2025 17:15	WG2506487
Cadmium	0.116	<u>J</u>	0.0855	1.00	5	05/07/2025 17:15	WG2506487
Copper	9.55		0.132	5.00	5	05/07/2025 17:15	WG2506487
Lead	9.06		0.0990	2.00	5	05/07/2025 17:15	WG2506487
Nickel	12.5		0.197	2.50	5	05/07/2025 17:15	WG2506487
Selenium	0.912	<u>J</u>	0.180	2.50	5	05/07/2025 17:15	WG2506487
Silver	U		0.0865	0.500	5	05/07/2025 17:15	WG2506487
Zinc	36.6		0.740	25.0	5	05/07/2025 17:15	WG2506487

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0439	<u>B J</u>	0.0217	0.100	1	05/02/2025 05:30	WG2504959
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		05/02/2025 05:30	WG2504959



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0365	0.0500	1	05/03/2025 07:16	WG2505619
Acrylonitrile	U		0.00361	0.0125	1	05/03/2025 07:16	WG2505619
Benzene	U		0.000467	0.00100	1	05/03/2025 07:16	WG2505619
Bromobenzene	U		0.000900	0.0125	1	05/03/2025 07:16	WG2505619
Bromodichloromethane	U		0.000725	0.00250	1	05/03/2025 07:16	WG2505619
Bromoform	U		0.00117	0.0250	1	05/03/2025 07:16	WG2505619
Bromomethane	0.00418	B J	0.00197	0.0125	1	05/03/2025 07:16	WG2505619
n-Butylbenzene	U		0.00525	0.0125	1	05/03/2025 07:16	WG2505619
sec-Butylbenzene	U		0.00288	0.0125	1	05/03/2025 07:16	WG2505619
tert-Butylbenzene	U		0.00195	0.00500	1	05/03/2025 07:16	WG2505619
Carbon tetrachloride	U		0.000898	0.00500	1	05/03/2025 07:16	WG2505619
Chlorobenzene	U		0.000210	0.00250	1	05/03/2025 07:16	WG2505619
Chlorodibromomethane	U		0.000612	0.00250	1	05/03/2025 07:16	WG2505619
Chloroethane	U		0.00170	0.00500	1	05/03/2025 07:16	WG2505619
Chloroform	U		0.00103	0.00250	1	05/03/2025 07:16	WG2505619
Chloromethane	U		0.00435	0.0125	1	05/03/2025 07:16	WG2505619
2-Chlorotoluene	U		0.000865	0.00250	1	05/03/2025 07:16	WG2505619
4-Chlorotoluene	U		0.000450	0.00500	1	05/03/2025 07:16	WG2505619
1,2-Dibromo-3-Chloropropane	U	C3	0.00390	0.0250	1	05/03/2025 07:16	WG2505619
1,2-Dibromoethane	U		0.000648	0.00250	1	05/03/2025 07:16	WG2505619
Dibromomethane	U		0.000750	0.00500	1	05/03/2025 07:16	WG2505619
1,2-Dichlorobenzene	U		0.000425	0.00500	1	05/03/2025 07:16	WG2505619
1,3-Dichlorobenzene	U		0.000600	0.00500	1	05/03/2025 07:16	WG2505619
1,4-Dichlorobenzene	U		0.000700	0.00500	1	05/03/2025 07:16	WG2505619
Dichlorodifluoromethane	U		0.00161	0.00500	1	05/03/2025 07:16	WG2505619
1,1-Dichloroethane	U		0.000491	0.00250	1	05/03/2025 07:16	WG2505619
1,2-Dichloroethane	U		0.000649	0.00250	1	05/03/2025 07:16	WG2505619
1,1-Dichloroethene	U		0.000606	0.00250	1	05/03/2025 07:16	WG2505619
cis-1,2-Dichloroethene	U		0.000734	0.00250	1	05/03/2025 07:16	WG2505619
trans-1,2-Dichloroethene	U		0.00104	0.00500	1	05/03/2025 07:16	WG2505619
1,2-Dichloropropane	U		0.00142	0.00500	1	05/03/2025 07:16	WG2505619
1,1-Dichloropropene	U		0.000809	0.00250	1	05/03/2025 07:16	WG2505619
1,3-Dichloropropane	U		0.000501	0.00500	1	05/03/2025 07:16	WG2505619
cis-1,3-Dichloropropene	U		0.000757	0.00250	1	05/03/2025 07:16	WG2505619
trans-1,3-Dichloropropene	U		0.00114	0.00500	1	05/03/2025 07:16	WG2505619
2,2-Dichloropropane	U		0.00138	0.00250	1	05/03/2025 07:16	WG2505619
Di-isopropyl ether	U		0.000410	0.00100	1	05/03/2025 07:16	WG2505619
Ethylbenzene	U		0.000737	0.00250	1	05/03/2025 07:16	WG2505619
Hexachloro-1,3-butadiene	U	C3	0.00600	0.0250	1	05/03/2025 07:16	WG2505619
Isopropylbenzene	U		0.000425	0.00250	1	05/03/2025 07:16	WG2505619
p-Isopropyltoluene	U		0.00255	0.00500	1	05/03/2025 07:16	WG2505619
2-Butanone (MEK)	U		0.0635	0.100	1	05/03/2025 07:16	WG2505619
Methylene Chloride	U		0.00664	0.0250	1	05/03/2025 07:16	WG2505619
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250	1	05/03/2025 07:16	WG2505619
Methyl tert-butyl ether	U		0.000350	0.00100	1	05/03/2025 07:16	WG2505619
Naphthalene	U	C3	0.00488	0.0125	1	05/03/2025 07:16	WG2505619
n-Propylbenzene	U		0.000950	0.00500	1	05/03/2025 07:16	WG2505619
Styrene	U		0.000229	0.0125	1	05/03/2025 07:16	WG2505619
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250	1	05/03/2025 07:16	WG2505619
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250	1	05/03/2025 07:16	WG2505619
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250	1	05/03/2025 07:16	WG2505619
Tetrachloroethene	U		0.000896	0.00250	1	05/03/2025 07:16	WG2505619
Toluene	U		0.00130	0.00500	1	05/03/2025 07:16	WG2505619
1,2,3-Trichlorobenzene	U	C3	0.00733	0.0125	1	05/03/2025 07:16	WG2505619
1,2,4-Trichlorobenzene	U	C3	0.00440	0.0125	1	05/03/2025 07:16	WG2505619
1,1,1-Trichloroethane	U		0.000923	0.00250	1	05/03/2025 07:16	WG2505619

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.000597	0.00250	1	05/03/2025 07:16	WG2505619
Trichloroethene	U		0.000584	0.00100	1	05/03/2025 07:16	WG2505619
Trichlorofluoromethane	U		0.000827	0.00250	1	05/03/2025 07:16	WG2505619
1,2,3-Trichloropropane	U		0.00162	0.0125	1	05/03/2025 07:16	WG2505619
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/03/2025 07:16	WG2505619
1,2,3-Trimethylbenzene	U		0.00158	0.00500	1	05/03/2025 07:16	WG2505619
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/03/2025 07:16	WG2505619
Vinyl chloride	U		0.00116	0.00250	1	05/03/2025 07:16	WG2505619
Xylenes, Total	U		0.000880	0.00650	1	05/03/2025 07:16	WG2505619
(S) Toluene-d8	97.6			75.0-131		05/03/2025 07:16	WG2505619
(S) 4-Bromofluorobenzene	97.3			67.0-138		05/03/2025 07:16	WG2505619
(S) 1,2-Dichloroethane-d4	110			70.0-130		05/03/2025 07:16	WG2505619

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	18.7		1.61	4.00	1	05/07/2025 01:53	WG2506350
C28-C36 Motor Oil Range	49.3		0.274	4.00	1	05/07/2025 01:53	WG2506350
(S) o-Terphenyl	38.7			18.0-148		05/07/2025 01:53	WG2506350

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.0330	0.0330	1	05/06/2025 20:11	WG2504882
Acenaphthene	U		0.0330	0.0330	1	05/06/2025 20:11	WG2504882
Acenaphthylene	U		0.0330	0.0330	1	05/06/2025 20:11	WG2504882
Benzo(a)anthracene	U		0.00600	0.00600	1	05/06/2025 20:11	WG2504882
Benzo(a)pyrene	U		0.0330	0.0330	1	05/06/2025 20:11	WG2504882
Benzo(b)fluoranthene	U		0.0330	0.0330	1	05/06/2025 20:11	WG2504882
Benzo(g,h,i)perylene	U		0.0330	0.0330	1	05/06/2025 20:11	WG2504882
Benzo(k)fluoranthene	U		0.0330	0.0330	1	05/06/2025 20:11	WG2504882
Chrysene	U		0.0330	0.0330	1	05/06/2025 20:11	WG2504882
Dibenz(a,h)anthracene	U		0.0330	0.0330	1	05/06/2025 20:11	WG2504882
Fluoranthene	U		0.0330	0.0330	1	05/06/2025 20:11	WG2504882
Fluorene	U		0.0330	0.0330	1	05/06/2025 20:11	WG2504882
Indeno(1,2,3-cd)pyrene	U		0.0330	0.0330	1	05/06/2025 20:11	WG2504882
Naphthalene	U		0.00300	0.00300	1	05/06/2025 20:11	WG2504882
Phenanthrene	U		0.0330	0.0330	1	05/06/2025 20:11	WG2504882
Pyrene	U		0.0330	0.0330	1	05/06/2025 20:11	WG2504882
1-Methylnaphthalene	U		0.00300	0.00300	1	05/06/2025 20:11	WG2504882
2-Methylnaphthalene	U		0.0120	0.0120	1	05/06/2025 20:11	WG2504882
(S) p-Terphenyl-d14	68.0			23.0-120		05/06/2025 20:11	WG2504882
(S) Nitrobenzene-d5	85.0			14.0-149		05/06/2025 20:11	WG2504882
(S) 2-Fluorobiphenyl	77.1			34.0-125		05/06/2025 20:11	WG2504882

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.36		1	05/03/2025 03:19	WG2505001

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/05/2025 04:56	WG2504790

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.94	<u>T8</u>	1	05/03/2025 18:40	WG2505938

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	4010	umhos/cm		10.0	1	05/03/2025 15:10	WG2505940

Sample Narrative:

L1852794-03 WG2505940: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.718		0.0167	0.200	1	05/03/2025 12:06	WG2505049

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.31		0.100	1.00	5	05/07/2025 17:18	WG2506487
Barium	192		0.152	2.50	5	05/07/2025 17:18	WG2506487
Cadmium	0.115	<u>J</u>	0.0855	1.00	5	05/07/2025 17:18	WG2506487
Copper	9.17		0.132	5.00	5	05/07/2025 17:18	WG2506487
Lead	8.68		0.0990	2.00	5	05/07/2025 17:18	WG2506487
Nickel	12.0		0.197	2.50	5	05/07/2025 17:18	WG2506487
Selenium	0.710	<u>J</u>	0.180	2.50	5	05/07/2025 17:18	WG2506487
Silver	U		0.0865	0.500	5	05/07/2025 17:18	WG2506487
Zinc	37.8		0.740	25.0	5	05/07/2025 17:18	WG2506487

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	05/02/2025 05:53	WG2504959
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		05/02/2025 05:53	WG2504959

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0365	0.0500	1	05/03/2025 07:36	WG2505619
Acrylonitrile	U		0.00361	0.0125	1	05/03/2025 07:36	WG2505619
Benzene	U		0.000467	0.00100	1	05/03/2025 07:36	WG2505619
Bromobenzene	U		0.000900	0.0125	1	05/03/2025 07:36	WG2505619
Bromodichloromethane	U		0.000725	0.00250	1	05/03/2025 07:36	WG2505619

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Bromoform	U		0.0017	0.0250	1	05/03/2025 07:36	WG2505619
Bromomethane	0.00604	<u>B</u> <u>J</u>	0.00197	0.0125	1	05/03/2025 07:36	WG2505619
n-Butylbenzene	U		0.00525	0.0125	1	05/03/2025 07:36	WG2505619
sec-Butylbenzene	U		0.00288	0.0125	1	05/03/2025 07:36	WG2505619
tert-Butylbenzene	U		0.00195	0.00500	1	05/03/2025 07:36	WG2505619
Carbon tetrachloride	U		0.000898	0.00500	1	05/03/2025 07:36	WG2505619
Chlorobenzene	U		0.000210	0.00250	1	05/03/2025 07:36	WG2505619
Chlorodibromomethane	U		0.000612	0.00250	1	05/03/2025 07:36	WG2505619
Chloroethane	U		0.00170	0.00500	1	05/03/2025 07:36	WG2505619
Chloroform	0.00116	<u>B</u> <u>J</u>	0.00103	0.00250	1	05/03/2025 07:36	WG2505619
Chloromethane	U		0.00435	0.0125	1	05/03/2025 07:36	WG2505619
2-Chlorotoluene	U		0.000865	0.00250	1	05/03/2025 07:36	WG2505619
4-Chlorotoluene	U		0.000450	0.00500	1	05/03/2025 07:36	WG2505619
1,2-Dibromo-3-Chloropropane	U	<u>C</u> <u>3</u>	0.00390	0.0250	1	05/03/2025 07:36	WG2505619
1,2-Dibromoethane	U		0.000648	0.00250	1	05/03/2025 07:36	WG2505619
Dibromomethane	U		0.000750	0.00500	1	05/03/2025 07:36	WG2505619
1,2-Dichlorobenzene	U		0.000425	0.00500	1	05/03/2025 07:36	WG2505619
1,3-Dichlorobenzene	U		0.000600	0.00500	1	05/03/2025 07:36	WG2505619
1,4-Dichlorobenzene	U		0.000700	0.00500	1	05/03/2025 07:36	WG2505619
Dichlorodifluoromethane	U		0.00161	0.00500	1	05/03/2025 07:36	WG2505619
1,1-Dichloroethane	U		0.000491	0.00250	1	05/03/2025 07:36	WG2505619
1,2-Dichloroethane	U		0.000649	0.00250	1	05/03/2025 07:36	WG2505619
1,1-Dichloroethene	U		0.000606	0.00250	1	05/03/2025 07:36	WG2505619
cis-1,2-Dichloroethene	U		0.000734	0.00250	1	05/03/2025 07:36	WG2505619
trans-1,2-Dichloroethene	U		0.00104	0.00500	1	05/03/2025 07:36	WG2505619
1,2-Dichloropropane	U		0.00142	0.00500	1	05/03/2025 07:36	WG2505619
1,1-Dichloropropene	U		0.000809	0.00250	1	05/03/2025 07:36	WG2505619
1,3-Dichloropropane	U		0.000501	0.00500	1	05/03/2025 07:36	WG2505619
cis-1,3-Dichloropropene	U		0.000757	0.00250	1	05/03/2025 07:36	WG2505619
trans-1,3-Dichloropropene	U		0.00114	0.00500	1	05/03/2025 07:36	WG2505619
2,2-Dichloropropane	U		0.00138	0.00250	1	05/03/2025 07:36	WG2505619
Di-isopropyl ether	U		0.000410	0.00100	1	05/03/2025 07:36	WG2505619
Ethylbenzene	U		0.000737	0.00250	1	05/03/2025 07:36	WG2505619
Hexachloro-1,3-butadiene	U	<u>C</u> <u>3</u>	0.00600	0.0250	1	05/03/2025 07:36	WG2505619
Isopropylbenzene	U		0.000425	0.00250	1	05/03/2025 07:36	WG2505619
p-Isopropyltoluene	U		0.00255	0.00500	1	05/03/2025 07:36	WG2505619
2-Butanone (MEK)	U		0.0635	0.100	1	05/03/2025 07:36	WG2505619
Methylene Chloride	U		0.00664	0.0250	1	05/03/2025 07:36	WG2505619
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250	1	05/03/2025 07:36	WG2505619
Methyl tert-butyl ether	U		0.000350	0.00100	1	05/03/2025 07:36	WG2505619
Naphthalene	U	<u>C</u> <u>3</u>	0.00488	0.0125	1	05/03/2025 07:36	WG2505619
n-Propylbenzene	U		0.000950	0.00500	1	05/03/2025 07:36	WG2505619
Styrene	U		0.000229	0.0125	1	05/03/2025 07:36	WG2505619
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250	1	05/03/2025 07:36	WG2505619
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250	1	05/03/2025 07:36	WG2505619
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250	1	05/03/2025 07:36	WG2505619
Tetrachloroethene	U		0.000896	0.00250	1	05/03/2025 07:36	WG2505619
Toluene	U		0.00130	0.00500	1	05/03/2025 07:36	WG2505619
1,2,3-Trichlorobenzene	U	<u>C</u> <u>3</u>	0.00733	0.0125	1	05/03/2025 07:36	WG2505619
1,2,4-Trichlorobenzene	U	<u>C</u> <u>3</u>	0.00440	0.0125	1	05/03/2025 07:36	WG2505619
1,1,1-Trichloroethane	U		0.000923	0.00250	1	05/03/2025 07:36	WG2505619
1,1,2-Trichloroethane	U		0.000597	0.00250	1	05/03/2025 07:36	WG2505619
Trichloroethene	U		0.000584	0.00100	1	05/03/2025 07:36	WG2505619
Trichlorofluoromethane	U		0.000827	0.00250	1	05/03/2025 07:36	WG2505619
1,2,3-Trichloropropane	U		0.00162	0.0125	1	05/03/2025 07:36	WG2505619
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/03/2025 07:36	WG2505619

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2,3-Trimethylbenzene	U		0.00158	0.00500	1	05/03/2025 07:36	WG2505619
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/03/2025 07:36	WG2505619
Vinyl chloride	U		0.00116	0.00250	1	05/03/2025 07:36	WG2505619
Xylenes, Total	U		0.000880	0.00650	1	05/03/2025 07:36	WG2505619
(S) Toluene-d8	96.5			75.0-131		05/03/2025 07:36	WG2505619
(S) 4-Bromofluorobenzene	93.4			67.0-138		05/03/2025 07:36	WG2505619
(S) 1,2-Dichloroethane-d4	110			70.0-130		05/03/2025 07:36	WG2505619

1 Cp

2 Tc

3 Ss

4 Cn

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.76	U	1.61	4.00	1	05/07/2025 02:07	WG2506350
C28-C36 Motor Oil Range	1.65	U	0.274	4.00	1	05/07/2025 02:07	WG2506350
(S) o-Terphenyl	49.1			18.0-148		05/07/2025 02:07	WG2506350

5 Sr

6 Qc

7 Gl

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.0330	0.0330	1	05/06/2025 20:28	WG2504882
Acenaphthene	U		0.0330	0.0330	1	05/06/2025 20:28	WG2504882
Acenaphthylene	U		0.0330	0.0330	1	05/06/2025 20:28	WG2504882
Benzo(a)anthracene	U		0.00600	0.00600	1	05/06/2025 20:28	WG2504882
Benzo(a)pyrene	U		0.0330	0.0330	1	05/06/2025 20:28	WG2504882
Benzo(b)fluoranthene	U		0.0330	0.0330	1	05/06/2025 20:28	WG2504882
Benzo(g,h,i)perylene	U		0.0330	0.0330	1	05/06/2025 20:28	WG2504882
Benzo(k)fluoranthene	U		0.0330	0.0330	1	05/06/2025 20:28	WG2504882
Chrysene	U		0.0330	0.0330	1	05/06/2025 20:28	WG2504882
Dibenz(a,h)anthracene	U		0.0330	0.0330	1	05/06/2025 20:28	WG2504882
Fluoranthene	U		0.0330	0.0330	1	05/06/2025 20:28	WG2504882
Fluorene	U		0.0330	0.0330	1	05/06/2025 20:28	WG2504882
Indeno(1,2,3-cd)pyrene	U		0.0330	0.0330	1	05/06/2025 20:28	WG2504882
Naphthalene	U		0.00300	0.00300	1	05/06/2025 20:28	WG2504882
Phenanthrene	U		0.0330	0.0330	1	05/06/2025 20:28	WG2504882
Pyrene	U		0.0330	0.0330	1	05/06/2025 20:28	WG2504882
1-Methylnaphthalene	U		0.00300	0.00300	1	05/06/2025 20:28	WG2504882
2-Methylnaphthalene	U		0.0120	0.0120	1	05/06/2025 20:28	WG2504882
(S) p-Terphenyl-d14	71.4			23.0-120		05/06/2025 20:28	WG2504882
(S) Nitrobenzene-d5	90.9			14.0-149		05/06/2025 20:28	WG2504882
(S) 2-Fluorobiphenyl	79.4			34.0-125		05/06/2025 20:28	WG2504882

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.836		1	05/03/2025 03:24	WG2505001

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/05/2025 05:05	WG2504790

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.09	<u>T8</u>	1	05/03/2025 18:40	WG2505938

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	775	umhos/cm		10.0	1	05/03/2025 15:10	WG2505940

Sample Narrative:

L1852794-04 WG2505940: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.708		0.0167	0.200	1	05/03/2025 12:08	WG2505049

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	19.8		0.100	1.00	5	05/07/2025 17:22	WG2506487
Barium	125		0.152	2.50	5	05/07/2025 17:22	WG2506487
Cadmium	0.157	<u>J</u>	0.0855	1.00	5	05/07/2025 17:22	WG2506487
Copper	13.7		0.132	5.00	5	05/07/2025 17:22	WG2506487
Lead	13.2		0.0990	2.00	5	05/07/2025 17:22	WG2506487
Nickel	15.0		0.197	2.50	5	05/07/2025 17:22	WG2506487
Selenium	1.60	<u>J</u>	0.180	2.50	5	05/07/2025 17:22	WG2506487
Silver	U		0.0865	0.500	5	05/07/2025 17:22	WG2506487
Zinc	50.2		0.740	25.0	5	05/07/2025 17:22	WG2506487

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0293	<u>B J</u>	0.0217	0.100	1	05/02/2025 06:17	WG2504959
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		05/02/2025 06:17	WG2504959

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0365	0.0500	1	05/03/2025 07:56	WG2505619
Acrylonitrile	U		0.00361	0.0125	1	05/03/2025 07:56	WG2505619
Benzene	U		0.000467	0.00100	1	05/03/2025 07:56	WG2505619
Bromobenzene	U		0.000900	0.0125	1	05/03/2025 07:56	WG2505619
Bromodichloromethane	U		0.000725	0.00250	1	05/03/2025 07:56	WG2505619

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Bromoform	U		0.0017	0.0250	1	05/03/2025 07:56	WG2505619
Bromomethane	0.00449	<u>B</u> <u>J</u>	0.00197	0.0125	1	05/03/2025 07:56	WG2505619
n-Butylbenzene	U		0.00525	0.0125	1	05/03/2025 07:56	WG2505619
sec-Butylbenzene	U		0.00288	0.0125	1	05/03/2025 07:56	WG2505619
tert-Butylbenzene	U		0.00195	0.00500	1	05/03/2025 07:56	WG2505619
Carbon tetrachloride	U		0.000898	0.00500	1	05/03/2025 07:56	WG2505619
Chlorobenzene	U		0.000210	0.00250	1	05/03/2025 07:56	WG2505619
Chlorodibromomethane	U		0.000612	0.00250	1	05/03/2025 07:56	WG2505619
Chloroethane	U		0.00170	0.00500	1	05/03/2025 07:56	WG2505619
Chloroform	U		0.00103	0.00250	1	05/03/2025 07:56	WG2505619
Chloromethane	U		0.00435	0.0125	1	05/03/2025 07:56	WG2505619
2-Chlorotoluene	U		0.000865	0.00250	1	05/03/2025 07:56	WG2505619
4-Chlorotoluene	U		0.000450	0.00500	1	05/03/2025 07:56	WG2505619
1,2-Dibromo-3-Chloropropane	U	<u>C</u> <u>3</u>	0.00390	0.0250	1	05/03/2025 07:56	WG2505619
1,2-Dibromoethane	U		0.000648	0.00250	1	05/03/2025 07:56	WG2505619
Dibromomethane	U		0.000750	0.00500	1	05/03/2025 07:56	WG2505619
1,2-Dichlorobenzene	U		0.000425	0.00500	1	05/03/2025 07:56	WG2505619
1,3-Dichlorobenzene	U		0.000600	0.00500	1	05/03/2025 07:56	WG2505619
1,4-Dichlorobenzene	U		0.000700	0.00500	1	05/03/2025 07:56	WG2505619
Dichlorodifluoromethane	U		0.00161	0.00500	1	05/03/2025 07:56	WG2505619
1,1-Dichloroethane	U		0.000491	0.00250	1	05/03/2025 07:56	WG2505619
1,2-Dichloroethane	U		0.000649	0.00250	1	05/03/2025 07:56	WG2505619
1,1-Dichloroethene	U		0.000606	0.00250	1	05/03/2025 07:56	WG2505619
cis-1,2-Dichloroethene	U		0.000734	0.00250	1	05/03/2025 07:56	WG2505619
trans-1,2-Dichloroethene	U		0.00104	0.00500	1	05/03/2025 07:56	WG2505619
1,2-Dichloropropane	U		0.00142	0.00500	1	05/03/2025 07:56	WG2505619
1,1-Dichloropropene	U		0.000809	0.00250	1	05/03/2025 07:56	WG2505619
1,3-Dichloropropane	U		0.000501	0.00500	1	05/03/2025 07:56	WG2505619
cis-1,3-Dichloropropene	U		0.000757	0.00250	1	05/03/2025 07:56	WG2505619
trans-1,3-Dichloropropene	U		0.00114	0.00500	1	05/03/2025 07:56	WG2505619
2,2-Dichloropropane	U		0.00138	0.00250	1	05/03/2025 07:56	WG2505619
Di-isopropyl ether	U		0.000410	0.00100	1	05/03/2025 07:56	WG2505619
Ethylbenzene	U		0.000737	0.00250	1	05/03/2025 07:56	WG2505619
Hexachloro-1,3-butadiene	U	<u>C</u> <u>3</u>	0.00600	0.0250	1	05/03/2025 07:56	WG2505619
Isopropylbenzene	U		0.000425	0.00250	1	05/03/2025 07:56	WG2505619
p-Isopropyltoluene	U		0.00255	0.00500	1	05/03/2025 07:56	WG2505619
2-Butanone (MEK)	U		0.0635	0.100	1	05/03/2025 07:56	WG2505619
Methylene Chloride	U		0.00664	0.0250	1	05/03/2025 07:56	WG2505619
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250	1	05/03/2025 07:56	WG2505619
Methyl tert-butyl ether	U		0.000350	0.00100	1	05/03/2025 07:56	WG2505619
Naphthalene	U	<u>C</u> <u>3</u>	0.00488	0.0125	1	05/03/2025 07:56	WG2505619
n-Propylbenzene	U		0.000950	0.00500	1	05/03/2025 07:56	WG2505619
Styrene	U		0.000229	0.0125	1	05/03/2025 07:56	WG2505619
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250	1	05/03/2025 07:56	WG2505619
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250	1	05/03/2025 07:56	WG2505619
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250	1	05/03/2025 07:56	WG2505619
Tetrachloroethene	U		0.000896	0.00250	1	05/03/2025 07:56	WG2505619
Toluene	U		0.00130	0.00500	1	05/03/2025 07:56	WG2505619
1,2,3-Trichlorobenzene	U	<u>C</u> <u>3</u>	0.00733	0.0125	1	05/03/2025 07:56	WG2505619
1,2,4-Trichlorobenzene	U	<u>C</u> <u>3</u>	0.00440	0.0125	1	05/03/2025 07:56	WG2505619
1,1,1-Trichloroethane	U		0.000923	0.00250	1	05/03/2025 07:56	WG2505619
1,1,2-Trichloroethane	U		0.000597	0.00250	1	05/03/2025 07:56	WG2505619
Trichloroethene	U		0.000584	0.00100	1	05/03/2025 07:56	WG2505619
Trichlorofluoromethane	U		0.000827	0.00250	1	05/03/2025 07:56	WG2505619
1,2,3-Trichloropropane	U		0.00162	0.0125	1	05/03/2025 07:56	WG2505619
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/03/2025 07:56	WG2505619

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2,3-Trimethylbenzene	U		0.00158	0.00500	1	05/03/2025 07:56	WG2505619
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/03/2025 07:56	WG2505619
Vinyl chloride	U		0.00116	0.00250	1	05/03/2025 07:56	WG2505619
Xylenes, Total	U		0.000880	0.00650	1	05/03/2025 07:56	WG2505619
(S) Toluene-d8	97.1			75.0-131		05/03/2025 07:56	WG2505619
(S) 4-Bromofluorobenzene	92.3			67.0-138		05/03/2025 07:56	WG2505619
(S) 1,2-Dichloroethane-d4	107			70.0-130		05/03/2025 07:56	WG2505619

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.90	U	1.61	4.00	1	05/07/2025 02:21	WG2506350
C28-C36 Motor Oil Range	3.82	U	0.274	4.00	1	05/07/2025 02:21	WG2506350
(S) o-Terphenyl	42.6			18.0-148		05/07/2025 02:21	WG2506350

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.0330	0.0330	1	05/06/2025 03:17	WG2505558
Acenaphthene	U		0.0330	0.0330	1	05/06/2025 03:17	WG2505558
Acenaphthylene	U		0.0330	0.0330	1	05/06/2025 03:17	WG2505558
Benzo(a)anthracene	U		0.00600	0.00600	1	05/06/2025 03:17	WG2505558
Benzo(a)pyrene	U		0.0330	0.0330	1	05/06/2025 03:17	WG2505558
Benzo(b)fluoranthene	U		0.0330	0.0330	1	05/06/2025 03:17	WG2505558
Benzo(g,h,i)perylene	U		0.0330	0.0330	1	05/06/2025 03:17	WG2505558
Benzo(k)fluoranthene	U		0.0330	0.0330	1	05/06/2025 03:17	WG2505558
Chrysene	U		0.0330	0.0330	1	05/06/2025 03:17	WG2505558
Dibenz(a,h)anthracene	U		0.0330	0.0330	1	05/06/2025 03:17	WG2505558
Fluoranthene	U		0.0330	0.0330	1	05/06/2025 03:17	WG2505558
Fluorene	U		0.0330	0.0330	1	05/06/2025 03:17	WG2505558
Indeno(1,2,3-cd)pyrene	U		0.0330	0.0330	1	05/06/2025 03:17	WG2505558
Naphthalene	U		0.00300	0.00300	1	05/06/2025 03:17	WG2505558
Phenanthrene	U		0.0330	0.0330	1	05/06/2025 03:17	WG2505558
Pyrene	U		0.0330	0.0330	1	05/06/2025 03:17	WG2505558
1-Methylnaphthalene	U		0.00300	0.00300	1	05/06/2025 03:17	WG2505558
2-Methylnaphthalene	U		0.0120	0.0120	1	05/06/2025 03:17	WG2505558
(S) p-Terphenyl-d14	63.4			23.0-120		05/06/2025 03:17	WG2505558
(S) Nitrobenzene-d5	70.3			14.0-149		05/06/2025 03:17	WG2505558
(S) 2-Fluorobiphenyl	62.7			34.0-125		05/06/2025 03:17	WG2505558

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.36		1	05/03/2025 03:26	WG2505001

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/05/2025 05:14	WG2504790

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.70	<u>T8</u>	1	05/03/2025 18:40	WG2505938

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	2720	umhos/cm		10.0	1	05/03/2025 15:10	WG2505940

Sample Narrative:

L1852794-05 WG2505940: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.818		0.0167	0.200	1	05/03/2025 12:11	WG2505049

Metals (ICPMS) by Method 6020

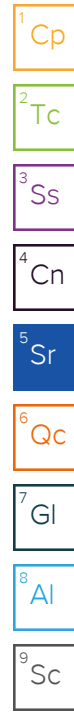
Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.84		0.100	1.00	5	05/07/2025 17:32	WG2506487
Barium	99.2		0.152	2.50	5	05/07/2025 17:32	WG2506487
Cadmium	0.375	<u>J</u>	0.0855	1.00	5	05/07/2025 17:32	WG2506487
Copper	16.4		0.132	5.00	5	05/07/2025 17:32	WG2506487
Lead	47.7		0.0990	2.00	5	05/07/2025 17:32	WG2506487
Nickel	10.5		0.197	2.50	5	05/07/2025 17:32	WG2506487
Selenium	0.760	<u>J</u>	0.180	2.50	5	05/07/2025 17:32	WG2506487
Silver	U		0.0865	0.500	5	05/07/2025 17:32	WG2506487
Zinc	54.4		0.740	25.0	5	05/07/2025 17:32	WG2506487

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0285	<u>B J</u>	0.0217	0.100	1	05/02/2025 06:41	WG2504959
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		05/02/2025 06:41	WG2504959

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0365	0.0500	1	05/03/2025 08:16	WG2505619
Acrylonitrile	U		0.00361	0.0125	1	05/03/2025 08:16	WG2505619
Benzene	U		0.000467	0.00100	1	05/03/2025 08:16	WG2505619
Bromobenzene	U		0.000900	0.0125	1	05/03/2025 08:16	WG2505619
Bromodichloromethane	U		0.000725	0.00250	1	05/03/2025 08:16	WG2505619



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Bromoform	U		0.0017	0.0250	1	05/03/2025 08:16	WG2505619
Bromomethane	0.00342	<u>B</u> <u>J</u>	0.00197	0.0125	1	05/03/2025 08:16	WG2505619
n-Butylbenzene	U		0.00525	0.0125	1	05/03/2025 08:16	WG2505619
sec-Butylbenzene	U		0.00288	0.0125	1	05/03/2025 08:16	WG2505619
tert-Butylbenzene	U		0.00195	0.00500	1	05/03/2025 08:16	WG2505619
Carbon tetrachloride	U		0.000898	0.00500	1	05/03/2025 08:16	WG2505619
Chlorobenzene	U		0.000210	0.00250	1	05/03/2025 08:16	WG2505619
Chlorodibromomethane	U		0.000612	0.00250	1	05/03/2025 08:16	WG2505619
Chloroethane	U		0.00170	0.00500	1	05/03/2025 08:16	WG2505619
Chloroform	0.00107	<u>B</u> <u>J</u>	0.00103	0.00250	1	05/03/2025 08:16	WG2505619
Chloromethane	U		0.00435	0.0125	1	05/03/2025 08:16	WG2505619
2-Chlorotoluene	U		0.000865	0.00250	1	05/03/2025 08:16	WG2505619
4-Chlorotoluene	U		0.000450	0.00500	1	05/03/2025 08:16	WG2505619
1,2-Dibromo-3-Chloropropane	U	<u>C</u> <u>3</u>	0.00390	0.0250	1	05/03/2025 08:16	WG2505619
1,2-Dibromoethane	U		0.000648	0.00250	1	05/03/2025 08:16	WG2505619
Dibromomethane	U		0.000750	0.00500	1	05/03/2025 08:16	WG2505619
1,2-Dichlorobenzene	U		0.000425	0.00500	1	05/03/2025 08:16	WG2505619
1,3-Dichlorobenzene	U		0.000600	0.00500	1	05/03/2025 08:16	WG2505619
1,4-Dichlorobenzene	U		0.000700	0.00500	1	05/03/2025 08:16	WG2505619
Dichlorodifluoromethane	U		0.00161	0.00500	1	05/03/2025 08:16	WG2505619
1,1-Dichloroethane	U		0.000491	0.00250	1	05/03/2025 08:16	WG2505619
1,2-Dichloroethane	U		0.000649	0.00250	1	05/03/2025 08:16	WG2505619
1,1-Dichloroethene	U		0.000606	0.00250	1	05/03/2025 08:16	WG2505619
cis-1,2-Dichloroethene	U		0.000734	0.00250	1	05/03/2025 08:16	WG2505619
trans-1,2-Dichloroethene	U		0.00104	0.00500	1	05/03/2025 08:16	WG2505619
1,2-Dichloropropane	U		0.00142	0.00500	1	05/03/2025 08:16	WG2505619
1,1-Dichloropropene	U		0.000809	0.00250	1	05/03/2025 08:16	WG2505619
1,3-Dichloropropane	U		0.000501	0.00500	1	05/03/2025 08:16	WG2505619
cis-1,3-Dichloropropene	U		0.000757	0.00250	1	05/03/2025 08:16	WG2505619
trans-1,3-Dichloropropene	U		0.00114	0.00500	1	05/03/2025 08:16	WG2505619
2,2-Dichloropropane	U		0.00138	0.00250	1	05/03/2025 08:16	WG2505619
Di-isopropyl ether	U		0.000410	0.00100	1	05/03/2025 08:16	WG2505619
Ethylbenzene	U		0.000737	0.00250	1	05/03/2025 08:16	WG2505619
Hexachloro-1,3-butadiene	U	<u>C</u> <u>3</u>	0.00600	0.0250	1	05/03/2025 08:16	WG2505619
Isopropylbenzene	U		0.000425	0.00250	1	05/03/2025 08:16	WG2505619
p-Isopropyltoluene	U		0.00255	0.00500	1	05/03/2025 08:16	WG2505619
2-Butanone (MEK)	U		0.0635	0.100	1	05/03/2025 08:16	WG2505619
Methylene Chloride	U		0.00664	0.0250	1	05/03/2025 08:16	WG2505619
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250	1	05/03/2025 08:16	WG2505619
Methyl tert-butyl ether	U		0.000350	0.00100	1	05/03/2025 08:16	WG2505619
Naphthalene	U	<u>C</u> <u>3</u>	0.00488	0.0125	1	05/03/2025 08:16	WG2505619
n-Propylbenzene	U		0.000950	0.00500	1	05/03/2025 08:16	WG2505619
Styrene	U		0.000229	0.0125	1	05/03/2025 08:16	WG2505619
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250	1	05/03/2025 08:16	WG2505619
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250	1	05/03/2025 08:16	WG2505619
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250	1	05/03/2025 08:16	WG2505619
Tetrachloroethene	U		0.000896	0.00250	1	05/03/2025 08:16	WG2505619
Toluene	U		0.00130	0.00500	1	05/03/2025 08:16	WG2505619
1,2,3-Trichlorobenzene	U	<u>C</u> <u>3</u>	0.00733	0.0125	1	05/03/2025 08:16	WG2505619
1,2,4-Trichlorobenzene	U	<u>C</u> <u>3</u>	0.00440	0.0125	1	05/03/2025 08:16	WG2505619
1,1,1-Trichloroethane	U		0.000923	0.00250	1	05/03/2025 08:16	WG2505619
1,1,2-Trichloroethane	U		0.000597	0.00250	1	05/03/2025 08:16	WG2505619
Trichloroethene	U		0.000584	0.00100	1	05/03/2025 08:16	WG2505619
Trichlorofluoromethane	U		0.000827	0.00250	1	05/03/2025 08:16	WG2505619
1,2,3-Trichloropropane	U		0.00162	0.0125	1	05/03/2025 08:16	WG2505619
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/03/2025 08:16	WG2505619

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2,3-Trimethylbenzene	U		0.00158	0.00500	1	05/03/2025 08:16	WG2505619
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/03/2025 08:16	WG2505619
Vinyl chloride	U		0.00116	0.00250	1	05/03/2025 08:16	WG2505619
Xylenes, Total	U		0.000880	0.00650	1	05/03/2025 08:16	WG2505619
(S) Toluene-d8	98.1			75.0-131		05/03/2025 08:16	WG2505619
(S) 4-Bromofluorobenzene	97.2			67.0-138		05/03/2025 08:16	WG2505619
(S) 1,2-Dichloroethane-d4	109			70.0-130		05/03/2025 08:16	WG2505619

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	734		32.2	80.0	20	05/07/2025 03:31	WG2506350
C28-C36 Motor Oil Range	1140		5.48	80.0	20	05/07/2025 03:31	WG2506350
(S) o-Terphenyl	0.000	J7		18.0-148		05/07/2025 03:31	WG2506350

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.0330	0.0330	1	05/06/2025 06:35	WG2505558
Acenaphthene	U		0.0330	0.0330	1	05/06/2025 06:35	WG2505558
Acenaphthylene	U		0.0330	0.0330	1	05/06/2025 06:35	WG2505558
Benzo(a)anthracene	U		0.00600	0.00600	1	05/06/2025 06:35	WG2505558
Benzo(a)pyrene	U		0.0330	0.0330	1	05/06/2025 06:35	WG2505558
Benzo(b)fluoranthene	U		0.0330	0.0330	1	05/06/2025 06:35	WG2505558
Benzo(g,h,i)perylene	U		0.0330	0.0330	1	05/06/2025 06:35	WG2505558
Benzo(k)fluoranthene	U		0.0330	0.0330	1	05/06/2025 06:35	WG2505558
Chrysene	U		0.0330	0.0330	1	05/06/2025 06:35	WG2505558
Dibenz(a,h)anthracene	U		0.0330	0.0330	1	05/06/2025 06:35	WG2505558
Fluoranthene	U		0.0330	0.0330	1	05/06/2025 06:35	WG2505558
Fluorene	0.0396		0.0330	0.0330	1	05/06/2025 06:35	WG2505558
Indeno(1,2,3-cd)pyrene	U		0.0330	0.0330	1	05/06/2025 06:35	WG2505558
Naphthalene	0.00805		0.00300	0.00300	1	05/06/2025 06:35	WG2505558
Phenanthrene	0.0467		0.0330	0.0330	1	05/06/2025 06:35	WG2505558
Pyrene	0.0334		0.0330	0.0330	1	05/06/2025 06:35	WG2505558
1-Methylnaphthalene	0.0132		0.00300	0.00300	1	05/06/2025 06:35	WG2505558
2-Methylnaphthalene	0.0193		0.0120	0.0120	1	05/06/2025 06:35	WG2505558
(S) p-Terphenyl-d14	73.8			23.0-120		05/06/2025 06:35	WG2505558
(S) Nitrobenzene-d5	101			14.0-149		05/06/2025 06:35	WG2505558
(S) 2-Fluorobiphenyl	74.0			34.0-125		05/06/2025 06:35	WG2505558

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.08		1	05/03/2025 03:28	WG2505001

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.379	1.00	1	05/05/2025 05:23	WG2504790

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.08	<u>T8</u>	1	05/03/2025 18:40	WG2505938

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	2030	umhos/cm		10.0	1	05/03/2025 15:10	WG2505940

Sample Narrative:

L1852794-06 WG2505940: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	1.02		0.0167	0.200	1	05/03/2025 12:14	WG2505049

Metals (ICPMS) by Method 6020

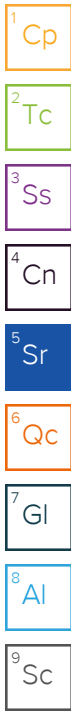
Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.46		0.100	1.00	5	05/07/2025 17:35	WG2506487
Barium	229		0.152	2.50	5	05/07/2025 17:35	WG2506487
Cadmium	0.110	<u>J</u>	0.0855	1.00	5	05/07/2025 17:35	WG2506487
Copper	10.9		0.132	5.00	5	05/07/2025 17:35	WG2506487
Lead	10.5		0.0990	2.00	5	05/07/2025 17:35	WG2506487
Nickel	12.7		0.197	2.50	5	05/07/2025 17:35	WG2506487
Selenium	1.32	<u>J</u>	0.180	2.50	5	05/07/2025 17:35	WG2506487
Silver	U		0.0865	0.500	5	05/07/2025 17:35	WG2506487
Zinc	43.5		0.740	25.0	5	05/07/2025 17:35	WG2506487

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0492	<u>B J</u>	0.0217	0.100	1	05/02/2025 07:05	WG2504959
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		05/02/2025 07:05	WG2504959

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	U	<u>J4 J5</u>	0.0365	0.0500	1	05/04/2025 13:33	WG2506567
Acrylonitrile	U		0.00361	0.0125	1	05/04/2025 13:33	WG2506567
Benzene	U		0.000467	0.00100	1	05/04/2025 13:33	WG2506567
Bromobenzene	U		0.000900	0.0125	1	05/04/2025 13:33	WG2506567
Bromodichloromethane	U		0.000725	0.00250	1	05/04/2025 13:33	WG2506567



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Bromoform	U		0.00117	0.0250	1	05/04/2025 13:33	WG2506567
Bromomethane	U	J4	0.00197	0.0125	1	05/04/2025 13:33	WG2506567
n-Butylbenzene	U		0.00525	0.0125	1	05/04/2025 13:33	WG2506567
sec-Butylbenzene	U		0.00288	0.0125	1	05/04/2025 13:33	WG2506567
tert-Butylbenzene	U		0.00195	0.00500	1	05/04/2025 13:33	WG2506567
Carbon tetrachloride	U		0.000898	0.00500	1	05/04/2025 13:33	WG2506567
Chlorobenzene	U		0.000210	0.00250	1	05/04/2025 13:33	WG2506567
Chlorodibromomethane	U		0.000612	0.00250	1	05/04/2025 13:33	WG2506567
Chloroethane	U	J3	0.00170	0.00500	1	05/04/2025 13:33	WG2506567
Chloroform	U		0.00103	0.00250	1	05/04/2025 13:33	WG2506567
Chloromethane	U		0.00435	0.0125	1	05/04/2025 13:33	WG2506567
2-Chlorotoluene	U		0.000865	0.00250	1	05/04/2025 13:33	WG2506567
4-Chlorotoluene	U		0.000450	0.00500	1	05/04/2025 13:33	WG2506567
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250	1	05/04/2025 13:33	WG2506567
1,2-Dibromoethane	U		0.000648	0.00250	1	05/04/2025 13:33	WG2506567
Dibromomethane	U		0.000750	0.00500	1	05/04/2025 13:33	WG2506567
1,2-Dichlorobenzene	U		0.000425	0.00500	1	05/04/2025 13:33	WG2506567
1,3-Dichlorobenzene	U		0.000600	0.00500	1	05/04/2025 13:33	WG2506567
1,4-Dichlorobenzene	U		0.000700	0.00500	1	05/04/2025 13:33	WG2506567
Dichlorodifluoromethane	U	J5	0.00161	0.00500	1	05/04/2025 13:33	WG2506567
1,1-Dichloroethane	U		0.000491	0.00250	1	05/04/2025 13:33	WG2506567
1,2-Dichloroethane	U		0.000649	0.00250	1	05/04/2025 13:33	WG2506567
1,1-Dichloroethene	U	J3	0.000606	0.00250	1	05/04/2025 13:33	WG2506567
cis-1,2-Dichloroethene	U		0.000734	0.00250	1	05/04/2025 13:33	WG2506567
trans-1,2-Dichloroethene	U		0.00104	0.00500	1	05/04/2025 13:33	WG2506567
1,2-Dichloropropane	U		0.00142	0.00500	1	05/04/2025 13:33	WG2506567
1,1-Dichloropropene	U		0.000809	0.00250	1	05/04/2025 13:33	WG2506567
1,3-Dichloropropane	U		0.000501	0.00500	1	05/04/2025 13:33	WG2506567
cis-1,3-Dichloropropene	U		0.000757	0.00250	1	05/04/2025 13:33	WG2506567
trans-1,3-Dichloropropene	U		0.00114	0.00500	1	05/04/2025 13:33	WG2506567
2,2-Dichloropropane	U	J4	0.00138	0.00250	1	05/04/2025 13:33	WG2506567
Di-isopropyl ether	U		0.000410	0.00100	1	05/04/2025 13:33	WG2506567
Ethylbenzene	U		0.000737	0.00250	1	05/04/2025 13:33	WG2506567
Hexachloro-1,3-butadiene	U		0.00600	0.0250	1	05/04/2025 13:33	WG2506567
Isopropylbenzene	U		0.000425	0.00250	1	05/04/2025 13:33	WG2506567
p-Isopropyltoluene	U		0.00255	0.00500	1	05/04/2025 13:33	WG2506567
2-Butanone (MEK)	U		0.0635	0.100	1	05/04/2025 13:33	WG2506567
Methylene Chloride	U		0.00664	0.0250	1	05/04/2025 13:33	WG2506567
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250	1	05/04/2025 13:33	WG2506567
Methyl tert-butyl ether	U		0.000350	0.00100	1	05/04/2025 13:33	WG2506567
Naphthalene	U	C3	0.00488	0.0125	1	05/04/2025 13:33	WG2506567
n-Propylbenzene	U		0.000950	0.00500	1	05/04/2025 13:33	WG2506567
Styrene	U		0.000229	0.0125	1	05/04/2025 13:33	WG2506567
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250	1	05/04/2025 13:33	WG2506567
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250	1	05/04/2025 13:33	WG2506567
1,1,2-Trichlorotrifluoroethane	U	J3	0.000754	0.00250	1	05/04/2025 13:33	WG2506567
Tetrachloroethene	U		0.000896	0.00250	1	05/04/2025 13:33	WG2506567
Toluene	U		0.00130	0.00500	1	05/04/2025 13:33	WG2506567
1,2,3-Trichlorobenzene	U	J5	0.00733	0.0125	1	05/04/2025 13:33	WG2506567
1,2,4-Trichlorobenzene	U	J5	0.00440	0.0125	1	05/04/2025 13:33	WG2506567
1,1,1-Trichloroethane	U		0.000923	0.00250	1	05/04/2025 13:33	WG2506567
1,1,2-Trichloroethane	U		0.000597	0.00250	1	05/04/2025 13:33	WG2506567
Trichloroethene	U		0.000584	0.00100	1	05/04/2025 13:33	WG2506567
Trichlorofluoromethane	U	J3	0.000827	0.00250	1	05/04/2025 13:33	WG2506567
1,2,3-Trichloropropane	U		0.00162	0.0125	1	05/04/2025 13:33	WG2506567
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/04/2025 13:33	WG2506567

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2,3-Trimethylbenzene	U		0.00158	0.00500	1	05/04/2025 13:33	WG2506567
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/04/2025 13:33	WG2506567
Vinyl chloride	U		0.00116	0.00250	1	05/04/2025 13:33	WG2506567
Xylenes, Total	U		0.000880	0.00650	1	05/04/2025 13:33	WG2506567
(S) Toluene-d8	89.8			75.0-131		05/04/2025 13:33	WG2506567
(S) 4-Bromofluorobenzene	104			67.0-138		05/04/2025 13:33	WG2506567
(S) 1,2-Dichloroethane-d4	102			70.0-130		05/04/2025 13:33	WG2506567

1 Cp
2 Tc
3 Ss
4 Cn

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.68		1.61	4.00	1	05/07/2025 02:35	WG2506350
C28-C36 Motor Oil Range	10.4		0.274	4.00	1	05/07/2025 02:35	WG2506350
(S) o-Terphenyl	33.7			18.0-148		05/07/2025 02:35	WG2506350

5 Sr
6 Qc
7 Gl

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.0330	0.0330	1	05/06/2025 03:34	WG2505558
Acenaphthene	U		0.0330	0.0330	1	05/06/2025 03:34	WG2505558
Acenaphthylene	U		0.0330	0.0330	1	05/06/2025 03:34	WG2505558
Benzo(a)anthracene	U		0.00600	0.00600	1	05/06/2025 03:34	WG2505558
Benzo(a)pyrene	U		0.0330	0.0330	1	05/06/2025 03:34	WG2505558
Benzo(b)fluoranthene	U		0.0330	0.0330	1	05/06/2025 03:34	WG2505558
Benzo(g,h,i)perylene	U		0.0330	0.0330	1	05/06/2025 03:34	WG2505558
Benzo(k)fluoranthene	U		0.0330	0.0330	1	05/06/2025 03:34	WG2505558
Chrysene	U		0.0330	0.0330	1	05/06/2025 03:34	WG2505558
Dibenz(a,h)anthracene	U		0.0330	0.0330	1	05/06/2025 03:34	WG2505558
Fluoranthene	U		0.0330	0.0330	1	05/06/2025 03:34	WG2505558
Fluorene	U		0.0330	0.0330	1	05/06/2025 03:34	WG2505558
Indeno(1,2,3-cd)pyrene	U		0.0330	0.0330	1	05/06/2025 03:34	WG2505558
Naphthalene	U		0.00300	0.00300	1	05/06/2025 03:34	WG2505558
Phenanthrene	U		0.0330	0.0330	1	05/06/2025 03:34	WG2505558
Pyrene	U		0.0330	0.0330	1	05/06/2025 03:34	WG2505558
1-Methylnaphthalene	U		0.00300	0.00300	1	05/06/2025 03:34	WG2505558
2-Methylnaphthalene	U		0.0120	0.0120	1	05/06/2025 03:34	WG2505558
(S) p-Terphenyl-d14	84.0			23.0-120		05/06/2025 03:34	WG2505558
(S) Nitrobenzene-d5	87.1			14.0-149		05/06/2025 03:34	WG2505558
(S) 2-Fluorobiphenyl	76.8			34.0-125		05/06/2025 03:34	WG2505558

8 Al
9 Sc

Method Blank (MB)

(MB) R4209640-1 05/04/25 22:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Hexavalent Chromium	U		0.379	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1852741-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1852741-02 05/04/25 22:54 • (DUP) R4209640-2 05/04/25 23:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	U	U	1	0.000		20

L1852788-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1852788-02 05/05/25 02:24 • (DUP) R4209640-8 05/05/25 04:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4209640-7 05/05/25 04:11

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Hexavalent Chromium	10.0	11.0	110	80.0-120	

L1852762-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852762-06 05/05/25 01:21 • (MS) R4209640-3 05/05/25 01:30 • (MSD) R4209640-4 05/05/25 01:39

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Hexavalent Chromium	20.0	U	17.3	18.7	86.5	93.3	1	75.0-125			7.61	20

L1852762-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1852762-06 05/05/25 01:21 • (MS) R4209640-5 05/05/25 01:48

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Hexavalent Chromium	646	U	676	105	50	75.0-125	

L1852783-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1852783-06 05/03/25 18:40 • (DUP) R4209406-2 05/03/25 18:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
su	su			%		%
pH	8.67	8.68	1	0.115		1

¹Cp

²Tc

³Ss

L1853071-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1853071-07 05/03/25 18:40 • (DUP) R4209406-3 05/03/25 18:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
su	su			%		%
pH	8.20	8.18	1	0.244		1

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R4209406-1 05/03/25 18:40

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
su	su		%	%	
pH	10.0	9.99	99.9	99.0-101	

⁷Gl

⁸Al

⁹Sc

L1852631-40 Original Sample (OS) • Duplicate (DUP)

(OS) L1852631-40 05/06/25 12:40 • (DUP) R4210412-2 05/06/25 12:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.43	8.41	1	0.238		1

Sample Narrative:

OS: 0
DUP: 0

Laboratory Control Sample (LCS)

(LCS) R4210412-1 05/06/25 12:40

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.95	99.5	99.0-101	

Sample Narrative:

LCS: 0

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

Method Blank (MB)

(MB) R4209377-1 05/03/25 15:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1851937-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1851937-02 05/03/25 15:10 • (DUP) R4209377-3 05/03/25 15:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	621	619	1	0.323		20

Sample Narrative:

OS: at 25C
DUP: at 25C

L1853071-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1853071-06 05/03/25 15:10 • (DUP) R4209377-4 05/03/25 15:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	259	258	1	0.504		20

Sample Narrative:

OS: at 25C
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4209377-2 05/03/25 15:10

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Specific Conductance	1130	1080	95.8	85.0-115	

Sample Narrative:

LCS: at 25C

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4210634-1 05/06/25 16:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1852368-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1852368-01 05/06/25 16:54 • (DUP) R4210634-3 05/06/25 16:54

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	3560	3550	1	0.281		20

Sample Narrative:

OS: at 25C
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4210634-2 05/06/25 16:54

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Specific Conductance	1130	1080	95.4	85.0-115	

Sample Narrative:

LCS: at 25C

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4209324-1 05/03/25 11:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

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

(LCS) R4209324-2 05/03/25 11:28 • (LCSD) R4209324-3 05/03/25 11:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	0.996	1.01	99.6	101	80.0-120			1.26	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4211304-1 05/07/25 16:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Copper	U		0.133	5.00
Lead	U		0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	U		0.740	25.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R4211304-2 05/07/25 16:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	99.5	99.5	80.0-120	
Barium	100	100	100	80.0-120	
Cadmium	100	101	101	80.0-120	
Copper	100	99.8	99.8	80.0-120	
Lead	100	97.1	97.1	80.0-120	
Nickel	100	103	103	80.0-120	
Selenium	100	98.2	98.2	80.0-120	
Silver	20.0	20.4	102	80.0-120	
Zinc	100	99.1	99.1	80.0-120	

⁷Gl

⁸Al

⁹Sc

L1852794-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852794-01 05/07/25 16:58 • (MS) R4211304-5 05/07/25 17:08 • (MSD) R4211304-6 05/07/25 17:12

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 %
Arsenic	100	3.87	104	104	99.7	99.7	5	75.0-125			0.0754	20
Barium	100	77.9	176	181	98.0	103	5	75.0-125			2.74	20
Cadmium	100	0.207	103	102	103	102	5	75.0-125			1.22	20
Copper	100	33.8	134	137	99.8	103	5	75.0-125			2.19	20
Lead	100	32.9	129	129	95.9	96.3	5	75.0-125			0.337	20
Nickel	100	8.35	110	107	102	98.6	5	75.0-125			2.74	20
Selenium	100	1.04	102	102	101	101	5	75.0-125			0.472	20
Silver	20.0	U	20.7	20.3	103	101	5	75.0-125			1.85	20
Zinc	100	38.4	137	135	98.4	97.1	5	75.0-125			0.989	20

Method Blank (MB)

(MB) R4210255-2 05/01/25 22:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0226	↓	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120

Laboratory Control Sample (LCS)

(LCS) R4210255-1 05/01/25 21:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.00	5.47	109	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			114	77.0-120	

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

Method Blank (MB)

(MB) R4209737-2 05/03/25 02:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	0.00413	U	0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	0.00128	U	0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
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
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4209737-2 05/03/25 02:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	97.2			75.0-131
(S) 4-Bromofluorobenzene	96.6			67.0-138
(S) 1,2-Dichloroethane-d4	112			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4209737-1 05/03/25 01:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.776	124	10.0-160	
Acrylonitrile	0.625	0.562	89.9	45.0-153	
Benzene	0.125	0.123	98.4	70.0-123	
Bromobenzene	0.125	0.128	102	73.0-121	
Bromodichloromethane	0.125	0.128	102	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R4209737-1 05/03/25 01:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromoform	0.125	0.100	80.0	64.0-132	
Bromomethane	0.125	0.142	114	56.0-147	
n-Butylbenzene	0.125	0.118	94.4	68.0-135	
sec-Butylbenzene	0.125	0.120	96.0	74.0-130	
tert-Butylbenzene	0.125	0.120	96.0	75.0-127	
Carbon tetrachloride	0.125	0.126	101	66.0-128	
Chlorobenzene	0.125	0.122	97.6	76.0-128	
Chlorodibromomethane	0.125	0.112	89.6	74.0-127	
Chloroethane	0.125	0.155	124	61.0-134	
Chloroform	0.125	0.135	108	72.0-123	
Chloromethane	0.125	0.133	106	51.0-138	
2-Chlorotoluene	0.125	0.128	102	75.0-124	
4-Chlorotoluene	0.125	0.128	102	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.0845	67.6	59.0-130	
1,2-Dibromoethane	0.125	0.110	88.0	74.0-128	
Dibromomethane	0.125	0.127	102	75.0-122	
1,2-Dichlorobenzene	0.125	0.124	99.2	76.0-124	
1,3-Dichlorobenzene	0.125	0.125	100	76.0-125	
1,4-Dichlorobenzene	0.125	0.126	101	77.0-121	
Dichlorodifluoromethane	0.125	0.166	133	43.0-156	
1,1-Dichloroethane	0.125	0.115	92.0	70.0-127	
1,2-Dichloroethane	0.125	0.141	113	65.0-131	
1,1-Dichloroethene	0.125	0.101	80.8	65.0-131	
cis-1,2-Dichloroethene	0.125	0.104	83.2	73.0-125	
trans-1,2-Dichloroethene	0.125	0.106	84.8	71.0-125	
1,2-Dichloropropane	0.125	0.127	102	74.0-125	
1,1-Dichloropropene	0.125	0.126	101	73.0-125	
1,3-Dichloropropane	0.125	0.120	96.0	80.0-125	
cis-1,3-Dichloropropene	0.125	0.122	97.6	76.0-127	
trans-1,3-Dichloropropene	0.125	0.119	95.2	73.0-127	
2,2-Dichloropropane	0.125	0.115	92.0	59.0-135	
Di-isopropyl ether	0.125	0.115	92.0	60.0-136	
Ethylbenzene	0.125	0.115	92.0	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.0831	66.5	57.0-150	
Isopropylbenzene	0.125	0.114	91.2	72.0-127	
p-Isopropyltoluene	0.125	0.116	92.8	72.0-133	
2-Butanone (MEK)	0.625	0.757	121	30.0-160	
Methylene Chloride	0.125	0.106	84.8	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.654	105	56.0-143	
Methyl tert-butyl ether	0.125	0.110	88.0	66.0-132	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R4209737-1 05/03/25 01:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Naphthalene	0.125	0.0895	71.6	59.0-130	
n-Propylbenzene	0.125	0.129	103	74.0-126	
Styrene	0.125	0.108	86.4	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.110	88.0	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.116	92.8	68.0-128	
1,1,2-Trichlorotrifluoroethane	0.125	0.111	88.8	61.0-139	
Tetrachloroethene	0.125	0.114	91.2	70.0-136	
Toluene	0.125	0.117	93.6	75.0-121	
1,2,3-Trichlorobenzene	0.125	0.0871	69.7	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.0984	78.7	62.0-137	
1,1,1-Trichloroethane	0.125	0.131	105	69.0-126	
1,1,2-Trichloroethane	0.125	0.114	91.2	78.0-123	
Trichloroethene	0.125	0.121	96.8	76.0-126	
Trichlorofluoromethane	0.125	0.123	98.4	61.0-142	
1,2,3-Trichloropropane	0.125	0.133	106	67.0-129	
1,2,4-Trimethylbenzene	0.125	0.124	99.2	70.0-126	
1,2,3-Trimethylbenzene	0.125	0.119	95.2	74.0-124	
1,3,5-Trimethylbenzene	0.125	0.122	97.6	73.0-127	
Vinyl chloride	0.125	0.160	128	63.0-134	
Xylenes, Total	0.375	0.346	92.3	72.0-127	
(S) Toluene-d8			96.4	75.0-131	
(S) 4-Bromofluorobenzene			90.6	67.0-138	
(S) 1,2-Dichloroethane-d4			116	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1852794-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852794-02 05/03/25 07:16 • (MS) R4209737-3 05/03/25 09:35 • (MSD) R4209737-4 05/03/25 09:55

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.625	U	0.556	0.517	89.0	82.7	1	10.0-160			7.27	40
Acrylonitrile	0.625	U	0.745	0.670	119	107	1	10.0-160			10.6	40
Benzene	0.125	U	0.148	0.135	118	108	1	10.0-149			9.19	37
Bromobenzene	0.125	U	0.143	0.125	114	100	1	10.0-156			13.4	38
Bromodichloromethane	0.125	U	0.140	0.124	112	99.2	1	10.0-143			12.1	37
Bromoform	0.125	U	0.109	0.0968	87.2	77.4	1	10.0-146			11.9	36
Bromomethane	0.125	0.00418	0.150	0.120	117	92.7	1	10.0-149			22.2	38
n-Butylbenzene	0.125	U	0.131	0.134	105	107	1	10.0-160			2.26	40
sec-Butylbenzene	0.125	U	0.144	0.132	115	106	1	10.0-159			8.70	39
tert-Butylbenzene	0.125	U	0.142	0.130	114	104	1	10.0-156			8.82	39

L1852794-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852794-02 05/03/25 07:16 • (MS) R4209737-3 05/03/25 09:35 • (MSD) R4209737-4 05/03/25 09:55

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 %
Carbon tetrachloride	0.125	U	0.150	0.138	120	110	1	10.0-145			8.33	37
Chlorobenzene	0.125	U	0.148	0.134	118	107	1	10.0-152			9.93	39
Chlorodibromomethane	0.125	U	0.123	0.112	98.4	89.6	1	10.0-146			9.36	37
Chloroethane	0.125	U	0.0442	0.0390	35.4	31.2	1	10.0-146			12.5	40
Chloroform	0.125	U	0.150	0.135	120	108	1	10.0-146			10.5	37
Chloromethane	0.125	U	0.126	0.120	101	96.0	1	10.0-159			4.88	37
2-Chlorotoluene	0.125	U	0.147	0.132	118	106	1	10.0-159			10.8	38
4-Chlorotoluene	0.125	U	0.146	0.133	117	106	1	10.0-155			9.32	39
1,2-Dibromo-3-Chloropropane	0.125	U	0.0814	0.0852	65.1	68.2	1	10.0-151			4.56	39
1,2-Dibromoethane	0.125	U	0.125	0.115	100	92.0	1	10.0-148			8.33	34
Dibromomethane	0.125	U	0.141	0.132	113	106	1	10.0-147			6.59	35
1,2-Dichlorobenzene	0.125	U	0.132	0.129	106	103	1	10.0-155			2.30	37
1,3-Dichlorobenzene	0.125	U	0.149	0.134	119	107	1	10.0-153			10.6	38
1,4-Dichlorobenzene	0.125	U	0.140	0.135	112	108	1	10.0-151			3.64	38
Dichlorodifluoromethane	0.125	U	0.146	0.139	117	111	1	10.0-160			4.91	35
1,1-Dichloroethane	0.125	U	0.153	0.139	122	111	1	10.0-147			9.59	37
1,2-Dichloroethane	0.125	U	0.151	0.135	121	108	1	10.0-148			11.2	35
1,1-Dichloroethene	0.125	U	0.135	0.118	108	94.4	1	10.0-155			13.4	37
cis-1,2-Dichloroethene	0.125	U	0.139	0.132	111	106	1	10.0-149			5.17	37
trans-1,2-Dichloroethene	0.125	U	0.142	0.128	114	102	1	10.0-150			10.4	37
1,2-Dichloropropane	0.125	U	0.145	0.135	116	108	1	10.0-148			7.14	37
1,1-Dichloropropene	0.125	U	0.169	0.154	135	123	1	10.0-153			9.29	35
1,3-Dichloropropane	0.125	U	0.136	0.123	109	98.4	1	10.0-154			10.0	35
cis-1,3-Dichloropropene	0.125	U	0.138	0.127	110	102	1	10.0-151			8.30	37
trans-1,3-Dichloropropene	0.125	U	0.132	0.118	106	94.4	1	10.0-148			11.2	37
2,2-Dichloropropane	0.125	U	0.141	0.130	113	104	1	10.0-138			8.12	36
Di-isopropyl ether	0.125	U	0.145	0.132	116	106	1	10.0-147			9.39	36
Ethylbenzene	0.125	U	0.146	0.133	117	106	1	10.0-160			9.32	38
Hexachloro-1,3-butadiene	0.125	U	0.0814	0.0909	65.1	72.7	1	10.0-160			11.0	40
Isopropylbenzene	0.125	U	0.130	0.119	104	95.2	1	10.0-155			8.84	38
p-Isopropyltoluene	0.125	U	0.135	0.124	108	99.2	1	10.0-160			8.49	40
2-Butanone (MEK)	0.625	U	0.669	0.633	107	101	1	10.0-160			5.53	40
Methylene Chloride	0.125	U	0.143	0.129	114	103	1	10.0-141			10.3	37
4-Methyl-2-pentanone (MIBK)	0.625	U	0.700	0.623	112	99.7	1	10.0-160			11.6	35
Methyl tert-butyl ether	0.125	U	0.136	0.120	109	96.0	1	11.0-147			12.5	35
Naphthalene	0.125	U	0.0826	0.0875	66.1	70.0	1	10.0-160			5.76	36
n-Propylbenzene	0.125	U	0.149	0.132	119	106	1	10.0-158			12.1	38
Styrene	0.125	U	0.133	0.120	106	96.0	1	10.0-160			10.3	40
1,1,1,2-Tetrachloroethane	0.125	U	0.132	0.119	106	95.2	1	10.0-149			10.4	39
1,1,2,2-Tetrachloroethane	0.125	U	0.125	0.110	100	88.0	1	10.0-160			12.8	35

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1852794-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852794-02 05/03/25 07:16 • (MS) R4209737-3 05/03/25 09:35 • (MSD) R4209737-4 05/03/25 09:55

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 %
1,1,2-Trichlorotrifluoroethane	0.125	U	0.148	0.130	118	104	1	10.0-160			12.9	36
Tetrachloroethene	0.125	U	0.147	0.129	118	103	1	10.0-156			13.0	39
Toluene	0.125	U	0.146	0.128	117	102	1	10.0-156			13.1	38
1,2,3-Trichlorobenzene	0.125	U	0.0844	0.0777	67.5	62.2	1	10.0-160			8.27	40
1,2,4-Trichlorobenzene	0.125	U	0.0942	0.101	75.4	80.8	1	10.0-160			6.97	40
1,1,1-Trichloroethane	0.125	U	0.155	0.140	124	112	1	10.0-144			10.2	35
1,1,2-Trichloroethane	0.125	U	0.130	0.116	104	92.8	1	10.0-160			11.4	35
Trichloroethene	0.125	U	0.144	0.132	115	106	1	10.0-156			8.70	38
Trichlorofluoromethane	0.125	U	0.0565	0.0498	45.2	39.8	1	10.0-160			12.6	40
1,2,3-Trichloropropane	0.125	U	0.139	0.123	111	98.4	1	10.0-156			12.2	35
1,2,4-Trimethylbenzene	0.125	U	0.141	0.127	113	102	1	10.0-160			10.4	36
1,2,3-Trimethylbenzene	0.125	U	0.135	0.127	108	102	1	10.0-160			6.11	36
1,3,5-Trimethylbenzene	0.125	U	0.143	0.126	114	101	1	10.0-160			12.6	38
Vinyl chloride	0.125	U	0.155	0.133	124	106	1	10.0-160			15.3	37
Xylenes, Total	0.375	U	0.431	0.387	115	103	1	10.0-160			10.8	38
(S) Toluene-d8					97.9	95.6		75.0-131				
(S) 4-Bromofluorobenzene					83.9	81.6		67.0-138				
(S) 1,2-Dichloroethane-d4					114	112		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4210683-2 05/04/25 13:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
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
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4210683-2 05/04/25 13:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	81.8			75.0-131
(S) 4-Bromofluorobenzene	126			67.0-138
(S) 1,2-Dichloroethane-d4	121			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4210683-1 05/04/25 09:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	1.69	270	10.0-160	<u>J4</u>
Acrylonitrile	0.625	0.771	123	45.0-153	
Benzene	0.125	0.140	112	70.0-123	
Bromobenzene	0.125	0.117	93.6	73.0-121	
Bromodichloromethane	0.125	0.150	120	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R4210683-1 05/04/25 09:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.115	92.0	64.0-132	
Bromomethane	0.125	0.209	167	56.0-147	J4
n-Butylbenzene	0.125	0.117	93.6	68.0-135	
sec-Butylbenzene	0.125	0.113	90.4	74.0-130	
tert-Butylbenzene	0.125	0.109	87.2	75.0-127	
Carbon tetrachloride	0.125	0.146	117	66.0-128	
Chlorobenzene	0.125	0.116	92.8	76.0-128	
Chlorodibromomethane	0.125	0.114	91.2	74.0-127	
Chloroethane	0.125	0.157	126	61.0-134	
Chloroform	0.125	0.148	118	72.0-123	
Chloromethane	0.125	0.109	87.2	51.0-138	
2-Chlorotoluene	0.125	0.108	86.4	75.0-124	
4-Chlorotoluene	0.125	0.117	93.6	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.103	82.4	59.0-130	
1,2-Dibromoethane	0.125	0.115	92.0	74.0-128	
Dibromomethane	0.125	0.136	109	75.0-122	
1,2-Dichlorobenzene	0.125	0.115	92.0	76.0-124	
1,3-Dichlorobenzene	0.125	0.110	88.0	76.0-125	
1,4-Dichlorobenzene	0.125	0.113	90.4	77.0-121	
Dichlorodifluoromethane	0.125	0.129	103	43.0-156	
1,1-Dichloroethane	0.125	0.157	126	70.0-127	
1,2-Dichloroethane	0.125	0.161	129	65.0-131	
1,1-Dichloroethene	0.125	0.157	126	65.0-131	
cis-1,2-Dichloroethene	0.125	0.127	102	73.0-125	
trans-1,2-Dichloroethene	0.125	0.133	106	71.0-125	
1,2-Dichloropropane	0.125	0.148	118	74.0-125	
1,1-Dichloropropene	0.125	0.143	114	73.0-125	
1,3-Dichloropropane	0.125	0.127	102	80.0-125	
cis-1,3-Dichloropropene	0.125	0.149	119	76.0-127	
trans-1,3-Dichloropropene	0.125	0.137	110	73.0-127	
2,2-Dichloropropane	0.125	0.177	142	59.0-135	J4
Di-isopropyl ether	0.125	0.148	118	60.0-136	
Ethylbenzene	0.125	0.112	89.6	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.128	102	57.0-150	
Isopropylbenzene	0.125	0.110	88.0	72.0-127	
p-Isopropyltoluene	0.125	0.109	87.2	72.0-133	
2-Butanone (MEK)	0.625	0.808	129	30.0-160	
Methylene Chloride	0.125	0.129	103	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.705	113	56.0-143	
Methyl tert-butyl ether	0.125	0.157	126	66.0-132	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R4210683-1 05/04/25 09:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Naphthalene	0.125	0.0831	66.5	59.0-130	
n-Propylbenzene	0.125	0.121	96.8	74.0-126	
Styrene	0.125	0.115	92.0	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.111	88.8	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.128	102	68.0-128	
1,1,2-Trichlorotrifluoroethane	0.125	0.131	105	61.0-139	
Tetrachloroethene	0.125	0.111	88.8	70.0-136	
Toluene	0.125	0.118	94.4	75.0-121	
1,2,3-Trichlorobenzene	0.125	0.119	95.2	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.110	88.0	62.0-137	
1,1,1-Trichloroethane	0.125	0.143	114	69.0-126	
1,1,2-Trichloroethane	0.125	0.132	106	78.0-123	
Trichloroethene	0.125	0.120	96.0	76.0-126	
Trichlorofluoromethane	0.125	0.169	135	61.0-142	
1,2,3-Trichloropropane	0.125	0.127	102	67.0-129	
1,2,4-Trimethylbenzene	0.125	0.117	93.6	70.0-126	
1,2,3-Trimethylbenzene	0.125	0.124	99.2	74.0-124	
1,3,5-Trimethylbenzene	0.125	0.117	93.6	73.0-127	
Vinyl chloride	0.125	0.138	110	63.0-134	
Xylenes, Total	0.375	0.326	86.9	72.0-127	
(S) Toluene-d8			92.3	75.0-131	
(S) 4-Bromofluorobenzene			93.8	67.0-138	
(S) 1,2-Dichloroethane-d4			115	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1852794-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852794-06 05/04/25 13:33 • (MS) R4210683-3 05/04/25 19:55 • (MSD) R4210683-4 05/04/25 20:15

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.625	U	0.985	1.15	158	184	1	10.0-160		J5	15.5	40
Acrylonitrile	0.625	U	0.680	0.680	109	109	1	10.0-160			0.000	40
Benzene	0.125	U	0.144	0.142	115	114	1	10.0-149			1.40	37
Bromobenzene	0.125	U	0.117	0.113	93.6	90.4	1	10.0-156			3.48	38
Bromodichloromethane	0.125	U	0.139	0.135	111	108	1	10.0-143			2.92	37
Bromoform	0.125	U	0.111	0.106	88.8	84.8	1	10.0-146			4.61	36
Bromomethane	0.125	U	0.172	0.147	138	118	1	10.0-149			15.7	38
n-Butylbenzene	0.125	U	0.148	0.147	118	118	1	10.0-160			0.678	40
sec-Butylbenzene	0.125	U	0.130	0.126	104	101	1	10.0-159			3.12	39
tert-Butylbenzene	0.125	U	0.118	0.111	94.4	88.8	1	10.0-156			6.11	39

L1852794-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852794-06 05/04/25 13:33 • (MS) R4210683-3 05/04/25 19:55 • (MSD) R4210683-4 05/04/25 20:15

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 %
Carbon tetrachloride	0.125	U	0.157	0.149	126	119	1	10.0-145			5.23	37
Chlorobenzene	0.125	U	0.119	0.116	95.2	92.8	1	10.0-152			2.55	39
Chlorodibromomethane	0.125	U	0.110	0.104	88.0	83.2	1	10.0-146			5.61	37
Chloroethane	0.125	U	0.102	0.0492	81.6	39.4	1	10.0-146		J3	69.8	40
Chloroform	0.125	U	0.144	0.144	115	115	1	10.0-146			0.000	37
Chloromethane	0.125	U	0.163	0.158	130	126	1	10.0-159			3.12	37
2-Chlorotoluene	0.125	U	0.115	0.113	92.0	90.4	1	10.0-159			1.75	38
4-Chlorotoluene	0.125	U	0.121	0.118	96.8	94.4	1	10.0-155			2.51	39
1,2-Dibromo-3-Chloropropane	0.125	U	0.122	0.121	97.6	96.8	1	10.0-151			0.823	39
1,2-Dibromoethane	0.125	U	0.112	0.107	89.6	85.6	1	10.0-148			4.57	34
Dibromomethane	0.125	U	0.131	0.132	105	106	1	10.0-147			0.760	35
1,2-Dichlorobenzene	0.125	U	0.127	0.125	102	100	1	10.0-155			1.59	37
1,3-Dichlorobenzene	0.125	U	0.121	0.116	96.8	92.8	1	10.0-153			4.22	38
1,4-Dichlorobenzene	0.125	U	0.121	0.116	96.8	92.8	1	10.0-151			4.22	38
Dichlorodifluoromethane	0.125	U	0.207	0.200	166	160	1	10.0-160	J5		3.44	35
1,1-Dichloroethane	0.125	U	0.159	0.163	127	130	1	10.0-147			2.48	37
1,2-Dichloroethane	0.125	U	0.162	0.163	130	130	1	10.0-148			0.615	35
1,1-Dichloroethene	0.125	U	0.104	0.0633	83.2	50.6	1	10.0-155		J3	48.7	37
cis-1,2-Dichloroethene	0.125	U	0.127	0.131	102	105	1	10.0-149			3.10	37
trans-1,2-Dichloroethene	0.125	U	0.136	0.136	109	109	1	10.0-150			0.000	37
1,2-Dichloropropane	0.125	U	0.146	0.148	117	118	1	10.0-148			1.36	37
1,1-Dichloropropene	0.125	U	0.151	0.149	121	119	1	10.0-153			1.33	35
1,3-Dichloropropane	0.125	U	0.123	0.120	98.4	96.0	1	10.0-154			2.47	35
cis-1,3-Dichloropropene	0.125	U	0.145	0.141	116	113	1	10.0-151			2.80	37
trans-1,3-Dichloropropene	0.125	U	0.138	0.132	110	106	1	10.0-148			4.44	37
2,2-Dichloropropane	0.125	U	0.165	0.139	132	111	1	10.0-138			17.1	36
Di-isopropyl ether	0.125	U	0.153	0.152	122	122	1	10.0-147			0.656	36
Ethylbenzene	0.125	U	0.117	0.113	93.6	90.4	1	10.0-160			3.48	38
Hexachloro-1,3-butadiene	0.125	U	0.184	0.186	147	149	1	10.0-160			1.08	40
Isopropylbenzene	0.125	U	0.128	0.126	102	101	1	10.0-155			1.57	38
p-Isopropyltoluene	0.125	U	0.125	0.123	100	98.4	1	10.0-160			1.61	40
2-Butanone (MEK)	0.625	U	0.563	0.509	90.1	81.4	1	10.0-160			10.1	40
Methylene Chloride	0.125	U	0.121	0.108	96.8	86.4	1	10.0-141			11.4	37
4-Methyl-2-pentanone (MIBK)	0.625	U	0.696	0.651	111	104	1	10.0-160			6.68	35
Methyl tert-butyl ether	0.125	U	0.135	0.146	108	117	1	11.0-147			7.83	35
Naphthalene	0.125	U	0.165	0.163	132	130	1	10.0-160			1.22	36
n-Propylbenzene	0.125	U	0.132	0.126	106	101	1	10.0-158			4.65	38
Styrene	0.125	U	0.124	0.119	99.2	95.2	1	10.0-160			4.12	40
1,1,1,2-Tetrachloroethane	0.125	U	0.116	0.114	92.8	91.2	1	10.0-149			1.74	39
1,1,2,2-Tetrachloroethane	0.125	U	0.112	0.101	89.6	80.8	1	10.0-160			10.3	35

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1852794-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852794-06 05/04/25 13:33 • (MS) R4210683-3 05/04/25 19:55 • (MSD) R4210683-4 05/04/25 20:15

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 %
1,1,2-Trichlorotrifluoroethane	0.125	U	0.123	0.0807	98.4	64.6	1	10.0-160		J3	41.5	36
Tetrachloroethene	0.125	U	0.121	0.120	96.8	96.0	1	10.0-156			0.830	39
Toluene	0.125	U	0.122	0.116	97.6	92.8	1	10.0-156			5.04	38
1,2,3-Trichlorobenzene	0.125	U	0.214	0.223	171	178	1	10.0-160	J5	J5	4.12	40
1,2,4-Trichlorobenzene	0.125	U	0.203	0.201	162	161	1	10.0-160	J5	J5	0.990	40
1,1,1-Trichloroethane	0.125	U	0.159	0.152	127	122	1	10.0-144			4.50	35
1,1,2-Trichloroethane	0.125	U	0.129	0.124	103	99.2	1	10.0-160			3.95	35
Trichloroethene	0.125	U	0.138	0.135	110	108	1	10.0-156			2.20	38
Trichlorofluoromethane	0.125	U	0.132	0.0651	106	52.1	1	10.0-160		J3	67.9	40
1,2,3-Trichloropropane	0.125	U	0.121	0.118	96.8	94.4	1	10.0-156			2.51	35
1,2,4-Trimethylbenzene	0.125	U	0.129	0.117	103	93.6	1	10.0-160			9.76	36
1,2,3-Trimethylbenzene	0.125	U	0.137	0.127	110	102	1	10.0-160			7.58	36
1,3,5-Trimethylbenzene	0.125	U	0.123	0.119	98.4	95.2	1	10.0-160			3.31	38
Vinyl chloride	0.125	U	0.198	0.192	158	154	1	10.0-160			3.08	37
Xylenes, Total	0.375	U	0.348	0.340	92.8	90.7	1	10.0-160			2.33	38
(S) Toluene-d8					90.8	90.8		75.0-131				
(S) 4-Bromofluorobenzene					102	101		67.0-138				
(S) 1,2-Dichloroethane-d4					107	109		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4210878-1 05/06/25 21:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
<i>(S) o-Terphenyl</i>	61.4			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4210878-2 05/06/25 21:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	30.2	60.4	50.0-150	
<i>(S) o-Terphenyl</i>			52.3	18.0-148	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4210322-2 05/06/25 09:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.0330	0.0330
Acenaphthene	U		0.00162	0.00600
Acenaphthylene	U		0.0330	0.0330
Benzo(a)anthracene	U		0.00200	0.00600
Benzo(a)pyrene	U		0.00163	0.00600
Benzo(b)fluoranthene	U		0.0330	0.0330
Benzo(g,h,i)perylene	U		0.0330	0.0330
Benzo(k)fluoranthene	U		0.0330	0.0330
Chrysene	U		0.00206	0.00600
Dibenz(a,h)anthracene	U		0.0330	0.0330
Fluoranthene	U		0.0330	0.0330
Fluorene	U		0.00180	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00234	0.00600
Naphthalene	U		0.00300	0.00300
Phenanthrene	U		0.00305	0.00600
Pyrene	U		0.00205	0.00600
1-Methylnaphthalene	U		0.00219	0.0200
2-Methylnaphthalene	U		0.0120	0.0120
<i>(S) p-Terphenyl-d14</i>	89.2			23.0-120
<i>(S) Nitrobenzene-d5</i>	89.3			14.0-149
<i>(S) 2-Fluorobiphenyl</i>	90.6			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4210322-1 05/06/25 09:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0626	78.3	50.0-126	
Acenaphthene	0.0800	0.0590	73.8	50.0-120	
Acenaphthylene	0.0800	0.0616	77.0	50.0-120	
Benzo(a)anthracene	0.0800	0.0648	81.0	45.0-120	
Benzo(a)pyrene	0.0800	0.0587	73.4	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0649	81.1	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0650	81.3	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0612	76.5	49.0-125	
Chrysene	0.0800	0.0660	82.5	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0681	85.1	47.0-125	
Fluoranthene	0.0800	0.0679	84.9	49.0-129	
Fluorene	0.0800	0.0645	80.6	49.0-120	

Laboratory Control Sample (LCS)

(LCS) R4210322-1 05/06/25 09:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Indeno(1,2,3-cd)pyrene	0.0800	0.0625	78.1	46.0-125	
Naphthalene	0.0800	0.0593	74.1	50.0-120	
Phenanthrene	0.0800	0.0646	80.7	47.0-120	
Pyrene	0.0800	0.0644	80.5	43.0-123	
1-Methylnaphthalene	0.0800	0.0629	78.6	51.0-121	
2-Methylnaphthalene	0.0800	0.0605	75.6	50.0-120	
(S) p-Terphenyl-d14			85.6	23.0-120	
(S) Nitrobenzene-d5			91.7	14.0-149	
(S) 2-Fluorobiphenyl			88.8	34.0-125	

L1852626-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852626-01 05/06/25 18:24 • (MS) R4210507-1 05/06/25 18:42 • (MSD) R4210507-2 05/06/25 19:00

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 %
Anthracene	0.0787	U	0.0501	0.0541	63.6	68.7	1	10.0-145			7.68	30
Acenaphthene	0.0787	U	0.0467	0.0506	59.3	64.2	1	14.0-127			8.02	27
Acenaphthylene	0.0787	U	0.0497	0.0527	63.1	66.9	1	21.0-124			5.86	25
Benzo(a)anthracene	0.0787	U	0.0538	0.0594	68.3	75.4	1	10.0-139			9.89	30
Benzo(a)pyrene	0.0787	0.00596	0.0462	0.0549	58.6	69.7	1	10.0-141			17.2	31
Benzo(b)fluoranthene	0.0787	U	0.0432	0.0482	54.8	61.2	1	10.0-140			10.9	36
Benzo(g,h,i)perylene	0.0787	U	0.0430	0.0477	54.6	60.5	1	10.0-140			10.4	33
Benzo(k)fluoranthene	0.0787	U	0.0418	0.0462	53.0	58.6	1	10.0-137			10.0	31
Chrysene	0.0787	U	0.0502	0.0562	63.7	71.3	1	10.0-145			11.3	30
Dibenz(a,h)anthracene	0.0787	U	0.0446	0.0494	56.6	62.7	1	10.0-132			10.2	31
Fluoranthene	0.0787	U	0.0508	0.0567	64.5	72.0	1	10.0-153			11.0	33
Fluorene	0.0787	0.00269	0.0539	0.0581	68.4	73.7	1	11.0-130			7.50	29
Indeno(1,2,3-cd)pyrene	0.0787	U	0.0451	0.0495	57.2	62.8	1	10.0-137			9.30	32
Naphthalene	0.0787	U	0.0465	0.0498	59.0	63.2	1	10.0-135			6.85	27
Phenanthrene	0.0787	U	0.0517	0.0558	65.6	70.8	1	10.0-144			7.63	31
Pyrene	0.0787	U	0.0480	0.0521	60.9	66.1	1	10.0-148			8.19	35
1-Methylnaphthalene	0.0787	U	0.0503	0.0538	63.8	68.3	1	10.0-142			6.72	28
2-Methylnaphthalene	0.0787	U	0.0484	0.0513	61.4	65.1	1	10.0-137			5.82	28
(S) p-Terphenyl-d14					60.9	66.7		23.0-120				
(S) Nitrobenzene-d5					68.0	70.5		14.0-149				
(S) 2-Fluorobiphenyl					65.7	71.5		34.0-125				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4210188-2 05/05/25 20:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.0330	0.0330
Acenaphthene	U		0.00162	0.00600
Acenaphthylene	U		0.0330	0.0330
Benzo(a)anthracene	U		0.00200	0.00600
Benzo(a)pyrene	U		0.00163	0.00600
Benzo(b)fluoranthene	U		0.0330	0.0330
Benzo(g,h,i)perylene	U		0.0330	0.0330
Benzo(k)fluoranthene	U		0.0330	0.0330
Chrysene	U		0.00206	0.00600
Dibenz(a,h)anthracene	U		0.0330	0.0330
Fluoranthene	U		0.0330	0.0330
Fluorene	U		0.00180	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00234	0.00600
Naphthalene	U		0.00300	0.00300
Phenanthrene	U		0.00305	0.00600
Pyrene	U		0.00205	0.00600
1-Methylnaphthalene	U		0.00219	0.0200
2-Methylnaphthalene	U		0.0120	0.0120
<i>(S) p-Terphenyl-d14</i>	109			23.0-120
<i>(S) Nitrobenzene-d5</i>	107			14.0-149
<i>(S) 2-Fluorobiphenyl</i>	94.0			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4210188-1 05/05/25 20:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0719	89.9	50.0-126	
Acenaphthene	0.0800	0.0673	84.1	50.0-120	
Acenaphthylene	0.0800	0.0705	88.1	50.0-120	
Benzo(a)anthracene	0.0800	0.0740	92.5	45.0-120	
Benzo(a)pyrene	0.0800	0.0753	94.1	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0739	92.4	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0722	90.3	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0780	97.5	49.0-125	
Chrysene	0.0800	0.0749	93.6	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0793	99.1	47.0-125	
Fluoranthene	0.0800	0.0802	100	49.0-129	
Fluorene	0.0800	0.0718	89.8	49.0-120	

Laboratory Control Sample (LCS)

(LCS) R4210188-1 05/05/25 20:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Indeno(1,2,3-cd)pyrene	0.0800	0.0740	92.5	46.0-125	
Naphthalene	0.0800	0.0716	89.5	50.0-120	
Phenanthrene	0.0800	0.0715	89.4	47.0-120	
Pyrene	0.0800	0.0801	100	43.0-123	
1-Methylnaphthalene	0.0800	0.0748	93.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0723	90.4	50.0-120	
(S) p-Terphenyl-d14			85.7	23.0-120	
(S) Nitrobenzene-d5			84.1	14.0-149	
(S) 2-Fluorobiphenyl			73.7	34.0-125	

L1852928-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852928-05 05/06/25 05:01 • (MS) R4210188-3 05/06/25 05:19 • (MSD) R4210188-4 05/06/25 05:36

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 %
Anthracene	0.0788	U	0.0655	0.0632	83.1	81.0	1	10.0-145			3.57	30
Acenaphthene	0.0788	U	0.0627	0.0613	79.6	78.6	1	14.0-127			2.26	27
Acenaphthylene	0.0788	U	0.0648	0.0641	82.2	82.2	1	21.0-124			1.09	25
Benzo(a)anthracene	0.0788	U	0.0680	0.0664	86.3	85.1	1	10.0-139			2.38	30
Benzo(a)pyrene	0.0788	U	0.0713	0.0688	90.5	88.2	1	10.0-141			3.57	31
Benzo(b)fluoranthene	0.0788	U	0.0681	0.0678	86.4	86.9	1	10.0-140			0.441	36
Benzo(g,h,i)perylene	0.0788	U	0.0626	0.0666	79.4	85.4	1	10.0-140			6.19	33
Benzo(k)fluoranthene	0.0788	U	0.0808	0.0804	103	103	1	10.0-137			0.496	31
Chrysene	0.0788	U	0.0673	0.0675	85.4	86.5	1	10.0-145			0.297	30
Dibenz(a,h)anthracene	0.0788	U	0.0709	0.0714	90.0	91.5	1	10.0-132			0.703	31
Fluoranthene	0.0788	U	0.0758	0.0737	96.2	94.5	1	10.0-153			2.81	33
Fluorene	0.0788	U	0.0674	0.0650	85.5	83.3	1	11.0-130			3.63	29
Indeno(1,2,3-cd)pyrene	0.0788	U	0.0644	0.0634	81.7	81.3	1	10.0-137			1.56	32
Naphthalene	0.0788	U	0.0670	0.0667	85.0	85.5	1	10.0-135			0.449	27
Phenanthrene	0.0788	U	0.0664	0.0650	84.3	83.3	1	10.0-144			2.13	31
Pyrene	0.0788	U	0.0744	0.0741	94.4	95.0	1	10.0-148			0.404	35
1-Methylnaphthalene	0.0788	U	0.0700	0.0704	88.8	90.3	1	10.0-142			0.570	28
2-Methylnaphthalene	0.0788	U	0.0682	0.0668	86.5	85.6	1	10.0-137			2.07	28
(S) p-Terphenyl-d14					98.1	99.6		23.0-120				
(S) Nitrobenzene-d5					90.1	93.1		14.0-149				
(S) 2-Fluorobiphenyl					86.4	87.9		34.0-125				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

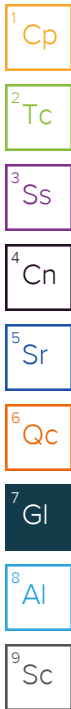
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
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.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
T8	Sample(s) received past/too close to holding time expiration.



ACCREDITATIONS & LOCATIONS

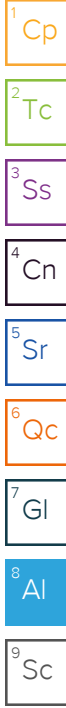
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



1852794

Table 915-1 (continued)

Contaminant of Concern	Concentrations	
	Residential Soil Screening Level Concentrations (mg/kg) ⁷	Protection of Groundwater Soil Screening Level Concentrations (mg/kg) Risk Based (R) and MCL Based (M) ^{7,8}
Organic Compounds in Soils^{6, 9, 10}		
benzene	1.2	0.0026 (M)
toluene	490	0.69 (M)
ethylbenzene	5.8	0.78 (M)
xylenes (sum of o-, m- and p-isomers = total xylenes)	58	9.9 (M)
1,2,4-trimethylbenzene	30	0.0081 (R)
1,3,5-trimethylbenzene	27	0.0087 (R)
acenaphthene	360	0.55 (R)
anthracene	1800	5.8 (R)
benz(a)anthracene	1.1	0.011 (R)
benzo(b)fluoranthene	1.1	0.3 (R)
benzo(k)fluoranthene	11	2.9 (R)
benzo(a)pyrene	0.11	0.24 (M)
chrysene	110	9 (R)
dibenzo(a,h)anthracene	0.11	0.096 (R)
fluoranthene	240	8.9 (R)
fluorene	240	0.54 (R)
indeno(1,2,3-cd)pyrene	1.1	0.98 (R)
1-methylnaphthalene	18	0.006 (R)
2-methylnaphthalene	24	0.019 (R)
naphthalene	2	0.0038 (R)
pyrene	180	1.3 (R)
Metals in Soils^{1, 6, 9, 10, 11}		
arsenic	0.68	0.29 (M)
barium	15000	82 (M)
cadmium	71	0.38 (M)
chromium (VI)	0.3	0.00067 (R)
copper	3100	46 (M)
lead	400	14 (M)
nickel	1500	26 (R)
selenium	390	0.26 (M)
silver	390	0.8 (R)
zinc	23000	370 (R)

Table 915-1
CLEANUP CONCENTRATIONS

UR52PH

Contaminant of Concern	Concentrations
Soil TPH (total volatile [C ₆ -C ₁₀] and extractable [C ₁₀ -C ₃₆] hydrocarbons)	500mg/kg
Soils and Groundwater - liquid hydrocarbons including condensate and oil	below visual detection limits
Soil Suitability for Reclamation	
Electrical conductivity (EC) (by saturated paste method) ^{1,2}	<4mmhos/cm
Sodium adsorption ratio (SAR) (by saturated paste method) ^{1,2,3}	<6
pH (by saturated paste method) ^{1,2}	6-8.3
boron (hot water soluble soil extract) ^{1,2,3}	2mg/l
Organic Compounds in Groundwater⁴	
benzene	5µg/l
toluene ⁵	560 to 1,000µg/l
ethylbenzene	700µg/l
xylenes (sum of o-, m- and p- isomers = total xylenes) ⁵	1,400 to 10,000µg/l
naphthalene	140µg/l
1,2,4-trimethylbenzene	67µg/l
1,3,5-trimethylbenzene	67µg/l
Groundwater Inorganic Parameters⁴	
total dissolved solids (TDS) ¹	<1.25 X local background
chloride ion ¹	250mg/l or <1.25 X local background
sulfate ion ¹	250mg/l or <1.25 X local background

4/29 L1852794 KPKAUFDDCO

R5

Time estimate: 0h

Time spent: 0h

Members



Hailey Robertson (responsible)



Tony Gibson

Due on 2 May 2025 8:00 AM for target Done

- Login Clarification needed
- Chain of custody is incomplete
- Custody seal not intact
- Please specify Metals requested
- Please specify TCLP requested
- Received additional samples not listed on COC
- Sample IDs on containers do not match IDs on COC
- Client did not "X" analysis
- Chain of Custody is missing
- If no COC: Received by: _____
- If no COC: Date/Time: _____
- If no COC: Temp./Cont Rec./pH: _____
- If no COC: Carrier: _____
- If no COC: Tracking #: _____
- Client informed by call
- Client informed by Email
- Client informed by Voicemail
- Date/Time: 4/29 12:30 PM _____
- PM initials: TG _____
- Client Contact: D Motisi _____

Comments

- Hailey Robertson 29 April 2025 12:26 PM

Received IDs: SS-1 @ 3, SS-2 @ 4 not listed on the COC.
- Tony Gibson 29 April 2025 2:20 PM

Please put those on hold and only run the samples on the COC.
- Hailey Robertson 29 April 2025 4:38 PM

Done