

Utah Gas Corporation

Sample Delivery Group: L1766145
Samples Received: 08/10/2024
Project Number: HILL 9-31
Description: Hill 9-31 Pipeline Leak
Site: HILL 9-31
Report To: Dana Pollack / April Mestas
1125 Escalante Drive
Rangely, CO 81648

Entire Report Reviewed By:



T. Alan Harvill
Project Manager

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Pace Analytical National

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SAMPLE SUMMARY

HILL 9-31 PIPELINE LEAK S2 L1766145-01 Solid

Collected by Dana Pollack
Collected date/time 08/05/24 09:00
Received date/time 08/10/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2341900	1	08/14/24 10:28	08/14/24 10:28	DJS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2342644	1	08/19/24 15:59	08/20/24 13:42	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2342618	1	08/14/24 10:51	08/14/24 11:22	KA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2342622	1	08/14/24 10:50	08/14/24 17:37	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2341902	1	08/15/24 10:21	08/15/24 17:27	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2342821	5	08/15/24 05:15	08/21/24 21:34	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2343149	1	08/13/24 22:44	08/14/24 23:41	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2344777	1	08/13/24 22:44	08/17/24 00:11	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2344870	1	08/19/24 14:48	08/20/24 09:41	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2344891	1	08/17/24 09:24	08/18/24 14:16	AGW	Mt. Juliet, TN



HILL 9-31 PIPELINE LEAK W2 L1766145-02 Solid

Collected by Dana Pollack
Collected date/time 08/05/24 09:10
Received date/time 08/10/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2341900	1	08/14/24 10:30	08/14/24 10:30	DJS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2342644	1	08/19/24 15:59	08/20/24 13:48	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2342618	1	08/14/24 10:51	08/14/24 11:22	KA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2342622	1	08/14/24 10:50	08/14/24 17:37	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2341902	1	08/15/24 10:21	08/15/24 17:30	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2342821	5	08/15/24 05:15	08/21/24 21:47	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2343149	1	08/13/24 22:44	08/15/24 00:03	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2344777	1	08/13/24 22:44	08/17/24 00:31	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2344870	1	08/19/24 14:48	08/20/24 10:20	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2344891	1	08/17/24 09:24	08/18/24 14:34	AGW	Mt. Juliet, TN

HILL 9-31 BGE L1766145-03 Solid

Collected by Dana Pollack
Collected date/time 08/05/24 09:15
Received date/time 08/10/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2341900	1	08/14/24 10:08	08/14/24 10:08	DJS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2342618	1	08/14/24 10:51	08/14/24 11:22	KA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2342622	1	08/14/24 10:50	08/14/24 17:37	BJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2342821	5	08/15/24 05:15	08/21/24 21:50	LD	Mt. Juliet, TN

HILL 9-31 BGSE L1766145-04 Solid

Collected by Dana Pollack
Collected date/time 08/05/24 09:20
Received date/time 08/10/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2341900	1	08/14/24 10:10	08/14/24 10:10	DJS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2342618	1	08/14/24 10:51	08/14/24 11:22	KA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2342622	1	08/14/24 10:50	08/14/24 17:37	BJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2342821	5	08/15/24 05:15	08/21/24 20:27	LD	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.



T. Alan Harvill
Project Manager



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.869		1	08/14/2024 10:28	WG2341900

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	08/20/2024 13:42	WG2342644

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.27	T8	1	08/14/2024 11:22	WG2342618

Sample Narrative:
L1766145-01 WG2342618: 8.27 at 22.6C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	513		10.0	1	08/14/2024 17:37	WG2342622

Sample Narrative:
L1766145-01 WG2342622: 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	1.10		0.0167	0.200	1	08/15/2024 17:27	WG2341902

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.07		0.100	1.00	5	08/21/2024 21:34	WG2342821
Barium	183		0.152	2.50	5	08/21/2024 21:34	WG2342821
Cadmium	0.432	J	0.0855	1.00	5	08/21/2024 21:34	WG2342821
Copper	16.9		0.132	5.00	5	08/21/2024 21:34	WG2342821
Lead	13.5		0.0990	2.00	5	08/21/2024 21:34	WG2342821
Nickel	14.5		0.197	2.50	5	08/21/2024 21:34	WG2342821
Selenium	0.936	J	0.180	2.50	5	08/21/2024 21:34	WG2342821
Silver	U		0.0865	0.500	5	08/21/2024 21:34	WG2342821
Zinc	66.4		0.740	25.0	5	08/21/2024 21:34	WG2342821

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	0.0252	J	0.0217	0.100	1	08/14/2024 23:41	WG2343149
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		08/14/2024 23:41	WG2343149

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	08/17/2024 00:11	WG2344777
Toluene	U		0.00130	0.00500	1	08/17/2024 00:11	WG2344777
Ethylbenzene	U		0.000737	0.00250	1	08/17/2024 00:11	WG2344777
Xylenes, Total	U		0.000880	0.00650	1	08/17/2024 00:11	WG2344777
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	08/17/2024 00:11	WG2344777
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	08/17/2024 00:11	WG2344777
(S) Toluene-d8	96.5			75.0-131		08/17/2024 00:11	WG2344777
(S) 4-Bromofluorobenzene	104			67.0-138		08/17/2024 00:11	WG2344777
(S) 1,2-Dichloroethane-d4	99.0			70.0-130		08/17/2024 00:11	WG2344777

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	U	J3	1.61	4.00	1	08/20/2024 09:41	WG2344870
C28-C36 Motor Oil Range	7.41		0.274	4.00	1	08/20/2024 09:41	WG2344870
(S) o-Terphenyl	65.2			18.0-148		08/20/2024 09:41	WG2344870

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	08/18/2024 14:16	WG2344891
Acenaphthene	U		0.00209	0.00600	1	08/18/2024 14:16	WG2344891
Acenaphthylene	U		0.00216	0.00600	1	08/18/2024 14:16	WG2344891
Benzo(a)anthracene	U		0.00173	0.00600	1	08/18/2024 14:16	WG2344891
Benzo(a)pyrene	U		0.00179	0.00600	1	08/18/2024 14:16	WG2344891
Benzo(b)fluoranthene	U		0.00153	0.00600	1	08/18/2024 14:16	WG2344891
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	08/18/2024 14:16	WG2344891
Benzo(k)fluoranthene	U		0.00215	0.00600	1	08/18/2024 14:16	WG2344891
Chrysene	U		0.00232	0.00600	1	08/18/2024 14:16	WG2344891
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	08/18/2024 14:16	WG2344891
Fluoranthene	U		0.00227	0.00600	1	08/18/2024 14:16	WG2344891
Fluorene	U		0.00205	0.00600	1	08/18/2024 14:16	WG2344891
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	08/18/2024 14:16	WG2344891
Naphthalene	U		0.00408	0.0200	1	08/18/2024 14:16	WG2344891
Phenanthrene	U		0.00231	0.00600	1	08/18/2024 14:16	WG2344891
Pyrene	U		0.00200	0.00600	1	08/18/2024 14:16	WG2344891
1-Methylnaphthalene	U		0.00449	0.0200	1	08/18/2024 14:16	WG2344891
2-Methylnaphthalene	U		0.00427	0.0200	1	08/18/2024 14:16	WG2344891
2-Chloronaphthalene	U		0.00466	0.0200	1	08/18/2024 14:16	WG2344891
(S) p-Terphenyl-d14	107			23.0-120		08/18/2024 14:16	WG2344891
(S) Nitrobenzene-d5	109			14.0-149		08/18/2024 14:16	WG2344891
(S) 2-Fluorobiphenyl	91.2			34.0-125		08/18/2024 14:16	WG2344891

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.67		1	08/14/2024 10:30	WG2341900

1
Cp

2
Tc

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	08/20/2024 13:48	WG2342644

3
Ss

4
Cn

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.85	T8	1	08/14/2024 11:22	WG2342618

5
Sr

6
Qc

Sample Narrative:

L1766145-02 WG2342618: 7.85 at 22.7C

7
Gl

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	5420		10.0	1	08/14/2024 17:37	WG2342622

8
Al

9
Sc

Sample Narrative:

L1766145-02 WG2342622: 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	1.85		0.0167	0.200	1	08/15/2024 17:30	WG2341902

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.17		0.100	1.00	5	08/21/2024 21:47	WG2342821
Barium	158		0.152	2.50	5	08/21/2024 21:47	WG2342821
Cadmium	0.307	J	0.0855	1.00	5	08/21/2024 21:47	WG2342821
Copper	17.3		0.132	5.00	5	08/21/2024 21:47	WG2342821
Lead	12.4		0.0990	2.00	5	08/21/2024 21:47	WG2342821
Nickel	14.4		0.197	2.50	5	08/21/2024 21:47	WG2342821
Selenium	0.894	J	0.180	2.50	5	08/21/2024 21:47	WG2342821
Silver	U		0.0865	0.500	5	08/21/2024 21:47	WG2342821
Zinc	57.5		0.740	25.0	5	08/21/2024 21:47	WG2342821

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	0.0360	J	0.0217	0.100	1	08/15/2024 00:03	WG2343149
(S) a,a,a-Trifluorotoluene(FID)	99.5			77.0-120		08/15/2024 00:03	WG2343149

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	08/17/2024 00:31	WG2344777
Toluene	U		0.00130	0.00500	1	08/17/2024 00:31	WG2344777
Ethylbenzene	U		0.000737	0.00250	1	08/17/2024 00:31	WG2344777
Xylenes, Total	U		0.000880	0.00650	1	08/17/2024 00:31	WG2344777
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	08/17/2024 00:31	WG2344777
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	08/17/2024 00:31	WG2344777
(S) Toluene-d8	99.8			75.0-131		08/17/2024 00:31	WG2344777
(S) 4-Bromofluorobenzene	105			67.0-138		08/17/2024 00:31	WG2344777
(S) 1,2-Dichloroethane-d4	95.4			70.0-130		08/17/2024 00:31	WG2344777

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	U		1.61	4.00	1	08/20/2024 10:20	WG2344870
C28-C36 Motor Oil Range	7.71		0.274	4.00	1	08/20/2024 10:20	WG2344870
(S) o-Terphenyl	66.7			18.0-148		08/20/2024 10:20	WG2344870

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	08/18/2024 14:34	WG2344891
Acenaphthene	U		0.00209	0.00600	1	08/18/2024 14:34	WG2344891
Acenaphthylene	U		0.00216	0.00600	1	08/18/2024 14:34	WG2344891
Benzo(a)anthracene	U		0.00173	0.00600	1	08/18/2024 14:34	WG2344891
Benzo(a)pyrene	U		0.00179	0.00600	1	08/18/2024 14:34	WG2344891
Benzo(b)fluoranthene	U		0.00153	0.00600	1	08/18/2024 14:34	WG2344891
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	08/18/2024 14:34	WG2344891
Benzo(k)fluoranthene	U		0.00215	0.00600	1	08/18/2024 14:34	WG2344891
Chrysene	U		0.00232	0.00600	1	08/18/2024 14:34	WG2344891
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	08/18/2024 14:34	WG2344891
Fluoranthene	U		0.00227	0.00600	1	08/18/2024 14:34	WG2344891
Fluorene	U		0.00205	0.00600	1	08/18/2024 14:34	WG2344891
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	08/18/2024 14:34	WG2344891
Naphthalene	U		0.00408	0.0200	1	08/18/2024 14:34	WG2344891
Phenanthrene	U		0.00231	0.00600	1	08/18/2024 14:34	WG2344891
Pyrene	U		0.00200	0.00600	1	08/18/2024 14:34	WG2344891
1-Methylnaphthalene	U		0.00449	0.0200	1	08/18/2024 14:34	WG2344891
2-Methylnaphthalene	U		0.00427	0.0200	1	08/18/2024 14:34	WG2344891
2-Chloronaphthalene	U		0.00466	0.0200	1	08/18/2024 14:34	WG2344891
(S) p-Terphenyl-d14	107			23.0-120		08/18/2024 14:34	WG2344891
(S) Nitrobenzene-d5	114			14.0-149		08/18/2024 14:34	WG2344891
(S) 2-Fluorobiphenyl	93.6			34.0-125		08/18/2024 14:34	WG2344891

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.52		1	08/14/2024 10:08	WG2341900

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.91	T8	1	08/14/2024 11:22	WG2342618

Sample Narrative:
L1766145-03 WG2342618: 7.91 at 22.7C

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	umhos/cm		umhos/cm			
Specific Conductance	5050		10.0	1	08/14/2024 17:37	WG2342622

Sample Narrative:
L1766145-03 WG2342622: at 25C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	5.44		0.100	1.00	5	08/21/2024 21:50	WG2342821

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.978		1	08/14/2024 10:10	WG2341900

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.28	T8	1	08/14/2024 11:22	WG2342618

Sample Narrative:
L1766145-04 WG2342618: 8.28 at 21.9C

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	umhos/cm		umhos/cm			
Specific Conductance	478		10.0	1	08/14/2024 17:37	WG2342622

Sample Narrative:
L1766145-04 WG2342622: at 25C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	5.06		0.100	1.00	5	08/21/2024 20:27	WG2342821

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4109456-1 08/20/24 10:59

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

L1766121-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1766121-04 08/20/24 11:20 • (DUP) R4109456-3 08/20/24 11:26

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

L1766141-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1766141-04 08/20/24 12:58 • (DUP) R4109456-11 08/20/24 13:05

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4109456-2 08/20/24 11:07

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	8.85	88.5	80.0-120	

L1766132-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1766132-03 08/20/24 11:50 • (MS) R4109456-7 08/20/24 11:57 • (MSD) R4109456-8 08/20/24 12:15

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	U	9.11	9.39	45.6	47.0	1	75.0-125	J6	J6	3.06	20

Sample Narrative:

- MS: Matrix spike failure due to matrix interference.
- MSD: Matrix spike failure due to matrix interference.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1766132-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1766132-03 08/20/24 11:50 • (MS) R4109456-9 08/20/24 12:21

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Hexavalent Chromium	641	U	426	66.5	50	75.0-125	<u>J6</u>

Sample Narrative:

MS: Matrix spike failure due to matrix interference.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1766145-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1766145-03 08/14/24 11:22 • (DUP) R4106573-2 08/14/24 11:22

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	7.91	7.88	1	0.380		1

Sample Narrative:

OS: 7.91 at 22.7C

DUP: 7.88 at 22.8C

Laboratory Control Sample (LCS)

(LCS) R4106573-1 08/14/24 11:22

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10 at 21.6C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4106875-1 08/14/24 17:37

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1766121-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1766121-05 08/14/24 17:37 • (DUP) R4106875-3 08/14/24 17:37

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	4560	4560	1	0.000		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4106875-2 08/14/24 17:37

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	733	718	98.0	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) R4107513-1 08/15/24 16:41

Analyte	MB Result mg/l	<u>MB Qualifier</u>	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) R4107513-2 08/15/24 16:44 • (LCSD) R4107513-3 08/15/24 16:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.05	1.04	105	104	80.0-120			0.568	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4109933-1 08/21/24 20:20

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	0.348	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

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

Laboratory Control Sample (LCS)

(LCS) R4109933-2 08/21/24 20:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	101	101	80.0-120	
Barium	100	106	106	80.0-120	
Cadmium	100	104	104	80.0-120	
Copper	100	103	103	80.0-120	
Lead	100	99.9	99.9	80.0-120	
Nickel	100	106	106	80.0-120	
Selenium	100	97.7	97.7	80.0-120	
Silver	20.0	20.8	104	80.0-120	
Zinc	100	100	100	80.0-120	

7
Gl

8
Al

9
Sc

L1766145-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1766145-04 08/21/24 20:27 • (MS) R4109933-5 08/21/24 20:37 • (MSD) R4109933-6 08/21/24 20:40

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	5.06	112	113	107	108	5	75.0-125			0.877	20
Barium	100	181	282	292	101	111	5	75.0-125			3.40	20
Cadmium	100	0.414	107	107	106	107	5	75.0-125			0.434	20
Copper	100	17.2	121	122	104	105	5	75.0-125			0.632	20
Lead	100	12.0	119	116	107	104	5	75.0-125			2.46	20
Nickel	100	14.3	121	124	107	110	5	75.0-125			2.64	20
Selenium	100	1.12	103	103	102	102	5	75.0-125			0.180	20
Silver	20.0	0.0976	21.7	21.4	108	107	5	75.0-125			1.34	20
Zinc	100	59.5	166	168	106	109	5	75.0-125			1.68	20

Method Blank (MB)

(MB) R4107779-2 08/14/24 22:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120

Laboratory Control Sample (LCS)

(LCS) R4107779-1 08/14/24 21:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.00	5.60	112	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			111	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) R4108760-2 08/16/24 23:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
(S) Toluene-d8	98.1			75.0-131
(S) 4-Bromofluorobenzene	102			67.0-138
(S) 1,2-Dichloroethane-d4	98.3			70.0-130

Laboratory Control Sample (LCS)

(LCS) R4108760-1 08/16/24 22:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.129	103	70.0-123	
Toluene	0.125	0.118	94.4	75.0-121	
Ethylbenzene	0.125	0.115	92.0	74.0-126	
Xylenes, Total	0.375	0.377	101	72.0-127	
1,2,4-Trimethylbenzene	0.125	0.116	92.8	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.112	89.6	73.0-127	
(S) Toluene-d8			96.2	75.0-131	
(S) 4-Bromofluorobenzene			105	67.0-138	
(S) 1,2-Dichloroethane-d4			107	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4109394-1 08/20/24 08:36

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
(S) o-Terphenyl	62.6			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4109394-2 08/20/24 08:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	28.6	57.2	50.0-150	
(S) o-Terphenyl			61.3	18.0-148	

L1766145-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1766145-01 08/20/24 09:41 • (MS) R4109394-3 08/20/24 09:54 • (MSD) R4109394-4 08/20/24 10:07

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 %
C10-C28 Diesel Range	49.4	U	26.7	33.1	54.0	66.6	1	50.0-150		J3	21.4	20
(S) o-Terphenyl					55.6	62.2		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4108830-2 08/18/24 12:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	97.5			23.0-120
(S) Nitrobenzene-d5	66.7			14.0-149
(S) 2-Fluorobiphenyl	68.5			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4108830-1 08/18/24 11:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0696	87.0	50.0-126	
Acenaphthene	0.0800	0.0703	87.9	50.0-120	
Acenaphthylene	0.0800	0.0755	94.4	50.0-120	
Benzo(a)anthracene	0.0800	0.0685	85.6	45.0-120	
Benzo(a)pyrene	0.0800	0.0671	83.9	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0710	88.8	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0751	93.9	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0711	88.9	49.0-125	
Chrysene	0.0800	0.0755	94.4	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0692	86.5	47.0-125	
Fluoranthene	0.0800	0.0755	94.4	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4108830-1 08/18/24 11:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Fluorene	0.0800	0.0742	92.8	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0661	82.6	46.0-125	
Naphthalene	0.0800	0.0737	92.1	50.0-120	
Phenanthrene	0.0800	0.0721	90.1	47.0-120	
Pyrene	0.0800	0.0807	101	43.0-123	
1-Methylnaphthalene	0.0800	0.0789	98.6	51.0-121	
2-Methylnaphthalene	0.0800	0.0720	90.0	50.0-120	
2-Chloronaphthalene	0.0800	0.0689	86.1	50.0-120	
(S) p-Terphenyl-d14			101	23.0-120	
(S) Nitrobenzene-d5			93.8	14.0-149	
(S) 2-Fluorobiphenyl			86.3	34.0-125	

L1765910-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1765910-03 08/18/24 15:08 • (MS) R4108830-3 08/18/24 15:26 • (MSD) R4108830-4 08/18/24 15:43

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 %
Anthracene	0.0800	U	0.0683	0.0604	85.4	77.8	1	10.0-145			12.3	30
Acenaphthene	0.0800	U	0.0704	0.0625	88.0	80.5	1	14.0-127			11.9	27
Acenaphthylene	0.0800	U	0.0747	0.0657	93.4	84.7	1	21.0-124			12.8	25
Benzo(a)anthracene	0.0800	U	0.0645	0.0578	80.6	74.5	1	10.0-139			11.0	30
Benzo(a)pyrene	0.0800	U	0.0676	0.0605	84.5	78.0	1	10.0-141			11.1	31
Benzo(b)fluoranthene	0.0800	U	0.0669	0.0608	83.6	78.4	1	10.0-140			9.55	36
Benzo(g,h,i)perylene	0.0800	U	0.0766	0.0685	95.8	88.3	1	10.0-140			11.2	33
Benzo(k)fluoranthene	0.0800	U	0.0673	0.0592	84.1	76.3	1	10.0-137			12.8	31
Chrysene	0.0800	U	0.0742	0.0667	92.8	86.0	1	10.0-145			10.6	30
Dibenz(a,h)anthracene	0.0800	U	0.0688	0.0626	86.0	80.7	1	10.0-132			9.44	31
Fluoranthene	0.0800	U	0.0796	0.0734	99.5	94.6	1	10.0-153			8.10	33
Fluorene	0.0800	U	0.0718	0.0630	89.8	81.2	1	11.0-130			13.1	29
Indeno(1,2,3-cd)pyrene	0.0800	U	0.0671	0.0606	83.9	78.1	1	10.0-137			10.2	32
Naphthalene	0.0800	U	0.0725	0.0652	90.6	84.0	1	10.0-135			10.6	27
Phenanthrene	0.0800	U	0.0717	0.0647	89.6	83.4	1	10.0-144			10.3	31
Pyrene	0.0800	U	0.0750	0.0673	93.8	86.7	1	10.0-148			10.8	35
1-Methylnaphthalene	0.0800	U	0.0772	0.0690	96.5	88.9	1	10.0-142			11.2	28
2-Methylnaphthalene	0.0800	U	0.0696	0.0616	87.0	79.4	1	10.0-137			12.2	28
2-Chloronaphthalene	0.0800	U	0.0679	0.0589	84.9	75.9	1	29.0-120			14.2	24
(S) p-Terphenyl-d14					95.2	87.3		23.0-120				
(S) Nitrobenzene-d5					104	97.7		14.0-149				
(S) 2-Fluorobiphenyl					88.4	81.0		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCREDITATIONS & LOCATIONS

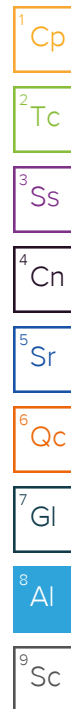
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



[illegible]

Temperature

$$3.4503 = 3.7$$
$$6.1 \text{ } 12.3 \div 0.4$$

Name _____

Date _____