

January 12, 2021

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Entrada Consulting Group

Sample Delivery Group: L1302733

Samples Received: 01/05/2021

Project Number:

Description: Hawkins 10-4

Report To: Stuart Hall
240 Mesa Avenue
Grand Junction, CO 81501

Entire Report Reviewed By:



Chris Ward
Project Manager

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

Pace Analytical National

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



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



H 104-BOT L1302733-01 Solid

Collected by Jason McLarty
Collected date/time 01/04/21 12:15
Received date/time 01/05/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1601951	1	01/08/21 10:36	01/08/21 10:36	EL	Mt. Juliet, TN
Calculated Results	WG1601786	1	01/06/21 18:22	01/08/21 02:43	CCE	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG1601450	1	01/06/21 11:00	01/06/21 19:57	BJD	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1602726	1	01/08/21 15:00	01/08/21 19:09	KPS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1603495	1	01/10/21 22:08	01/12/21 13:00	JRB	Mt. Juliet, TN
Mercury by Method 7471A	WG1602532	1	01/08/21 09:43	01/08/21 14:55	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1601786	1	01/06/21 18:22	01/08/21 02:43	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1601786	1	01/06/21 18:22	01/08/21 10:18	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1601901	1	01/06/21 15:32	01/07/21 08:50	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601920	1	01/07/21 07:04	01/07/21 20:14	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1601846	1	01/06/21 22:54	01/07/21 13:24	LEA	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

H 104-N WALL L1302733-02 Solid

Collected by Jason McLarty
Collected date/time 01/04/21 12:30
Received date/time 01/05/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1601951	1	01/08/21 10:38	01/08/21 10:38	EL	Mt. Juliet, TN
Calculated Results	WG1601786	1	01/06/21 18:22	01/08/21 02:46	CCE	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG1601450	1	01/06/21 11:00	01/06/21 19:58	BJD	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1602726	1	01/08/21 15:00	01/08/21 19:09	KPS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1603495	1	01/10/21 22:08	01/12/21 13:00	JRB	Mt. Juliet, TN
Mercury by Method 7471A	WG1602532	1	01/08/21 09:43	01/08/21 14:57	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1601786	1	01/06/21 18:22	01/08/21 02:46	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1601786	1	01/06/21 18:22	01/08/21 10:21	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1601901	1	01/06/21 15:32	01/07/21 09:12	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601920	1	01/07/21 07:04	01/08/21 22:08	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1601846	1	01/06/21 22:54	01/07/21 13:44	LEA	Mt. Juliet, TN

H 104-S WALL L1302733-03 Solid

Collected by Jason McLarty
Collected date/time 01/04/21 13:00
Received date/time 01/05/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1601951	1	01/08/21 10:42	01/08/21 10:42	EL	Mt. Juliet, TN
Calculated Results	WG1601786	1	01/06/21 18:22	01/08/21 02:49	CCE	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG1601450	1	01/06/21 11:00	01/06/21 19:58	BJD	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1602726	1	01/08/21 15:00	01/08/21 19:09	KPS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1603495	1	01/10/21 22:08	01/12/21 13:00	JRB	Mt. Juliet, TN
Mercury by Method 7471A	WG1602532	1	01/08/21 09:43	01/08/21 14:59	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1601786	1	01/06/21 18:22	01/08/21 02:49	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1601786	1	01/06/21 18:22	01/08/21 10:23	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1601901	1	01/06/21 15:32	01/07/21 09:34	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021	WG1603149	25	01/06/21 15:32	01/10/21 20:44	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1602202	1	01/07/21 15:53	01/08/21 06:42	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1601846	1	01/06/21 22:54	01/07/21 14:03	LEA	Mt. Juliet, TN

H 104-W WALL L1302733-04 Solid

Collected by Jason McLarty
Collected date/time 01/04/21 13:15
Received date/time 01/05/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1601951	1	01/08/21 10:45	01/08/21 10:45	EL	Mt. Juliet, TN
Calculated Results	WG1601786	1	01/06/21 18:22	01/08/21 01:27	CCE	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG1601450	1	01/06/21 11:00	01/06/21 19:59	BJD	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1602726	1	01/08/21 15:00	01/08/21 19:09	KPS	Mt. Juliet, TN

ACCOUNT:

Entrada Consulting Group

PROJECT:

SDG:

L1302733

DATE/TIME:

01/12/21 14:50

PAGE:

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



H 104-W WALL L1302733-04 Solid

Collected by Jason McLarty
Collected date/time 01/04/21 13:15
Received date/time 01/05/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9050AMod	WG1603495	1	01/10/21 22:08	01/12/21 13:00	JRB	Mt. Juliet, TN
Mercury by Method 7471A	WG1602532	1	01/08/21 09:43	01/08/21 15:01	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1601786	1	01/06/21 18:22	01/08/21 01:27	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1601901	1	01/06/21 15:32	01/07/21 09:57	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1602202	1	01/07/21 15:53	01/08/21 06:54	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1601846	1	01/06/21 22:54	01/07/21 14:23	LEA	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

H 104-E WALL L1302733-05 Solid

Collected by Jason McLarty
Collected date/time 01/04/21 13:30
Received date/time 01/05/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1601951	1	01/08/21 10:48	01/08/21 10:48	EL	Mt. Juliet, TN
Calculated Results	WG1601786	1	01/06/21 18:22	01/08/21 01:29	CCE	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG1601450	1	01/06/21 11:00	01/06/21 20:00	BJD	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1602726	1	01/08/21 15:00	01/08/21 19:09	KPS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1603495	1	01/10/21 22:08	01/12/21 13:00	JRB	Mt. Juliet, TN
Mercury by Method 7471A	WG1602532	1	01/08/21 09:43	01/08/21 15:03	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1601786	1	01/06/21 18:22	01/08/21 01:29	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1601901	1	01/06/21 15:32	01/07/21 10:19	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1602202	1	01/07/21 15:53	01/08/21 07:07	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1601848	1	01/06/21 22:51	01/07/21 09:46	LEA	Mt. Juliet, TN



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.

Chris Ward
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.35		1	01/08/2021 10:36	WG1601951

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Trivalent	19.6		1.00	1	01/08/2021 02:43	WG1601786

Wet Chemistry by Method 3060A/7196A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	ND		2.00	1	01/06/2021 19:57	WG1601450

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.46	T8	1	01/08/2021 19:09	WG1602726

Sample Narrative:

L1302733-01 WG1602726: 8.46 at 22.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	217		10.0	1	01/12/2021 13:00	WG1603495

Mercury by Method 7471A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0400	1	01/08/2021 14:55	WG1602532

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	ND		2.00	1	01/08/2021 02:43	WG1601786
Barium	174		0.500	1	01/08/2021 02:43	WG1601786
Cadmium	ND		0.500	1	01/08/2021 02:43	WG1601786
Chromium	19.6		1.00	1	01/08/2021 02:43	WG1601786
Copper	18.1		2.00	1	01/08/2021 02:43	WG1601786
Lead	10.9		0.500	1	01/08/2021 02:43	WG1601786
Nickel	17.1		2.00	1	01/08/2021 10:18	WG1601786
Selenium	ND		2.00	1	01/08/2021 02:43	WG1601786
Silver	ND		1.00	1	01/08/2021 02:43	WG1601786
Zinc	50.5		5.00	1	01/08/2021 02:43	WG1601786

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0769		0.000500	1	01/07/2021 08:50	WG1601901
Toluene	0.0356		0.00500	1	01/07/2021 08:50	WG1601901
Ethylbenzene	0.00838		0.000500	1	01/07/2021 08:50	WG1601901
Total Xylene	0.142		0.00150	1	01/07/2021 08:50	WG1601901
TPH (GC/FID) Low Fraction	1.31		0.100	1	01/07/2021 08:50	WG1601901



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	92.3		77.0-120		01/07/2021 08:50	WG1601901
(S) a,a,a-Trifluorotoluene(PID)	100		72.0-128		01/07/2021 08:50	WG1601901

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND	<u>J3</u>	4.00	1	01/07/2021 20:14	WG1601920
(S) o-Terphenyl	89.1		18.0-148		01/07/2021 20:14	WG1601920

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	01/07/2021 13:24	WG1601846
Acenaphthene	ND		0.00600	1	01/07/2021 13:24	WG1601846
Acenaphthylene	ND		0.00600	1	01/07/2021 13:24	WG1601846
Benzo(a)anthracene	ND		0.00600	1	01/07/2021 13:24	WG1601846
Benzo(a)pyrene	ND		0.00600	1	01/07/2021 13:24	WG1601846
Benzo(b)fluoranthene	ND		0.00600	1	01/07/2021 13:24	WG1601846
Benzo(g,h,i)perylene	ND		0.00600	1	01/07/2021 13:24	WG1601846
Benzo(k)fluoranthene	ND		0.00600	1	01/07/2021 13:24	WG1601846
Chrysene	ND		0.00600	1	01/07/2021 13:24	WG1601846
Dibenz(a,h)anthracene	ND		0.00600	1	01/07/2021 13:24	WG1601846
Fluoranthene	ND		0.00600	1	01/07/2021 13:24	WG1601846
Fluorene	ND		0.00600	1	01/07/2021 13:24	WG1601846
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	01/07/2021 13:24	WG1601846
Naphthalene	ND		0.0200	1	01/07/2021 13:24	WG1601846
Phenanthrene	ND		0.00600	1	01/07/2021 13:24	WG1601846
Pyrene	ND		0.00600	1	01/07/2021 13:24	WG1601846
1-Methylnaphthalene	ND		0.0200	1	01/07/2021 13:24	WG1601846
2-Methylnaphthalene	ND		0.0200	1	01/07/2021 13:24	WG1601846
2-Chloronaphthalene	ND		0.0200	1	01/07/2021 13:24	WG1601846
(S) p-Terphenyl-d14	88.9		23.0-120		01/07/2021 13:24	WG1601846
(S) Nitrobenzene-d5	98.8		14.0-149		01/07/2021 13:24	WG1601846
(S) 2-Fluorobiphenyl	79.8		34.0-125		01/07/2021 13:24	WG1601846

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	0.979		1	01/08/2021 10:38	WG1601951

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Trivalent	20.5		1.00	1	01/08/2021 02:46	WG1601786

Wet Chemistry by Method 3060A/7196A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	ND		2.00	1	01/06/2021 19:58	WG1601450

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.38	T8	1	01/08/2021 19:09	WG1602726

Sample Narrative:

L1302733-02 WG1602726: 7.38 at 22.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	93.7		10.0	1	01/12/2021 13:00	WG1603495

Mercury by Method 7471A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0400	1	01/08/2021 14:57	WG1602532

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	ND		2.00	1	01/08/2021 02:46	WG1601786
Barium	109		0.500	1	01/08/2021 02:46	WG1601786
Cadmium	ND		0.500	1	01/08/2021 02:46	WG1601786
Chromium	20.5		1.00	1	01/08/2021 02:46	WG1601786
Copper	16.8		2.00	1	01/08/2021 02:46	WG1601786
Lead	9.89		0.500	1	01/08/2021 02:46	WG1601786
Nickel	14.8		2.00	1	01/08/2021 10:21	WG1601786
Selenium	ND		2.00	1	01/08/2021 02:46	WG1601786
Silver	ND		1.00	1	01/08/2021 02:46	WG1601786
Zinc	47.4		5.00	1	01/08/2021 02:46	WG1601786

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00656		0.000500	1	01/07/2021 09:12	WG1601901
Toluene	0.0124		0.00500	1	01/07/2021 09:12	WG1601901
Ethylbenzene	0.00354		0.000500	1	01/07/2021 09:12	WG1601901
Total Xylene	0.0623		0.00150	1	01/07/2021 09:12	WG1601901
TPH (GC/FID) Low Fraction	0.432		0.100	1	01/07/2021 09:12	WG1601901



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	95.6		77.0-120		01/07/2021 09:12	WG1601901
(S) a,a,a-Trifluorotoluene(PID)	98.5		72.0-128		01/07/2021 09:12	WG1601901

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	13.7		4.00	1	01/08/2021 22:08	WG1601920
(S) o-Terphenyl	68.7		18.0-148		01/08/2021 22:08	WG1601920

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	01/07/2021 13:44	WG1601846
Acenaphthene	ND		0.00600	1	01/07/2021 13:44	WG1601846
Acenaphthylene	ND		0.00600	1	01/07/2021 13:44	WG1601846
Benzo(a)anthracene	ND		0.00600	1	01/07/2021 13:44	WG1601846
Benzo(a)pyrene	ND		0.00600	1	01/07/2021 13:44	WG1601846
Benzo(b)fluoranthene	ND		0.00600	1	01/07/2021 13:44	WG1601846
Benzo(g,h,i)perylene	ND		0.00600	1	01/07/2021 13:44	WG1601846
Benzo(k)fluoranthene	ND		0.00600	1	01/07/2021 13:44	WG1601846
Chrysene	ND		0.00600	1	01/07/2021 13:44	WG1601846
Dibenz(a,h)anthracene	ND		0.00600	1	01/07/2021 13:44	WG1601846
Fluoranthene	ND		0.00600	1	01/07/2021 13:44	WG1601846
Fluorene	ND		0.00600	1	01/07/2021 13:44	WG1601846
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	01/07/2021 13:44	WG1601846
Naphthalene	ND		0.0200	1	01/07/2021 13:44	WG1601846
Phenanthrene	ND		0.00600	1	01/07/2021 13:44	WG1601846
Pyrene	ND		0.00600	1	01/07/2021 13:44	WG1601846
1-Methylnaphthalene	ND		0.0200	1	01/07/2021 13:44	WG1601846
2-Methylnaphthalene	ND		0.0200	1	01/07/2021 13:44	WG1601846
2-Chloronaphthalene	ND		0.0200	1	01/07/2021 13:44	WG1601846
(S) p-Terphenyl-d14	91.3		23.0-120		01/07/2021 13:44	WG1601846
(S) Nitrobenzene-d5	90.8		14.0-149		01/07/2021 13:44	WG1601846
(S) 2-Fluorobiphenyl	80.0		34.0-125		01/07/2021 13:44	WG1601846

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	2.05		1	01/08/2021 10:42	WG1601951

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Trivalent	19.5		1.00	1	01/08/2021 02:49	WG1601786

Wet Chemistry by Method 3060A/7196A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	ND		2.00	1	01/06/2021 19:58	WG1601450

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.39	T8	1	01/08/2021 19:09	WG1602726

Sample Narrative:

L1302733-03 WG1602726: 8.39 at 21.6C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	230		10.0	1	01/12/2021 13:00	WG1603495

Mercury by Method 7471A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0400	1	01/08/2021 14:59	WG1602532

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	ND		2.00	1	01/08/2021 02:49	WG1601786
Barium	215		0.500	1	01/08/2021 02:49	WG1601786
Cadmium	ND		0.500	1	01/08/2021 02:49	WG1601786
Chromium	19.5		1.00	1	01/08/2021 02:49	WG1601786
Copper	17.9		2.00	1	01/08/2021 02:49	WG1601786
Lead	11.5		0.500	1	01/08/2021 02:49	WG1601786
Nickel	19.4		2.00	1	01/08/2021 10:23	WG1601786
Selenium	ND		2.00	1	01/08/2021 02:49	WG1601786
Silver	ND		1.00	1	01/08/2021 02:49	WG1601786
Zinc	50.6		5.00	1	01/08/2021 02:49	WG1601786

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0338		0.000500	1	01/07/2021 09:34	WG1601901
Toluene	0.0702		0.00500	1	01/07/2021 09:34	WG1601901
Ethylbenzene	0.0375		0.000500	1	01/07/2021 09:34	WG1601901
Total Xylene	2.31		0.0375	25	01/10/2021 20:44	WG1603149
TPH (GC/FID) Low Fraction	4.54		0.100	1	01/07/2021 09:34	WG1601901



Volatile Organic Compounds (GC) by Method 8015/8021

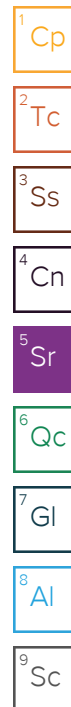
Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	85.1		77.0-120		01/07/2021 09:34	WG1601901
(S) a,a,a-Trifluorotoluene(FID)	97.1		77.0-120		01/10/2021 20:44	WG1603149
(S) a,a,a-Trifluorotoluene(PID)	99.3		72.0-128		01/07/2021 09:34	WG1601901
(S) a,a,a-Trifluorotoluene(PID)	102		72.0-128		01/10/2021 20:44	WG1603149

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		4.00	1	01/08/2021 06:42	WG1602202
(S) o-Terphenyl	61.5		18.0-148		01/08/2021 06:42	WG1602202

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	01/07/2021 14:03	WG1601846
Acenaphthene	ND		0.00600	1	01/07/2021 14:03	WG1601846
Acenaphthylene	ND		0.00600	1	01/07/2021 14:03	WG1601846
Benzo(a)anthracene	ND		0.00600	1	01/07/2021 14:03	WG1601846
Benzo(a)pyrene	ND		0.00600	1	01/07/2021 14:03	WG1601846
Benzo(b)fluoranthene	ND		0.00600	1	01/07/2021 14:03	WG1601846
Benzo(g,h,i)perylene	ND		0.00600	1	01/07/2021 14:03	WG1601846
Benzo(k)fluoranthene	ND		0.00600	1	01/07/2021 14:03	WG1601846
Chrysene	ND		0.00600	1	01/07/2021 14:03	WG1601846
Dibenz(a,h)anthracene	ND		0.00600	1	01/07/2021 14:03	WG1601846
Fluoranthene	ND		0.00600	1	01/07/2021 14:03	WG1601846
Fluorene	ND		0.00600	1	01/07/2021 14:03	WG1601846
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	01/07/2021 14:03	WG1601846
Naphthalene	ND		0.0200	1	01/07/2021 14:03	WG1601846
Phenanthrene	ND		0.00600	1	01/07/2021 14:03	WG1601846
Pyrene	ND		0.00600	1	01/07/2021 14:03	WG1601846
1-Methylnaphthalene	ND		0.0200	1	01/07/2021 14:03	WG1601846
2-Methylnaphthalene	ND		0.0200	1	01/07/2021 14:03	WG1601846
2-Chloronaphthalene	ND		0.0200	1	01/07/2021 14:03	WG1601846
(S) p-Terphenyl-d14	87.0		23.0-120		01/07/2021 14:03	WG1601846
(S) Nitrobenzene-d5	90.0		14.0-149		01/07/2021 14:03	WG1601846
(S) 2-Fluorobiphenyl	78.9		34.0-125		01/07/2021 14:03	WG1601846





Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.01		1	01/08/2021 10:45	WG1601951

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Trivalent	19.9		1.00	1	01/08/2021 01:27	WG1601786

Wet Chemistry by Method 3060A/7196A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	ND		2.00	1	01/06/2021 19:59	WG1601450

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.34	T8	1	01/08/2021 19:09	WG1602726

Sample Narrative:

L1302733-04 WG1602726: 8.34 at 21.4C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	217		10.0	1	01/12/2021 13:00	WG1603495

Mercury by Method 7471A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0400	1	01/08/2021 15:01	WG1602532

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	ND		2.00	1	01/08/2021 01:27	WG1601786
Barium	165		0.500	1	01/08/2021 01:27	WG1601786
Cadmium	ND		0.500	1	01/08/2021 01:27	WG1601786
Chromium	19.9		1.00	1	01/08/2021 01:27	WG1601786
Copper	17.4		2.00	1	01/08/2021 01:27	WG1601786
Lead	10.7		0.500	1	01/08/2021 01:27	WG1601786
Nickel	21.5		2.00	1	01/08/2021 01:27	WG1601786
Selenium	ND		2.00	1	01/08/2021 01:27	WG1601786
Silver	ND		1.00	1	01/08/2021 01:27	WG1601786
Zinc	52.6		5.00	1	01/08/2021 01:27	WG1601786

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0355		0.000500	1	01/07/2021 09:57	WG1601901
Toluene	0.0564		0.00500	1	01/07/2021 09:57	WG1601901
Ethylbenzene	0.0155		0.000500	1	01/07/2021 09:57	WG1601901
Total Xylene	0.231		0.00150	1	01/07/2021 09:57	WG1601901
TPH (GC/FID) Low Fraction	1.71		0.100	1	01/07/2021 09:57	WG1601901



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	88.6		77.0-120		01/07/2021 09:57	WG1601901
(S) a,a,a-Trifluorotoluene(PID)	97.0		72.0-128		01/07/2021 09:57	WG1601901

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		4.00	1	01/08/2021 06:54	WG1602202
(S) o-Terphenyl	62.6		18.0-148		01/08/2021 06:54	WG1602202

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	01/07/2021 14:23	WG1601846
Acenaphthene	ND		0.00600	1	01/07/2021 14:23	WG1601846
Acenaphthylene	ND		0.00600	1	01/07/2021 14:23	WG1601846
Benzo(a)anthracene	ND		0.00600	1	01/07/2021 14:23	WG1601846
Benzo(a)pyrene	ND		0.00600	1	01/07/2021 14:23	WG1601846
Benzo(b)fluoranthene	ND		0.00600	1	01/07/2021 14:23	WG1601846
Benzo(g,h,i)perylene	ND		0.00600	1	01/07/2021 14:23	WG1601846
Benzo(k)fluoranthene	ND		0.00600	1	01/07/2021 14:23	WG1601846
Chrysene	ND		0.00600	1	01/07/2021 14:23	WG1601846
Dibenz(a,h)anthracene	ND		0.00600	1	01/07/2021 14:23	WG1601846
Fluoranthene	ND		0.00600	1	01/07/2021 14:23	WG1601846
Fluorene	ND		0.00600	1	01/07/2021 14:23	WG1601846
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	01/07/2021 14:23	WG1601846
Naphthalene	ND		0.0200	1	01/07/2021 14:23	WG1601846
Phenanthrene	ND		0.00600	1	01/07/2021 14:23	WG1601846
Pyrene	ND		0.00600	1	01/07/2021 14:23	WG1601846
1-Methylnaphthalene	ND		0.0200	1	01/07/2021 14:23	WG1601846
2-Methylnaphthalene	ND		0.0200	1	01/07/2021 14:23	WG1601846
2-Chloronaphthalene	ND		0.0200	1	01/07/2021 14:23	WG1601846
(S) p-Terphenyl-d14	123	J1	23.0-120		01/07/2021 14:23	WG1601846
(S) Nitrobenzene-d5	116		14.0-149		01/07/2021 14:23	WG1601846
(S) 2-Fluorobiphenyl	107		34.0-125		01/07/2021 14:23	WG1601846

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	0.675		1	01/08/2021 10:48	WG1601951

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Trivalent	18.3		1.00	1	01/08/2021 01:29	WG1601786

Wet Chemistry by Method 3060A/7196A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	ND		2.00	1	01/06/2021 20:00	WG1601450

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	6.86	T8	1	01/08/2021 19:09	WG1602726

Sample Narrative:

L1302733-05 WG1602726: 6.86 at 21.2C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	180		10.0	1	01/12/2021 13:00	WG1603495

Mercury by Method 7471A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0400	1	01/08/2021 15:03	WG1602532

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	ND		2.00	1	01/08/2021 01:29	WG1601786
Barium	116		0.500	1	01/08/2021 01:29	WG1601786
Cadmium	ND		0.500	1	01/08/2021 01:29	WG1601786
Chromium	18.3		1.00	1	01/08/2021 01:29	WG1601786
Copper	15.4		2.00	1	01/08/2021 01:29	WG1601786
Lead	9.53		0.500	1	01/08/2021 01:29	WG1601786
Nickel	17.1		2.00	1	01/08/2021 01:29	WG1601786
Selenium	ND		2.00	1	01/08/2021 01:29	WG1601786
Silver	ND		1.00	1	01/08/2021 01:29	WG1601786
Zinc	53.5		5.00	1	01/08/2021 01:29	WG1601786

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0535		0.000500	1	01/07/2021 10:19	WG1601901
Toluene	0.206		0.00500	1	01/07/2021 10:19	WG1601901
Ethylbenzene	0.0153		0.000500	1	01/07/2021 10:19	WG1601901
Total Xylene	0.240		0.00150	1	01/07/2021 10:19	WG1601901
TPH (GC/FID) Low Fraction	1.55		0.100	1	01/07/2021 10:19	WG1601901



Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	93.2		77.0-120		01/07/2021 10:19	WG1601901
(S) a,a,a-Trifluorotoluene(PID)	99.4		72.0-128		01/07/2021 10:19	WG1601901

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		4.00	1	01/08/2021 07:07	WG1602202
(S) o-Terphenyl	57.7		18.0-148		01/08/2021 07:07	WG1602202

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	01/07/2021 09:46	WG1601848
Acenaphthene	ND		0.00600	1	01/07/2021 09:46	WG1601848
Acenaphthylene	ND		0.00600	1	01/07/2021 09:46	WG1601848
Benzo(a)anthracene	ND		0.00600	1	01/07/2021 09:46	WG1601848
Benzo(a)pyrene	ND		0.00600	1	01/07/2021 09:46	WG1601848
Benzo(b)fluoranthene	ND		0.00600	1	01/07/2021 09:46	WG1601848
Benzo(g,h,i)perylene	ND		0.00600	1	01/07/2021 09:46	WG1601848
Benzo(k)fluoranthene	ND		0.00600	1	01/07/2021 09:46	WG1601848
Chrysene	ND		0.00600	1	01/07/2021 09:46	WG1601848
Dibenz(a,h)anthracene	ND		0.00600	1	01/07/2021 09:46	WG1601848
Fluoranthene	ND		0.00600	1	01/07/2021 09:46	WG1601848
Fluorene	ND		0.00600	1	01/07/2021 09:46	WG1601848
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	01/07/2021 09:46	WG1601848
Naphthalene	ND		0.0200	1	01/07/2021 09:46	WG1601848
Phenanthrene	ND		0.00600	1	01/07/2021 09:46	WG1601848
Pyrene	ND		0.00600	1	01/07/2021 09:46	WG1601848
1-Methylnaphthalene	ND		0.0200	1	01/07/2021 09:46	WG1601848
2-Methylnaphthalene	ND		0.0200	1	01/07/2021 09:46	WG1601848
2-Chloronaphthalene	ND		0.0200	1	01/07/2021 09:46	WG1601848
(S) p-Terphenyl-d14	87.3		23.0-120		01/07/2021 09:46	WG1601848
(S) Nitrobenzene-d5	66.8		14.0-149		01/07/2021 09:46	WG1601848
(S) 2-Fluorobiphenyl	72.3		34.0-125		01/07/2021 09:46	WG1601848



Method Blank (MB)

(MB) R3610308-1 01/06/21 19:49

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chromium,Hexavalent	U		0.640	2.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1301371-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1301371-02 01/06/21 19:50 • (DUP) R3610308-3 01/06/21 19:51

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

L1302733-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1302733-05 01/06/21 20:00 • (DUP) R3610308-8 01/06/21 20:01

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

Laboratory Control Sample (LCS)

(LCS) R3610308-2 01/06/21 19:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chromium,Hexavalent	24.0	21.8	90.8	80.0-120	

L1302355-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1302355-01 01/06/21 19:54 • (MS) R3610308-4 01/06/21 19:55 • (MSD) R3610308-5 01/06/21 19:56

	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	%	%		%			%	%
Chromium,Hexavalent	20.0	ND	8.97	9.21	44.9	46.0	1	75.0-125	J6	J6	2.58	20

L1302355-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1302355-01 01/06/21 19:54 • (MS) R3610308-6 01/06/21 19:56

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Chromium,Hexavalent	656	ND	577	87.9	50	75.0-125	



L1303990-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1303990-01 01/08/21 19:09 • (DUP) R3611065-3 01/08/21 19:09

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	9.17	9.19	1	0.218		1

Sample Narrative:

OS: 9.17 at 20.7C

DUP: 9.19 at 20.2C

Laboratory Control Sample (LCS)

(LCS) R3611065-1 01/08/21 19:09

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.1	101	99.0-101	

Sample Narrative:

LCS: 10.06 at 19.1C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3611793-1 01/12/21 13:00

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1302733-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1302733-01 01/12/21 13:00 • (DUP) R3611793-3 01/12/21 13:00

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	217	207	1	4.73		20

L1304308-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1304308-02 01/12/21 13:00 • (DUP) R3611793-4 01/12/21 13:00

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	1900	1930	1	1.41		20

Laboratory Control Sample (LCS)

(LCS) R3611793-2 01/12/21 13:00

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	483	488	101	85.0-115	



Method Blank (MB)

(MB) R3611015-1 01/08/21 14:39

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R3611015-2 01/08/21 14:41

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.503	101	80.0-120	

⁷Gl

⁸Al

L1303713-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1303713-01 01/08/21 14:43 • (MS) R3611015-3 01/08/21 14:45 • (MSD) R3611015-4 01/08/21 14:47

	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	%	%		%			%	%
Mercury	0.500	ND	0.577	0.518	115	104	1	75.0-125			10.8	20

⁹Sc

Method Blank (MB)

(MB) R3610774-1 01/08/21 01:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	0.640	J	0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3610774-2 01/08/21 01:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	95.8	95.8	80.0-120	
Barium	100	104	104	80.0-120	
Cadmium	100	96.8	96.8	80.0-120	
Chromium	100	101	101	80.0-120	
Copper	100	99.6	99.6	80.0-120	
Lead	100	99.2	99.2	80.0-120	
Nickel	100	103	103	80.0-120	
Selenium	100	96.1	96.1	80.0-120	
Silver	20.0	17.7	88.7	80.0-120	
Zinc	100	98.4	98.4	80.0-120	

L1302148-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1302148-01 01/08/21 01:56 • (MS) R3610774-5 01/08/21 02:04 • (MSD) R3610774-6 01/08/21 02:07

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 %
Arsenic	100	7.95	102	103	94.3	94.7	1	75.0-125			0.391	20
Barium	100	70.1	167	149	96.9	79.2	1	75.0-125			11.2	20
Cadmium	100	2.52	95.7	95.4	93.2	92.9	1	75.0-125			0.268	20
Chromium	100	33.5	135	122	101	88.7	1	75.0-125			9.88	20
Copper	100	20.5	119	113	98.9	92.5	1	75.0-125			5.55	20
Lead	100	213	293	279	79.8	66.0	1	75.0-125		J6	4.84	20
Nickel	100	48.9	169	159	120	111	1	75.0-125			5.95	20



L1302148-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1302148-01 01/08/21 01:56 • (MS) R3610774-5 01/08/21 02:04 • (MSD) R3610774-6 01/08/21 02:07

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 %
Selenium	100	2.17	93.0	96.3	90.9	94.1	1	75.0-125			3.41	20
Silver	20.0	ND	18.1	18.1	90.4	90.5	1	75.0-125			0.115	20
Zinc	100	1000	1100	1020	96.0	16.0	1	75.0-125		V	7.55	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3611118-3 01/07/21 03:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	U		0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.2			77.0-120
(S) a,a,a-Trifluorotoluene(PID)	101			72.0-128

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3611118-1 01/07/21 01:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0526	105	76.0-121	
Toluene	0.0500	0.0530	106	80.0-120	
Ethylbenzene	0.0500	0.0527	105	80.0-124	
Total Xylene	0.150	0.159	106	37.0-160	
(S) a,a,a-Trifluorotoluene(FID)			97.9	77.0-120	
(S) a,a,a-Trifluorotoluene(PID)			100	72.0-128	

Laboratory Control Sample (LCS)

(LCS) R3611118-2 01/07/21 02:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.64	103	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			102	77.0-120	
(S) a,a,a-Trifluorotoluene(PID)			108	72.0-128	



L1303159-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1303159-01 01/07/21 03:59 • (MS) R3611118-4 01/07/21 12:32 • (MSD) R3611118-5 01/07/21 12:55

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 %
TPH (GC/FID) Low Fraction	137	18.8	112	107	90.5	85.6	25	10.0-151			4.57	28
(S) a,a,a-Trifluorotoluene(FID)					102	102		77.0-120				
(S) a,a,a-Trifluorotoluene(PID)					107	107		72.0-128				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3611348-3 01/10/21 13:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Total Xylene	U		0.000460	0.00150
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120
(S) a,a,a-Trifluorotoluene(PID)	102			72.0-128

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3611348-1 01/10/21 12:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Xylene	0.150	0.154	103	37.0-160	
(S) a,a,a-Trifluorotoluene(FID)			99.9	77.0-120	
(S) a,a,a-Trifluorotoluene(PID)			103	72.0-128	



Method Blank (MB)

(MB) R3610909-1 01/07/21 19:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) High Fraction	U		0.769	4.00
(S) o-Terphenyl	94.1			18.0-148

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3610909-2 01/07/21 19:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) High Fraction	50.0	49.9	99.8	50.0-150	
(S) o-Terphenyl			98.3	18.0-148	

L1302733-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1302733-01 01/07/21 20:14 • (MS) R3610909-3 01/07/21 20:27 • (MSD) R3610909-4 01/07/21 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 %
TPH (GC/FID) High Fraction	48.0	ND	36.5	46.7	76.0	97.7	1	50.0-150		J3	24.5	20
(S) o-Terphenyl					71.2	76.0		18.0-148				

Method Blank (MB)

(MB) R3610850-1 01/07/21 22:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
TPH (GC/FID) High Fraction	U		0.769	4.00
(S) o-Terphenyl	45.3			18.0-148

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3610850-2 01/07/21 22:52

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
TPH (GC/FID) High Fraction	50.0	33.7	67.4	50.0-150	
(S) o-Terphenyl			45.0	18.0-148	

L1303067-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1303067-01 01/08/21 08:23 • (MS) R3610850-3 01/08/21 08:36 • (MSD) R3610850-4 01/08/21 08:49

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) High Fraction	48.5	7.30	41.7	49.3	70.9	87.1	1	50.0-150			16.7	20
(S) o-Terphenyl					39.6	58.6		18.0-148				

Method Blank (MB)

(MB) R3610685-2 01/07/21 07:28

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) Nitrobenzene-d5	103			14.0-149
(S) 2-Fluorobiphenyl	98.0			34.0-125
(S) p-Terphenyl-d14	116			23.0-120

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Laboratory Control Sample (LCS)

(LCS) R3610685-1 01/07/21 07:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0712	89.0	50.0-126	
Acenaphthene	0.0800	0.0770	96.3	50.0-120	
Acenaphthylene	0.0800	0.0765	95.6	50.0-120	
Benzo(a)anthracene	0.0800	0.0755	94.4	45.0-120	
Benzo(a)pyrene	0.0800	0.0669	83.6	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0808	101	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0813	102	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0767	95.9	49.0-125	
Chrysene	0.0800	0.0805	101	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0809	101	47.0-125	
Fluoranthene	0.0800	0.0779	97.4	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3610685-1 01/07/21 07:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0790	98.8	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0784	98.0	46.0-125	
Naphthalene	0.0800	0.0727	90.9	50.0-120	
Phenanthrene	0.0800	0.0770	96.3	47.0-120	
Pyrene	0.0800	0.0795	99.4	43.0-123	
1-Methylnaphthalene	0.0800	0.0767	95.9	51.0-121	
2-Methylnaphthalene	0.0800	0.0724	90.5	50.0-120	
2-Chloronaphthalene	0.0800	0.0739	92.4	50.0-120	
(S) Nitrobenzene-d5			97.6	14.0-149	
(S) 2-Fluorobiphenyl			91.1	34.0-125	
(S) p-Terphenyl-d14			106	23.0-120	

L1302284-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1302284-01 01/07/21 12:25 • (MS) R3610685-3 01/07/21 12:44 • (MSD) R3610685-4 01/07/21 13:04

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	0.0776	ND	0.0912	0.0883	118	114	1	10.0-145			3.23	30
Acenaphthene	0.0776	ND	ND	ND	0.000	0.000	1	14.0-127	J6	J6	0.000	27
Acenaphthylene	0.0776	ND	ND	ND	0.000	0.000	1	21.0-124	J6	J6	0.000	25
Benzo(a)anthracene	0.0776	ND	0.0793	0.0770	102	99.2	1	10.0-139			2.94	30
Benzo(a)pyrene	0.0776	ND	0.0673	0.0668	86.7	86.1	1	10.0-141			0.746	31
Benzo(b)fluoranthene	0.0776	ND	0.0828	0.0805	107	104	1	10.0-140			2.82	36
Benzo(g,h,i)perylene	0.0776	0.00782	0.0810	0.0790	94.3	91.7	1	10.0-140			2.50	33
Benzo(k)fluoranthene	0.0776	ND	0.0770	0.0758	99.2	97.7	1	10.0-137			1.57	31
Chrysene	0.0776	ND	0.0798	0.0773	103	99.6	1	10.0-145			3.18	30
Dibenz(a,h)anthracene	0.0776	ND	0.0792	0.0771	102	99.4	1	10.0-132			2.69	31
Fluoranthene	0.0776	ND	0.0714	0.0680	92.0	87.6	1	10.0-153			4.88	33
Fluorene	0.0776	ND	ND	ND	0.000	0.000	1	11.0-130	J6	J6	0.000	29
Indeno(1,2,3-cd)pyrene	0.0776	ND	0.0771	0.0762	99.4	98.2	1	10.0-137			1.17	32
Naphthalene	0.0776	ND	ND	ND	0.000	0.000	1	10.0-135	J6	J6	0.000	27
Phenanthrene	0.0776	0.487	0.502	0.504	19.3	21.9	1	10.0-144			0.398	31
Pyrene	0.0776	0.432	0.456	0.442	30.9	12.9	1	10.0-148			3.12	35
1-Methylnaphthalene	0.0776	ND	ND	ND	0.000	0.000	1	10.0-142	J6	J6	0.000	28
2-Methylnaphthalene	0.0776	ND	ND	ND	0.000	0.000	1	10.0-137	J6	J6	0.000	28
2-Chloronaphthalene	0.0776	ND	ND	ND	0.000	0.000	1	29.0-120	J6	J6	0.000	24
(S) Nitrobenzene-d5					0.000	0.000		14.0-149	J2	J2		
(S) 2-Fluorobiphenyl					0.000	0.000		34.0-125	J2	J2		
(S) p-Terphenyl-d14					104	98.9		23.0-120				

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1302284-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1302284-01 01/07/21 12:25 • (MS) R3610685-3 01/07/21 12:44 • (MSD) R3610685-4 01/07/21 13:04

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%

Sample Narrative:
OS: Surrogate failure due to matrix interference

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3610705-2 01/07/21 09:27

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) Nitrobenzene-d5	74.0			14.0-149
(S) 2-Fluorobiphenyl	83.0			34.0-125
(S) p-Terphenyl-d14	103			23.0-120

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3610705-1 01/07/21 09:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0729	91.1	50.0-126	
Acenaphthene	0.0800	0.0726	90.8	50.0-120	
Acenaphthylene	0.0800	0.0785	98.1	50.0-120	
Benzo(a)anthracene	0.0800	0.0755	94.4	45.0-120	
Benzo(a)pyrene	0.0800	0.0660	82.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0656	82.0	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0706	88.3	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0688	86.0	49.0-125	
Chrysene	0.0800	0.0759	94.9	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0707	88.4	47.0-125	
Fluoranthene	0.0800	0.0818	102	49.0-129	



Laboratory Control Sample (LCS)

(LCS) R3610705-1 01/07/21 09:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0791	98.9	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0725	90.6	46.0-125	
Naphthalene	0.0800	0.0710	88.8	50.0-120	
Phenanthrene	0.0800	0.0726	90.8	47.0-120	
Pyrene	0.0800	0.0745	93.1	43.0-123	
1-Methylnaphthalene	0.0800	0.0763	95.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0730	91.3	50.0-120	
2-Chloronaphthalene	0.0800	0.0699	87.4	50.0-120	
(S) Nitrobenzene-d5			76.1	14.0-149	
(S) 2-Fluorobiphenyl			84.7	34.0-125	
(S) p-Terphenyl-d14			98.8	23.0-120	

L1303109-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1303109-01 01/07/21 10:06 • (MS) R3610705-3 01/07/21 10:26 • (MSD) R3610705-4 01/07/21 10:45

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	0.0768	ND	0.0706	0.0474	91.9	59.8	1	10.0-145		J3	39.3	30
Acenaphthene	0.0768	ND	0.0779	0.0464	94.7	52.0	1	14.0-127		J3	50.7	27
Acenaphthylene	0.0768	ND	0.0789	0.0523	95.0	58.6	1	21.0-124		J3	40.5	25
Benzo(a)anthracene	0.0768	ND	0.0728	0.0480	94.8	60.6	1	10.0-139		J3	41.1	30
Benzo(a)pyrene	0.0768	ND	0.0698	0.0483	90.9	61.0	1	10.0-141		J3	36.4	31
Benzo(b)fluoranthene	0.0768	ND	0.0626	0.0389	81.5	49.1	1	10.0-140		J3	46.7	36
Benzo(g,h,i)perylene	0.0768	ND	0.0684	0.0449	89.1	56.7	1	10.0-140		J3	41.5	33
Benzo(k)fluoranthene	0.0768	ND	0.0674	0.0485	87.8	61.2	1	10.0-137		J3	32.6	31
Chrysene	0.0768	ND	0.0733	0.0535	95.4	67.6	1	10.0-145		J3	31.2	30
Dibenz(a,h)anthracene	0.0768	ND	0.0665	0.0495	86.6	62.5	1	10.0-132			29.3	31
Fluoranthene	0.0768	ND	0.0790	0.0494	103	62.4	1	10.0-153		J3	46.1	33
Fluorene	0.0768	0.00769	0.0839	0.0498	99.2	53.2	1	11.0-130		J3	51.0	29
Indeno(1,2,3-cd)pyrene	0.0768	ND	0.0675	0.0466	87.9	58.8	1	10.0-137		J3	36.6	32
Naphthalene	0.0768	ND	0.114	0.0594	134	61.4	1	10.0-135		J3	63.0	27
Phenanthrene	0.0768	ND	0.0694	0.0434	90.4	54.8	1	10.0-144		J3	46.1	31
Pyrene	0.0768	ND	0.0726	0.0455	91.8	54.8	1	10.0-148		J3	45.9	35
1-Methylnaphthalene	0.0768	0.0225	0.123	0.0655	131	54.3	1	10.0-142		J3	61.0	28
2-Methylnaphthalene	0.0768	ND	0.0780	0.0579	102	73.1	1	10.0-137		J3	29.6	28
2-Chloronaphthalene	0.0768	ND	0.0637	0.0468	82.9	59.1	1	29.0-120		J3	30.6	24
(S) Nitrobenzene-d5					407	78.5		14.0-149	J1			
(S) 2-Fluorobiphenyl					94.3	76.6		34.0-125				
(S) p-Terphenyl-d14					101	84.6		23.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1303109-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1303109-01 01/07/21 10:06 • (MS) R3610705-3 01/07/21 10:26 • (MSD) R3610705-4 01/07/21 10:45

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%

Sample Narrative:
OS: Surrogate failure due to matrix interference

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



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.

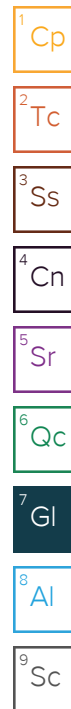
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
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.
V	The sample concentration is too high to evaluate accurate spike recoveries.





Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

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	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA

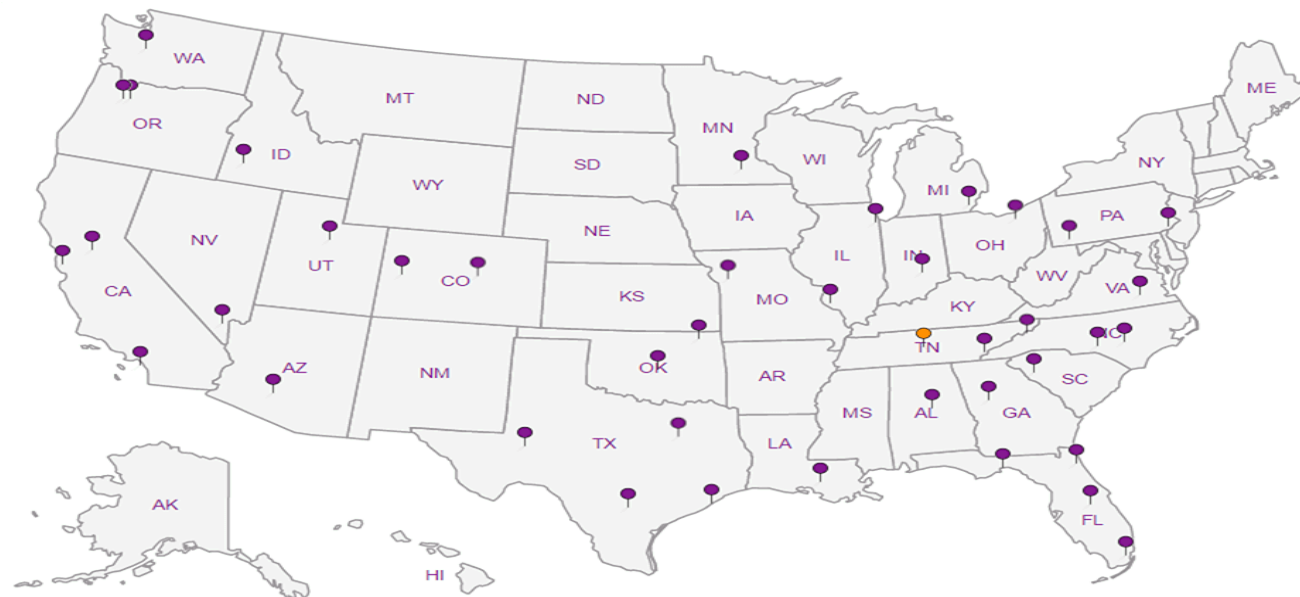
Third Party Federal Accreditations



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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



ENTRADA CONSULTING GROUP 330 Grand Avenue, Unit C Grand Junction, CO 81501				Billing Information:				Analysis / Container / Preservative										Chain of Custody Page ____ of ____	
				Report to: Stuart Hall				Email To: shallentradainc.com@				<div style="text-align: right;">  Pace Analytical® <small>National Center for Testing & Innovation</small> </div> <div style="text-align: right;"> 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 </div> <div style="text-align: right;">  </div> <div style="text-align: center; font-size: 24pt; margin-top: 10px;"> D012 LT302733 </div> <div style="margin-top: 10px;"> Acctnum: Template: Prelogin: TSR: PB: Shipped Via: </div>							
Project Description: Hawkins 10-4				City/State Collected: CO				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (DRO and GRO)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Table 910-1 Metals in soil</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Table 910-1 PAHs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">EC, SAR, pH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Arsenic</div> </div>											
Phone: (970.712.7329)		Client Project #		Lab Project #		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">No. of Cntrs</div> </div>													
Collected by (print): Jason McLarty		Site/Facility ID #		P.O. #												<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Date Results Needed</div> </div>			
Collected by (signature):		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote #		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/></div> </div>													
Sample ID		Comp/Grab	Matrix *	Depth	Date											Time	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (DRO and GRO)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Table 910-1 Metals in soil</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Table 910-1 PAHs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">EC, SAR, pH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Arsenic</div> </div>		
H 10-4 - BOT		Grab	SS	5'	1/4/21	1215	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Remarks</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Sample # (lab only)</div> </div>												
H 10-4 - N Wall		↓	SS	5'	↓	1230											<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Remarks</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Sample # (lab only)</div> </div>		
H 10-4 - S Wall		↓	SS	5'	↓	1300	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Remarks</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Sample # (lab only)</div> </div>												
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H 10-4 - E Wall		↓	SS	5'	↓	1330	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Remarks</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Sample # (lab only)</div> </div>												
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