

HRL Compliance Solutions- CO

Sample Delivery Group: L859824
Samples Received: 09/15/2016
Project Number: Black Hills
Description: Black hills - HSCU # 3 Pit Excavation
Site: HORSESHOE CANYON #3
Report To: Mark Mumby
2385 F ½ Road
Grand Junction, CO 81505

Entire Report Reviewed By:



Jason Romer
Technical Service Representative

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 ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



NORTH WALL 5FT L859824-01 Solid

Collected by
Casey Richardson

Collected date/time
09/13/16 12:35

Received date/time
09/15/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG908451	1	09/20/16 10:31	09/21/16 10:14	CCE
Calculated Results	WG909038	1	09/21/16 09:26	09/21/16 13:42	LTB
Mercury by Method 7471A	WG908580	1	09/16/16 15:30	09/17/16 05:47	TRB
Metals (ICP) by Method 6010B	WG909038	1	09/21/16 09:26	09/21/16 13:42	LTB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG908810	1	09/18/16 02:50	09/19/16 03:14	KMP
Semi-Volatile Organic Compounds (GC) by Method 8015	WG908761	1	09/16/16 17:29	09/16/16 23:25	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG909180	1	09/19/16 12:30	09/19/16 18:54	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG909330	1	09/21/16 21:49	09/22/16 01:32	JHH
Wet Chemistry by Method 3060A/7196A	WG907891	1	09/17/16 08:30	09/17/16 15:16	MHM
Wet Chemistry by Method 9045D	WG908497	1	09/19/16 15:41	09/19/16 15:41	MHM
Wet Chemistry by Method 9050AMod	WG908406	1	09/16/16 03:20	09/16/16 03:20	JLJ

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SOUTH WALL 5FT L859824-02 Solid

Collected by
Casey Richardson

Collected date/time
09/13/16 10:00

Received date/time
09/15/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG908451	1	09/20/16 10:31	09/21/16 10:17	CCE
Calculated Results	WG909038	1	09/21/16 09:26	09/21/16 13:50	LTB
Mercury by Method 7471A	WG908580	1	09/16/16 15:30	09/17/16 05:50	TRB
Metals (ICP) by Method 6010B	WG909038	1	09/21/16 09:26	09/21/16 13:50	LTB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG908810	1	09/18/16 02:50	09/19/16 03:35	KMP
Semi-Volatile Organic Compounds (GC) by Method 8015	WG908761	1	09/16/16 17:29	09/17/16 00:01	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG909180	1	09/19/16 12:30	09/19/16 19:16	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG909330	1	09/21/16 21:49	09/22/16 01:53	JHH
Wet Chemistry by Method 3060A/7196A	WG908496	1	09/20/16 15:00	09/21/16 12:39	JJL
Wet Chemistry by Method 9045D	WG908497	1	09/19/16 15:41	09/19/16 15:41	MHM
Wet Chemistry by Method 9050AMod	WG908406	1	09/16/16 03:20	09/16/16 03:20	JLJ

EAST WALL 5FT L859824-03 Solid

Collected by
Casey Richardson

Collected date/time
09/13/16 09:55

Received date/time
09/15/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG908451	1	09/20/16 10:31	09/21/16 10:20	CCE
Calculated Results	WG909038	1	09/21/16 09:26	09/21/16 13:53	LTB
Mercury by Method 7471A	WG908580	1	09/16/16 15:30	09/17/16 05:53	TRB
Metals (ICP) by Method 6010B	WG909038	8928571	09/21/16 09:26	09/21/16 13:53	LTB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG908810	1	09/18/16 02:50	09/19/16 03:57	KMP
Semi-Volatile Organic Compounds (GC) by Method 8015	WG908761	1	09/16/16 17:29	09/17/16 00:12	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG909180	24	09/19/16 12:30	09/19/16 19:38	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG909330	24.75	09/21/16 21:49	09/22/16 02:13	JHH
Wet Chemistry by Method 3060A/7196A	WG908496	1	09/20/16 15:00	09/21/16 12:39	JJL
Wet Chemistry by Method 9045D	WG908497	1	09/19/16 15:41	09/19/16 15:41	MHM
Wet Chemistry by Method 9050AMod	WG908406	1	09/16/16 03:20	09/16/16 03:20	JLJ

WEST WALL 5FT L859824-04 Solid

Collected by
Casey Richardson

Collected date/time
09/13/16 12:22

Received date/time
09/15/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG908451	1	09/20/16 10:31	09/21/16 10:23	CCE
Calculated Results	WG909038	1	09/21/16 09:26	09/21/16 13:55	LTB
Mercury by Method 7471A	WG908580	1	09/16/16 15:30	09/17/16 05:55	TRB
Metals (ICP) by Method 6010B	WG909038	1	09/21/16 09:26	09/21/16 13:55	LTB

ACCOUNT:

HRL Compliance Solutions- CO

PROJECT:

Black Hills

SDG:

L859824

DATE/TIME:

09/22/16 16:45

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



WEST WALL 5FT L859824-04 Solid

Collected by
Casey Richardson

Collected date/time
09/13/16 12:22

Received date/time
09/15/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG908810	1	09/18/16 02:50	09/19/16 04:19	KMP
Semi-Volatile Organic Compounds (GC) by Method 8015	WG908761	1	09/16/16 17:29	09/17/16 00:24	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG909180	24	09/19/16 12:30	09/22/16 13:38	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG909330	24	09/21/16 21:49	09/22/16 02:33	JHH
Wet Chemistry by Method 3060A/7196A	WG908496	1	09/20/16 15:00	09/21/16 12:39	JJL
Wet Chemistry by Method 9045D	WG908497	1	09/19/16 15:41	09/19/16 15:41	MHM
Wet Chemistry by Method 9050AMod	WG908406	1	09/16/16 03:20	09/16/16 03:20	JLJ

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

BOTTOM 9FT L859824-05 Solid

Collected by
Casey Richardson

Collected date/time
09/13/16 12:28

Received date/time
09/15/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG908451	1	09/20/16 10:31	09/21/16 10:25	CCE
Calculated Results	WG909038	1	09/21/16 09:26	09/21/16 13:58	LTB
Mercury by Method 7471A	WG908580	1	09/16/16 15:30	09/17/16 05:14	TRB
Metals (ICP) by Method 6010B	WG909038	1	09/21/16 09:26	09/21/16 13:58	LTB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG908810	1	09/18/16 02:50	09/19/16 04:41	KMP
Semi-Volatile Organic Compounds (GC) by Method 8015	WG908971	1	09/20/16 20:56	09/21/16 11:38	JM
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG909180	1	09/19/16 12:30	09/19/16 20:23	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG909330	23.75	09/21/16 21:49	09/22/16 02:53	JHH
Wet Chemistry by Method 3060A/7196A	WG908496	1	09/20/16 15:00	09/21/16 12:40	JJL
Wet Chemistry by Method 9045D	WG908497	1	09/19/16 15:41	09/19/16 15:41	MHM
Wet Chemistry by Method 9050AMod	WG908406	1	09/16/16 03:20	09/16/16 03:20	JLJ

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCOUNT:

HRL Compliance Solutions- CO

PROJECT:

Black Hills

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09/22/16 16:45

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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.

Jason Romer
Technical Service Representative

Sample Handling and Receiving

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

ESC Sample ID	Project Sample ID	Method
L859824-01	NORTH WALL 5FT	9045D
L859824-02	SOUTH WALL 5FT	9045D
L859824-03	EAST WALL 5FT	9045D
L859824-04	WEST WALL 5FT	9045D
L859824-05	BOTTOM 9FT	9045D

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	12.3		1	09/21/2016 10:14	WG908451

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chromium, Trivalent	6.81		2.00	1	09/21/2016 13:42	WG909038

Wet Chemistry by Method 3060A/7196A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	ND		2.00	1	09/17/2016 15:16	WG907891

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.30		1	09/19/2016 15:41	WG908497

Sample Narrative:

9045D L859824-01 WG908497: 8.30 at 20.9c

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Specific Conductance	1030 umhos/cm		1	09/16/2016 03:20	WG908406

Mercury by Method 7471A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.0200	1	09/17/2016 05:47	WG908580

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Arsenic	ND		2.00	1	09/21/2016 13:42	WG909038
Barium	243		0.500	1	09/21/2016 13:42	WG909038
Cadmium	ND		0.500	1	09/21/2016 13:42	WG909038
Chromium	8.49		1.00	1	09/21/2016 13:42	WG909038
Copper	11.7		2.00	1	09/21/2016 13:42	WG909038
Lead	15.7		0.500	1	09/21/2016 13:42	WG909038
Nickel	8.04		2.00	1	09/21/2016 13:42	WG909038
Selenium	ND		2.00	1	09/21/2016 13:42	WG909038
Silver	ND		1.00	1	09/21/2016 13:42	WG909038
Zinc	30.6		5.00	1	09/21/2016 13:42	WG909038

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	09/19/2016 18:54	WG909180
(S) a,a,a-Trifluorotoluene(FID)	91.2		59.0-128		09/19/2016 18:54	WG909180



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	09/22/2016 01:32	WG909330
Toluene	ND		0.00500	1	09/22/2016 01:32	WG909330
Ethylbenzene	ND		0.00100	1	09/22/2016 01:32	WG909330
Total Xylenes	ND		0.00300	1	09/22/2016 01:32	WG909330
(S) Toluene-d8	108		88.7-115		09/22/2016 01:32	WG909330
(S) Dibromofluoromethane	116		76.3-123		09/22/2016 01:32	WG909330
(S) a,a,a-Trifluorotoluene	95.6		87.2-117		09/22/2016 01:32	WG909330
(S) 4-Bromofluorobenzene	98.3		69.7-129		09/22/2016 01:32	WG909330

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	8.72		4.00	1	09/16/2016 23:25	WG908761
(S) o-Terphenyl	78.7		50.0-150		09/16/2016 23:25	WG908761

6 Qc

7 Gl

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	09/19/2016 03:14	WG908810
Acenaphthene	ND		0.00600	1	09/19/2016 03:14	WG908810
Acenaphthylene	ND		0.00600	1	09/19/2016 03:14	WG908810
Benzo(a)anthracene	ND		0.00600	1	09/19/2016 03:14	WG908810
Benzo(a)pyrene	ND		0.00600	1	09/19/2016 03:14	WG908810
Benzo(b)fluoranthene	ND		0.00600	1	09/19/2016 03:14	WG908810
Benzo(g,h,i)perylene	ND		0.00600	1	09/19/2016 03:14	WG908810
Benzo(k)fluoranthene	ND		0.00600	1	09/19/2016 03:14	WG908810
Chrysene	ND		0.00600	1	09/19/2016 03:14	WG908810
Dibenz(a,h)anthracene	ND		0.00600	1	09/19/2016 03:14	WG908810
Fluoranthene	ND		0.00600	1	09/19/2016 03:14	WG908810
Fluorene	ND		0.00600	1	09/19/2016 03:14	WG908810
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	09/19/2016 03:14	WG908810
Naphthalene	ND		0.0200	1	09/19/2016 03:14	WG908810
Phenanthrene	ND		0.00600	1	09/19/2016 03:14	WG908810
Pyrene	ND		0.00600	1	09/19/2016 03:14	WG908810
1-Methylnaphthalene	ND		0.0200	1	09/19/2016 03:14	WG908810
2-Methylnaphthalene	ND		0.0200	1	09/19/2016 03:14	WG908810
2-Chloronaphthalene	ND		0.0200	1	09/19/2016 03:14	WG908810
(S) p-Terphenyl-d14	85.4		32.2-131		09/19/2016 03:14	WG908810
(S) Nitrobenzene-d5	78.7		22.1-146		09/19/2016 03:14	WG908810
(S) 2-Fluorobiphenyl	97.8		40.6-122		09/19/2016 03:14	WG908810

8 Al

9 Sc



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.30		1	09/21/2016 10:17	WG908451

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chromium, Trivalent	10.1		2.00	1	09/21/2016 13:50	WG909038

Wet Chemistry by Method 3060A/7196A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	ND		2.00	1	09/21/2016 12:39	WG908496

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	9.47		1	09/19/2016 15:41	WG908497

Sample Narrative:

9045D L859824-02 WG908497: 9.47 at 20.2c

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Specific Conductance	712		1	09/16/2016 03:20	WG908406

Mercury by Method 7471A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.0200	1	09/17/2016 05:50	WG908580

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Arsenic	2.11		2.00	1	09/21/2016 13:50	WG909038
Barium	246		0.500	1	09/21/2016 13:50	WG909038
Cadmium	ND		0.500	1	09/21/2016 13:50	WG909038
Chromium	10.1		1.00	1	09/21/2016 13:50	WG909038
Copper	11.0		2.00	1	09/21/2016 13:50	WG909038
Lead	13.7		0.500	1	09/21/2016 13:50	WG909038
Nickel	7.95		2.00	1	09/21/2016 13:50	WG909038
Selenium	ND		2.00	1	09/21/2016 13:50	WG909038
Silver	ND		1.00	1	09/21/2016 13:50	WG909038
Zinc	34.3		5.00	1	09/21/2016 13:50	WG909038

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.591		0.100	1	09/19/2016 19:16	WG909180
(S) a,a,a-Trifluorotoluene(FID)	92.3		59.0-128		09/19/2016 19:16	WG909180



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	09/22/2016 01:53	WG909330
Toluene	ND		0.00500	1	09/22/2016 01:53	WG909330
Ethylbenzene	ND		0.00100	1	09/22/2016 01:53	WG909330
Total Xylenes	ND		0.00300	1	09/22/2016 01:53	WG909330
(S) Toluene-d8	109		88.7-115		09/22/2016 01:53	WG909330
(S) Dibromofluoromethane	119		76.3-123		09/22/2016 01:53	WG909330
(S) a,a,a-Trifluorotoluene	94.2		87.2-117		09/22/2016 01:53	WG909330
(S) 4-Bromofluorobenzene	108		69.7-129		09/22/2016 01:53	WG909330

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	8.94		4.00	1	09/17/2016 00:01	WG908761
(S) o-Terphenyl	67.5		50.0-150		09/17/2016 00:01	WG908761

6 Qc

7 Gl

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	09/19/2016 03:35	WG908810
Acenaphthene	ND		0.00600	1	09/19/2016 03:35	WG908810
Acenaphthylene	ND		0.00600	1	09/19/2016 03:35	WG908810
Benzo(a)anthracene	ND		0.00600	1	09/19/2016 03:35	WG908810
Benzo(a)pyrene	ND		0.00600	1	09/19/2016 03:35	WG908810
Benzo(b)fluoranthene	ND		0.00600	1	09/19/2016 03:35	WG908810
Benzo(g,h,i)perylene	ND		0.00600	1	09/19/2016 03:35	WG908810
Benzo(k)fluoranthene	ND		0.00600	1	09/19/2016 03:35	WG908810
Chrysene	ND		0.00600	1	09/19/2016 03:35	WG908810
Dibenz(a,h)anthracene	ND		0.00600	1	09/19/2016 03:35	WG908810
Fluoranthene	ND		0.00600	1	09/19/2016 03:35	WG908810
Fluorene	ND		0.00600	1	09/19/2016 03:35	WG908810
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	09/19/2016 03:35	WG908810
Naphthalene	ND		0.0200	1	09/19/2016 03:35	WG908810
Phenanthrene	ND		0.00600	1	09/19/2016 03:35	WG908810
Pyrene	ND		0.00600	1	09/19/2016 03:35	WG908810
1-Methylnaphthalene	ND		0.0200	1	09/19/2016 03:35	WG908810
2-Methylnaphthalene	ND		0.0200	1	09/19/2016 03:35	WG908810
2-Chloronaphthalene	ND		0.0200	1	09/19/2016 03:35	WG908810
(S) p-Terphenyl-d14	67.8		32.2-131		09/19/2016 03:35	WG908810
(S) Nitrobenzene-d5	75.6		22.1-146		09/19/2016 03:35	WG908810
(S) 2-Fluorobiphenyl	85.0		40.6-122		09/19/2016 03:35	WG908810

8 Al

9 Sc



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.90		1	09/21/2016 10:20	WG908451

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chromium, Trivalent	10.1		2.00	1	09/21/2016 13:53	WG909038

Wet Chemistry by Method 3060A/7196A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	ND		2.00	1	09/21/2016 12:39	WG908496

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.26		1	09/19/2016 15:41	WG908497

Sample Narrative:

9045D L859824-03 WG908497: 8.26 at 20.5c

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Specific Conductance	826		1	09/16/2016 03:20	WG908406

Mercury by Method 7471A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	0.0525		0.0200	1	09/17/2016 05:53	WG908580

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Arsenic	2.43		1.79	.8928571	09/21/2016 13:53	WG909038
Barium	552		0.446	.8928571	09/21/2016 13:53	WG909038
Cadmium	ND		0.446	.8928571	09/21/2016 13:53	WG909038
Chromium	10.1		0.893	.8928571	09/21/2016 13:53	WG909038
Copper	17.0		1.79	.8928571	09/21/2016 13:53	WG909038
Lead	24.7		0.446	.8928571	09/21/2016 13:53	WG909038
Nickel	10.2		1.79	.8928571	09/21/2016 13:53	WG909038
Selenium	ND		1.79	.8928571	09/21/2016 13:53	WG909038
Silver	ND		0.893	.8928571	09/21/2016 13:53	WG909038
Zinc	39.2		4.46	.8928571	09/21/2016 13:53	WG909038

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	3.53	B	2.40	24	09/19/2016 19:38	WG909180
(S) a,a,a-Trifluorotoluene(FID)	97.6		59.0-128		09/19/2016 19:38	WG909180



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.0248	24.75	09/22/2016 02:13	WG909330
Toluene	ND		0.124	24.75	09/22/2016 02:13	WG909330
Ethylbenzene	ND		0.0248	24.75	09/22/2016 02:13	WG909330
Total Xylenes	ND		0.0743	24.75	09/22/2016 02:13	WG909330
(S) Toluene-d8	110		88.7-115		09/22/2016 02:13	WG909330
(S) Dibromofluoromethane	106		76.3-123		09/22/2016 02:13	WG909330
(S) a,a,a-Trifluorotoluene	97.5		87.2-117		09/22/2016 02:13	WG909330
(S) 4-Bromofluorobenzene	110		69.7-129		09/22/2016 02:13	WG909330

Sample Narrative:

8260B L859824-03 WG909330: Non-target compounds too high to run at a lower dilution.

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	58.9		4.00	1	09/17/2016 00:12	WG908761
(S) o-Terphenyl	69.8		50.0-150		09/17/2016 00:12	WG908761

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00930		0.00600	1	09/19/2016 03:57	WG908810
Acenaphthene	0.00799		0.00600	1	09/19/2016 03:57	WG908810
Acenaphthylene	ND		0.00600	1	09/19/2016 03:57	WG908810
Benzo(a)anthracene	ND		0.00600	1	09/19/2016 03:57	WG908810
Benzo(a)pyrene	ND		0.00600	1	09/19/2016 03:57	WG908810
Benzo(b)fluoranthene	ND		0.00600	1	09/19/2016 03:57	WG908810
Benzo(g,h,i)perylene	ND		0.00600	1	09/19/2016 03:57	WG908810
Benzo(k)fluoranthene	ND		0.00600	1	09/19/2016 03:57	WG908810
Chrysene	ND		0.00600	1	09/19/2016 03:57	WG908810
Dibenz(a,h)anthracene	ND		0.00600	1	09/19/2016 03:57	WG908810
Fluoranthene	ND		0.00600	1	09/19/2016 03:57	WG908810
Fluorene	0.0239		0.00600	1	09/19/2016 03:57	WG908810
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	09/19/2016 03:57	WG908810
Naphthalene	0.0378		0.0200	1	09/19/2016 03:57	WG908810
Phenanthrene	0.0696		0.00600	1	09/19/2016 03:57	WG908810
Pyrene	0.00664		0.00600	1	09/19/2016 03:57	WG908810
1-Methylnaphthalene	0.217		0.0200	1	09/19/2016 03:57	WG908810
2-Methylnaphthalene	0.0227		0.0200	1	09/19/2016 03:57	WG908810
2-Chloronaphthalene	ND		0.0200	1	09/19/2016 03:57	WG908810
(S) p-Terphenyl-d14	84.7		32.2-131		09/19/2016 03:57	WG908810
(S) Nitrobenzene-d5	64.3		22.1-146		09/19/2016 03:57	WG908810
(S) 2-Fluorobiphenyl	95.1		40.6-122		09/19/2016 03:57	WG908810

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.75		1	09/21/2016 10:23	WG908451

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chromium, Trivalent	7.58		2.00	1	09/21/2016 13:55	WG909038

Wet Chemistry by Method 3060A/7196A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	ND		2.00	1	09/21/2016 12:39	WG908496

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	9.34		1	09/19/2016 15:41	WG908497

Sample Narrative:

9045D L859824-04 WG908497: 9.34 at 20.3c

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Specific Conductance	745		1	09/16/2016 03:20	WG908406

Mercury by Method 7471A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.0200	1	09/17/2016 05:55	WG908580

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Arsenic	ND		2.00	1	09/21/2016 13:55	WG909038
Barium	196		0.500	1	09/21/2016 13:55	WG909038
Cadmium	ND		0.500	1	09/21/2016 13:55	WG909038
Chromium	7.58		1.00	1	09/21/2016 13:55	WG909038
Copper	10.1		2.00	1	09/21/2016 13:55	WG909038
Lead	14.5		0.500	1	09/21/2016 13:55	WG909038
Nickel	7.38		2.00	1	09/21/2016 13:55	WG909038
Selenium	ND		2.00	1	09/21/2016 13:55	WG909038
Silver	ND		1.00	1	09/21/2016 13:55	WG909038
Zinc	29.0		5.00	1	09/21/2016 13:55	WG909038

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	64.7		2.40	24	09/22/2016 13:38	WG909180
(S) a,a,a-Trifluorotoluene(FID)	98.2		59.0-128		09/22/2016 13:38	WG909180



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.0240	24	09/22/2016 02:33	WG909330
Toluene	ND		0.120	24	09/22/2016 02:33	WG909330
Ethylbenzene	ND		0.0240	24	09/22/2016 02:33	WG909330
Total Xylenes	ND		0.0720	24	09/22/2016 02:33	WG909330
(S) Toluene-d8	109		88.7-115		09/22/2016 02:33	WG909330
(S) Dibromofluoromethane	105		76.3-123		09/22/2016 02:33	WG909330
(S) a,a,a-Trifluorotoluene	96.7		87.2-117		09/22/2016 02:33	WG909330
(S) 4-Bromofluorobenzene	116		69.7-129		09/22/2016 02:33	WG909330

Sample Narrative:

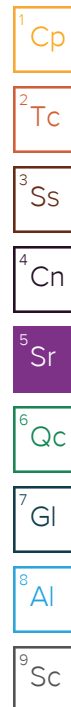
8260B L859824-04 WG909330: Non-target compounds too high to run at a lower dilution.

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	26.5		4.00	1	09/17/2016 00:24	WG908761
(S) o-Terphenyl	55.4		50.0-150		09/17/2016 00:24	WG908761

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	09/19/2016 04:19	WG908810
Acenaphthene	ND		0.00600	1	09/19/2016 04:19	WG908810
Acenaphthylene	ND		0.00600	1	09/19/2016 04:19	WG908810
Benzo(a)anthracene	ND		0.00600	1	09/19/2016 04:19	WG908810
Benzo(a)pyrene	ND		0.00600	1	09/19/2016 04:19	WG908810
Benzo(b)fluoranthene	ND		0.00600	1	09/19/2016 04:19	WG908810
Benzo(g,h,i)perylene	ND		0.00600	1	09/19/2016 04:19	WG908810
Benzo(k)fluoranthene	ND		0.00600	1	09/19/2016 04:19	WG908810
Chrysene	ND		0.00600	1	09/19/2016 04:19	WG908810
Dibenz(a,h)anthracene	ND		0.00600	1	09/19/2016 04:19	WG908810
Fluoranthene	ND		0.00600	1	09/19/2016 04:19	WG908810
Fluorene	0.0176		0.00600	1	09/19/2016 04:19	WG908810
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	09/19/2016 04:19	WG908810
Naphthalene	ND		0.0200	1	09/19/2016 04:19	WG908810
Phenanthrene	0.0230		0.00600	1	09/19/2016 04:19	WG908810
Pyrene	ND		0.00600	1	09/19/2016 04:19	WG908810
1-Methylnaphthalene	0.160		0.0200	1	09/19/2016 04:19	WG908810
2-Methylnaphthalene	0.125		0.0200	1	09/19/2016 04:19	WG908810
2-Chloronaphthalene	ND		0.0200	1	09/19/2016 04:19	WG908810
(S) p-Terphenyl-d14	79.5		32.2-131		09/19/2016 04:19	WG908810
(S) Nitrobenzene-d5	118		22.1-146		09/19/2016 04:19	WG908810
(S) 2-Fluorobiphenyl	98.4		40.6-122		09/19/2016 04:19	WG908810





Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.62		1	09/21/2016 10:25	WG908451

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chromium, Trivalent	6.82		2.00	1	09/21/2016 13:58	WG909038

Wet Chemistry by Method 3060A/7196A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	ND		2.00	1	09/21/2016 12:40	WG908496

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	9.30		1	09/19/2016 15:41	WG908497

Sample Narrative:

9045D L859824-05 WG908497: 9.30 at 20.1c

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Specific Conductance	457		1	09/16/2016 03:20	WG908406

Mercury by Method 7471A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	0.0226		0.0200	1	09/17/2016 05:14	WG908580

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Arsenic	ND		2.00	1	09/21/2016 13:58	WG909038
Barium	172		0.500	1	09/21/2016 13:58	WG909038
Cadmium	ND		0.500	1	09/21/2016 13:58	WG909038
Chromium	6.82		1.00	1	09/21/2016 13:58	WG909038
Copper	12.7		2.00	1	09/21/2016 13:58	WG909038
Lead	18.6		0.500	1	09/21/2016 13:58	WG909038
Nickel	16.0		2.00	1	09/21/2016 13:58	WG909038
Selenium	ND		2.00	1	09/21/2016 13:58	WG909038
Silver	ND		1.00	1	09/21/2016 13:58	WG909038
Zinc	31.5		5.00	1	09/21/2016 13:58	WG909038

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	5.82		0.100	1	09/19/2016 20:23	WG909180
(S) a,a,a-Trifluorotoluene(FID)	87.3		59.0-128		09/19/2016 20:23	WG909180



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.0238	23.75	09/22/2016 02:53	WG909330
Toluene	ND		0.119	23.75	09/22/2016 02:53	WG909330
Ethylbenzene	ND		0.0238	23.75	09/22/2016 02:53	WG909330
Total Xylenes	ND		0.0713	23.75	09/22/2016 02:53	WG909330
(S) Toluene-d8	109		88.7-115		09/22/2016 02:53	WG909330
(S) Dibromofluoromethane	108		76.3-123		09/22/2016 02:53	WG909330
(S) a,a,a-Trifluorotoluene	96.1		87.2-117		09/22/2016 02:53	WG909330
(S) 4-Bromofluorobenzene	106		69.7-129		09/22/2016 02:53	WG909330

Sample Narrative:

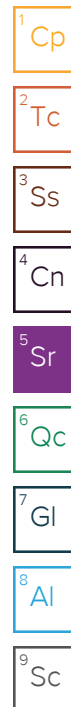
8260B L859824-05 WG909330: Non-target compounds too high to run at a lower dilution.

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	7.37		4.00	1	09/21/2016 11:38	WG908971
(S) o-Terphenyl	88.0		50.0-150		09/21/2016 11:38	WG908971

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	09/19/2016 04:41	WG908810
Acenaphthene	ND		0.00600	1	09/19/2016 04:41	WG908810
Acenaphthylene	ND		0.00600	1	09/19/2016 04:41	WG908810
Benzo(a)anthracene	ND		0.00600	1	09/19/2016 04:41	WG908810
Benzo(a)pyrene	ND		0.00600	1	09/19/2016 04:41	WG908810
Benzo(b)fluoranthene	ND		0.00600	1	09/19/2016 04:41	WG908810
Benzo(g,h,i)perylene	ND	<u>J3</u>	0.00600	1	09/19/2016 04:41	WG908810
Benzo(k)fluoranthene	ND		0.00600	1	09/19/2016 04:41	WG908810
Chrysene	ND		0.00600	1	09/19/2016 04:41	WG908810
Dibenz(a,h)anthracene	ND		0.00600	1	09/19/2016 04:41	WG908810
Fluoranthene	ND		0.00600	1	09/19/2016 04:41	WG908810
Fluorene	ND		0.00600	1	09/19/2016 04:41	WG908810
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	09/19/2016 04:41	WG908810
Naphthalene	ND		0.0200	1	09/19/2016 04:41	WG908810
Phenanthrene	ND		0.00600	1	09/19/2016 04:41	WG908810
Pyrene	ND		0.00600	1	09/19/2016 04:41	WG908810
1-Methylnaphthalene	0.0267		0.0200	1	09/19/2016 04:41	WG908810
2-Methylnaphthalene	ND		0.0200	1	09/19/2016 04:41	WG908810
2-Chloronaphthalene	ND		0.0200	1	09/19/2016 04:41	WG908810
(S) p-Terphenyl-d14	74.7		32.2-131		09/19/2016 04:41	WG908810
(S) Nitrobenzene-d5	76.5		22.1-146		09/19/2016 04:41	WG908810
(S) 2-Fluorobiphenyl	91.5		40.6-122		09/19/2016 04:41	WG908810



Method Blank (MB)

(MB) R3164293-1 09/17/16 15:01

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

L859074-01 Original Sample (OS) • Duplicate (DUP)

(OS) L859074-01 09/17/16 15:04 • (DUP) R3164293-4 09/17/16 15:04

	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

L859824-01 Original Sample (OS) • Duplicate (DUP)

(OS) L859824-01 09/17/16 15:16 • (DUP) R3164293-5 09/17/16 15:16

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chromium,Hexavalent	ND	ND	1	5.00	J	20

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

(LCS) R3164293-2 09/17/16 15:02 • (LCSD) R3164293-3 09/17/16 15:02

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chromium,Hexavalent	56.9	48.6	49.0	85.0	86.0	80.0-120			1.00	20

L859824-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L859824-01 09/17/16 15:16 • (MS) R3164293-6 09/17/16 15:17 • (MSD) R3164293-7 09/17/16 15:18

	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	17.5	18.2	79.0	82.0	1	75.0-125			4.00	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3165052-1 09/21/16 12:36

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

L860391-03 Original Sample (OS) • Duplicate (DUP)

(OS) L860391-03 09/21/16 12:43 • (DUP) R3165052-4 09/21/16 12:44

	Original Result (dry)	DUP Result (dry)	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) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3165052-2 09/21/16 12:36 • (LCSD) R3165052-3 09/21/16 12:37

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chromium,Hexavalent	56.9	45.8	45.6	80.0	80.0	80.0-120			0.000	20

L860391-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L860391-03 09/21/16 12:43 • (MS) R3165052-5 09/21/16 12:45 • (MSD) R3165052-6 09/21/16 12:45

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chromium,Hexavalent	34.0	ND	1.09	ND	0.000	0.000	1	75.0-125	J6	J6	0.000	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L859799-03 Original Sample (OS) • Duplicate (DUP)

(OS) L859799-03 09/19/16 15:41 • (DUP) WG908497-3 09/19/16 15:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.81	7.83	1	0.256		1

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L860076-03 Original Sample (OS) • Duplicate (DUP)

(OS) L860076-03 09/19/16 15:41 • (DUP) WG908497-4 09/19/16 15:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	9.96	9.95	1	0.100		1

⁷Gl

⁸Al

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

(LCS) WG908497-1 09/19/16 15:41 • (LCSD) WG908497-2 09/19/16 15:41

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	su	su	su	%	%	%			%	%
pH	6.11	6.18	6.21	101	102	98.4-102			0.484	1

⁹Sc



Method Blank (MB)

(MB) WG908406-1 09/16/16 03:20

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	1.04			

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

L859829-04 Original Sample (OS) • Duplicate (DUP)

(OS) L859829-04 09/16/16 03:20 • (DUP) WG908406-4 09/16/16 03:20

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	175	175	1	0.401		20

7
Gl

8
Al

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

(LCS) WG908406-2 09/16/16 03:20 • (LCSD) WG908406-3 09/16/16 03:20

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCSD Result umhos/cm	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Specific Conductance	542	551	550	102	101	90.0-110			0.182	20

9
Sc



Method Blank (MB)

(MB) R3164242-1 09/17/16 05:07

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0028	0.0200

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

(LCS) R3164242-2 09/17/16 05:09 • (LCSD) R3164242-3 09/17/16 05:12

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Mercury	0.300	0.276	0.255	92	85	80-120			8	20

L859824-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L859824-05 09/17/16 05:14 • (MS) R3164242-4 09/17/16 05:17 • (MSD) R3164242-5 09/17/16 05:20

	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	0.300	0.0226	0.287	0.259	88	79	1	75-125			10	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3165082-1 09/21/16 12:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.65	2.00
Barium	U		0.17	0.500
Cadmium	U		0.07	0.500
Chromium	0.163	U	0.14	1.00
Copper	U		0.53	2.00
Lead	0.217	U	0.19	0.500
Nickel	U		0.49	2.00
Selenium	U		0.74	2.00
Silver	U		0.28	1.00
Zinc	1.38	U	0.59	5.00

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3165082-2 09/21/16 12:39 • (LCSD) R3165082-3 09/21/16 12:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	93.8	97.4	94	97	80-120			4	20
Barium	100	94.6	98.3	95	98	80-120			4	20
Cadmium	100	93.0	96.9	93	97	80-120			4	20
Chromium	100	92.4	96.8	92	97	80-120			5	20
Copper	100	93.8	97.5	94	98	80-120			4	20
Lead	100	92.1	95.8	92	96	80-120			4	20
Nickel	100	92.8	97.0	93	97	80-120			4	20
Selenium	100	94.6	98.6	95	99	80-120			4	20
Silver	100	90.2	94.0	90	94	80-120			4	20
Zinc	100	93.8	97.6	94	98	80-120			4	20

L859802-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L859802-22 09/21/16 12:44 • (MS) R3165082-6 09/21/16 12:51 • (MSD) R3165082-7 09/21/16 12:54

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	5.22	99.7	105	94	100	1	75-125			5	20
Barium	100	89.0	181	189	92	100	1	75-125			4	20
Cadmium	100	ND	96.5	102	96	102	1	75-125			6	20
Chromium	100	21.6	114	120	92	98	1	75-125			5	20
Copper	100	2.32	101	106	98	104	1	75-125			6	20
Lead	100	12.1	106	114	94	102	1	75-125			7	20
Nickel	100	13.0	110	115	97	102	1	75-125			4	20



L859802-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L859802-22 09/21/16 12:44 • (MS) R3165082-6 09/21/16 12:51 • (MSD) R3165082-7 09/21/16 12:54

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	ND	95.1	99.6	95	100	1	75-125			5	20
Silver	100	ND	94.8	100	95	100	1	75-125			6	20
Zinc	100	27.9	120	127	92	99	1	75-125			5	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3164533-3 09/19/16 13:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0226	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.2			59.0-128

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

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

(LCS) R3164533-1 09/19/16 12:28 • (LCSD) R3164533-2 09/19/16 12:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.43	5.46	98.8	99.3	63.5-137			0.530	20
(S) a,a,a-Trifluorotoluene(FID)				111	111	59.0-128				

7Gl

8Al

L859802-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L859802-03 09/19/16 16:41 • (MS) R3164533-4 09/19/16 14:48 • (MSD) R3164533-5 09/19/16 15:11

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	5.50	ND	1.93	1.84	34.3	32.7	1	28.5-138			4.75	23.6
(S) a,a,a-Trifluorotoluene(FID)					91.6	89.1		59.0-128				

9Sc



Method Blank (MB)

(MB) R3165270-1 09/21/16 21:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000270	0.00100
Ethylbenzene	U		0.000297	0.00100
Toluene	U		0.000434	0.00500
Xylenes, Total	U		0.000698	0.00300
(S) Toluene-d8	110			88.7-115
(S) Dibromofluoromethane	114			76.3-123
(S) a,a,a-Trifluorotoluene	98.0			87.2-117
(S) 4-Bromofluorobenzene	102			69.7-129

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

(LCS) R3165270-2 09/21/16 22:18 • (LCSD) R3165270-3 09/21/16 22:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0282	0.0279	113	112	72.6-120			0.930	20
Ethylbenzene	0.0250	0.0251	0.0242	101	96.7	78.6-124			3.97	20
Toluene	0.0250	0.0246	0.0245	98.2	98.0	76.7-116			0.190	20
Xylenes, Total	0.0750	0.0747	0.0721	99.6	96.1	78.1-123			3.62	20
(S) Toluene-d8				108	110	88.7-115				
(S) Dibromofluoromethane				110	114	76.3-123				
(S) a,a,a-Trifluorotoluene				98.5	98.4	87.2-117				
(S) 4-Bromofluorobenzene				101	101	69.7-129				

L859824-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L859824-03 09/22/16 02:13 • (MS) R3165270-4 09/22/16 00:12 • (MSD) R3165270-5 09/22/16 00:32

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 %
Benzene	0.0250	ND	0.595	0.619	96.2	100	24.75	47.8-131			3.87	22.8
Ethylbenzene	0.0250	ND	0.555	0.560	89.7	90.4	24.75	44.8-135			0.850	26.9
Toluene	0.0250	ND	0.550	0.564	88.9	91.2	24.75	47.8-127			2.51	24.3
Xylenes, Total	0.0750	ND	1.62	1.67	87.5	90.2	24.75	42.7-135			3.10	26.6
(S) Toluene-d8					108	109		88.7-115				
(S) Dibromofluoromethane					108	109		76.3-123				
(S) a,a,a-Trifluorotoluene					98.5	99.7		87.2-117				
(S) 4-Bromofluorobenzene					109	113		69.7-129				



Method Blank (MB)

(MB) R3164291-1 09/16/16 22:50

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	75.2			50.0-150

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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

(LCS) R3164291-2 09/16/16 23:02 • (LCSD) R3164291-3 09/16/16 23:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	60.0	41.4	50.0	69.1	83.4	50.0-150			18.8	20
(S) o-Terphenyl				83.6	88.0	50.0-150				

L859824-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L859824-01 09/16/16 23:25 • (MS) R3164291-4 09/16/16 23:37 • (MSD) R3164291-5 09/16/16 23:49

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	60.0	8.72	60.9	56.8	87.0	80.2	1	50.0-150			7.00	20
(S) o-Terphenyl					87.1	86.6		50.0-150				



Method Blank (MB)

(MB) R3164992-1 09/21/16 08:56

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	93.5			50.0-150

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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

(LCS) R3164992-2 09/21/16 09:08 • (LCSD) R3164992-3 09/21/16 09:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	60.0	48.4	44.2	80.6	73.7	50.0-150			8.95	20
(S) o-Terphenyl				88.0	77.5	50.0-150				

L859861-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L859861-03 09/21/16 14:19 • (MS) R3164992-4 09/21/16 14:31 • (MSD) R3164992-5 09/21/16 14:42

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	41.7	16.4	85.8	78.2	83.2	74.1	2	50.0-150			9.27	20
(S) o-Terphenyl					82.1	77.5		50.0-150				

Method Blank (MB)

(MB) R3164455-3 09/19/16 02:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.000600	0.00600
Acenaphthene	U		0.000600	0.00600
Acenaphthylene	U		0.000600	0.00600
Benzo(a)anthracene	U		0.000600	0.00600
Benzo(a)pyrene	U		0.000600	0.00600
Benzo(b)fluoranthene	U		0.000600	0.00600
Benzo(g,h,i)perylene	U		0.000600	0.00600
Benzo(k)fluoranthene	U		0.000600	0.00600
Chrysene	U		0.000600	0.00600
Dibenz(a,h)anthracene	U		0.000600	0.00600
Fluoranthene	U		0.000600	0.00600
Fluorene	U		0.000600	0.00600
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600
Naphthalene	U		0.00200	0.0200
Phenanthrene	U		0.000600	0.00600
Pyrene	U		0.000600	0.00600
1-Methylnaphthalene	U		0.00200	0.0200
2-Methylnaphthalene	U		0.00200	0.0200
2-Chloronaphthalene	U		0.00200	0.0200
(S) p-Terphenyl-d14	84.4			32.2-131
(S) Nitrobenzene-d5	76.9			22.1-146
(S) 2-Fluorobiphenyl	90.3			40.6-122

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3164455-1 09/19/16 02:01 • (LCSD) R3164455-2 09/19/16 02:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0800	0.0786	0.0863	98.3	108	50.3-130			9.35	20
Acenaphthene	0.0800	0.0739	0.0746	92.4	93.3	52.4-120			0.930	20
Acenaphthylene	0.0800	0.0738	0.0779	92.3	97.3	49.6-120			5.29	20
Benzo(a)anthracene	0.0800	0.0796	0.0786	99.5	98.3	46.7-125			1.24	20
Benzo(a)pyrene	0.0800	0.0712	0.0723	89.1	90.4	42.3-119			1.51	20
Benzo(b)fluoranthene	0.0800	0.0756	0.0753	94.5	94.1	43.6-124			0.390	20
Benzo(g,h,i)perylene	0.0800	0.0802	0.0768	100	96.0	45.1-132			4.35	20
Benzo(k)fluoranthene	0.0800	0.0750	0.0765	93.8	95.6	46.1-131			1.94	20
Chrysene	0.0800	0.0797	0.0804	99.6	100	49.5-131			0.920	20
Dibenz(a,h)anthracene	0.0800	0.0849	0.0774	106	96.7	44.8-133			9.28	20
Fluoranthene	0.0800	0.0712	0.0837	89.0	105	49.3-128			16.2	20

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

(LCS) R3164455-1 09/19/16 02:01 • (LCSD) R3164455-2 09/19/16 02:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Fluorene	0.0800	0.0764	0.0736	95.6	91.9	50.6-121			3.86	20
Indeno(1,2,3-cd)pyrene	0.0800	0.0845	0.0778	106	97.3	46.1-135			8.25	20
Naphthalene	0.0800	0.0645	0.0682	80.6	85.3	49.6-115			5.65	20
Phenanthrene	0.0800	0.0774	0.0759	96.8	94.8	48.8-121			2.08	20
Pyrene	0.0800	0.0830	0.0883	104	110	44.7-130			6.18	20
1-Methylnaphthalene	0.0800	0.0828	0.0764	103	95.4	50.6-122			8.09	20
2-Methylnaphthalene	0.0800	0.0835	0.0774	104	96.7	50.4-120			7.60	20
2-Chloronaphthalene	0.0800	0.0674	0.0653	84.2	81.6	53.9-121			3.10	20
(S) p-Terphenyl-d14				92.0	96.0	32.2-131				
(S) Nitrobenzene-d5				80.3	80.3	22.1-146				
(S) 2-Fluorobiphenyl				98.9	99.5	40.6-122				

L859824-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L859824-05 09/19/16 04:41 • (MS) R3164455-4 09/19/16 05:02 • (MSD) R3164455-5 09/19/16 05:24

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	ND	0.0648	0.0745	81.0	93.1	1	26.5-141			13.8	21.2
Acenaphthene	0.0800	ND	0.0619	0.0688	76.6	85.2	1	31.9-130			10.5	20
Acenaphthylene	0.0800	ND	0.0652	0.0727	81.5	90.9	1	33.7-129			10.9	20
Benzo(a)anthracene	0.0800	ND	0.0563	0.0687	70.4	85.9	1	18.3-136			19.8	24.6
Benzo(a)pyrene	0.0800	ND	0.0573	0.0702	71.6	87.7	1	16.9-135			20.2	25.2
Benzo(b)fluoranthene	0.0800	ND	0.0477	0.0610	59.6	76.2	1	10.0-134			24.5	30.9
Benzo(g,h,i)perylene	0.0800	ND	0.0479	0.0635	59.8	79.4	1	14.1-140		J3	28.0	25.5
Benzo(k)fluoranthene	0.0800	ND	0.0524	0.0610	65.5	76.3	1	18.2-138			15.2	25.6
Chrysene	0.0800	ND	0.0572	0.0689	71.5	86.1	1	17.1-145			18.4	24.2
Dibenz(a,h)anthracene	0.0800	ND	0.0519	0.0627	64.9	78.4	1	18.5-138			18.8	24.3
Fluoranthene	0.0800	ND	0.0622	0.0736	77.7	92.0	1	15.4-144			16.9	27.1
Fluorene	0.0800	ND	0.0635	0.0749	76.8	91.0	1	23.5-136			16.4	20
Indeno(1,2,3-cd)pyrene	0.0800	ND	0.0509	0.0637	63.6	79.6	1	14.5-142			22.4	25.8
Naphthalene	0.0800	ND	0.0718	0.0681	85.4	80.8	1	29.2-128			5.21	20
Phenanthrene	0.0800	ND	0.0640	0.0745	76.5	89.6	1	20.1-134			15.1	23.6
Pyrene	0.0800	ND	0.0624	0.0778	78.0	97.3	1	11.0-148			22.0	26.1
1-Methylnaphthalene	0.0800	0.0267	0.108	0.123	101	120	1	28.4-137			13.3	20
2-Methylnaphthalene	0.0800	ND	0.0881	0.0991	92.9	107	1	26.6-137			11.8	20
2-Chloronaphthalene	0.0800	ND	0.0586	0.0652	73.2	81.6	1	38.6-126			10.8	20
(S) p-Terphenyl-d14					77.9	86.1		32.2-131				
(S) Nitrobenzene-d5					64.4	84.1		22.1-146				
(S) 2-Fluorobiphenyl					88.1	96.9		40.6-122				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
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.
(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.
Rec.	Recovery.

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



ESC Lab Sciences 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.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

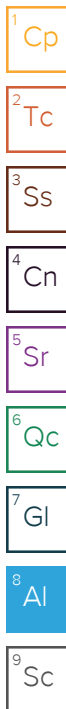
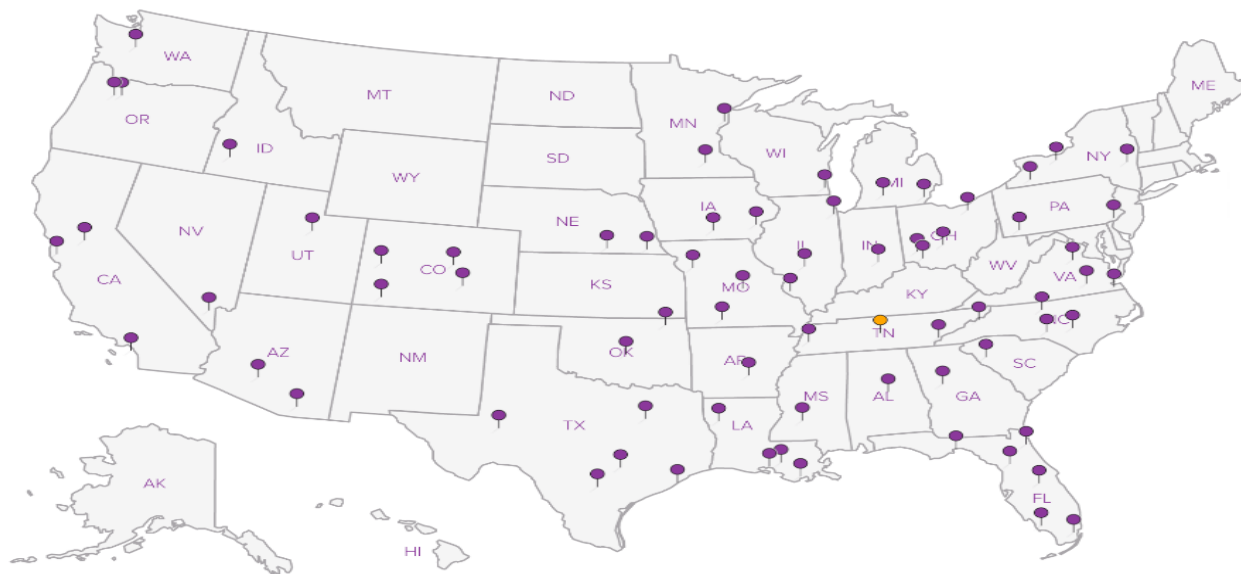
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences 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. **ESC Lab Sciences performs all testing at our central laboratory.**



[illegible]



L·A·B S·C·I·E·N·C·E·S

YOUR LAB OF CHOICE

Cooler Receipt Form

Client: <i>HRL Compliance Solutions</i>	SDG#	<i>L859824</i>
Cooler Received/Opened On: <i>9/15/16</i>	Temperature Upon Receipt:	<i>3.1</i> °C
Received By: <i>Kevin Wallace</i>		
Signature: <i>Kevin Wallace</i>		

Receipt Check List	Yes	No	N/A
Were custody seals on outside of cooler and intact?	<input checked="" type="checkbox"/>		
Were custody papers properly filled out?	<input checked="" type="checkbox"/>		
Did all bottles arrive in good condition?	<input checked="" type="checkbox"/>		
Were correct bottles used for the analyses requested?	<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent in each bottle?	<input checked="" type="checkbox"/>		
Were all applicable sample containers correctly preserved and checked for preservation? (Any not in accepted range noted on COC)			<input checked="" type="checkbox"/>
If applicable, was an observable VOA headspace present?			
Non Conformance Generated. (If yes see attached NCF)			