

PERFORMANCE EVALUATION



Scheduled Study

LPTP16-S3

20-Jul-2016 Through 02-Sep-2016

49670108

RTC Labcode

MT00945

EPA Labcode

Participating Laboratory:

Energy Laboratories-Helena
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Thank you for participating in study LPTP16-S3. Additional information about this study may be found online at www.sigmaaldrich.com/pt.

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Sincerely,

A handwritten signature in black ink, appearing to read "Jennifer Duhon".

Jennifer Duhon
Proficiency Testing Supervisor

Accreditors

Evaluations of this dataset will be sent to the accreditor(s) listed below using your laboratory's labcode listed above each accrediting agency. If any of the information listed below is incorrect, please contact RTC immediately.

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Medium Level Volatile Aromatics

Method: EPA 8260B (1996) [10184802]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Benzene ^{1,2} 4375 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	5620 ug/Kg	5630	4040 to 7210	-0.02	Acceptable <i>Evaluation Parameter - a:1.0144, b:-23.1327, c:0.0910, d:20.8707</i>
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
Chlorobenzene ^{1,2} 4475 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	3420 ug/Kg	3290	2330 to 4250	0.4	Acceptable <i>Evaluation Parameter - a:0.9950, b:123.9983, c:0.0752, d:81.8833</i>
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
1,2-Dichlorobenzene ^{1,2} 4610 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	7840 ug/Kg	7960	5810 to 10100	-0.17	Acceptable <i>Evaluation Parameter - a:1.0058, b:33.2037, c:0.0835, d:56.7766</i>
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
1,3-Dichlorobenzene ^{1,2} 4615 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	5230 ug/Kg	5410	3790 to 7020	-0.33	Acceptable <i>Evaluation Parameter - a:0.9994, b:68.8728, c:0.0807, d:108.8153</i>
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
1,4-Dichlorobenzene ^{1,2} 4620 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	7240 ug/Kg	7290	5410 to 9180	-0.08	Acceptable <i>Evaluation Parameter - a:0.9796, b:84.9657, c:0.0741, d:82.1266</i>
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
Ethylbenzene ^{1,2} 4765 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	9640 ug/Kg	8230	5570 to 10900	1.59	Acceptable <i>Evaluation Parameter - a:1.0062, b:72.8042, c:0.1069, d:20.5270</i>
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
Naphthalene ^{1,2} 5005 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	3760 ug/Kg	3840	2170 to 5510	-0.14	Acceptable <i>Evaluation Parameter - a:1.0092, b:-147.4204, c:0.0896, d:204.0207</i>
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					
Styrene ^{1,2} 5100 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	6720 ug/Kg	6930	4160 to 9700	-0.23	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.1333, d:0</i>
<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary					

Toluene^{1,2}

2500 ug/Kg

2220

1520 to
2920

1.21

Acceptable

5140 / SPE002H-25G - Lot LRAB1274
/Analyst:KW/ Analysis Date: 2016-09-01

Evaluation Criteria - 1
 Voluntary

*Evaluation Parameter - a:1.0099, b:-3.1595,
c:0.0985, d:15.5403*

Method:EPA 8260B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
1,2,4-Trichlorobenzene ^{1,2} 5155 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg	0	0 to 0	0	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.1333, d:0</i>	
Xylene, total ^{1,2} 5260 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	15300 ug/Kg	14300	10100 to 18500	0.71	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1.0208, b:26.6333, c:0.0852, d:208.6440</i>	

Group Analysis Summary

Acceptable : 11 / 11

Score : 100% - (Acceptable)

Medium Level Volatile Halocarbons

Method: EPA 8260B (1996) [10184802]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Bromodichloromethane ^{1,2} 4395 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	6620 ug/Kg	6890	4580 to 9200	-0.35	Acceptable <i>Evaluation Parameter - a:1.0554, b:-51.4544, c:0.1066, d:68.3365</i>
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary				
Bromoform ^{1,2} 4400 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg	0	0 to 0	0	Acceptable <i>Evaluation Parameter - a:1.0036, b:1.4468, c:0.0966, d:99.9464</i>
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary				
Carbon tetrachloride ^{1,2} 4455 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	4380 ug/Kg	5330	3370 to 7300	-1.45	Acceptable <i>Evaluation Parameter - a:0.9879, b:26.1250, c:0.1091, d:69.0570</i>
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary				
Chloroform ^{1,2} 4505 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	2060 ug/Kg	2170	1340 to 3000	-0.4	Acceptable <i>Evaluation Parameter - a:0.9904, b:78.8032, c:0.0932, d:79.8174</i>
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary				
1,2-Dibromo-3-chloropropane (DBCP) ^{1,2} 4570 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	7600 ug/Kg	8250	4950 to 11500	-0.59	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.1333, d:0</i>
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary				
Dibromochloromethane ^{1,2} 4575 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	3230 ug/Kg	3270	2160 to 4380	-0.11	Acceptable <i>Evaluation Parameter - a:0.9616, b:108.0123, c:0.0993, d:43.3661</i>
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary				
Dibromomethane ^{1,2} 4595 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	7840 ug/Kg	7920	4750 to 11100	-0.08	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.1333, d:0</i>
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary				
Dibromomethane ^{1,2} 4595 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	3390 ug/Kg	7920	4750 to 11100	-4.27	Not Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.1333, d:0</i>
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary				

1,1-Dichloroethane^{1,2}

<400
ug/Kg

0

0 to 0

0

Acceptable

4630 / SPE002H-25G - Lot LRAB1274
/Analyst:KW/ Analysis Date: 2016-09-01

Evaluation Criteria - 1
 Voluntary

*Evaluation Parameter - a:1.0141, b:46.0177,
c:0.1187, d:9.3983*

Method:EPA 8260B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
1,2-Dichloroethane ^{1,2} 4635 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	8480 ug/Kg	8870	6560 to 11200	-0.51	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9833, b:197.4423, c:0.0590, d:248.0448</i>
1,1-Dichloroethylene ^{1,2} 4640 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	11300 ug/Kg	8660	4330 to 13000	1.83	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.16667, d:0</i>
cis-1,2-Dichloroethylene ^{1,2} 4645 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	3090 ug/Kg	2920	1750 to 4090	0.44	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1333, d:0</i>
1,2-Dichloropropane ^{1,2} 4655 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	4110 ug/Kg	3320	2320 to 4320	2.38	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.10, d:0</i>
trans-1,2-Dichloroethylene ^{1,2} 4700 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1333, d:0</i>
Methylene chloride (Dichloromethane) ^{1,2} 4975 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	2530 ug/Kg	2800	1480 to 4130	-0.61	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9750, b:45.6827, c:0.1353, d:59.8427</i>
1,1,1,2-Tetrachloroethane ^{1,2} 5105 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	3390 ug/Kg	3240	2220 to 4270	0.44	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9905, b:84.3577, c:0.0715, d:113.3756</i>
1,1,2,2-Tetrachloroethane ^{1,2} 5110 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	5540 ug/Kg	6050	3770 to 8330	-0.67	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:0.9884, b:-45.8370, c:0.0927, d:188.2879</i>
Tetrachloroethylene (Perchloroethylene) ^{1,2}	7410 ug/Kg	6840	4430 to 9260	0.71	Acceptable

5115 / SPE002H-25G - Lot LRAB1274
/Analyst:KW/ Analysis Date: 2016-09-01

Evaluation Criteria - 1
 Voluntary

Evaluation Parameter - a:1.0083, b:36.6090,
c:0.1108, d:56.3068

Method:EPA 8260B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
1,1,1-Trichloroethane ^{1,2} 5160 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	5540 ug/Kg	5750	4140 to 7360	-0.39	Acceptable <i>Evaluation Parameter - a:1.0197, b:-56.4801, c:0.0837, d:60.6064</i>
1,1,2-Trichloroethane ^{1,2} 5165 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	7020 ug/Kg	6590	4580 to 8600	0.64	Acceptable <i>Evaluation Parameter - a:0.9983, b:47.7354, c:0.1018, d:2.8755</i>
Trichloroethene (Trichloroethylene) ^{1,2} 5170 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	6720 ug/Kg	6150	4220 to 8090	0.88	Acceptable <i>Evaluation Parameter - a:0.9890, b:161.3820, c:0.0939, d:76.8331</i>
1,2,3-Trichloropropane ^{1,2} 5180 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	6830 ug/Kg	4500	2150 to 6850	2.98	Acceptable <i>Evaluation Parameter - a:0.9225, b:230.3408, c:0.1215, d:220.1008</i>

Group Analysis Summary

Acceptable : 21 / 22

Score : 95.45% - (Acceptable)

Medium Level Volatile Ketone/Ethers

Method: EPA 8260B (1996) [10184802]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Acetone ^{1,2} 4315 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	33600 ug/Kg	18300	0 to 37700	2.36	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.9105, b:72.792, c:0.3202, d:70.9627</i>		
2-Butanone (Methyl ethyl ketone, MEK) ^{1,2} 4410 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	13400 ug/Kg	8600	2440 to 14700	2.34	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.8688, b:472.7627, c:0.1877, d:295.7230</i>		
2-Hexanone ^{1,2} 4860 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	17800 ug/Kg	14700	7350 to 22100	1.27	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.16667, d:0</i>		
4-Methyl-2-pentanone (MIBK) ^{1,2} 4995 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	11700 ug/Kg	9140	5300 to 13000	2	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.9537, b:-38.8138, c:0.1005, d:313.1912</i>		
Methyl tert-butyl ether (MTBE) ^{1,2} 5000 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	8320 ug/Kg	8660	6060 to 11300	-0.39	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.10, d:0</i>		

Minerals

Method:EPA 300.0 2.1 (1993) [10053200]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Bromide ^{1,2} 1540 / SPE013-30G - Lot LRAA8537 /Analyst:SW/ Analysis Date: 2016-08-11	61.3 mg/Kg	74.2	54.2 to 94.3	-1.93	Acceptable
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - c:0.0848, d:0.3989</i>		
Chloride ^{1,2} 1575 / SPE013-30G - Lot LRAA8537 /Analyst:SW/ Analysis Date: 2016-08-11	211 mg/Kg	245	163 to 327	-1.25	Acceptable
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - c:0.0892, d:5.3941</i>		
Fluoride ^{1,2} 1730 / SPE013-30G - Lot LRAA8537 /Analyst:SW/ Analysis Date: 2016-08-11	60.9 mg/Kg	60.5	22.1 to 98.9	0.03	Acceptable
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - c:0.1781, d:2.0366</i>		
Nitrate as N ^{1,2} 1810 / SPE013-30G - Lot LRAA8537 /Analyst:SW/ Analysis Date: 2016-08-11	47.4 mg/Kg	54.6	36.2 to 73.1	-1.17	Acceptable
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - c:0.0676, d:2.4605</i>		
Sulfate ^{1,2} 2000 / SPE013-30G - Lot LRAA8537 /Analyst:SW/ Analysis Date: 2016-08-11	1530 mg/Kg	1540	899 to 2180	-0.05	Acceptable
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - c:0.1354, d:5.1265</i>		

Method:EPA 353.2 2 (1993) [10067604]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Nitrate as N ^{1,2} 1810 / SPE013-30G - Lot LRAA8537 /Analyst:CM/ Analysis Date: 2016-08-15	52.8 mg/Kg	54.6	36.2 to 73.1	-0.29	Acceptable
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - c:0.0676, d:2.4605</i>		

Miscellaneous Analytes

Method:ASA 15-5 [990000317]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Soil Type ² 2999 / SPE014-100G - Lot LRAB1201 /Analyst:SH/ Analysis Date: 2016-08-17	3	3	3 to 3	0	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0, d:0</i>	

Method:ASTM D2974-07A (2007) [30026450]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Loss on Ignition (550°C) ^{1,2} 41970 / SPE014-100G - Lot LRAB1201 /Analyst:SP/ Analysis Date: 2016-08-25	5.3 Wt%	6.2	3.41 to 8.99	-0.97	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>	

Method:EPA 300.0 2.1 (1993) [10053200]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Nitrate+nitrite as N ^{1,2} 1820 / SPE013-30G - Lot LRAA8537 /Analyst:SW/ Analysis Date: 2016-08-11	47.4 mg/Kg	53.7	29.5 to 77.9	-0.78	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>	
Nitrite as N ^{1,2} 1840 / SPE013-30G - Lot LRAA8537 /Analyst:SW/ Analysis Date: 2016-08-11	<0.05 mg/Kg	0	0 to 0	0	Acceptable
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - deviations:3</i>	

Method:EPA 6010B (1996) [10155609]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Silica as SiO ₂ ^{1,2} 1990 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	586 mg/Kg	1660	0 to 5900	-0.76	Acceptable
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - deviations:3</i>	

Sulfur ^{1,2}	88.1 mg/Kg	111	0 to 337	-0.3	Acceptable
2017 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-10	<i>Evaluation Criteria - 5</i>		<i>Evaluation Parameter - deviations:3</i>		
	<input type="checkbox"/> Voluntary				

Method:EPA 9045D 4 (2004) [10198455]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
pH ^{1,2}	6.2 Units	6.06	5.62 to 6.49	0.96	Acceptable
1900 / SPE001-30G - Lot LRAA8596 /Analyst:SJ/ Analysis Date: 2016-08-18	<i>Evaluation Criteria - 5</i>		<i>Evaluation Parameter - deviations:3</i>		
	<input type="checkbox"/> Voluntary				

Nutrients

Method:ASA 31-1 [990000318]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Kjeldahl nitrogen, total (TKN) ^{1,2} 1795 / SPE014-100G - Lot LRAB1201 /Analyst:CM/ Analysis Date: 2016-08-03	3140 mg/Kg	2440	1380 to 3490	1.98	Acceptable
		<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - c:0.1361, d:21.2081</i>	

Method:EPA 350.1 2 (1993) [10063602]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Ammonia as N ^{1,2} 1515 / SPE014-100G - Lot LRAB1201 /Analyst:CM/ Analysis Date: 2016-08-10	1170 mg/Kg	1460	933 to 1980	-1.66	Acceptable
		<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - c:0.0931, d:39.0256</i>	

Method:EPA 6010B (1996) [10155609]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Phosphorus as P, total ^{1,2} 1910 / SPE014-100G - Lot LRAB1201 /Analyst:SD/ Analysis Date: 2016-08-02	1100 mg/Kg	1250	332 to 2170	-0.49	Acceptable
		<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - c:0.2208, d:29.9538</i>	

PAH

Method:MADEP EPH 1.1 (2004) [90017202]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
EPH Aromatic C11-C22 ² 6232 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	406 mg/kg	385	96.7 to 673	0.22	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1798, d:26.8656</i>
C9-C18 Aliphatic Hydrocarbons ² 6222 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	581 mg/kg	420	0 to 1080	0.73	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1827, d:143</i>
Naphthalene ^{1,2} 5005 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	5.66 mg/kg	5.18	2.07 to 8.29	0.46	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.2, d:0</i>
Acenaphthene ^{1,2} 5500 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	10.3 mg/kg	6.79	2.72 to 10.9	2.58	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.2, d:0</i>
Acenaphthylene ^{1,2} 5505 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	2.83 mg/kg	2.05	0.73 to 3.37	1.77	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.2146, d:0</i>
Anthracene ^{1,2} 5555 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	0.796 mg/kg	0.68	0.37 to 0.99	1.15	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
Benzo(a)anthracene ^{1,2} 5575 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	7.8 mg/kg	6.07	3.34 to 8.8	1.9	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
Benzo(a)pyrene ^{1,2} 5580 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	4.11 mg/kg	3.44	1.06 to 5.82	0.85	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.2302, d:0</i>
Benzo(g,h,i)perylene ^{1,2}	6.94 mg/kg	5.75	0.38 to 11.1	0.66	Acceptable

5590 / SPE007MA-40G - Lot LRAB1916
/Analyst:JS/ Analysis Date: 2016-09-02

Evaluation Criteria - 1
 Voluntary

*Evaluation Parameter - a:1, b:0, c:0.2267,
d:0.48759*

Method:MADEP EPH 1.1 (2004) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Chrysene ^{1,2} 5855 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	4.92 mg/kg	4.21	1.56 to 6.86	0.8	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.2101, d:0</i>
Fluoranthene ^{1,2} 6265 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	7.26 mg/kg	5.81	2.48 to 9.14	1.31	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1909, d:0</i>
Fluorene ^{1,2} 6270 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	7.44 mg/kg	7.34	3.45 to 11.2	0.08	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.1766, d:0</i>
2-Methylnaphthalene ^{1,2} 6385 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	16.6 mg/kg	11.1	4.42 to 17.7	2.49	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.2, d:0</i>
Phenanthrene ^{1,2} 6615 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	8.39 mg/kg	6.78	3.73 to 9.83	1.58	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
Pyrene ^{1,2} 6665 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	6.09 mg/kg	6.78	2.66 to 10.9	-0.5	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.2025, d:0</i>

Group Analysis Summary

Acceptable : 15 / 15

Score : 100% - (Acceptable)

Petroleum Hydrocarbons

Method:EPA 602 [10102202]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Benzene ^{1,2} 4375 / PE1798-2ML - Lot LRA2013 /Analyst:TB/ Analysis Date: 2016-08-08	9.65 ug/L	7.92	1.52 to 14.3	0.81	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
Ethylbenzene ^{1,2} 4765 / PE1798-2ML - Lot LRA2013 /Analyst:TB/ Analysis Date: 2016-08-08	6.39 ug/L	5.56	2.95 to 8.17	0.95	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
Methyl tert-butyl ether (MTBE) ^{1,2} 5000 / PE1798-2ML - Lot LRA2013 /Analyst:TB/ Analysis Date: 2016-08-08	<2.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
Naphthalene ^{1,2} 5005 / PE1798-2ML - Lot LRA2013 /Analyst:TB/ Analysis Date: 2016-08-08	1.47 ug/L	1.49	1 to 1.98	-0.12	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
Toluene ^{1,2} 5140 / PE1798-2ML - Lot LRA2013 /Analyst:TB/ Analysis Date: 2016-08-08	30 ug/L	23.6	13 to 34.2	1.81	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
m+p-Xylene ^{1,2} 5240 / PE1798-2ML - Lot LRA2013 /Analyst:TB/ Analysis Date: 2016-08-08	24.8 ug/L	23.6	13 to 34.2	0.34	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
o-Xylene ^{1,2} 5250 / PE1798-2ML - Lot LRA2013 /Analyst:TB/ Analysis Date: 2016-08-08	9.3 ug/L	10.2	5.61 to 14.8	-0.59	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
Xylene, total ^{1,2} 5260 / PE1798-2ML - Lot LRA2013 /Analyst:TB/ Analysis Date: 2016-08-08	34.1 ug/L	33.8	18.6 to 49	0.06	Acceptable <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>

Method:EPA 8015B (1996) [10173601]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
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Gasoline Range Organics, C6-C10 ^{1,2} 9408 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	387 ug/L	401	119 to 683	-0.15	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.2285, d:2.4231</i>		
Total Purgeable Hydrocarbons ^{1,2} 5207 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	492 ug/L	448	165 to 730	0.47	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1.06282, b:21.3958, c:0.2285, d:2.4231</i>		

Method:EPA 8021B (1996) [10174808]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Benzene ^{1,2} 4375 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	9.65 ug/L	7.92	1.52 to 14.3	0.81	Acceptable
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - deviations:3</i>		
Ethylbenzene ^{1,2} 4765 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	6.39 ug/L	5.56	2.95 to 8.17	0.95	Acceptable
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - deviations:3</i>		
Methyl tert-butyl ether (MTBE) ^{1,2} 5000 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	<2.0 ug/L	0	0 to 0	0	Acceptable
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - deviations:3</i>		
Naphthalene ^{1,2} 5005 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	1.47 ug/L	1.49	1 to 1.98	-0.12	Acceptable
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - deviations:3</i>		
Toluene ^{1,2} 5140 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	30 ug/L	23.6	13 to 34.2	1.81	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>		
m+p-Xylene ^{1,2} 5240 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	24.8 ug/L	23.6	13 to 34.2	0.34	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>		
o-Xylene ^{1,2} 5250 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	9.3 ug/L	10.2	5.61 to 14.8	-0.59	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>		

Xylene, total ^{1,2} 34.1 ug/L 33.8 18.6 to 49 0.06 Acceptable
 5260 / PE1798-2ML - Lot LRAB2013
 /Analyst:TB/ Analysis Date: 2016-08-08
Evaluation Criteria - 1
 Voluntary
Evaluation Parameter - a:1, b:0, c:0.15, d:0

Method:MADEP VPH 1.1 (2004) [90017406]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Benzene ^{1,2} 4375 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	9.65 ug/L	7.92	1.52 to 14.3	0.81	Acceptable <i>Evaluation Parameter - deviations:3</i>
VPH Aliphatic C5-C8 Unadjusted ^{1,2} 5305 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	236 ug/L	265	106 to 424	-0.55	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.2, d:0</i>
VPH Aliphatic C5-C8 ^{1,2} 5304 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	196 ug/L	185	61.5 to 308	0.27	Acceptable <i>Evaluation Parameter - a:0.9, b:0, c:0.2, d:0</i>
Ethylbenzene ^{1,2} 4765 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	6.39 ug/L	5.56	2.95 to 8.17	0.95	Acceptable <i>Evaluation Parameter - deviations:3</i>
Methyl tert-butyl ether (MTBE) ^{1,2} 5000 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	<2.0 ug/L	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
Naphthalene ^{1,2} 5005 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	1.47 ug/L	1.49	1 to 1.98	-0.12	Acceptable <i>Evaluation Parameter - deviations:3</i>
Toluene ^{1,2} 5140 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	30 ug/L	23.6	13 to 34.2	1.81	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>
VPH Aliphatic C9-C12 Unadjusted ^{1,2} 5307 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	164 ug/L	117	39 to 195	1.81	Acceptable <i>Evaluation Parameter - a:0.9, b:0, c:0.20, d:0</i>
VPH Aliphatic C9-C12 ^{1,2} 5306 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	78.3 ug/L	59.4	19.8 to 99	1.43	Acceptable <i>Evaluation Parameter - a:0.9, b:0, c:.2, d:0</i>

Method:MADEP VPH 1.1 (2004) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
m+p-Xylene ^{1,2} 5240 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	24.8 ug/L	23.6	13 to 34.2	0.34	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>	
o-Xylene ^{1,2} 5250 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	9.3 ug/L	10.2	5.61 to 14.8	-0.59	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>	
Xylene, total ^{1,2} 5260 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	34.1 ug/L	33.8	18.6 to 49	0.06	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.15, d:0</i>	
VPH Aromatic C9-C10 ^{1,2} 5311 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	45.3 ug/L	40	16 to 64	0.66	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1, b:0, c:0.2, d:0</i>	
Total Purgeable Hydrocarbons ^{1,2} 5207 / PE1798-2ML - Lot LRAB2013 /Analyst:TB/ Analysis Date: 2016-08-08	388 ug/L	448	165 to 730	-0.64	Acceptable
	<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			<i>Evaluation Parameter - a:1.06282, b:21.3958, c:0.2285, d:2.4231</i>	

Petroleum Hydrocarbons - Soil

Method:EPA 8015C 3 (2007) [10173816]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Gasoline Range Organics, C6-C10 ^{1,2} 9408 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	984 mg/Kg	655	56.9 to 1250	1.65	Acceptable
<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.1900, d:74.9808</i>					
Total Purgeable Hydrocarbons ^{1,2} 5207 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	1080 mg/Kg	717	83.2 to 1350	1.72	Acceptable
<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.1900, d:74.9808</i>					

Method:EPA 8021B (1996) [10174808]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Benzene ^{1,2} 4375 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	12.9 mg/Kg	11.6	3.03 to 20.2	0.45	Acceptable
<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>					
Ethylbenzene ^{1,2} 4765 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	20.3 mg/Kg	18.7	7.41 to 30	0.42	Acceptable
<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>					
Methyl tert-butyl ether (MTBE) ^{1,2} 5000 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	<1.2 mg/Kg	0	0 to 0	0	Acceptable
<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>					
Naphthalene ^{1,2} 5005 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	1.48 mg/Kg	1.54	0.08 to 3	-0.12	Acceptable
<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>					
Toluene ^{1,2} 5140 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	120 mg/Kg	115	48.1 to 182	0.22	Acceptable
<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>					
m+p-Xylene ^{1,2}	78.2 mg/Kg	74.9	32.4 to 117	0.23	Acceptable

5240 / SPE008-30G - Lot LRAA9306
 /Analyst:TB/ Analysis Date: 2016-08-08

Evaluation Criteria - 5
 Voluntary

Evaluation Parameter - deviations:3

o-Xylene^{1,2}

30.7 mg/Kg 29.7 13.4 to 46

0.18 Acceptable

5250 / SPE008-30G - Lot LRAA9306
 /Analyst:TB/ Analysis Date: 2016-08-08

Evaluation Criteria - 5
 Voluntary

Evaluation Parameter - deviations:3

Xylene, total^{1,2}

109 mg/Kg 108 37.5 to 179

0.04 Acceptable

5260 / SPE008-30G - Lot LRAA9306
 /Analyst:TB/ Analysis Date: 2016-08-08

Evaluation Criteria - 5
 Voluntary

Evaluation Parameter - deviations:3

Method:MADEP EPH 1.1 (2004) [90017202]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
EPH Aliphatic C19-C36 ² 6218 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	112 mg/kg	85	0 to 211	0.64	Acceptable Evaluation Parameter - a:1, b:0, c:0.1798, d:26.8656
Total EPH ² 6241 / SPE007MA-40G - Lot LRAB1916 /Analyst:JS/ Analysis Date: 2016-09-02	1120 mg/kg	1070	283 to 1860	0.19	Acceptable Evaluation Parameter - a:0.7700, b:-8.2807, c:0.1644, d:32.2339

Method:MADEP VPH 1.1 (2004) [90017406]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Benzene ^{1,2} 4375 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	12.9 mg/Kg	11.6	3.03 to 20.2	0.45	Acceptable Evaluation Parameter - deviations:3
VPH Aliphatic C5-C8 Unadjusted ^{1,2} 5305 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	421 mg/Kg	492	70.3 to 914	-0.5	Acceptable Evaluation Parameter - a:0.7, b:0, c:0.2, d:0
VPH Aliphatic C5-C8 ^{1,2} 5304 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	287 mg/Kg	476	0 to 972	-1.15	Acceptable Evaluation Parameter - a:1, b:0, c:0.190, d:74.9808

Ethylbenzene ^{1,2} 4765 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	20.3 mg/Kg <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary	18.7	7.41 to 30	0.42	Acceptable <i>Evaluation Parameter - deviations:3</i>
Methyl tert-butyl ether (MTBE) ^{1,2} 5000 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	<1.2 mg/Kg <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
Naphthalene ^{1,2} 5005 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	1.48 mg/Kg <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary	1.54	0.08 to 3	-0.12	Acceptable <i>Evaluation Parameter - deviations:3</i>
Toluene ^{1,2} 5140 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	120 mg/Kg <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary	115	48.1 to 182	0.22	Acceptable <i>Evaluation Parameter - deviations:3</i>
VPH Aliphatic C9-C12 Unadjusted ^{1,2} 5307 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	468 mg/Kg <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	277	75.6 to 479	2.84	Acceptable <i>Evaluation Parameter - a:0.825, b:0, c:0.20, d:0</i>
VPH Aliphatic C9-C12 ^{1,2} 5306 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	221 mg/Kg <i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary	140	56 to 224	2.89	Acceptable <i>Evaluation Parameter - a:1, b:0, c:0.2, d:0</i>

Method:MADEP VPH 1.1 (2004) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
m+p-Xylene ^{1,2} 5240 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	78.2 mg/Kg	74.9	32.4 to 117	0.23	Acceptable
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary				<i>Evaluation Parameter - deviations:3</i>
o-Xylene ^{1,2} 5250 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	30.7 mg/Kg	29.7	13.4 to 46	0.18	Acceptable
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary				<i>Evaluation Parameter - deviations:3</i>
Xylene, total ^{1,2} 5260 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	109 mg/Kg	108	37.5 to 179	0.04	Acceptable
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary				<i>Evaluation Parameter - deviations:3</i>
VPH Aromatic C9-C10 ^{1,2} 5311 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	118 mg/Kg	108	0 to 319	0.14	Acceptable
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary				<i>Evaluation Parameter - deviations:3</i>
Total Purgeable Hydrocarbons ^{1,2} 5207 / SPE008-30G - Lot LRAA9306 /Analyst:TB/ Analysis Date: 2016-08-08	765 mg/Kg	717	83.2 to 1350	0.23	Acceptable
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				<i>Evaluation Parameter - c:0.1900, d:74.9808</i>

Petroleum Hydrocarbons - Water

Method:MADEP EPH 1.1 (2004) [90017202]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
EPH Aromatic C11-C22 ² 6232 / PE1849-2ML - Lot LRAB1915 /Analyst:JS/ Analysis Date: 2016-09-02	1540 ug/L	1270	422 to 2110	0.96	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.9, b:0, c:0.20, d:0</i>	
EPH Aliphatic C19-C36 ² 6218 / PE1849-2ML - Lot LRAB1915 /Analyst:JS/ Analysis Date: 2016-09-02	319 ug/L	680	272 to 1090	-2.65	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.2, d:0</i>	
C9-C18 Aliphatic Hydrocarbons ² 6222 / PE1849-2ML - Lot LRAB1915 /Analyst:JS/ Analysis Date: 2016-09-02	1620 ug/L	1760	702 to 2810	-0.4	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:1, b:0, c:0.2, d:0</i>	
Total EPH ² 6241 / PE1849-2ML - Lot LRAB1915 /Analyst:JS/ Analysis Date: 2016-09-02	3590 ug/L	3350	1100 to 5590	0.32	Acceptable
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - a:0.7700, b:-8.2807, c:0.1644, d:32.2339</i>	

Trace Metals - Solids

Method: EPA 6010B (1996) [10155609]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Antimony, Sb ^{1,2} 1005 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	31.9 mg/Kg	81	0 to 212	-1.12	Acceptable <i>Evaluation Parameter - c:0.4385, d:8.1700</i>
		<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary			
Arsenic, As ^{1,2} 1010 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	57.7 mg/Kg	58.5	39.3 to 77.8	-0.12	Acceptable <i>Evaluation Parameter - c:0.0915, d:1.0653</i>
		<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary			
Barium, Ba ^{1,2} 1015 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	233 mg/Kg	233	172 to 295	0	Acceptable <i>Evaluation Parameter - c:0.0823, d:1.3346</i>
		<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary			
Beryllium, Be ^{1,2} 1020 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	60.5 mg/Kg	59.1	43.3 to 74.9	0.27	Acceptable <i>Evaluation Parameter - c:0.0782, d:0.6438</i>
		<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary			
Boron, B ^{1,2} 1025 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	75.7 mg/Kg	79.1	47.5 to 111	-0.32	Acceptable <i>Evaluation Parameter - c:0.1333, d:0</i>
		<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary			
Cadmium, Cd ^{1,2} 1030 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	92.1 mg/Kg	98.3	72 to 125	-0.71	Acceptable <i>Evaluation Parameter - c:0.0884, d:0.0629</i>
		<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary			
Calcium, Ca ^{1,2} 1035 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	3670 mg/Kg	3740	2660 to 4820	-0.19	Acceptable <i>Evaluation Parameter - c:0.0730, d:87.3802</i>
		<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary			
Chromium, Cr (total) ^{1,2} 1040 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	236 mg/Kg	240	170 to 310	-0.17	Acceptable <i>Evaluation Parameter - c:0.0937, d:0.8163</i>
		<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary			
Cobalt, Co ^{1,2} 1050 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	151 mg/Kg	152	113 to 191	-0.08	Acceptable <i>Evaluation Parameter - c:0.0851, d:0.0292</i>
		<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary			

Method:EPA 6010B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Copper, Cu ^{1,2} 1055 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	88.1 mg/Kg	89.4	66.2 to 113	-0.17	Acceptable <i>Evaluation Parameter - c:0.0770, d:0.8423</i>
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				
Iron, Fe ^{1,2} 1070 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	7160 mg/Kg	6980	167 to 13800	0.08	Acceptable <i>Evaluation Parameter - c:0.1102, d:1500.6038</i>
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				
Lead, Pb ^{1,2} 1075 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	266 mg/Kg	275	208 to 342	-0.4	Acceptable <i>Evaluation Parameter - c:0.0725, d:2.4410</i>
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				
Lithium, Li ² 1080 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	185 mg/Kg	158	100 to 215	1.41	Acceptable <i>Evaluation Parameter - deviations:3</i>
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary				
Magnesium, Mg ^{1,2} 1085 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	1500 mg/Kg	1520	803 to 2230	-0.08	Acceptable <i>Evaluation Parameter - c:0.0685, d:134.2111</i>
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				
Manganese, Mn ^{1,2} 1090 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	883 mg/Kg	833	654 to 1010	0.84	Acceptable <i>Evaluation Parameter - c:0.0639, d:6.3268</i>
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				
Molybdenum, Mo ^{1,2} 1100 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	48.4 mg/Kg	55.5	37.3 to 73.8	-1.17	Acceptable <i>Evaluation Parameter - c:0.0893, d:1.1242</i>
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				
Nickel, Ni ^{1,2} 1105 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	285 mg/Kg	297	221 to 373	-0.47	Acceptable <i>Evaluation Parameter - c:0.0819, d:1.0454</i>
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				
Potassium, K ^{1,2} 1125 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	4660 mg/Kg	4070	2650 to 5490	1.24	Acceptable <i>Evaluation Parameter - c:0.0938, d:92.7318</i>
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				

Method:EPA 6010B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Selenium, Se ^{1,2} 1140 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	97.9 mg/Kg	100	65.1 to 135	-0.18	Acceptable
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				<i>Evaluation Parameter - c:0.0935, d:2.2902</i>
Silver, Ag ^{1,2} 1150 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	39.2 mg/Kg	39.3	25.9 to 52.7	-0.02	Acceptable
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				<i>Evaluation Parameter - c:0.1047, d:0.3423</i>
Sodium, Na ^{1,2} 1155 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	353 mg/Kg	332	138 to 526	0.32	Acceptable
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				<i>Evaluation Parameter - c:0.1028, d:30.5312</i>
Strontium, Sr ^{1,2} 1160 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	235 mg/Kg	178	126 to 230	3.28	Not Acceptable
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				<i>Evaluation Parameter - c:0.0961, d:0.2863</i>
Thallium, Tl ^{1,2} 1165 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-08	133 mg/Kg	128	87.1 to 170	0.36	Acceptable
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				<i>Evaluation Parameter - c:0.0961, d:1.4134</i>
Tin, Sn ^{1,2} 1175 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	77.2 mg/Kg	90.3	50.4 to 130	-0.98	Acceptable
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				<i>Evaluation Parameter - c:0.1134, d:3.0560</i>
Titanium, Ti ^{1,2} 1180 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	39.3 mg/Kg	46	0 to 97.4	-0.39	Acceptable
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary				<i>Evaluation Parameter - deviations:3</i>
Vanadium, V ^{1,2} 1185 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	204 mg/Kg	200	147 to 253	0.23	Acceptable
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				<i>Evaluation Parameter - c:0.0624, d:5.2391</i>
Zinc, Zn ^{1,2} 1190 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	564 mg/Kg	586	430 to 741	-0.42	Acceptable
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				<i>Evaluation Parameter - c:0.0823, d:3.6814</i>

Method:EPA 6010B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Aluminum, Al ^{1,2} 1000 / SPE001-30G - Lot LRAA8596A /Analyst:SD/ Analysis Date: 2016-08-02	13600 mg/Kg	16100	8600 to 23600	-1	Acceptable <i>Evaluation Parameter - c:0.1082, d:753.6118</i>
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				
Silicon, Si ^{1,2} 1145 / SPE001-30G - Lot LRAA8596 /Analyst:SD/ Analysis Date: 2016-08-02	586 mg/Kg	546	0 to 1830	0.09	Acceptable <i>Evaluation Parameter - deviations:3</i>
	<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary				

Method:EPA 6020 (1994) [10156204]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Antimony, Sb ^{1,2} 1005 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	31 mg/Kg	81	0 to 212	-1.14	Acceptable <i>Evaluation Parameter - c:0.4385, d:8.1700</i>
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				
Arsenic, As ^{1,2} 1010 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	63.7 mg/Kg	58.5	39.3 to 77.8	0.81	Acceptable <i>Evaluation Parameter - c:0.0915, d:1.0653</i>
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				
Barium, Ba ^{1,2} 1015 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	244 mg/Kg	233	172 to 295	0.54	Acceptable <i>Evaluation Parameter - c:0.0823, d:1.3346</i>
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				
Beryllium, Be ^{1,2} 1020 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-03	58 mg/Kg	59.1	43.3 to 74.9	-0.21	Acceptable <i>Evaluation Parameter - c:0.0782, d:0.6438</i>
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				
Boron, B ^{1,2} 1025 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	79.3 mg/Kg	79.1	47.5 to 111	0.02	Acceptable <i>Evaluation Parameter - c:0.1333, d:0</i>
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				
Cadmium, Cd ^{1,2} 1030 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	101 mg/Kg	98.3	72 to 125	0.31	Acceptable <i>Evaluation Parameter - c:0.0884, d:0.0629</i>
	<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary				

Calcium, Ca ^{1,2} 1035 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	4760 mg/Kg	3740	2660 to 4820	2.83	Acceptable
	<i>Evaluation Criteria - 2</i>		<i>Evaluation Parameter - c:0.0730, d:87.3802</i>		
	<input type="checkbox"/> Voluntary				
Chromium, Cr (total) ^{1,2} 1040 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	254 mg/Kg	240	170 to 310	0.6	Acceptable
	<i>Evaluation Criteria - 2</i>		<i>Evaluation Parameter - c:0.0937, d:0.8163</i>		
	<input type="checkbox"/> Voluntary				
Cobalt, Co ^{1,2} 1050 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	161 mg/Kg	152	113 to 191	0.69	Acceptable
	<i>Evaluation Criteria - 2</i>		<i>Evaluation Parameter - c:0.0851, d:0.0292</i>		
	<input type="checkbox"/> Voluntary				

Method:EPA 6020 (1994) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Copper, Cu ^{1,2} 1055 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	90 mg/Kg	89.4	66.2 to 113	0.08	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.0770, d:0.8423</i>
Iron, Fe ^{1,2} 1070 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-03	7250 mg/Kg	6980	167 to 13800	0.12	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.1102, d:1500.6038</i>
Lead, Pb ^{1,2} 1075 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	294 mg/Kg	275	208 to 342	0.85	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.0725, d:2.4410</i>
Magnesium, Mg ^{1,2} 1085 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	1470 mg/Kg	1520	803 to 2230	-0.21	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.0685, d:134.2111</i>
Manganese, Mn ^{1,2} 1090 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-03	914 mg/Kg	833	654 to 1010	1.36	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.0639, d:6.3268</i>
Molybdenum, Mo ^{1,2} 1100 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	50.9 mg/Kg	55.5	37.3 to 73.8	-0.76	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.0893, d:1.1242</i>
Nickel, Ni ^{1,2} 1105 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	309 mg/Kg	297	221 to 373	0.47	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.0819, d:1.0454</i>
Potassium, K ^{1,2} 1125 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	4330 mg/Kg	4070	2650 to 5490	0.55	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.0938, d:92.7318</i>
Selenium, Se ^{1,2} 1140 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	110 mg/Kg	100	65.1 to 135	0.86	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.0935, d:2.2902</i>

Method:EPA 6020 (1994) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Silver, Ag ^{1,2} 1150 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	41.8 mg/Kg	39.3	25.9 to 52.7	0.56	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.1047, d:0.3423</i>
Sodium, Na ^{1,2} 1155 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	263 mg/Kg	332	138 to 526	-1.07	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.1028, d:30.5312</i>
Strontium, Sr ^{1,2} 1160 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	256 mg/Kg	178	126 to 230	4.48	Not Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.0961, d:0.2863</i>
Thallium, Tl ^{1,2} 1165 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	135 mg/Kg	128	87.1 to 170	0.51	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.0961, d:1.4134</i>
Tin, Sn ^{1,2} 1175 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	91.9 mg/Kg	90.3	50.4 to 130	0.12	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.1134, d:3.0560</i>
Titanium, Ti ^{1,2} 1180 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-03	37.9 mg/Kg	46	0 to 97.4	-0.47	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
Vanadium, V ^{1,2} 1185 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-03	196 mg/Kg	200	147 to 253	-0.23	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.0624, d:5.2391</i>
Zinc, Zn ^{1,2} 1190 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-03	614 mg/Kg	586	430 to 741	0.54	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.0823, d:3.6814</i>
Aluminum, Al ^{1,2} 1000 / SPE001-30G - Lot LRAA8596A /Analyst:DK/ Analysis Date: 2016-08-08	14700 mg/Kg	16100	8600 to 23600	-0.56	Acceptable <i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - c:0.1082, d:753.6118</i>

Method:EPA 6020 (1994) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Silicon, Si ^{1,2} 1145 / SPE001-30G - Lot LRAA8596 /Analyst:DK/ Analysis Date: 2016-08-02	614 mg/Kg	546	0 to 1830	0.16	Acceptable
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - deviations:3</i>	

Method:EPA 7196A (1992) [10162400]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Chromium VI, Cr(VI) ^{1,2} 1045 / SPE012-30G - Lot LRAB1649 /Analyst:CM/ Analysis Date: 2016-08-23	11.4 mg/Kg	86.5	20.7 to 152	-3.43	Not Acceptable
		<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - c:0.1547, d:8.5460</i>	

Method:EPA 7471B (1998) [10166402]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Mercury, Hg ^{1,2} 1095 / SPE001-30G - Lot LRAA8596 /Analyst:RK/ Analysis Date: 2016-08-02	18.9 mg/Kg	16.1	8.26 to 23.9	1.08	Acceptable
		<i>Evaluation Criteria - 2</i> <input type="checkbox"/> Voluntary		<i>Evaluation Parameter - c:0.1615, d:0.0077</i>	

Volatiles - Medium Level - Solids

Method: EPA 8260B (1996) [10184802]

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Acetonitrile ^{1,2} 4320 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<4000 ug/Kg <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
Acrolein (Propenal) ^{1,2} 4325 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<8000 ug/Kg <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary	7970	0 to 27700	-1.21	Acceptable <i>Evaluation Parameter - deviations:3</i>
Bromobenzene ^{1,2} 4385 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	7440 ug/Kg <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary	7620	5480 to 9760	-0.25	Acceptable <i>Evaluation Parameter - deviations:3</i>
Bromochloromethane ^{1,2} 4390 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
n-Butylbenzene ^{1,2} 4435 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
sec-Butylbenzene ^{1,2} 4440 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
tert-Butylbenzene ^{1,2} 4445 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
Carbon disulfide ^{1,2} 4450 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
Chloroethane ^{1,2} 4485 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	3620 ug/Kg <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary	2330	0 to 6670	0.89	Acceptable <i>Evaluation Parameter - deviations:3</i>

Method:EPA 8260B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
2-Chlorotoluene ^{1,2} 4535 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary					
4-Chlorotoluene ^{1,2} 4540 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary					
Dichlorodifluoromethane ^{1,2} 4625 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	2620 ug/Kg	2660	0 to 5840	-0.04	Acceptable <i>Evaluation Parameter - deviations:3</i>
<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary					
1,3-Dichloropropane ^{1,2} 4660 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary					
2,2-Dichloropropane ^{1,2} 4665 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary					
1,1-Dichloropropene ^{1,2} 4670 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary					
cis-1,3-Dichloropropene ^{1,2} 4680 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	4450 ug/Kg	3530	2370 to 4690	2.38	Acceptable <i>Evaluation Parameter - deviations:3</i>
<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary					
trans-1,3-Dichloropropene ^{1,2} 4685 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	3420 ug/Kg	3170	2140 to 4210	0.72	Acceptable <i>Evaluation Parameter - deviations:3</i>
<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary					
Hexachlorobutadiene ^{1,2} 4835 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg	0	0 to 0	0	Acceptable <i>Evaluation Parameter - deviations:3</i>
<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary					

Method:EPA 8260B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Isopropylbenzene ^{1,2} 4900 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	7710 ug/Kg	8110	5590 to 10600	-0.48	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
Methyl bromide (Bromomethane) ^{1,2} 4950 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
Methyl chloride (Chloromethane) ^{1,2} 4960 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	3410 ug/Kg	3640	578 to 6700	-0.23	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
n-Propylbenzene (1-Phenylpropane) ^{1,2} 5090 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
1,2,3-Trichlorobenzene ^{1,2} 5150 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
Trichlorofluoromethane ^{1,2} 5175 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	3790 ug/Kg	3580	1960 to 5200	0.39	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
1,2,4-Trimethylbenzene ^{1,2} 5210 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	10100 ug/Kg	10100	8840 to 11300	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
1,3,5-Trimethylbenzene ^{1,2} 5215 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	13000 ug/Kg	13000	9630 to 16300	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>
Vinyl acetate ^{1,2} 5225 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	<400 ug/Kg	0	0 to 0	0	Acceptable <i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary <i>Evaluation Parameter - deviations:3</i>

Method:EPA 8260B (1996) (Continued)

Analyte	Result Units	Assigned Value	Accept. Window	Z	Evaluation
Vinyl chloride ^{1,2} 5235 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	6510 ug/Kg	5800	1930 to 9670	0.55	Acceptable <i>Evaluation Parameter - deviations:3</i>
		<i>Evaluation Criteria - 5</i> <input type="checkbox"/> Voluntary			
m+p-Xylene ^{1,2} 5240 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	11100 ug/Kg	10500	7280 to 13800	0.55	Acceptable <i>Evaluation Parameter - a:1.0208, b:26.6333, c:0.0852, d:208.6440</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			
o-Xylene ^{1,2} 5250 / SPE002H-25G - Lot LRAB1274 /Analyst:KW/ Analysis Date: 2016-09-01	4200 ug/Kg	3770	2210 to 5340	0.83	Acceptable <i>Evaluation Parameter - a:1.0208, b:26.6333, c:0.0852, d:208.6440</i>
		<i>Evaluation Criteria - 1</i> <input type="checkbox"/> Voluntary			

Group Analysis Summary

Acceptable : 30 / 30

Score : 100% - (Acceptable)

Sample Information

GASOLINE IN WATER - PT

PE1798-2ML / Lot LRAB2013

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Gasoline Range Organics, C6-C10 ^{1,2} 9408 Volatile Petroleum Hydrocarbons	ug/L	401	321	137
Benzene ^{1,2} 4375 Petroleum Hydrocarbons	ug/L	8.50	7.92	2.13
VPH Aliphatic C5-C8 Unadjusted ^{1,2} 5305 Petroleum Hydrocarbons	ug/L	265	0	0
VPH Aliphatic C5-C8 ^{1,2} 5304 Petroleum Hydrocarbons	ug/L	205	0	0
Ethylbenzene ^{1,2} 4765 Petroleum Hydrocarbons	ug/L	5.21	5.56	0.87
Methyl tert-butyl ether (MTBE) ^{1,2} 5000 Petroleum Hydrocarbons	ug/L	0	0	0
Naphthalene ^{1,2} 5005 Petroleum Hydrocarbons	ug/L	1.88	1.49	0.16
Toluene ^{1,2} 5140 Petroleum Hydrocarbons	ug/L	23.6	26.1	3.5
VPH Aliphatic C9-C12 Unadjusted ^{1,2} 5307 Petroleum Hydrocarbons	ug/L	130	0	0
VPH Aliphatic C9-C12 ^{1,2} 5306 Petroleum Hydrocarbons	ug/L	66	0	0
m+p-Xylene ^{1,2} 5240 Petroleum Hydrocarbons	ug/L	23.6	21.3	3.4
o-Xylene ^{1,2} 5250 Petroleum Hydrocarbons	ug/L	10.2	8.03	1.27
Xylene, total ^{1,2} 5260 Petroleum Hydrocarbons	ug/L	33.8	29.6	4.78
C10-C12 Aliphatic Hydrocarbons ² 9397 Petroleum Hydrocarbons	µg/L		0	0
C10-C12 Aromatics Hydrocarbons ² 9398 Petroleum Hydrocarbons	µg/L		0	0
VPH Aromatics >C12-C13 ² 9400 Petroleum Hydrocarbons	µg/L	12	0	0
VPH Aliphatic C5-C6 ^{1,2} 5303 Petroleum Hydrocarbons	µg/L	60.9	0	0
VPH Aliphatic >C6-C8 ^{1,2} 35301 Petroleum Hydrocarbons	µg/L	116	0	0
VPH Aliphatic >C8-C10 ^{1,2} 5302 Petroleum Hydrocarbons	µg/L	48	0	0

VPH Aromatic >C8-C10 ^{1,2} 5310 Petroleum Hydrocarbons	µg/L	70.2	0	0
VPH Aromatic C9-C10 ^{1,2} 5311 Petroleum Hydrocarbons	ug/L	40	0	0
Gasoline range organics (GRO), C5-C10 ^{1,2} 9408 Volatile Petroleum Hydrocarbons	ug/L	401	0	0
Total VPH ^{1,2} 9409 Petroleum Hydrocarbons	µg/L	401	0	0
Total Purgeable Hydrocarbons ^{1,2} 5207 Petroleum Hydrocarbons	ug/L	401	359	90.1
Gasoline Range Organics, C6-C12 ^{1,2} 9408 Volatile Petroleum Hydrocarbons	ug/L	401	0	0
Gasoline range organics (GRO), C5-C12 ^{1,2} 9408 Volatile Petroleum Hydrocarbons	ug/L	401	0	0
Gasoline Range Organics, C6-C8 ^{1,2} 9408 Petroleum Hydrocarbons	ug/L	401	0	0
Gasoline Range Organics, C6-C9 ^{1,2} 9408 Petroleum Hydrocarbons	ug/L	401	0	0
VPH Aliphatic >C10-C12 ² 62253 Petroleum Hydrocarbons - Water	ug/L	65	0	0
VPH Aromatic >C10-C12 ² 5312 Petroleum Hydrocarbons - Water	ug/L	33	0	0
Gasoline Range Organics, C6-C10 ^{1,2} 9408 Petroleum Hydrocarbons	ug/L	401	321	137
Gasoline range organics (GRO), C5-C10 ^{1,2} 9408 Petroleum Hydrocarbons	ug/L	401	0	0
Gasoline Range Organics, C6-C12 ^{1,2} 9408 Petroleum Hydrocarbons	ug/L	401	0	0
VPH Aliphatic >C10-C12 ² 62253 Petroleum Hydrocarbons	ug/L	65	0	0
VPH Aromatic >C10-C12 ² 5312 Petroleum Hydrocarbons	ug/L	33	0	0
Gasoline Range Organics, C6-C10 ^{1,2} 9408	ug/L	401	321	137
VPH Aliphatic C5-C8 Unadjusted ^{1,2} 5305	ug/L	265	0	0
VPH Aliphatic C9-C12 Unadjusted ^{1,2} 5307	ug/L	130	0	0
VPH Aliphatic C9-C12 ^{1,2} 5306	ug/L	66	0	0
VPH Aromatic C9-C10 ^{1,2} 5311	ug/L	40	0	0
Total Purgeable Hydrocarbons ^{1,2} 5207	ug/L	401	359	90.1
Gasoline Range Organics, C6-C12 ^{1,2} 9408	ug/L	401	0	0
Gasoline range organics (GRO), C5-C12 ^{1,2} 9408	ug/L	401	0	0
Gasoline Range Organics, C6-C8 ^{1,2} 9408	ug/L	401	0	0

Gasoline Range Organics, C6-C9 ^{1,2} 9408	ug/L	401	0	0
VPH Aliphatic C5-C8 ^{1,2} 5304	ug/L	205	0	0
Ethylbenzene ^{1,2} 4765	ug/L	5.21	5.56	0.87
Methyl tert-butyl ether (MTBE) ^{1,2} 5000	ug/L	0	0	0
Naphthalene ^{1,2} 5005	ug/L	1.88	1.49	0.16
Toluene ^{1,2} 5140	ug/L	23.6	26.1	3.5
m+p-Xylene ^{1,2} 5240	ug/L	23.6	21.3	3.4
o-Xylene ^{1,2} 5250	ug/L	10.2	8.03	1.27
Xylene, total ^{1,2} 5260	ug/L	33.8	29.6	4.78
Gasoline range organics (GRO), C5-C10 ^{1,2} 9408	ug/L	401	0	0
Gasoline range organics (GRO), C5-C12 ^{1,2} 9408 Petroleum Hydrocarbons	ug/L	401	0	0

Metals in Soil

SPE001-30G / Lot LRAA8596

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Bismuth, Bi ^{1,2} 1023 Trace Metals - Solids	mg/Kg	0	0	0
Carbon, C ^{1,2} 1553 Trace Metals - Solids	mg/Kg	945	0	0
Antimony, Sb ^{1,2} 1005 Trace Metals - Solids	mg/Kg	162±0.829	81	49
Arsenic, As ^{1,2} 1010 Trace Metals - Solids	mg/Kg	63.2±0.322	58.5	4.99
Barium, Ba ^{1,2} 1015 Trace Metals - Solids	mg/Kg	204±1.04	233	22.6
Beryllium, Be ^{1,2} 1020 Trace Metals - Solids	mg/Kg	62.4±0.318	59.1	5.18
Boron, B ^{1,2} 1025 Trace Metals - Solids	mg/Kg	95.2±0.486	79.1	12.5
Cadmium, Cd ^{1,2} 1030 Trace Metals - Solids	mg/Kg	97.7±0.498	98.3	7.58
Calcium, Ca ^{1,2} 1035 Trace Metals - Solids	mg/Kg	3008±15.3	3740	286
Chromium, Cr (total) ^{1,2} 1040 Trace Metals - Solids	mg/Kg	236±1.2	240	19.3
Cobalt, Co ^{1,2} 1050 Trace Metals - Solids	mg/Kg	169±0.863	152	12.2
Copper, Cu ^{1,2} 1055 Trace Metals - Solids	mg/Kg	93.2±0.475	89.4	8.26
Iron, Fe ^{1,2} 1070 Trace Metals - Solids	mg/Kg	2622±13.4	6980	646
Lead, Pb ^{1,2} 1075 Trace Metals - Solids	mg/Kg	294±1.5	275	22.7
Lithium, Li ² 1080 Trace Metals - Solids	mg/Kg	160±0.816	158	19.2
Magnesium, Mg ^{1,2} 1085 Trace Metals - Solids	mg/Kg	1420±7.24	1520	146
Manganese, Mn ^{1,2} 1090 Trace Metals - Solids	mg/Kg	856±4.37	833	83.8
Mercury, Hg ^{1,2} 1095 Trace Metals - Solids	mg/Kg	17.8±0.091	16.1	1.49
Molybdenum, Mo ^{1,2} 1100 Trace Metals - Solids	mg/Kg	64.2±0.327	55.5	6.82
Nickel, Ni ^{1,2} 1105 Trace Metals - Solids	mg/Kg	321±1.64	297	23.5

Potassium, K ^{1,2} 1125 Trace Metals - Solids	mg/Kg	3582±18.3	4070	396
Selenium, Se ^{1,2} 1140 Trace Metals - Solids	mg/Kg	125±0.635	100	8.24
Silver, Ag ^{1,2} 1150 Trace Metals - Solids	mg/Kg	42.2±0.215	39.3	4.06
Sodium, Na ^{1,2} 1155 Trace Metals - Solids	mg/Kg	260±1.32	332	53.6
Strontium, Sr ^{1,2} 1160 Trace Metals - Solids	mg/Kg	111±0.567	178	38.2
Thallium, Tl ^{1,2} 1165 Trace Metals - Solids	mg/Kg	142±0.724	128	13.1
Tin, Sn ^{1,2} 1175 Trace Metals - Solids	mg/Kg	95±0.485	90.3	8.91
Titanium, Ti ^{1,2} 1180 Trace Metals - Solids	mg/Kg	48.2±0.246	46	17.1
Vanadium, V ^{1,2} 1185 Trace Metals - Solids	mg/Kg	185±0.945	200	13.9
Zinc, Zn ^{1,2} 1190 Trace Metals - Solids	mg/Kg	628±3.2	586	46.1
pH ^{1,2} 1900 Miscellaneous Analytes	Units	6.0	6.06	0.15
Silica as SiO ₂ ^{1,2} 1990 Miscellaneous Analytes	mg/Kg	1500	1660	1410
Sulfur ^{1,2} 2017 Miscellaneous Analytes	mg/Kg	300	111	75.2
Aluminum, Al ^{1,2} 1000 Trace Metals - Solids	mg/Kg	3401±17.3	6810	2670
Silicon, Si ^{1,2} 1145 Trace Metals - Solids	mg/Kg	785±4.01	546	429
Ammonia as N ^{1,2} 1515	mg/Kg		0	0
Chloride ^{1,2} 1575	mg/Kg		0	0
Phosphorus as P, Total ^{1,2} 1910 Trace Metals - Solids	mg/Kg	86.3±0.44	0	0
Fluoride ^{1,2} 1730	mg/Kg	200	0	0
pH ^{1,2} 1900	Units	6.0	6.06	0.15
Silica as SiO ₂ ^{1,2} 1990	mg/Kg	1500	1660	1410
Sulfate ^{1,2} 2000	mg/Kg	150	0	0
Sulfur ^{1,2} 2017	mg/Kg	300	111	75.2
Total cyanide ^{1,2} 1645	mg/Kg	165	0	0
Carbon, Total ² 2041	wt%		0	0

SPE001-30G / Lot LRAA8596A

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Bismuth, Bi ^{1,2} 1023 Trace Metals - Solids	mg/Kg		0	0
Carbon, C ^{1,2} 1553 Trace Metals - Solids	mg/Kg		0	0
Antimony, Sb ^{1,2} 1005 Trace Metals - Solids	mg/Kg		0	0
Arsenic, As ^{1,2} 1010 Trace Metals - Solids	mg/Kg		0	0
Barium, Ba ^{1,2} 1015 Trace Metals - Solids	mg/Kg		0	0
Beryllium, Be ^{1,2} 1020 Trace Metals - Solids	mg/Kg		0	0
Boron, B ^{1,2} 1025 Trace Metals - Solids	mg/Kg		0	0
Cadmium, Cd ^{1,2} 1030 Trace Metals - Solids	mg/Kg		0	0
Calcium, Ca ^{1,2} 1035 Trace Metals - Solids	mg/Kg		0	0
Chromium, Cr (total) ^{1,2} 1040 Trace Metals - Solids	mg/Kg		0	0
Cobalt, Co ^{1,2} 1050 Trace Metals - Solids	mg/Kg		0	0
Copper, Cu ^{1,2} 1055 Trace Metals - Solids	mg/Kg		0	0
Iron, Fe ^{1,2} 1070 Trace Metals - Solids	mg/Kg		0	0
Lead, Pb ^{1,2} 1075 Trace Metals - Solids	mg/Kg		0	0
Lithium, Li ² 1080 Trace Metals - Solids	mg/Kg		0	0
Magnesium, Mg ^{1,2} 1085 Trace Metals - Solids	mg/Kg		0	0
Manganese, Mn ^{1,2} 1090 Trace Metals - Solids	mg/Kg		0	0
Mercury, Hg ^{1,2} 1095 Trace Metals - Solids	mg/Kg		0	0
Molybdenum, Mo ^{1,2} 1100 Trace Metals - Solids	mg/Kg		0	0
Nickel, Ni ^{1,2} 1105 Trace Metals - Solids	mg/Kg		0	0
Potassium, K ^{1,2} 1125 Trace Metals - Solids	mg/Kg		0	0

Selenium, Se ^{1,2} 1140 Trace Metals - Solids	mg/Kg		0	0
Silver, Ag ^{1,2} 1150 Trace Metals - Solids	mg/Kg		0	0
Sodium, Na ^{1,2} 1155 Trace Metals - Solids	mg/Kg		0	0
Strontium, Sr ^{1,2} 1160 Trace Metals - Solids	mg/Kg		0	0
Thallium, Tl ^{1,2} 1165 Trace Metals - Solids	mg/Kg		0	0
Tin, Sn ^{1,2} 1175 Trace Metals - Solids	mg/Kg		0	0
Titanium, Ti ^{1,2} 1180 Trace Metals - Solids	mg/Kg		0	0
Vanadium, V ^{1,2} 1185 Trace Metals - Solids	mg/Kg		0	0
Zinc, Zn ^{1,2} 1190 Trace Metals - Solids	mg/Kg		0	0
pH ^{1,2} 1900 Miscellaneous Analytes	Units		0	0
Silica as SiO ₂ ^{1,2} 1990 Miscellaneous Analytes	mg/Kg		0	0
Sulfur ^{1,2} 2017 Miscellaneous Analytes	mg/Kg		0	0
Aluminum, Al ^{1,2} 1000 Trace Metals - Solids	mg/Kg	9400±48.1	16100	4700
Silicon, Si ^{1,2} 1145 Trace Metals - Solids	mg/Kg		0	0
Ammonia as N ^{1,2} 1515	mg/Kg		0	0
Chloride ^{1,2} 1575	mg/Kg		0	0
Phosphorus as P, Total ^{1,2} 1910 Trace Metals - Solids	mg/Kg		0	0
Fluoride ^{1,2} 1730	mg/Kg		0	0
pH ^{1,2} 1900	Units		0	0
Silica as SiO ₂ ^{1,2} 1990	mg/Kg		0	0
Sulfate ^{1,2} 2000	mg/Kg		0	0
Sulfur ^{1,2} 2017	mg/Kg		0	0
Total cyanide ^{1,2} 1645	mg/Kg		0	0
Carbon, Total ² 2041	wt%		0	0

DIESEL IN WATER-MA - PT

PE1849-2ML / Lot LRAB1915

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
EPH Aromatic C11-C22 ² 6232 Petroleum Hydrocarbons	ug/L	1406±13.6	0	0
EPH Aliphatic C19-C36 ² 6218 Petroleum Hydrocarbons	ug/L	680±6.59	0	0
C9-C18 Aliphatic Hydrocarbons ² 6222 Petroleum Hydrocarbons	ug/L	1756±9.27	0	0
Naphthalene ^{1,2} 5005 Petroleum Hydrocarbons	ug/L	38.3±0.372	0	0
Acenaphthene ^{1,2} 5500 Petroleum Hydrocarbons	ug/L	26.9±0.261	0	0
Acenaphthylene ^{1,2} 5505 Petroleum Hydrocarbons	ug/L	10.5±0.101	0	0
Anthracene ^{1,2} 5555 Petroleum Hydrocarbons	ug/L	17.4±0.169	0	0
Benzo(a)anthracene ^{1,2} 5575 Petroleum Hydrocarbons	ug/L	37.2±0.361	0	0
Benzo(a)pyrene ^{1,2} 5580 Petroleum Hydrocarbons	ug/L	11.9±0.115	0	0
Benzo(b)fluoranthene ^{1,2} 5585 Petroleum Hydrocarbons	ug/L	7.62±0.074	0	0
Benzo(g,h,i)perylene ^{1,2} 5590 Petroleum Hydrocarbons	ug/L	37.8±0.366	0	0
Benzo(k)fluoranthene ^{1,2} 5600 Petroleum Hydrocarbons	ug/L	24.4±0.237	0	0
Chrysene ^{1,2} 5855 Petroleum Hydrocarbons	ug/L	30.5±0.296	0	0
Dibenzo(a,h)anthracene ^{1,2} 5895 Petroleum Hydrocarbons	ug/L	11.0±0.107	0	0
Fluoranthene ^{1,2} 6265 Petroleum Hydrocarbons	ug/L	40.6±0.394	0	0
Fluorene ^{1,2} 6270 Petroleum Hydrocarbons	ug/L	44.2±0.429	0	0
Indeno(1,2,3-cd) pyrene ^{1,2} 6315 Petroleum Hydrocarbons	ug/L	7.73±0.075	0	0
2-Methylnaphthalene ^{1,2} 6385 Petroleum Hydrocarbons	ug/L	32.7±0.317	0	0
Phenanthrene ^{1,2} 6615 Petroleum Hydrocarbons	ug/L	21.0±0.204	0	0
Pyrene ^{1,2} 6665 Petroleum Hydrocarbons	ug/L	21.6±0.209	0	0
Diesel Range Organics (DRO) ^{1,2} 9369 Petroleum Hydrocarbons	ug/L	4356±42.3	0	0

Total EPH ²	ug/L	4356.0±42.300	0	0
6241 Petroleum Hydrocarbons				
Unadjusted C11-C22 Aromatic Hydrocarbons ^{1,2}	ug/L		0	0
6234 Petroleum Hydrocarbons - Water				
EPH Aromatic C11-C22 ²	ug/L	1406±13.6	0	0
6232 Petroleum Hydrocarbons - Water				
EPH Aliphatic C19-C36 ²	ug/L	680±6.59	0	0
6218 Petroleum Hydrocarbons - Water				
C9-C18 Aliphatic Hydrocarbons ²	ug/L	1756±9.27	0	0
6222 Petroleum Hydrocarbons - Water				
Naphthalene ^{1,2}	ug/L	38.3±0.372	0	0
5005 Petroleum Hydrocarbons - Water				
Acenaphthene ^{1,2}	ug/L	26.9±0.261	0	0
5500 Petroleum Hydrocarbons - Water				
Acenaphthylene ^{1,2}	ug/L	10.5±0.101	0	0
5505 Petroleum Hydrocarbons - Water				
Anthracene ^{1,2}	ug/L	17.4±0.169	0	0
5555 Petroleum Hydrocarbons - Water				
Benzo(a)anthracene ^{1,2}	ug/L	37.2±0.361	0	0
5575 Petroleum Hydrocarbons - Water				
Benzo(a)pyrene ^{1,2}	ug/L	11.9±0.115	0	0
5580 Petroleum Hydrocarbons - Water				
Benzo(b)fluoranthene ^{1,2}	ug/L	7.62±0.074	0	0
5585 Petroleum Hydrocarbons - Water				
Benzo(g,h,i)perylene ^{1,2}	ug/L	37.8±0.366	0	0
5590 Petroleum Hydrocarbons - Water				
Benzo(k)fluoranthene ^{1,2}	ug/L	24.4±0.237	0	0
5600 Petroleum Hydrocarbons - Water				
Chrysene ^{1,2}	ug/L	30.5±0.296	0	0
5855 Petroleum Hydrocarbons - Water				
Dibenzo(a,h)anthracene ^{1,2}	ug/L	11.0±0.107	0	0
5895 Petroleum Hydrocarbons - Water				
Fluoranthene ^{1,2}	ug/L	40.6±0.394	0	0
6265 Petroleum Hydrocarbons - Water				
Fluorene ^{1,2}	ug/L	44.2±0.429	0	0
6270 Petroleum Hydrocarbons - Water				
Indeno(1,2,3-cd) pyrene ^{1,2}	ug/L	7.73±0.075	0	0
6315 Petroleum Hydrocarbons - Water				
2-Methylnaphthalene ^{1,2}	ug/L	32.7±0.317	0	0
6385 Petroleum Hydrocarbons - Water				
Phenanthrene ^{1,2}	ug/L	21.0±0.204	0	0
6615 Petroleum Hydrocarbons - Water				
Pyrene ^{1,2}	ug/L	21.6±0.209	0	0
6665 Petroleum Hydrocarbons - Water				
Diesel Range Organics (DRO) ^{1,2}	ug/L	4356±42.3	0	0
9369 Petroleum Hydrocarbons - Water				
Total EPH ²	ug/L	4356.0±42.300	0	0
6241 Petroleum Hydrocarbons - Water				

CHROMIUM VI IN SOIL - PT

SPE012-30G / Lot LRAB1649

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Chromium VI, Cr(VI) ^{1,2} 1045 Trace Metals - Solids	mg/Kg	111±0.564	86.5	11.9

VOAS IN SOIL - MEDIUM LEVEL - PT

SPE002H-25G / Lot LRAB1274

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Acetone ^{1,2} 4315 Medium Level Volatile Ketone/Ethers	ug/Kg	20000±58.7	27700	12200
Acetonitrile ^{1,2} 4320 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
Acrolein (Propenal) ^{1,2} 4325 Volatiles - Medium Level - Solids	ug/Kg	19500±206	7970	6560
T-amylmethylether (TAME) ^{1,2} 4370 Volatiles - Medium Level - Solids	ug/Kg	14400±139	15500	906
Benzene ^{1,2} 4375 Medium Level Volatile Aromatics	ug/Kg	5570±54	5620	800
Bromobenzene ^{1,2} 4385 Volatiles - Medium Level - Solids	ug/Kg	7630±74.1	7620	713
Bromochloromethane ^{1,2} 4390 Volatiles - Medium Level - Solids	ug/Kg	0±63.8	0	0
Bromodichloromethane ^{1,2} 4395 Medium Level Volatile Halocarbons	ug/Kg	6580±63.8	7000	810
Bromoform ^{1,2} 4400 Medium Level Volatile Halocarbons	ug/Kg	0.00	0	0
2-Butanone (Methyl ethyl ketone, MEK) ^{1,2} 4410 Medium Level Volatile Ketone/Ethers	ug/Kg	9350±90.7	10900	4490
n-Butylbenzene ^{1,2} 4435 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
sec-Butylbenzene ^{1,2} 4440 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
tert-Butylbenzene ^{1,2} 4445 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
Carbon disulfide ^{1,2} 4450 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
Carbon tetrachloride ^{1,2} 4455 Medium Level Volatile Halocarbons	ug/Kg	5370±49.2	5420	1160
Chlorobenzene ^{1,2} 4475 Medium Level Volatile Aromatics	ug/Kg	3180±30.9	3330	400
Chloroethane ^{1,2} 4485 Volatiles - Medium Level - Solids	ug/Kg	3140±30.4	2330	1450
2-Chloroethyl vinyl ether ^{1,2} 4500 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
Chloroform ^{1,2} 4505 Medium Level Volatile Halocarbons	ug/Kg	2110±20.4	2120	460
2-Chlorotoluene ^{1,2} 4535 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0

4-Chlorotoluene ^{1,2} 4540 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
Cyclohexane ^{1,2} 4555 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
1,2-Dibromo-3-chloropropane (DBCP) ^{1,2} 4570 Medium Level Volatile Halocarbons	ug/Kg	8250±8	8630	1090
Dibromochloromethane ^{1,2} 4575 Medium Level Volatile Halocarbons	ug/Kg	3290±31.9	3210	366
1,2-Dibromoethane (EDB, Ethylene dibromide) ^{1,2} 4585 Medium Level Volatile Halocarbons	ug/Kg	3100±30.1	3150	529
Dibromomethane ^{1,2} 4595 Medium Level Volatile Halocarbons	ug/Kg	7920±76.8	8210	824
1,2-Dichlorobenzene ^{1,2} 4610 Medium Level Volatile Aromatics	ug/Kg	7880±76.5	7770	657
1,3-Dichlorobenzene ^{1,2} 4615 Medium Level Volatile Aromatics	ug/Kg	5340±51.8	5250	493
1,4-Dichlorobenzene ^{1,2} 4620 Medium Level Volatile Aromatics	ug/Kg	7360±71.4	7250	271
Dichlorodifluoromethane ^{1,2} 4625 Volatiles - Medium Level - Solids	ug/Kg	4210±40.9	2660	1060
1,1-Dichloroethane ^{1,2} 4630 Medium Level Volatile Halocarbons	ug/Kg	0.00	0	0
1,2-Dichloroethane ^{1,2} 4635 Medium Level Volatile Halocarbons	ug/Kg	8820±85.5	8670	1360
1,1-Dichloroethylene ^{1,2} 4640 Medium Level Volatile Halocarbons	ug/Kg	8660±84	8990	1610
cis-1,2-Dichloroethylene ^{1,2} 4645 Medium Level Volatile Halocarbons	ug/Kg	2920±28.3	2860	540
1,2-Dichloropropane ^{1,2} 4655 Medium Level Volatile Halocarbons	ug/Kg	3320±32.2	3590	352
1,3-Dichloropropane ^{1,2} 4660 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
2,2-Dichloropropane ^{1,2} 4665 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
1,1-Dichloropropene ^{1,2} 4670 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
cis-1,3-Dichloropropene ^{1,2} 4680 Volatiles - Medium Level - Solids	ug/Kg	3860±37.4	3530	387
trans-1,3-Dichloropropene ^{1,2} 4685 Volatiles - Medium Level - Solids	ug/Kg	3310±32.1	3170	345
trans-1,2-Dichloroethylene ^{1,2} 4700 Medium Level Volatile Halocarbons	ug/Kg	0.00	0	0
Ethylbenzene ^{1,2} 4765 Medium Level Volatile Aromatics	ug/Kg	8110±78.6	8400	1010
Hexachlorobutadiene ^{1,2} 4835 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
Hexachloroethane ^{1,2} 4840 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
2-Hexanone ^{1,2} 4860 Medium Level Volatile Ketone/Ethers	ug/Kg	14700±143	16600	2910

Isopropylbenzene ^{1,2} 4900 Volatiles - Medium Level - Solids	ug/Kg	7930±76.9	8110	841
Methyl acetate ^{1,2} 4940 Volatiles - Medium Level - Solids	ug/Kg	6200	0	0
Methyl bromide (Bromomethane) ^{1,2} 4950 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
Methyl chloride (Chloromethane) ^{1,2} 4960 Volatiles - Medium Level - Solids	ug/Kg	4350±42.2	3640	1020
Methylcyclohexane ^{1,2} 4965 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
Methylene chloride (Dichloromethane) ^{1,2} 4975 Medium Level Volatile Halocarbons	ug/Kg	2830±27.4	2760	414
4-Methyl-2-pentanone (MIBK) ^{1,2} 4995 Medium Level Volatile Ketone/Ethers	ug/Kg	9620±93.4	9660	1320
Methyl tert-butyl ether (MTBE) ^{1,2} 5000 Medium Level Volatile Ketone/Ethers	ug/Kg	8660±84	8610	769
Naphthalene ^{1,2} 5005 Medium Level Volatile Aromatics	ug/Kg	3950±38.3	3790	655
n-Propylbenzene (1-Phenylpropane) ^{1,2} 5090 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
Styrene ^{1,2} 5100 Medium Level Volatile Aromatics	ug/Kg	6930±67.2	6810	837
1,1,1,2-Tetrachloroethane ^{1,2} 5105 Medium Level Volatile Halocarbons	ug/Kg	3190±31	3260	305
1,1,1,2-Tetrachloroethane ^{1,2} 5110 Medium Level Volatile Halocarbons	ug/Kg	6170±59.8	5910	841
Tetrachloroethylene (Perchloroethylene) ^{1,2} 5115 Medium Level Volatile Halocarbons	ug/Kg	6750±65.4	6500	1780
Toluene ^{1,2} 5140 Medium Level Volatile Aromatics	ug/Kg	2200±21.4	2210	338
1,2,3-Trichlorobenzene ^{1,2} 5150 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
1,2,4-Trichlorobenzene ^{1,2} 5155 Medium Level Volatile Aromatics	ug/Kg	0.00	0	0
1,1,1-Trichloroethane ^{1,2} 5160 Medium Level Volatile Halocarbons	ug/Kg	5690±55.2	5870	1070
1,1,2-Trichloroethane ^{1,2} 5165 Medium Level Volatile Halocarbons	ug/Kg	6550±63.5	6730	825
Trichloroethene (Trichloroethylene) ^{1,2} 5170 Medium Level Volatile Halocarbons	ug/Kg	6060±58.8	6330	725
Trichlorofluoromethane ^{1,2} 5175 Volatiles - Medium Level - Solids	ug/Kg	3730±36.2	3580	541
1,2,3-Trichloropropane ^{1,2} 5180 Medium Level Volatile Halocarbons	ug/Kg	4630±44.9	4240	1200
Trichlorotrifluoroethane (Freon 113) ^{1,2} 5185 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
1,2,4-Trimethylbenzene ^{1,2} 5210 Volatiles - Medium Level - Solids	ug/Kg	9600±93.2	10100	418
1,3,5-Trimethylbenzene ^{1,2} 5215 Volatiles - Medium Level - Solids	ug/Kg	12600±122	13000	1110

Vinyl acetate ^{1,2} 5225 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
Vinyl chloride ^{1,2} 5235 Volatiles - Medium Level - Solids	ug/Kg	6430±62.3	5800	1290
m+p-Xylene ^{1,2} 5240 Volatiles - Medium Level - Solids	ug/Kg	10300±100	10600	1520
o-Xylene ^{1,2} 5250 Volatiles - Medium Level - Solids	ug/Kg	3670±35.6	3940	508
Xylene, total ^{1,2} 5260 Medium Level Volatile Aromatics	ug/Kg	14000±136	14400	1330
Di-isopropylether (DIPE) ^{1,2} 9375 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
1,4-Dioxane ^{1,2} 4735 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
Acetone ^{1,2} 4315	ug/Kg	20000±58.7	27700	12200
Acetonitrile ^{1,2} 4320	ug/Kg	0.00	0	0
Acrolein (Propenal) ^{1,2} 4325	ug/Kg	19500±206	7970	6560
T-amylmethylether (TAME) ^{1,2} 4370	ug/Kg	14400±139	15500	906
Benzene ^{1,2} 4375	ug/Kg	5570±54	5620	800
Bromobenzene ^{1,2} 4385	ug/Kg	7630±74.1	7620	713
Bromodichloromethane ^{1,2} 4395	ug/Kg	6580±63.8	7000	810
Bromoform ^{1,2} 4400	ug/Kg	0.00	0	0
2-Butanone (Methyl ethyl ketone, MEK) ^{1,2} 4410	ug/Kg	9350±90.7	10900	4490
Carbon disulfide ^{1,2} 4450	ug/Kg	0.00	0	0
Carbon tetrachloride ^{1,2} 4455	ug/Kg	5370±49.2	5420	1160
Chlorobenzene ^{1,2} 4475	ug/Kg	3180±30.9	3330	400
Chloroethane ^{1,2} 4485	ug/Kg	3140±30.4	2330	1450
2-Chloroethyl vinyl ether ^{1,2} 4500	ug/Kg	0.00	0	0
Chloroform ^{1,2} 4505	ug/Kg	2110±20.4	2120	460
1,2-Dibromo-3-chloropropane (DBCP) ^{1,2} 4570	ug/Kg	8250±8	8630	1090
Dibromochloromethane ^{1,2} 4575	ug/Kg	3290±31.9	3210	366
1,2-Dibromoethane (EDB, Ethylene dibromide) ^{1,2} 4585	ug/Kg	3100±30.1	3150	529

Dibromomethane ^{1,2} 4595	ug/Kg	7920±76.8	8210	824
1,2-Dichlorobenzene ^{1,2} 4610	ug/Kg	7880±76.5	7770	657
1,3-Dichlorobenzene ^{1,2} 4615	ug/Kg	5340±51.8	5250	493
1,4-Dichlorobenzene ^{1,2} 4620	ug/Kg	7360±71.4	7250	271
Dichlorodifluoromethane ^{1,2} 4625	ug/Kg	4210±40.9	2660	1060
1,1-Dichloroethane ^{1,2} 4630	ug/Kg	0.00	0	0
1,2-Dichloroethane ^{1,2} 4635	ug/Kg	8820±85.5	8670	1360
1,1-Dichloroethylene ^{1,2} 4640	ug/Kg	8660±84	8990	1610
cis-1,2-Dichloroethylene ^{1,2} 4645	ug/Kg	2920±28.3	2860	540
1,2-Dichloropropane ^{1,2} 4655	ug/Kg	3320±32.2	3590	352
cis-1,3-Dichloropropene ^{1,2} 4680	ug/Kg	3860±37.4	3530	387
trans-1,3-Dichloropropene ^{1,2} 4685	ug/Kg	3310±32.1	3170	345
trans-1,2-Dichloroethylene ^{1,2} 4700	ug/Kg	0.00	0	0
Ethylbenzene ^{1,2} 4765	ug/Kg	8110±78.6	8400	1010
Hexachloroethane ^{1,2} 4840	ug/Kg	0.00	0	0
2-Hexanone ^{1,2} 4860	ug/Kg	14700±143	16600	2910
Isopropylbenzene ^{1,2} 4900	ug/Kg	7930±76.9	8110	841
Methyl bromide (Bromomethane) ^{1,2} 4950	ug/Kg	0.00	0	0
Methyl chloride (Chloromethane) ^{1,2} 4960	ug/Kg	4350±42.2	3640	1020
Methylene chloride (Dichloromethane) ^{1,2} 4975	ug/Kg	2830±27.4	2760	414
4-Methyl-2-pentanone (MIBK) ^{1,2} 4995	ug/Kg	9620±93.4	9660	1320
Methyl tert-butyl ether (MTBE) ^{1,2} 5000	ug/Kg	8660±84	8610	769
Naphthalene ^{1,2} 5005	ug/Kg	3950±38.3	3790	655
Styrene ^{1,2} 5100	ug/Kg	6930±67.2	6810	837
1,1,1,2-Tetrachloroethane ^{1,2} 5105	ug/Kg	3190±31	3260	305

1,1,2,2-Tetrachloroethane ^{1,2} 5110	ug/Kg	6170±59.8	5910	841
Tetrachloroethylene (Perchloroethylene) ^{1,2} 5115	ug/Kg	6750±65.4	6500	1780
Toluene ^{1,2} 5140	ug/Kg	2200±21.4	2210	338
1,2,4-Trichlorobenzene ^{1,2} 5155	ug/Kg	0.00	0	0
1,1,1-Trichloroethane ^{1,2} 5160	ug/Kg	5690±55.2	5870	1070
1,1,2-Trichloroethane ^{1,2} 5165	ug/Kg	6550±63.5	6730	825
Trichloroethene (Trichloroethylene) ^{1,2} 5170	ug/Kg	6060±58.8	6330	725
Trichlorofluoromethane ^{1,2} 5175	ug/Kg	3730±36.2	3580	541
1,2,3-Trichloropropane ^{1,2} 5180	ug/Kg	4630±44.9	4240	1200
1,2,4-Trimethylbenzene ^{1,2} 5210	ug/Kg	9600±93.2	10100	418
1,3,5-Trimethylbenzene ^{1,2} 5215	ug/Kg	12600±122	13000	1110
Vinyl acetate ^{1,2} 5225	ug/Kg	0.00	0	0
Vinyl chloride ^{1,2} 5235	ug/Kg	6430±62.3	5800	1290
m+p-Xylene ^{1,2} 5240	ug/Kg	10300±100	10600	1520
o-Xylene ^{1,2} 5250	ug/Kg	3670±35.6	3940	508
Xylene, total ^{1,2} 5260	ug/Kg	14000±136	14400	1330
Di-isopropylether (DIPE) ^{1,2} 9375	ug/Kg	0.00	0	0
Acetone ^{1,2} 4315 Volatiles - Medium Level - Solids	ug/Kg	20000±58.7	27700	12200
Benzene ^{1,2} 4375 Volatiles - Medium Level - Solids	ug/Kg	5570±54	5620	800
Bromodichloromethane ^{1,2} 4395 Volatiles - Medium Level - Solids	ug/Kg	6580±63.8	7000	810
Bromoform ^{1,2} 4400 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
2-Butanone (Methyl ethyl ketone, MEK) ^{1,2} 4410 Volatiles - Medium Level - Solids	ug/Kg	9350±90.7	10900	4490
Carbon tetrachloride ^{1,2} 4455 Volatiles - Medium Level - Solids	ug/Kg	5370±49.2	5420	1160
Chlorobenzene ^{1,2} 4475 Volatiles - Medium Level - Solids	ug/Kg	3180±30.9	3330	400
Chloroform ^{1,2} 4505 Volatiles - Medium Level - Solids	ug/Kg	2110±20.4	2120	460

1,2-Dibromo-3-chloropropane (DBCP) ^{1,2} 4570 Volatiles - Medium Level - Solids	ug/Kg	8250±8	8630	1090
Dibromochloromethane ^{1,2} 4575 Volatiles - Medium Level - Solids	ug/Kg	3290±31.9	3210	366
1,2-Dibromoethane (EDB, Ethylene dibromide) ^{1,2} 4585 Volatiles - Medium Level - Solids	ug/Kg	3100±30.1	3150	529
Dibromomethane ^{1,2} 4595 Volatiles - Medium Level - Solids	ug/Kg	7920±76.8	8210	824
1,2-Dichlorobenzene ^{1,2} 4610 Volatiles - Medium Level - Solids	ug/Kg	7880±76.5	7770	657
1,3-Dichlorobenzene ^{1,2} 4615 Volatiles - Medium Level - Solids	ug/Kg	5340±51.8	5250	493
1,4-Dichlorobenzene ^{1,2} 4620 Volatiles - Medium Level - Solids	ug/Kg	7360±71.4	7250	271
1,1-Dichloroethane ^{1,2} 4630 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
1,2-Dichloroethane ^{1,2} 4635 Volatiles - Medium Level - Solids	ug/Kg	8820±85.5	8670	1360
1,1-Dichloroethylene ^{1,2} 4640 Volatiles - Medium Level - Solids	ug/Kg	8660±84	8990	1610
cis-1,2-Dichloroethylene ^{1,2} 4645 Volatiles - Medium Level - Solids	ug/Kg	2920±28.3	2860	540
1,2-Dichloropropane ^{1,2} 4655 Volatiles - Medium Level - Solids	ug/Kg	3320±32.2	3590	352
trans-1,2-Dichloroethylene ^{1,2} 4700 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0
Ethylbenzene ^{1,2} 4765 Volatiles - Medium Level - Solids	ug/Kg	8110±78.6	8400	1010
2-Hexanone ^{1,2} 4860 Volatiles - Medium Level - Solids	ug/Kg	14700±143	16600	2910
Methylene chloride (Dichloromethane) ^{1,2} 4975 Volatiles - Medium Level - Solids	ug/Kg	2830±27.4	2760	414
4-Methyl-2-pentanone (MIBK) ^{1,2} 4995 Volatiles - Medium Level - Solids	ug/Kg	9620±93.4	9660	1320
Methyl tert-butyl ether (MTBE) ^{1,2} 5000 Volatiles - Medium Level - Solids	ug/Kg	8660±84	8610	769
Naphthalene ^{1,2} 5005 Volatiles - Medium Level - Solids	ug/Kg	3950±38.3	3790	655
Styrene ^{1,2} 5100 Volatiles - Medium Level - Solids	ug/Kg	6930±67.2	6810	837
1,1,1,2-Tetrachloroethane ^{1,2} 5105 Volatiles - Medium Level - Solids	ug/Kg	3190±31	3260	305
1,1,1,2,2-Tetrachloroethane ^{1,2} 5110 Volatiles - Medium Level - Solids	ug/Kg	6170±59.8	5910	841
Tetrachloroethylene (Perchloroethylene) ^{1,2} 5115 Volatiles - Medium Level - Solids	ug/Kg	6750±65.4	6500	1780
Toluene ^{1,2} 5140 Volatiles - Medium Level - Solids	ug/Kg	2200±21.4	2210	338
1,2,4-Trichlorobenzene ^{1,2} 5155 Volatiles - Medium Level - Solids	ug/Kg	0.00	0	0

1,1,1-Trichloroethane ^{1,2} 5160 Volatiles - Medium Level - Solids	ug/Kg	5690±55.2	5870	1070
1,1,2-Trichloroethane ^{1,2} 5165 Volatiles - Medium Level - Solids	ug/Kg	6550±63.5	6730	825
Trichloroethene (Trichloroethylene) ^{1,2} 5170 Volatiles - Medium Level - Solids	ug/Kg	6060±58.8	6330	725
1,2,3-Trichloropropane ^{1,2} 5180 Volatiles - Medium Level - Solids	ug/Kg	4630±44.9	4240	1200
Xylene, total ^{1,2} 5260 Volatiles - Medium Level - Solids	ug/Kg	14000±136	14400	1330

GASOLINE IN SOIL - PT

SPE008-30G / Lot LRAA9306

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Gasoline Range Organics, C6-C10 ^{1,2} 9408 Petroleum Hydrocarbons - Soil	mg/Kg	899±8.72	655	320
Benzene ^{1,2} 4375 Petroleum Hydrocarbons - Soil	mg/Kg	21.6	11.6	2.86
VPH Aliphatic C5-C8 Unadjusted ^{1,2} 5305 Petroleum Hydrocarbons - Soil	mg/Kg	703±6.82	0	0
VPH Aliphatic C5-C8 ^{1,2} 5304 Petroleum Hydrocarbons - Soil	mg/Kg	476±4.62	286	12
Ethylbenzene ^{1,2} 4765 Petroleum Hydrocarbons - Soil	mg/Kg	14.9	18.7	3.77
Methyl tert-butyl ether (MTBE) ^{1,2} 5000 Petroleum Hydrocarbons - Soil	mg/Kg	0±0	0	0
Naphthalene ^{1,2} 5005 Petroleum Hydrocarbons - Soil	mg/Kg	5.10	1.54	0.49
Toluene ^{1,2} 5140 Petroleum Hydrocarbons - Soil	mg/Kg	71.2	115	22.3
VPH Aliphatic C9-C12 Unadjusted ^{1,2} 5307 Petroleum Hydrocarbons - Soil	mg/Kg	336±3.26	0	0
VPH Aliphatic C9-C12 ^{1,2} 5306 Petroleum Hydrocarbons - Soil	mg/Kg	140±1.36	163	59.3
m+p-Xylene ^{1,2} 5240 Petroleum Hydrocarbons - Soil	mg/Kg	60.5	74.9	14.1
o-Xylene ^{1,2} 5250 Petroleum Hydrocarbons - Soil	mg/Kg	22.4	29.7	5.43
Xylene, total ^{1,2} 5260 Petroleum Hydrocarbons - Soil	mg/Kg	83.6	108	23.6
C10-C12 Aliphatic Hydrocarbons ² 9397 Petroleum Hydrocarbons - Soil	mg/Kg	175	0	0
C10-C12 Aromatics Hydrocarbons ² 9398 Petroleum Hydrocarbons - Soil	mg/Kg	44.2	0	0
VPH Aromatics >C12-C13 ² 9400 Petroleum Hydrocarbons - Soil	mg/Kg	0	0	0
VPH Aliphatic C5-C6 ^{1,2} 5303 Petroleum Hydrocarbons - Soil	mg/Kg	62.5	0	0
VPH Aliphatic >C6-C8 ^{1,2} 35301 Petroleum Hydrocarbons - Soil	mg/L	325	0	0
VPH Aliphatic >C8-C10 ^{1,2} 5302 Petroleum Hydrocarbons - Soil	mg/Kg	148	0	0
VPH Aromatic >C8-C10 ^{1,2} 5310 Petroleum Hydrocarbons - Soil	m/Kg	226	0	0

VPH Aromatic C9-C10 ^{1,2} 5311 Petroleum Hydrocarbons - Soil	mg/Kg	129±1.25	108	70.3
Gasoline range organics (GRO), C5-C10 ^{1,2} 9408 Petroleum Hydrocarbons - Soil	mg/Kg	828±8.03	0	0
Total VPH ^{1,2} 9409 Petroleum Hydrocarbons - Soil	mg/Kg	1120	0	0
Total Purgeable Hydrocarbons ^{1,2} 5207 Petroleum Hydrocarbons - Soil	mg/Kg	1132±11.0	717	251
Gasoline Range Organics, C6-C12 ^{1,2} 9408 Petroleum Hydrocarbons - Soil	mg/Kg	1226±11.9	0	0
Gasoline range organics (GRO), C4-C12 ^{1,2} 9408 Petroleum Hydrocarbons - Soil	mg/Kg	1132±11.0	0	0
Gasoline Range Organics (GRO) ^{1,2} 9408 Volatile Petroleum Hydrocarbons	mg/kg	1132±11	956	367
VPH Aliphatic >C10-C12 ² 62253 Petroleum Hydrocarbons - Soil	µg/Kg		0	0
VPH Aromatic >C10-C12 ² 5312 Petroleum Hydrocarbons - Soil	µg/Kg		0	0
Gasoline Range Organics, C6-C12 ^{1,2} 9408 GRO/BTEX in Soil	mg/Kg	1226±11.9	0	0
Gasoline Range Organics (GRO) ^{1,2} 9408 Petroleum Hydrocarbons - Soil	mg/kg	1132±11	956	367
Gasoline Range Organics, C6-C8 ^{1,2} 9408 Petroleum Hydrocarbons - Soil	mg/Kg	62.3	0	0
Gasoline Range Organics, C6-C9 ^{1,2} 9408 Petroleum Hydrocarbons - Soil	mg/Kg		0	0

ANIONS IN SOIL - PT

SPE013-30G / Lot LRAA8537

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Bromide ^{1,2} 1540 Minerals	mg/Kg	75.5±0.385	74.2	13.8
Chloride ^{1,2} 1575 Minerals	mg/Kg	231±1.18	245	27.1
Fluoride ^{1,2} 1730 Minerals	mg/Kg	126±0.640	60.5	16.2
Nitrate as N ^{1,2} 1810 Minerals	mg/Kg	53.7±0.274	54.6	6.12
Nitrate+nitrite as N ^{1,2} 1820 Miscellaneous Analytes	mg/Kg	53.7±0.274	54.2	6.62
Nitrite as N ^{1,2} 1840 Miscellaneous Analytes	mg/Kg	0±0	0	0
Orthophosphate as P ^{1,2} 1870 Miscellaneous Analytes	mg/Kg	90.2±0.460	36.9	19.9
Sulfate ^{1,2} 2000 Minerals	mg/Kg	1548±7.89	1540	132
Bromide ^{1,2} 1540 Miscellaneous Analytes	mg/Kg	75.5±0.385	74.2	13.8
Chloride ^{1,2} 1575 Miscellaneous Analytes	mg/Kg	231±1.18	245	27.1
Fluoride ^{1,2} 1730 Miscellaneous Analytes	mg/Kg	126±0.640	60.5	16.2
Nitrate as N ^{1,2} 1810 Miscellaneous Analytes	mg/Kg	53.7±0.274	54.6	6.12
Sulfate ^{1,2} 2000 Miscellaneous Analytes	mg/Kg	1548±7.89	1540	132

DIESEL IN SOIL BY MA METHODS - PT

SPE007MA-40G / Lot LRAB1916

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Unadjusted C11-C22 Aromatic Hydrocarbons ^{1,2} 6234 Petroleum Hydrocarbons - Soil	mg/kg	420	0	0
EPH Aromatic C11-C22 ² 6232 PAH	mg/kg	385	0	0
EPH Aliphatic C19-C36 ² 6218 Petroleum Hydrocarbons - Soil	mg/kg	85.0	0	0
C9-C18 Aliphatic Hydrocarbons ² 6222 PAH	mg/kg	420	0	0
Naphthalene ^{1,2} 5005 PAH	mg/kg	5.18±0.0503	0	0
Acenaphthene ^{1,2} 5500 PAH	mg/kg	6.79±0.0694	0	0
Acenaphthylene ^{1,2} 5505 PAH	mg/kg	2.05±0.0199	0	0
Anthracene ^{1,2} 5555 PAH	mg/kg	0.679±0.0066	0	0
Benzo(a)anthracene ^{1,2} 5575 PAH	mg/kg	6.07±0.088	0	0
Benzo(a)pyrene ^{1,2} 5580 PAH	mg/kg	3.44±0.0625	0	0
Benzo(b)fluoranthene ^{1,2} 5585 PAH	mg/kg	0.818±0.0079	0	0
Benzo(g,h,i)perylene ^{1,2} 5590 PAH	mg/kg	5.75±0.0558	0	0
Benzo(k)fluoranthene ^{1,2} 5600 PAH	mg/kg	0.978±0.0095	0	0
Chrysene ^{1,2} 5855 PAH	mg/kg	4.21±0.0544	0	0
Dibenzo(a,h)anthracene ^{1,2} 5895 PAH	mg/kg	2.08±0.0202	0	0
Fluoranthene ^{1,2} 6265 PAH	mg/kg	5.81±0.0563	0	0
Fluorene ^{1,2} 6270 PAH	mg/kg	7.34±0.0809	0	0
Indeno(1,2,3-cd) pyrene ^{1,2} 6315 PAH	mg/kg	1.86±0.0057	0	0
2-Methylnaphthalene ^{1,2} 6385 PAH	mg/kg	11.06±0.0879	0	0
Phenanthrene ^{1,2} 6615 PAH	mg/kg	6.78±0.0657	0	0
Pyrene ^{1,2} 6665 PAH	mg/kg	6.78±0.0755	0	0

Diesel Range Organics (DRO) ^{1,2} 9369 Petroleum Hydrocarbons - Soil	mg/Kg	1400±13.6	0	0
Total EPH ² 6241 Petroleum Hydrocarbons - Soil	mg/kg	1400	0	0
EPH Aromatic C11-C22 ² 6232 Petroleum Hydrocarbons - Soil	mg/kg	385	0	0
C9-C18 Aliphatic Hydrocarbons ² 6222 Petroleum Hydrocarbons - Soil	mg/kg	420	0	0
Unadjusted C11-C22 Aromatic Hydrocarbons ^{1,2} 6234	mg/kg	420	0	0
EPH Aromatic C11-C22 ² 6232	mg/kg	385	0	0
EPH Aliphatic C19-C36 ² 6218	mg/kg	85.0	0	0
C9-C18 Aliphatic Hydrocarbons ² 6222	mg/kg	420	0	0
Naphthalene ^{1,2} 5005	mg/kg	5.18±0.0503	0	0
Acenaphthene ^{1,2} 5500	mg/kg	6.79±0.0694	0	0
Acenaphthylene ^{1,2} 5505	mg/kg	2.05±0.0199	0	0
Anthracene ^{1,2} 5555	mg/kg	0.679±0.0066	0	0
Benzo(a)anthracene ^{1,2} 5575	mg/kg	6.07±0.088	0	0
Benzo(a)pyrene ^{1,2} 5580	mg/kg	3.44±0.0625	0	0
Benzo(b)fluoranthene ^{1,2} 5585	mg/kg	0.818±0.0079	0	0
Benzo(g,h,i)perylene ^{1,2} 5590	mg/kg	5.75±0.0558	0	0
Benzo(k)fluoranthene ^{1,2} 5600	mg/kg	0.978±0.0095	0	0
Chrysene ^{1,2} 5855	mg/kg	4.21±0.0544	0	0
Dibenzo(a,h)anthracene ^{1,2} 5895	mg/kg	2.08±0.0202	0	0
Fluoranthene ^{1,2} 6265	mg/kg	5.81±0.0563	0	0
Fluorene ^{1,2} 6270	mg/kg	7.34±0.0809	0	0
Indeno(1,2,3-cd) pyrene ^{1,2} 6315	mg/kg	1.86±0.0057	0	0
2-Methylnaphthalene ^{1,2} 6385	mg/kg	11.06±0.0879	0	0
Phenanthrene ^{1,2} 6615	mg/kg	6.78±0.0657	0	0
Pyrene ^{1,2} 6665	mg/kg	6.78±0.0755	0	0

Diesel Range Organics (DRO) ^{1,2} 9369	mg/Kg	1400±13.6	0	0
Total EPH ² 6241	mg/kg	1400	0	0

NUTRIENTS IN SOIL - PT

SPE014-100G / Lot LRAB1201

Analytes	Units	Gravimetric Value	Study Mean	Study Std. Dev.
Ammonia as N ^{1,2} 1515 Nutrients	mg/Kg	1680±8.55	1460	174
Chemical oxygen demand (COD) ^{1,2} 1565 Miscellaneous Analytes	mg/kg	5970±30.5	10900	3740
Kjeldahl nitrogen, total (TKN) ^{1,2} 1795 Nutrients	mg/Kg	739±3.77	2440	499
Phosphorus as P, total ^{1,2} 1910 Nutrients	mg/Kg	1160±5.9	1250	216
Total organic carbon (TOC) ^{1,2} 2040 Miscellaneous Analytes	mg/kg	2370±12.1	5180	801
Loss on Ignition (550°C) ^{1,2} 41970 Miscellaneous Analytes	Wt%	6.20	0	0
Soil Type ² 2999 Miscellaneous Analytes		3.00	0	0
Chemical oxygen demand (COD) ^{1,2} 1565 Nutrients	mg/kg	5970±30.5	10900	3740
Total organic carbon (TOC) ^{1,2} 2040 Nutrients	mg/kg	2370±12.1	5180	801
Loss on Ignition (550°C) ^{1,2} 41970	Wt%	6.20	0	0
Soil Type ² 2999		3.00	0	0
Loss on Ignition (440°C) ² 31970 Nutrients	Wt%	1.80	0	0

Definitions and Interpretation of Statistical Analysis:

Assigned Value: Value attributed to a particular quantity and accepted, sometimes by convention, as having an uncertainty appropriate for a given purpose. See ISO/IEC 17043 for additional information. In general the assigned value is the value used to assess proficiency and may or may not be the made to value (gravimetric value).

Accept. Window: The range of values that constitute acceptable performance for a laboratory participating in this PT study.

Z: A Z-Score tells how a single data point compares to normal data. A Z-Score says not only whether a point was above or below average, but how unusual the measurement is. Generally, a method result with a Z-Score less than |2| is considered to be in control, a Z-Score between |2| and |3| is considered 'Questionable', but still within control and a Z greater than |3| is considered not acceptable and the method is out of control. For WS studies, a z-score greater than |2| is unacceptable. Calculated as **Z = (Reported Value - Assigned Value) / Proficiency Std. Dev.**

Proficiency Std. Dev.: Standard deviation calculated based on **Evaluation Criteria.**

Study Mean: Statistical study mean calculated using a robust statistical model (RTC employs the 'Biweight Program'). Robust statistical techniques to minimize the influence that extreme results can have on estimates of the mean and standard deviation. NOTE - These techniques assign less weight to extreme results, rather than eliminate them from a data set.

Study Std. Dev.: Standard deviation calculated from study data using robust statisticals (Biweight).

Gravimetric Value: The 'prepared to' value, determined by gravimetric means. The uncertainty associated to this value is standard uncertainty and based on RTC's gravimetric tolerances.

Evaluation Criteria:

1 - Regression Equation - Acceptance windows based on TNI adopted equation of proficiency value +/- 3 proficiency standard deviations and check limits of proficiency value +/- 2 proficiency standard deviations. Proficiency value and proficiency standard deviation are calculated from gravimetric variables a, b, c, & d as proficiency value = a * gravimetric + b and proficiency standard deviation = c * gravimetric + d.

2 - Study Robust Mean and c,d regression - Acceptance windows based on TNI adopted equation of proficiency value +/- 3 proficiency standard deviations and check limits of proficiency value +/- 2 proficiency standard deviations. Proficiency value and proficiency standard deviation calculated from robust study mean and variables c & d as proficiency value = robust mean and proficiency standard deviation = c * proficiency value + d.

3 - Fixed Limits - Acceptance windows based on span of gravimetric percentage from gravimetric as gravimetric +/- gravimetric * percentage.

4 - Adjustable Fixed Limits - Acceptance windows base on a span of gravimetric percentage from gravimetric as gravimetric +/- gravimetric * lowPercentage where gravimetric < break and gravimetric +/-

gravimetric * highPercentage where gravimetric >= break.

5 - Study Statistics - Acceptance windows based on a number of standard deviations span from the study mean as study mean +/- (deviations * standard deviation).

6 - Log Transform Statistics - Acceptance windows based on lognormal distributed data. Acceptance windows = mean(lognormal) +/- span * standard deviation(lognormal).

7 - Reserved

8 - Regression Equation 2SD - Acceptance windows based on EPA equation of proficiency value +/- 2 proficiency standard deviations. Proficiency value and proficiency standard deviation are calculated from gravimetric variables a, b, c, & d as proficiency value = a * gravimetric + b and proficiency standard deviation = c * gravimetric + d. Generally reserved for drinking water studies.

Proficiency Test Item Preparation, Homogeneity and Stability Assessment - RTC uses proprietary and published methods for the manufacture, homogeneity and stability testing of proficiency test items. RTC's proficiency test materials meet requirements of ISO Guide 34. For more information contact RTC. Additionally RTC complies with TNI Volume 3 'General Requirements for Environmental Proficiency Test Providers', EL-V3-2009, 2009 for all TNI Fields of Proficiency Testing analytes.

Metrological Traceability - All preparations are made using balances calibrated annually traceable to NIST standards. Where appropriate analytical measurements are traceable through an unbroken chain to NIST standards, or a Certified Reference Material manufactured under ISO Guide 34 in conjunction with ISO/IEC 17025.

Statistical Analysis - RTC uses robust statistics to calculate study means and standard deviations - Reference - Kafadar, K, A Biweight Approach to the One-Sample Problem, Journal of the American Statistical Association, Vol. 77, No. 378, June, 1982, pp. 416-424.

Additional Information - Go to www.pt.sigmainformatics.com for additional information on summary statistics for specific methods, advice on the interpretation of the statistical analysis, and additional comments/recommendations. If you failed an analyte it may be required to perform a corrective action and/or retest. RTC recommends that you contact your accreditation body for specific instruction.

Program analyte accrediting footnotes

¹ NELAC Compliant, covered by RTC's ANAB Proficiency Testing Provider accreditation, Cert. AP-1469

² ISO 17043 Accredited, covered by RTC's ANAB Proficiency Testing Provider accreditation, Cert AP-1469

Authorizing Officer:  _____

Date: 9/23/2016

Patrick Brumfield, ASQ CQA
QA Manager

This section of the report is for informational purposes only. If you are unsure about specific accreditation requirements, please contact your state coordinator.

UNACCEPTABLE ANALYTES

RTC Lab Code: **49670108**

SPE012-30G

CHROMIUM VI IN SOIL - PT

Analytes	MethodNumber	MethodName
Chromium VI, Cr(VI) ^{1,2}	10162400	EPA 7196A (1992)

SPE001-30G

Metals in Soil

Analytes	MethodNumber	MethodName
Strontium, Sr ^{1,2}	10155609	EPA 6010B (1996)
Strontium, Sr ^{1,2}	10156204	EPA 6020 (1994)

SPE002H-25G

VOAS IN SOIL - MEDIUM LEVEL - PT

Analytes	MethodNumber	MethodName
Dibromomethane ^{1,2}	10184802	EPA 8260B (1996)

PASS RATE

Number of Reported Results:	220
Number of Passing Results:	216
Pass Rate:	98.18%