


PERFORMANCE EVALUATION

First Choice for Quality | 

Quarterly Study
LPTP08-S1

RT1014
RTC Labcode

WY00002
US EPA Labcode

6-Feb-2008 through 21-Mar-2008

Energy Labs
Jim Yocum
PO Box 3258
Casper WY 82602

Thank you for participating in study LPTP08-S1. Additional information about this study may be found online at www.rt-corp.com you have any questions or comments about this study please contact me.

Sincerely,



Christopher Rucinski
Quality Director

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Dataset

LPTP08-S1 Set 1

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.

Accrediting Labcode 128640

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Accrediting Labcode T104704181-05-TX

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Accrediting Labcode WY00002

Utah Bureau of Laboratory Improvement

215 Kristin Brown
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Miscellaneous Analytes

Analysis
EPA 1010 (1986)
Auto Analyzer

Method Number 10116606
Technology Code: AUTO

	Result Units	Accept / Warn	Z	Evaluation
Ignitability (Flashpoint) 1.4 1780 / 029 - Lot 013068	188 °F	172 to 206 178 to 200	-0.18	Acceptable

Analysis
EPA 9045C 3 (1995)
Ion Selective Electrode

Method Number 10198400
Technology Code: ISE

	Result Units	Accept / Warn	Z	Evaluation
pH 1.4 1900 / 023 - Lot 013026	5.38 Units	5.28 to 6.48 5.48 to 6.28	-2.50	Acceptable

TCLP Metals

Analysis
EPA 6010 (1986)
Atomic Emission - Inductively Coupled Plasma Spectrometry

Method Number 10155201
Technology Code: ICP-AES

	Result Units	Accept / Warn	Z	Evaluation
Extraction Fluid 4 1311 / 005 - Lot 000718	1	1.00 to 1.00		Acceptable

Analysis
EPA 6010B (1996)
Atomic Emission - Inductively Coupled Plasma Spectrometry

Method Number 10155609
Technology Code: ICP-AES

	Result Units	Accept / Warn	Z	Evaluation
Arsenic, As 4 1010 / 005 - Lot 000718	2.82 mg/L	1.89 to 4.38	-0.76	Acceptable
Barium, Ba 4 1015 / 005 - Lot 000718	<10 mg/L	1.31 to 2.95		Acceptable
Cadmium, Cd 4 1030 / 005 - Lot 000718	13.8 mg/L	10.5 to 15.7	0.81	Acceptable
Chromium, Cr (total) 4 1040 / 005 - Lot 000718	<0.5 mg/L	0.00 to 0.977		Acceptable
Lead, Pb 4 1075 / 005 - Lot 000718	3.63 mg/L	0.915 to 8.83	-0.94	Acceptable
Selenium, Se 4 1140 / 005 - Lot 000718	7.05 mg/L	5.12 to 9.50 5.85 to 8.77	-0.35	Acceptable
Silver, Ag 4 1150 / 005 - Lot 000718	<0.5 mg/L	0 to 0.0507		Acceptable

Analysis
EPA 7470A 1 (1994)
Atomic Absorption - Cold Vapor Spectrometry

Method Number 10165807
Technology Code: CVAAS

	Result Units	Accept / Warn	Z	Evaluation
Mercury, Hg 4 1095 / 005 - Lot 000718	1.5 mg/L	0.00 to 2.89	0.21	Acceptable



Trace Metals

Analysis
EPA 6010 (1986)
Atomic Emission - Inductively Coupled Plasma Spectrometry

Method Number 10155201
Technology Code: ICP-AES

	Result Units	Accept / Warn	Z	Evaluation
Silicon, Si ⁴ 1145 / 001 - Lot 013023	2300 mg/Kg	0.00 to 2460	2.73	Acceptable

Analysis
EPA 6010B (1996)
Atomic Emission - Inductively Coupled Plasma Spectrometry

Method Number 10155609
Technology Code: ICP-AES

	Result Units	Accept / Warn	Z	Evaluation
Boron, B ^{4, 5} 1025 / 001 - Lot 013023	72 mg/Kg	57.4 to 105	-1.13	Acceptable
Calcium, Ca ^{1, 4} 1035 / 001 - Lot 013023	13000 mg/Kg	10500 to 18100	-1.03	Acceptable
Iron, Fe ^{1, 4} 1070 / 001 - Lot 013023	15000 mg/Kg	5600 to 24600 8770 to 21400	-0.03	Acceptable
Lithium, Li ⁴ 1080 / 001 - Lot 013023	140 mg/Kg	101 to 245	-1.39	Acceptable
Magnesium, Mg ^{1, 4} 1085 / 001 - Lot 013023	2900 mg/Kg	1920 to 3930 2260 to 3600	-0.08	Acceptable
Potassium, K ^{1, 4} 1125 / 001 - Lot 013023	4900 mg/Kg	2500 to 5230 2950 to 4770	2.28	Acceptable
Sodium, Na ^{1, 4} 1155 / 001 - Lot 013023	2000 mg/Kg	1320 to 2750 1560 to 2510	-0.15	Acceptable

Analysis
EPA 6020 (1994)
Mass Spectrometry - Inductively Coupled Plasma

Method Number 10156000
Technology Code: ICP-MS

	Result Units	Accept / Warn	Z	Evaluation
Bismuth, Bi ³ 205 / 001 - Lot 013023	<0.57 mg/Kg	0.0 to 0.0 0.0 to 0.0		Acceptable
Aluminum, Al ^{1, 4} 1000 / 001 - Lot 013023	20900 mg/Kg	2260 to 26700 3730 to 26700	9.60	Acceptable
Antimony, Sb ^{1, 4} 1005 / 001 - Lot 013023	18.9 mg/Kg	0.00 to 124 0.00 to 97.3	-0.89	Acceptable
Arsenic, As ^{1, 4} 1010 / 001 - Lot 013023	143 mg/Kg	90.6 to 168 104 to 155	1.06	Acceptable
Barium, Ba ^{1, 4} 1015 / 001 - Lot 013023	154 mg/Kg	91.9 to 163 104 to 151	2.26	Acceptable
Beryllium, Be ^{1, 4} 1020 / 001 - Lot 013023	38.2 mg/Kg	28.5 to 51.0 32.2 to 47.2	-0.41	Acceptable
Cadmium, Cd ^{1, 4} 1030 / 001 - Lot 013023	226 mg/Kg	154 to 266 173 to 247	0.86	Acceptable
Chromium, Cr (total) ^{1, 4} 1040 / 001 - Lot 013023	53.1 mg/Kg	36.8 to 72.4 42.8 to 66.5	-0.26	Acceptable
Cobalt, Co ^{1, 4} 1050 / 001 - Lot 013023	63.7 mg/Kg	49.9 to 84.4 55.7 to 78.6	-0.60	Acceptable
Copper, Cu ^{1, 4} 1055 / 001 - Lot 013023	81.9 mg/Kg	58.2 to 99.8 65.2 to 92.9	0.42	Acceptable

Trace Metals (continued)

Analysis
EPA 6020 (1994)
Mass Spectrometry - Inductively Coupled Plasma

(continued)
Method Number 10156000
Technology Code: ICP-MS

	Result Units	Accept / Warn	Z	Evaluation
Lead, Pb ^{1, 4} 1075 / 001 - Lot 013023	144 mg/Kg	96.9 to 170 109 to 157	0.89	Acceptable
Manganese, Mn ^{1, 4} 1090 / 001 - Lot 013023	169 mg/Kg	88.0 to 265	-0.25	Acceptable
Molybdenum, Mo ^{1, 4} 1100 / 001 - Lot 013023	84.2 mg/Kg	53.1 to 101 61.1 to 93.1	0.89	Acceptable
Nickel, Ni ^{1, 4} 1105 / 001 - Lot 013023	141 mg/Kg	91.8 to 160 103 to 149	1.33	Acceptable
Selenium, Se ^{1, 4} 1140 / 001 - Lot 013023	44.7 mg/Kg	20.5 to 55.5 26.3 to 49.7	1.15	Acceptable
Silver, Ag ^{1, 4} 1150 / 001 - Lot 013023	22.8 mg/Kg	13.6 to 29.0 16.2 to 26.5	0.57	Acceptable
Strontium, Sr ⁴ 1160 / 001 - Lot 013023	337 mg/Kg	233 to 424 265 to 392	0.27	Acceptable
Thallium, Tl ^{1, 4} 1165 / 001 - Lot 013023	46.3 mg/Kg	25.7 to 58.4 31.1 to 52.9	0.78	Acceptable
Tin, Sn ^{1, 4} 1175 / 001 - Lot 013023	183 mg/Kg	64.6 to 248	0.87	Acceptable
Titanium, Ti ⁴ 1180 / 001 - Lot 013023	153 mg/Kg	84.6 to 233	-0.23	Acceptable
Vanadium, V ^{1, 4} 1185 / 001 - Lot 013023	65.4 mg/Kg	37.1 to 92.8 46.4 to 83.6	0.05	Acceptable
Zinc, Zn ^{1, 4} 1190 / 001 - Lot 013023	760 mg/Kg	530 to 906 592 to 844	0.67	Acceptable
Uranium, U ⁴ 3035 / 071 - Lot 013025	352 mg/Kg	167 to 311 191 to 287	4.73	Not Acceptable

Analysis
EPA 7471A 1 (1994)
Atomic Absorption - Cold Vapor Spectrometry

Method Number 10166208
Technology Code: CVAAS

	Result Units	Accept / Warn	Z	Evaluation
Mercury, Hg ^{1, 4} 1095 / 001 - Lot 013023	31 mg/Kg	12.4 to 35.7 16.3 to 31.8	1.79	Acceptable

Volatiles - Low Level (Solids)

Analysis
EPA 8260B 2 (1996)
Gas Chromatography - Mass Spectrometry

Method Number 10184802
Technology Code: GC-MS

	Result Units	Accept / Warn	Z	Evaluation
Acetone ^{1, 4} 4315 / 002-L - Lot 013067	<20 µg/Kg	0.00 to 192		Acceptable
Acetonitrile ⁴ 4320 / 002-L - Lot 013067	<20 µg/Kg	0.0 to 0.0		Acceptable
Acrolein (Propenal) ⁴ 4325 / 002-L - Lot 013067	<20 µg/Kg	0.0 to 0.0		Acceptable

Volatiles - Low Level (Solids) (continued)

Analysis
EPA 8260B 2 (1996)
Gas Chromatography - Mass Spectrometry

(continued)
Method Number 10184802
Technology Code: GC-MS

	Result Units	Accept / Warn	Z	Evaluation
T-amylmethylether (TAME) ⁴ 4370 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0		Acceptable
Benzene ^{1, 4} 4375 / 002-L - Lot 013067	100 µg/Kg	58.1 to 134 70.7 to 121	0.32	Acceptable
Bromobenzene ^{4, 5} 4385 / 002-L - Lot 013067	200 µg/Kg	90.6 to 264	0.79	Acceptable
Bromodichloromethane ^{1, 4} 4395 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0 0.0 to 0.0		Acceptable
Bromoform ^{1, 4} 4400 / 002-L - Lot 013067	37 µg/Kg	21.7 to 65.8 29.1 to 58.5	-0.92	Acceptable
2-Butanone (Methyl ethyl ketone, MEK) ^{1, 4} 4410 / 002-L - Lot 013067	180 µg/Kg	0.00 to 764	-1.13	Acceptable
Carbon disulfide ⁴ 4450 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0		Acceptable
Carbon tetrachloride ^{1, 4} 4455 / 002-L - Lot 013067	98 µg/Kg	50.8 to 154 67.9 to 136	-0.24	Acceptable
Chlorobenzene ^{1, 4} 4475 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0 0.0 to 0.0		Acceptable
Chloroethane ^{4, 5} 4485 / 002-L - Lot 013067	140 µg/Kg	5.09 to 235	0.51	Acceptable
2-Chloroethyl vinyl ether ⁴ 4500 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0		Acceptable
Chloroform ^{1, 4} 4505 / 002-L - Lot 013067	170 µg/Kg	95.4 to 218 116 to 198	0.64	Acceptable
1,2-Dibromo-3-chloropropane (DBCP) ^{4, 5} 4570 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0		Acceptable
1,2-Dibromoethane (EDB, Ethylene dibromide) ^{4, 5} 4585 / 002-L - Lot 013067	51 µg/Kg	29.2 to 67.3	0.43	Acceptable
1,2-Dichlorobenzene ^{1, 4} 4610 / 002-L - Lot 013067	98 µg/Kg	41.3 to 122 54.8 to 109	1.21	Acceptable
1,3-Dichlorobenzene ^{1, 4} 4615 / 002-L - Lot 013067	35 µg/Kg	9.25 to 44.6 15.1 to 38.7	1.37	Acceptable
1,4-Dichlorobenzene ^{1, 4} 4620 / 002-L - Lot 013067	200 µg/Kg	58.5 to 241 88.9 to 211	1.65	Acceptable
Dichlorodifluoromethane ^{4, 5} 4625 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0		Acceptable
1,1-Dichloroethane ^{1, 4} 4630 / 002-L - Lot 013067	89 µg/Kg	55.8 to 142 70.2 to 128	-0.70	Acceptable
1,2-Dichloroethane ^{1, 4} 4635 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0 0.0 to 0.0		Acceptable
1,1-Dichloroethylene ^{4, 5} 4640 / 002-L - Lot 013067	96 µg/Kg	43.4 to 144	0.14	Acceptable
cis-1,2-Dichloroethylene ^{4, 5} 4645 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0		Acceptable
1,2-Dichloropropane ^{1, 4} 4655 / 002-L - Lot 013067	180 µg/Kg	100 to 229 122 to 208	0.70	Acceptable

Volatiles - Low Level (Solids) (continued)

Analysis
EPA 8260B 2 (1996)
Gas Chromatography - Mass Spectrometry

(continued)
Method Number 10184802
Technology Code: GC-MS

	Result Units	Accept / Warn	Z	Evaluation
cis-1,3-Dichloropropene ^{4, 5} 4680 / 002-L - Lot 013067	89 µg/Kg	52.1 to 125	0.06	Acceptable
trans-1,3-Dichloropropene ^{4, 5} 4685 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0		Acceptable
trans-1,2-Dichloroethylene ^{4, 5} 4700 / 002-L - Lot 013067	160 µg/Kg	73.7 to 231	0.30	Acceptable
Ethylbenzene ^{1, 4} 4765 / 002-L - Lot 013067	210 µg/Kg	106 to 268 133 to 241	0.85	Acceptable
Hexachlorobutadiene ^{1, 4} 4835 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0		Acceptable
2-Hexanone ^{4, 5} 4860 / 002-L - Lot 013067	230 µg/Kg	0.00 to 574	-0.57	Acceptable
Isopropylbenzene ^{4, 5} 4900 / 002-L - Lot 013067	150 µg/Kg	68.5 to 219	0.26	Acceptable
Methyl bromide (Bromomethane) ^{4, 5} 4950 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0		Acceptable
Methyl chloride (Chloromethane) ^{4, 5} 4960 / 002-L - Lot 013067	63 µg/Kg	23.3 to 93.5	0.39	Acceptable
Methylene chloride (Dichloromethane) ^{1, 4} 4975 / 002-L - Lot 013067	190 µg/Kg	83.8 to 257 113 to 229	0.67	Acceptable
4-Methyl-2-pentanone (MIBK) ^{1, 4} 4995 / 002-L - Lot 013067	170 µg/Kg	76.3 to 258 106 to 227	0.10	Acceptable
Methyl tert-butyl ether (MTBE) ^{1, 4} 5000 / 002-L - Lot 013067	85 µg/Kg	35.7 to 130 51.3 to 114	0.15	Acceptable
Naphthalene ^{1, 4} 5005 / 002-L - Lot 013067	81 µg/Kg	46.2 to 109	0.31	Acceptable
Styrene ^{4, 5} 5100 / 002-L - Lot 013067	47 µg/Kg	37.5 to 70.2	-1.26	Acceptable
1,1,1,2-Tetrachloroethane ^{1, 4} 5105 / 002-L - Lot 013067	170 µg/Kg	109 to 224 128 to 205	0.19	Acceptable
1,1,2,2-Tetrachloroethane ^{1, 4} 5110 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0 0.0 to 0.0		Acceptable
Tetrachloroethylene (Perchloroethylene) ^{1, 4} 5115 / 002-L - Lot 013067	75 µg/Kg	33.6 to 109 46.2 to 96.4	0.30	Acceptable
Toluene ^{1, 4} 5140 / 002-L - Lot 013067	78 µg/Kg	38.2 to 94.6 47.6 to 85.2	1.23	Acceptable
1,2,4-Trichlorobenzene ^{1, 4} 5155 / 002-L - Lot 013067	140 µg/Kg	79.6 to 185	0.44	Acceptable
1,1,1-Trichloroethane ^{1, 4} 5160 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0 0.0 to 0.0		Acceptable
1,1,2-Trichloroethane ^{1, 4} 5165 / 002-L - Lot 013067	180 µg/Kg	96.2 to 226 118 to 204	0.88	Acceptable
Trichloroethene (Trichloroethylene) ^{1, 4} 5170 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0 0.0 to 0.0		Acceptable
Trichlorofluoromethane ^{4, 5} 5175 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0		Acceptable



Volatiles - Low Level (Solids) (continued)

Analysis
EPA 8260B 2 (1996)
Gas Chromatography - Mass Spectrometry

(continued)
Method Number 10184802
Technology Code: GC-MS

	Result Units	Accept / Warn	Z	Evaluation
1,2,3-Trichloropropane 1, 4 5180 / 002-L - Lot 013067	50 µg/Kg	14.1 to 75.1	0.53	Acceptable
1,2,4-Trimethylbenzene 4 5210 / 002-L - Lot 013067	51 µg/Kg	29.4 to 64.9	0.65	Acceptable
1,3,5-Trimethylbenzene 4 5215 / 002-L - Lot 013067	110 µg/Kg	65.4 to 141	0.53	Acceptable
Vinyl acetate 4 5225 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0		Acceptable
Vinyl chloride 4, 5 5235 / 002-L - Lot 013067	110 µg/Kg	28.9 to 181	0.20	Acceptable
m+p-Xylene 4 5240 / 002-L - Lot 013067	110 µg/Kg	50.4 to 157 68.1 to 139	0.36	Acceptable
o-Xylene 4 5250 / 002-L - Lot 013067	54 µg/Kg	21.9 to 74.8 30.7 to 66.0	0.64	Acceptable
Xylene, total 1, 4 5260 / 002-L - Lot 013067	170 µg/Kg	83.2 to 251 111 to 223	0.11	Acceptable
Di-isopropylether (DIPE) 4 9375 / 002-L - Lot 013067	<2.0 µg/Kg	0.0 to 0.0		Acceptable

Group Analysis Summary
Acceptable 58 / 58
Score 100.0% - (Acceptable)

End of LPTP08-S1 Set 1



Dataset

LPTP08-S1 Set 2

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.

Accrediting Labcode 128640

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Texas CEQ

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Accrediting Labcode WY00002

Utah Bureau of Laboratory Improvement

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Trace Metals

Analysis
EPA 6010B (1996)
Atomic Emission - Inductively Coupled Plasma Spectrometry

Method Number 10155609
Technology Code: ICP-AES

	Result Units	Accept / Warn	Z	Evaluation
Aluminum, Al ^{1, 4} 1000 / 001 - Lot 013023	1900 mg/Kg	2260 to 26700 3730 to 26700	-3.24	Not Acceptable
Antimony, Sb ^{1, 4} 1005 / 001 - Lot 013023	16 mg/Kg	0.00 to 124 0.00 to 97.3	-1.00	Acceptable
Arsenic, As ^{1, 4} 1010 / 001 - Lot 013023	130 mg/Kg	90.6 to 168 104 to 155	0.05	Acceptable
Barium, Ba ^{1, 4} 1015 / 001 - Lot 013023	130 mg/Kg	91.9 to 163 104 to 151	0.22	Acceptable
Beryllium, Be ^{1, 4} 1020 / 001 - Lot 013023	36 mg/Kg	28.5 to 51.0 32.2 to 47.2	-0.99	Acceptable
Cadmium, Cd ^{1, 4} 1030 / 001 - Lot 013023	210 mg/Kg	154 to 266 173 to 247	0.00	Acceptable
Chromium, Cr (total) ^{1, 4} 1040 / 001 - Lot 013023	54 mg/Kg	36.8 to 72.4 42.8 to 66.5	-0.11	Acceptable
Cobalt, Co ^{1, 4} 1050 / 001 - Lot 013023	63 mg/Kg	49.9 to 84.4 55.7 to 78.6	-0.72	Acceptable
Copper, Cu ^{1, 4} 1055 / 001 - Lot 013023	70 mg/Kg	58.2 to 99.8 65.2 to 92.9	-1.30	Acceptable
Lead, Pb ^{1, 4} 1075 / 001 - Lot 013023	130 mg/Kg	96.9 to 170 109 to 157	-0.27	Acceptable
Manganese, Mn ^{1, 4} 1090 / 001 - Lot 013023	170 mg/Kg	88.0 to 265	-0.22	Acceptable
Molybdenum, Mo ^{1, 4} 1100 / 001 - Lot 013023	74 mg/Kg	53.1 to 101 61.1 to 93.1	-0.38	Acceptable
Nickel, Ni ^{1, 4} 1105 / 001 - Lot 013023	130 mg/Kg	91.8 to 160 103 to 149	0.36	Acceptable
Selenium, Se ^{1, 4} 1140 / 001 - Lot 013023	33 mg/Kg	20.5 to 55.5 26.3 to 49.7	-0.85	Acceptable
Silver, Ag ^{1, 4} 1150 / 001 - Lot 013023	20 mg/Kg	13.6 to 29.0 16.2 to 26.5	-0.51	Acceptable
Strontium, Sr ⁴ 1160 / 001 - Lot 013023	320 mg/Kg	233 to 424 265 to 392	-0.27	Acceptable
Thallium, Tl ^{1, 4} 1165 / 001 - Lot 013023	39 mg/Kg	25.7 to 58.4 31.1 to 52.9	-0.56	Acceptable
Tin, Sn ^{1, 4} 1175 / 001 - Lot 013023	180 mg/Kg	64.6 to 248	0.77	Acceptable
Titanium, Ti ⁴ 1180 / 001 - Lot 013023	150 mg/Kg	84.6 to 233	-0.35	Acceptable
Vanadium, V ^{1, 4} 1185 / 001 - Lot 013023	60 mg/Kg	37.1 to 92.8 46.4 to 83.6	-0.53	Acceptable
Zinc, Zn ^{1, 4} 1190 / 001 - Lot 013023	730 mg/Kg	530 to 906 592 to 844	0.19	Acceptable
Phosphorus, P ⁴ 1715 / 001 - Lot 013023	220 mg/Kg	105 to 309	0.39	Acceptable

End of LPTP08-S1 Set 2



Sample Information

Metals in Soil
SPE-001

Study Lot 013023
Mfg Lot 013023

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Aluminum, Al 1000 Trace Metals	mg/Kg	6,690.00	1,480.00	7,699.10	4,735.07	6,686.59	3,989.88	24300
Antimony, Sb 1005 Trace Metals	mg/Kg	43.13	27.08	43.13	21.96	43.13	25.46	83.5
Arsenic, As 1010 Trace Metals	mg/Kg	129.29	12.90	128.30	13.92	129.29	12.30	148
Barium, Ba 1015 Trace Metals	mg/Kg	127.34	11.82	132.47	30.90	127.34	11.86	129
Beryllium, Be 1020 Trace Metals	mg/Kg	39.73	3.75	39.39	4.07	39.73	4.04	42.3
Boron, B 1025 Trace Metals	mg/Kg	80.80	7.78	79.38	12.05	80.75	7.78	85.5
Cadmium, Cd 1030 Trace Metals	mg/Kg	209.95	18.62	208.96	14.89	209.95	14.98	254
Calcium, Ca 1035 Trace Metals	mg/Kg	14,300.00	1,260.00	15,068.7	5,462.36	14,321.7	1,160.40	14300
Chromium, Cr (total) 1040 Trace Metals	mg/Kg	54.64	5.94	54.12	4.44	54.64	3.27	61.0
Cobalt, Co 1050 Trace Metals	mg/Kg	67.14	5.74	66.89	5.43	67.14	5.76	87.1
Copper, Cu 1055 Trace Metals	mg/Kg	79.02	6.93	83.43	47.41	79.02	4.89	66.4
Iron, Fe 1070 Trace Metals	mg/Kg	15,098.10	3,164.41	14,489.8	3,027.91	15,098.1	2,026.50	16200
Lead, Pb 1075 Trace Metals	mg/Kg	133.25	12.10	130.38	16.76	133.25	9.72	132
Lithium, Li 1080 Trace Metals	mg/Kg	173.35	23.96	158.83	48.16	173.35	23.96	172
Magnesium, Mg 1085 Trace Metals	mg/Kg	2,925.81	334.63	3,028.26	749.97	2,925.81	272.93	2990
Manganese, Mn 1090 Trace Metals	mg/Kg	176.41	29.47	173.93	31.79	176.41	29.47	178
Mercury, Hg 1095 Trace Metals	mg/Kg	24.05	3.89	32.16	56.96	24.05	3.09	27.9
Molybdenum, Mo 1100 Trace Metals	mg/Kg	77.08	8.01	75.60	12.44	77.08	8.70	87.4
Nickel, Ni 1105 Trace Metals	mg/Kg	125.91	11.36	123.85	17.94	125.91	10.94	119
Potassium, K 1125 Trace Metals	mg/Kg	3,862.58	455.04	3,881.59	776.30	3,862.58	502.40	3860
Selenium, Se 1140 Trace Metals	mg/Kg	37.98	5.84	37.53	6.44	37.98	6.03	43.8
Silicon, Si 1145 Trace Metals	mg/Kg	734.61	574.45	1,038.08	950.66	734.61	574.45	779
Silver, Ag 1150 Trace Metals	mg/Kg	21.32	2.57	21.35	7.49	21.32	1.63	25.5
Sodium, Na 1155 Trace Metals	mg/Kg	2,035.11	239.74	2,026.79	288.85	2,035.11	280.59	1950
Strontium, Sr 1160 Trace Metals	mg/Kg	328.49	31.85	320.36	49.92	328.49	25.96	352
Thallium, Tl 1165 Trace Metals	mg/Kg	42.03	5.45	42.04	5.58	42.03	5.69	46.4
Tin, Sn 1175 Trace Metals	mg/Kg	156.43	30.63	148.48	37.23	156.43	30.63	183
Titanium, Ti 1180 Trace Metals	mg/Kg	158.64	24.68	156.35	44.25	158.64	24.68	150
Vanadium, V 1185 Trace Metals	mg/Kg	64.97	9.29	63.79	9.08	64.97	4.93	62.0
Zinc, Zn 1190 Trace Metals	mg/Kg	718.01	62.77	698.53	73.66	718.01	53.04	758
Phosphorus, P 1715 Trace Metals	mg/Kg	206.73	34.06	208.80	35.61	206.73	34.06	221
Bismuth, Bi 205 Trace Metals	mg/Kg	0.00	0.00					



Volatiles on Soil - Low Level

SPE-002-L

Study Lot 013067

Mfg Lot 013067

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Acetone 4315 Volatiles - Low Level (Solids)	µg/Kg	68.61	41.27	72.35	39.43	68.61	41.27	170
Acetonitrile 4320 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
Acrolein (Propenal) 4325 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
T-amylmethylether (TAME) 4370 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
Benzene 4375 Volatiles - Low Level (Solids)	µg/Kg	95.94	12.62	95.82	12.75	96.32	12.31	97.5
Bromobenzene 4385 Volatiles - Low Level (Solids)	µg/Kg	177.09	28.84	183.46	35.07	177.09	28.84	179
Bromodichloromethane 4395 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
Bromoform 4400 Volatiles - Low Level (Solids)	µg/Kg	43.79	7.35	44.89	8.63	44.91	6.54	44.2
2-Butanone (Methyl ethyl ketone, MEK) 4410 Volatiles - Low Level (Solids)	µg/Kg	339.84	141.32	345.70	125.16	339.84	141.32	269
Carbon disulfide 4450 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
Carbon tetrachloride 4455 Volatiles - Low Level (Solids)	µg/Kg	102.15	17.13	94.53	16.55	94.88	18.41	104
Chlorobenzene 4475 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
Chloroethane 4485 Volatiles - Low Level (Solids)	µg/Kg	120.24	38.38	117.16	37.49	120.24	38.38	126
2-Chloroethyl vinyl ether 4500 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
Chloroform 4505 Volatiles - Low Level (Solids)	µg/Kg	156.92	20.50	148.69	19.89	149.40	21.08	157
1,2-Dibromo-3-chloropropane (DBCP) 4570 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
1,2-Dibromoethane (EDB, Ethylene dibromide) 4585 Volatiles - Low Level (Solids)	µg/Kg	48.24	6.36	48.00	5.85	48.24	6.36	50.0
1,2-Dichlorobenzene 4610 Volatiles - Low Level (Solids)	µg/Kg	81.72	13.47	89.78	15.43	88.60	13.14	86.2
1,3-Dichlorobenzene 4615 Volatiles - Low Level (Solids)	µg/Kg	26.92	5.89	32.35	9.02	30.63	4.53	30.1
1,4-Dichlorobenzene 4620 Volatiles - Low Level (Solids)	µg/Kg	149.76	30.41	167.93	21.13	170.63	19.79	170
Dichlorodifluoromethane 4625 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
1,1-Dichloroethane 4630 Volatiles - Low Level (Solids)	µg/Kg	99.12	14.45	92.34	14.19	92.16	14.98	98.6
1,2-Dichloroethane 4635 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
1,1-Dichloroethylene 4640 Volatiles - Low Level (Solids)	µg/Kg	93.73	16.77	91.15	19.98	93.73	16.77	101
cis-1,2-Dichloroethylene 4645 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
1,2-Dichloropropane 4655 Volatiles - Low Level (Solids)	µg/Kg	164.94	21.49	164.14	19.11	162.70	16.98	172
cis-1,3-Dichloropropene 4680 Volatiles - Low Level (Solids)	µg/Kg	88.33	12.08	87.64	11.18	88.33	12.08	102
trans-1,3-Dichloropropene 4685 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
trans-1,2-Dichloroethylene 4700 Volatiles - Low Level (Solids)	µg/Kg	152.10	26.14	151.82	23.08	152.10	26.14	170
Ethylbenzene 4765 Volatiles - Low Level (Solids)	µg/Kg	187.18	26.92	188.81	27.60	189.88	23.25	189
Hexachlorobutadiene 4835 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
2-Hexanone 4860 Volatiles - Low Level (Solids)	µg/Kg	285.30	96.19	283.36	104.26	285.30	96.19	236
Isopropylbenzene 4900 Volatiles - Low Level (Solids)	µg/Kg	143.58	25.02	143.68	22.86	143.58	25.02	132
Methyl bromide (Bromomethane) 4950 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00



Volatiles on Soil - Low Level

Study Lot 013067

SPE-002-L

Mfg Lot 013067

(continued)

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Methyl chloride (Chloromethane) 4960 Volatiles - Low Level (Solids)	µg/Kg	58.38	11.69	55.80	13.63	58.38	11.69	142
Methylene chloride (Dichloromethane) 4975 Volatiles - Low Level (Solids)	µg/Kg	170.64	28.95	151.67	29.91	152.58	30.01	179
4-Methyl-2-pentanone (MIBK) 4995 Volatiles - Low Level (Solids)	µg/Kg	166.92	30.21	189.10	45.76	179.50	38.06	176
Methyl tert-butyl ether (MTBE) 5000 Volatiles - Low Level (Solids)	µg/Kg	82.71	15.69	79.56	16.93	85.70	9.68	85.2
Naphthalene 5005 Volatiles - Low Level (Solids)	µg/Kg	77.72	10.51	74.18	14.64	77.72	10.51	84.9
Styrene 5100 Volatiles - Low Level (Solids)	µg/Kg	53.86	5.45	51.32	11.42	53.86	5.45	51.0
1,1,1,2-Tetrachloroethane 5105 Volatiles - Low Level (Solids)	µg/Kg	166.27	19.23	168.71	24.61	165.67	11.23	166
1,1,2,2-Tetrachloroethane 5110 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
Tetrachloroethylene (Perchloroethylene) 5115 Volatiles - Low Level (Solids)	µg/Kg	71.29	12.56	74.26	11.18	73.98	11.42	75.5
Toluene 5140 Volatiles - Low Level (Solids)	µg/Kg	66.43	9.40	67.45	8.03	67.67	8.25	67.1
1,2,4-Trichlorobenzene 5155 Volatiles - Low Level (Solids)	µg/Kg	132.34	17.59	130.54	17.93	132.34	17.59	136
1,1,1-Trichloroethane 5160 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
1,1,2-Trichloroethane 5165 Volatiles - Low Level (Solids)	µg/Kg	160.93	21.58	164.25	22.44	163.98	23.40	165
Trichloroethene (Trichloroethylene) 5170 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
Trichlorofluoromethane 5175 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
1,2,3-Trichloropropane 5180 Volatiles - Low Level (Solids)	µg/Kg	44.61	10.17	44.09	8.92	44.61	10.17	46.2
1,2,4-Trimethylbenzene 5210 Volatiles - Low Level (Solids)	µg/Kg	47.16	5.91	47.37	5.72	47.16	5.91	46.1
1,3,5-Trimethylbenzene 5215 Volatiles - Low Level (Solids)	µg/Kg	103.33	12.65	91.30	33.66	103.33	12.65	100
Vinyl acetate 5225 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
Vinyl chloride 5235 Volatiles - Low Level (Solids)	µg/Kg	104.88	25.34	104.64	23.27	104.88	25.34	128
m+p-Xylene 5240 Volatiles - Low Level (Solids)	µg/Kg	103.58	17.73	93.22	31.75	108.45	9.43	105
o-Xylene 5250 Volatiles - Low Level (Solids)	µg/Kg	48.35	8.82	52.02	6.08	52.31	6.75	48.4
Xylene, total 5260 Volatiles - Low Level (Solids)	µg/Kg	167.02	27.95	152.84	25.84	161.37	17.42	170
Di-isopropylether (DIPE) 9375 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00

TCLP Metals in Soil

Study Lot 000718

SPE-005

Mfg Lot 000718

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Arsenic, As 1010 TCLP Metals	mg/L	3.14	0.41	3.16	0.41	3.14	0.41	3.20
Barium, Ba 1015 TCLP Metals	mg/L	2.13	0.27	2.12	0.27	2.13	0.18	2.30
Cadmium, Cd 1030 TCLP Metals	mg/L	13.10	0.86	13.07	1.18	13.06	0.56	13.0
Chromium, Cr (total) 1040 TCLP Metals	mg/L	0.28	0.10	0.39	0.24	0.28	0.10	0.888
Lead, Pb 1075 TCLP Metals	mg/L	4.87	1.32	4.93	1.26	4.87	1.32	5.20
Mercury, Hg 1095 TCLP Metals	mg/L	1.40	0.50	1.41	0.45	1.40	0.50	1.60
Selenium, Se 1140 TCLP Metals	mg/L	7.31	0.73	7.73	0.91	7.31	0.51	7.80



TCLP Metals in Soil

SPE-005

Study Lot 000718

Mfg Lot 000718

(continued)

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Silver, Ag 1150 TCLP Metals	mg/L	0.03	0.01	0.03	0.01	0.03	0.01	0.0350
Extraction Fluid 1311 TCLP Metals		1.00	0.00					1.00

Corrosivity - Soil

SPE-023

Study Lot 013026

Mfg Lot 013026

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
pH 1900 Miscellaneous Analytes	Units	5.88	0.20	5.85	0.27	5.83	0.28	5.88

Flash Point

SPE-029

Study Lot 013068

Mfg Lot 013068

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Ignitability (Flashpoint) 1780 Miscellaneous Analytes	°F	189.00	5.67	188.99	5.56	189.08	7.90	189

Uranium in Soil

SPE-071

Study Lot 013025

Mfg Lot 013025

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Uranium, U 3035 Trace Metals	mg/Kg	239.00	23.90	252.25	67.44	219.18	20.55	239

Program analyte accrediting footnotes

1 NELAC


3 Other

5 NELAC Experimental

2 EPA

4 A2LA

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Quarterly Study
LPTP08-S3

RT1014
RTC Labcode

WY00002
US EPA Labcode

30-Jul-2008 through 12-Sep-2008

Energy Labs
Jim Yocum
PO Box 3258
Casper WY 82602

Thank you for participating in study LPTP08-S3. Additional information about this study may be found online at www.rt-corp.co
If you have any questions or comments about this study please contact me.

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Sincerely,



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Quality Director

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Dataset

LPTP08-S3 Set 1

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.

Accrediting Labcode WY00002

Florida Dept. of Health

229 Stephen Arms
PO Box 210
1217 Pearl Street
Jacksonville FL 32231
UNITED STATES

Accrediting Labcode WY00002

Nebraska Health and Human Services System
Department of Regulation & Licensure

504 Sandra Irons
State Certification Officer
3701 S. 14th Street
Lincoln NE 68502
UNITED STATES

Accrediting Labcode WY00002

Nevada Division of Env. Protection

118 Donald Lafara
901 S. Stewart Street
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Carson City NV 89701-5249
UNITED STATES

Accrediting Labcode T104704181-05-TX

Texas CEQ

384 Frank Jamison
Quality Assurance/Laboratory Accreditation
PO Box 13087 (MC-176)
Austin TX 78711-3087
UNITED STATES

Accrediting Labcode WY00002

Utah Bureau of Laboratory Improvement

215 Kristin Brown
46 N. Medical Drive
Salt Lake City UT 84113-1105
UNITED STATES

Miscellaneous Analytes

Analysis
EPA 1010 (1986)
Auto Analyzer

Method Number 10116606
Technology Code: AUTO

	ResultUnits	Accept / Warn	Z	Evaluation
Ignitability (Flashpoint, °F) 1.4 1780 / 029 - Lot 013616	138°F	130 to 164 136 to 158	-1.59	Acceptable



Miscellaneous Analytes (continued)

Analysis
EPA 9045C 3 (1995)
Ion Selective Electrode

Method Number 10198400
Technology Code: ISE

	ResultUnits	Accept / Warn	Z	Evaluation
pH 1.4 1900 / 023 - Lot 013535	6.38Units	5.90 to 7.10 6.10 to 6.90	-0.60	Acceptable

TCLP Metals

Analysis
EPA 6010 (1986)
Atomic Emission - Inductively Coupled Plasma Spectrometry

Method Number 10155201
Technology Code: ICP-AES

	ResultUnits	Accept / Warn	Z	Evaluation
Extraction Fluid 4 1311 / 005 - Lot 000962	Fluid #1	2.00 to 2.00		Not Acceptable

Analysis
EPA 6010B (1996)
Atomic Emission - Inductively Coupled Plasma Spectrometry

Method Number 10155609
Technology Code: ICP-AES

	ResultUnits	Accept / Warn	Z	Evaluation
Arsenic, As 4 1010 / 005 - Lot 000962	3.1mg/L	1.28 to 9.46	-1.67	Acceptable
Barium, Ba 4 1015 / 005 - Lot 000962	20mg/L	12.3 to 26.1	0.35	Acceptable
Cadmium, Cd 4 1030 / 005 - Lot 000962	26mg/L	14.1 to 84.2	-1.97	Acceptable
Chromium, Cr (total) 4 1040 / 005 - Lot 000962	1.0mg/L	0.00 to 4.30	-0.74	Acceptable
Lead, Pb 4 1075 / 005 - Lot 000962	<0.5mg/L	0.00 to 4.64		Acceptable
Selenium, Se 4 1140 / 005 - Lot 000962	1.2mg/L	1.32 to 2.33	-3.69	Not Acceptable
Silver, Ag 4 1150 / 005 - Lot 000962	<0.5mg/L	0.00 to 0.5		Acceptable

Analysis
EPA 7470A 1 (1994)
Atomic Absorption - Cold Vapor Spectrometry

Method Number 10165807
Technology Code: CVAAS

	ResultUnits	Accept / Warn	Z	Evaluation
Mercury, Hg 4 1095 / 005 - Lot 000962	2.2mg/L	0.128 to 2.79	1.67	Acceptable

Trace Metals

Analysis
EPA 6020 (1994)
Mass Spectrometry - Inductively Coupled Plasma

Method Number 10156000
Technology Code: ICP-MS



Trace Metals (continued)

Analysis	ResultUnits	Accept / Warn	Z	Evaluation
EPA 6020 (1994) Mass Spectrometry - Inductively Coupled Plasma				(continued) Method Number 10156000 Technology Code: ICP-MS
Aluminum, Al ^{1, 4} 1000 / 001 - Lot 013545	12600mg/Kg	1370 to 29600	0.15	Acceptable
Antimony, Sb ^{1, 4} 1005 / 001 - Lot 013545	41.8mg/Kg	0.00 to 170 0.00 to 134	-0.59	Acceptable
Arsenic, As ^{1, 4} 1010 / 001 - Lot 013545	136mg/Kg	92.4 to 171 105 to 158	0.31	Acceptable
Barium, Ba ^{1, 4} 1015 / 001 - Lot 013545	562mg/Kg	366 to 617 408 to 575	1.67	Acceptable
Beryllium, Be ^{1, 4} 1020 / 001 - Lot 013545	203mg/Kg	163 to 267 180 to 250	-0.69	Acceptable
Boron, B ^{4, 5} 1025 / 001 - Lot 013545	157mg/Kg	90.3 to 188	1.10	Acceptable
Cadmium, Cd ^{1, 4} 1030 / 001 - Lot 013545	61.2mg/Kg	41.4 to 71.9 46.5 to 66.8	0.91	Acceptable
Chromium, Cr (total) ^{1, 4} 1040 / 001 - Lot 013545	334mg/Kg	214 to 388 243 to 359	1.14	Acceptable
Cobalt, Co ^{1, 4} 1050 / 001 - Lot 013545	124mg/Kg	80.5 to 136 89.7 to 127	1.73	Acceptable
Copper, Cu ^{1, 4} 1055 / 001 - Lot 013545	65.7mg/Kg	44.4 to 77.7 50.0 to 72.1	0.83	Acceptable
Lead, Pb ^{1, 4} 1075 / 001 - Lot 013545	355mg/Kg	238 to 389 263 to 364	1.63	Acceptable
Manganese, Mn ^{1, 4} 1090 / 001 - Lot 013545	727mg/Kg	324 to 984	0.66	Acceptable
Molybdenum, Mo ^{1, 4} 1100 / 001 - Lot 013545	75.5mg/Kg	45.8 to 89.2 52.9 to 89.2	1.17	Acceptable
Nickel, Ni ^{1, 4} 1105 / 001 - Lot 013545	220mg/Kg	147 to 252 165 to 234	1.21	Acceptable
Selenium, Se ^{1, 4} 1140 / 001 - Lot 013545	312mg/Kg	212 to 397 243 to 366	0.26	Acceptable
Silver, Ag ^{1, 4} 1150 / 001 - Lot 013545	100mg/Kg	54.7 to 108 63.5 to 98.9	2.13	Acceptable
Strontium, Sr ⁴ 1160 / 001 - Lot 013545	139mg/Kg	14.1 to 234	0.41	Acceptable
Thallium, Tl ^{1, 4} 1165 / 001 - Lot 013545	88.5mg/Kg	46.6 to 96.3 54.9 to 88.0	2.07	Acceptable
Tin, Sn ^{1, 4} 1175 / 001 - Lot 013545	123mg/Kg	52.4 to 162	0.87	Acceptable
Titanium, Ti ⁴ 1180 / 001 - Lot 013545	262mg/Kg	100 to 466	-0.27	Acceptable
Vanadium, V ^{1, 4} 1185 / 001 - Lot 013545	348mg/Kg	239 to 388 264 to 363	1.37	Acceptable



Trace Metals (continued)

Analysis
EPA 6020 (1994)
Mass Spectrometry - Inductively Coupled Plasma

(continued)
Method Number 10156000
Technology Code: ICP-MS

	ResultUnits	Accept / Warn	Z	Evaluation
Zinc, Zn ^{1, 4} 1190 / 001 - Lot 013545	257mg/Kg	179 to 326 203 to 301	0.20	Acceptable
Uranium, U ⁴ 3035 / 071 - Lot 013547	204mg/Kg	138 to 256 158 to 236	0.36	Acceptable

Analysis
EPA 7471A 1 (1994)
Atomic Absorption - Cold Vapor Spectrometry

Method Number 10166208
Technology Code: CVAAS

	ResultUnits	Accept / Warn	Z	Evaluation
Mercury, Hg ^{1, 4} 1095 / 001 - Lot 013545	20mg/Kg	12.8 to 37.1 16.9 to 33.0	-1.24	Acceptable

Volatiles - Low Level (Solids)

Analysis
EPA 8260B 2 (1996)
Gas Chromatography - Mass Spectrometry

Method Number 10184802
Technology Code: GC-MS

	ResultUnits	Accept / Warn	Z	Evaluation
Acetone ^{1, 4} 4315 / 002-L - Lot 013612	1600µg/Kg	0.00 to 1060	5.39	Not Acceptable
Acetonitrile ⁴ 4320 / 002-L - Lot 013612	<20µg/Kg	0.00 to 40		Acceptable
Acrolein (Propenal) ⁴ 4325 / 002-L - Lot 013612	<20µg/Kg	0.0 to 0.0		Acceptable
T-amylmethylether (TAME) ⁴ 4370 / 002-L - Lot 013612	<2.0µg/Kg	0.0 to 0.0		Acceptable
Benzene ^{1, 4} 4375 / 002-L - Lot 013612	62µg/Kg	42.1 to 99.0 51.6 to 89.5	-0.90	Acceptable
Bromobenzene ^{4, 5} 4385 / 002-L - Lot 013612	57µg/Kg	25.1 to 72.5	1.04	Acceptable
Bromodichloromethane ^{1, 4} 4395 / 002-L - Lot 013612	77µg/Kg	54.3 to 118 64.8 to 107	-0.85	Acceptable
Bromoform ^{1, 4} 4400 / 002-L - Lot 013612	<2.0µg/Kg	0.0 to 0.0 0.0 to 0.0		Acceptable
2-Butanone (Methyl ethyl ketone, MEK) ^{1, 4} 4410 / 002-L - Lot 013612	250µg/Kg	18.6 to 579	0.03	Acceptable
Carbon disulfide ⁴ 4450 / 002-L - Lot 013612	<2.0µg/Kg	0.0 to 0.0		Acceptable
Carbon tetrachloride ^{1, 4} 4455 / 002-L - Lot 013612	140µg/Kg	77.5 to 234 104 to 208	-0.61	Acceptable
Chlorobenzene ^{1, 4} 4475 / 002-L - Lot 013612	180µg/Kg	73.4 to 180 91.1 to 162	2.99	Acceptable

Volatiles - Low Level (Solids) (continued)

Analysis
EPA 8260B 2 (1996)
Gas Chromatography - Mass Spectrometry

(continued)
Method Number 10184802
Technology Code: GC-MS

	ResultUnits	Accept / Warn	Z	Evaluation
Chloroethane 4, 5 4485 / 002-L - Lot 013612	<2.0µg/Kg	0.0 to 0.0		Acceptable
Chloroform 1, 4 4505 / 002-L - Lot 013612	54µg/Kg	27.9 to 66.8 34.4 to 60.3	1.02	Acceptable
1,2-Dibromo-3-chloropropane (DBCP) 4, 5 4570 / 002-L - Lot 013612	56µg/Kg	30.9 to 121	-1.32	Acceptable
Dibromochloromethane 1, 4 4575 / 002-L - Lot 013612	42µg/Kg	31.1 to 75.2 38.4 to 67.9	-1.52	Acceptable
1,2-Dibromoethane (EDB, Ethylene dibromide) 4, 5 4585 / 002-L - Lot 013612	110µg/Kg	52.6 to 157	0.29	Acceptable
Dibromomethane 4 4595 / 002-L - Lot 013612	150µg/Kg	68.3 to 245	-0.24	Acceptable
1,2-Dichlorobenzene 1, 4 4610 / 002-L - Lot 013612	240µg/Kg	90.7 to 264 120 to 235	2.19	Acceptable
1,3-Dichlorobenzene 1, 4 4615 / 002-L - Lot 013612	230µg/Kg	68.4 to 257 99.8 to 226	2.13	Acceptable
1,4-Dichlorobenzene 1, 4 4620 / 002-L - Lot 013612	91µg/Kg	22.4 to 91.9 34.0 to 80.3	2.92	Acceptable
Dichlorodifluoromethane 4, 5 4625 / 002-L - Lot 013612	<2.0µg/Kg	0.0 to 0.0		Acceptable
1,1-Dichloroethane 1, 4 4630 / 002-L - Lot 013612	51µg/Kg	25.8 to 67.6 32.7 to 60.6	0.62	Acceptable
1,2-Dichloroethane 1, 4 4635 / 002-L - Lot 013612	190µg/Kg	96.5 to 231 119 to 208	1.16	Acceptable
1,1-Dichloroethylene 4, 5 4640 / 002-L - Lot 013612	<2.0µg/Kg	0.0 to 0.0		Acceptable
cis-1,2-Dichloroethylene 4, 5 4645 / 002-L - Lot 013612	170µg/Kg	73.9 to 232	0.64	Acceptable
1,2-Dichloropropane 1, 4 4655 / 002-L - Lot 013612	190µg/Kg	99.9 to 228 121 to 207	1.21	Acceptable
cis-1,3-Dichloropropene 4, 5 4680 / 002-L - Lot 013612	<2.0µg/Kg	0.0 to 0.0		Acceptable
trans-1,3-Dichloropropene 4, 5 4685 / 002-L - Lot 013612	170µg/Kg	101 to 231	0.18	Acceptable
trans-1,2-Dichloroethylene 4, 5 4700 / 002-L - Lot 013612	76µg/Kg	37.3 to 117	-0.07	Acceptable
Ethylbenzene 1, 4 4765 / 002-L - Lot 013612	78µg/Kg	37.0 to 99.0 47.4 to 88.7	0.97	Acceptable
Hexachlorobutadiene 1, 4 4835 / 002-L - Lot 013612	<2.0µg/Kg	0.0 to 0.0 0.0 to 0.0		Acceptable
2-Hexanone 4, 5 4860 / 002-L - Lot 013612	290µg/Kg	17.8 to 614	-0.26	Acceptable

Volatiles - Low Level (Solids) (continued)

Analysis
EPA 8260B 2 (1996)
Gas Chromatography - Mass Spectrometry

(continued)
Method Number 10184802
Technology Code: GC-MS

	ResultUnits	Accept / Warn	Z	Evaluation
Isopropylbenzene ^{4, 5} 4900 / 002-L - Lot 013612	130µg/Kg	73.9 to 173	0.36	Acceptable
Methyl bromide (Bromomethane) ^{4, 5} 4950 / 002-L - Lot 013612	54µg/Kg	3.58 to 166	-1.14	Acceptable
Methyl chloride (Chloromethane) ^{4, 5} 4960 / 002-L - Lot 013612	82µg/Kg	40.4 to 209	-1.53	Acceptable
Methylene chloride (Dichloromethane) ^{1, 4} 4975 / 002-L - Lot 013612	<2.0µg/Kg	0.0 to 0.0 0.0 to 0.0		Acceptable
4-Methyl-2-pentanone (MIBK) ^{1, 4} 4995 / 002-L - Lot 013612	89µg/Kg	60.6 to 209 85.4 to 185	-1.85	Acceptable
Methyl tert-butyl ether (MTBE) ^{1, 4} 5000 / 002-L - Lot 013612	14µg/Kg	15.2 to 62.5 23.1 to 54.6	-3.16	Not Acceptable
Naphthalene ^{1, 4} 5005 / 002-L - Lot 013612	83µg/Kg	61.6 to 168	-1.80	Acceptable
Styrene ^{4, 5} 5100 / 002-L - Lot 013612	210µg/Kg	104 to 236	1.81	Acceptable
1,1,1,2-Tetrachloroethane ^{1, 4} 5105 / 002-L - Lot 013612	47µg/Kg	31.8 to 70.0 38.2 to 63.6	-0.61	Acceptable
1,1,2,2-Tetrachloroethane ^{1, 4} 5110 / 002-L - Lot 013612	110µg/Kg	51.5 to 146 67.3 to 130	0.71	Acceptable
Tetrachloroethylene (Perchloroethylene) ^{1, 4} 5115 / 002-L - Lot 013612	<2.0µg/Kg	0.0 to 0.0 0.0 to 0.0		Acceptable
Toluene ^{1, 4} 5140 / 002-L - Lot 013612	160µg/Kg	83.0 to 202 103 to 182	0.85	Acceptable
1,2,4-Trichlorobenzene ^{1, 4} 5155 / 002-L - Lot 013612	75µg/Kg	25.6 to 127	-0.08	Acceptable
1,1,1-Trichloroethane ^{1, 4} 5160 / 002-L - Lot 013612	93µg/Kg	51.8 to 132 65.2 to 119	0.08	Acceptable
1,1,2-Trichloroethane ^{1, 4} 5165 / 002-L - Lot 013612	160µg/Kg	76.7 to 180 93.9 to 163	1.86	Acceptable
Trichloroethene (Trichloroethylene) ^{1, 4} 5170 / 002-L - Lot 013612	150µg/Kg	62.7 to 174 81.2 to 155	1.73	Acceptable
Trichlorofluoromethane ^{4, 5} 5175 / 002-L - Lot 013612	150µg/Kg	60.6 to 182	1.44	Acceptable
1,2,3-Trichloropropane ^{1, 4} 5180 / 002-L - Lot 013612	<2.0µg/Kg	0.0 to 0.0		Acceptable
1,2,4-Trimethylbenzene ⁴ 5210 / 002-L - Lot 013612	40µg/Kg	25.3 to 68.0	-0.93	Acceptable
1,3,5-Trimethylbenzene ⁴ 5215 / 002-L - Lot 013612	37µg/Kg	21.3 to 61.4	-0.64	Acceptable
Vinyl acetate ⁴ 5225 / 002-L - Lot 013612	<2.0µg/Kg	0.0 to 0.0		Acceptable



Volatiles - Low Level (Solids) (continued)

Analysis
EPA 8260B 2 (1996)
Gas Chromatography - Mass Spectrometry

(continued)
Method Number 10184802
Technology Code: GC-MS

	ResultUnits	Accept / Warn	Z	Evaluation
Vinyl chloride ^{4, 5} 5235 / 002-L - Lot 013612	37µg/Kg	19.2 to 110	-1.82	Acceptable
m+p-Xylene ⁴ 5240 / 002-L - Lot 013612	140µg/Kg	61.0 to 187 82.0 to 166	0.76	Acceptable
o-Xylene ⁴ 5250 / 002-L - Lot 013612	86µg/Kg	30.0 to 98.3 41.4 to 86.9	1.91	Acceptable
Xylene, total ^{1, 4} 5260 / 002-L - Lot 013612	226µg/Kg	93.2 to 280 124 to 249	1.25	Acceptable
Di-isopropylether (DIPE) ⁴ 9375 / 002-L - Lot 013612	<2.0µg/Kg	0.0 to 0.0		Acceptable

Group Analysis Summary

Acceptable 57 / 59
Score 96.6% - (Acceptable)

End of LPTP08-S3 Set 1



Dataset

LPTP08-S3 Set 2

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.

Accrediting Labcode WY00002

Florida Dept. of Health

229 Stephen Arms
PO Box 210
1217 Pearl Street
Jacksonville FL 32231
UNITED STATES

Accrediting Labcode WY00002

Nebraska Health and Human Services System
Department of Regulation & Licensure

504 Sandra Irons
State Certification Officer
3701 S. 14th Street
Lincoln NE 68502
UNITED STATES

Accrediting Labcode WY00002

Nevada Division of Env. Protection

118 Donald Lafara
901 S. Stewart Street
Ste. 4001
Carson City NV 89701-5249
UNITED STATES

Accrediting Labcode T104704181-05-TX

Texas CEQ

384 Frank Jamison
Quality Assurance/Laboratory Accreditation
PO Box 13087 (MC-176)
Austin TX 78711-3087
UNITED STATES

Accrediting Labcode WY00002

Utah Bureau of Laboratory Improvement

215 Kristin Brown
46 N. Medical Drive
Salt Lake City UT 84113-1105
UNITED STATES

Trace Metals

Analysis
EPA 6010B (1996)
Atomic Emission - Inductively Coupled Plasma Spectrometry

Method Number 10155609
Technology Code: ICP-AES

	ResultUnits	Accept / Warn	Z	Evaluation
Aluminum, Al 1, 4 1000 / 001 - Lot 013545	12900mg/Kg	1370 to 29600	0.20	Acceptable



Trace Metals (continued)

Analysis
EPA 6010B (1996)
Atomic Emission - Inductively Coupled Plasma Spectrometry

(continued)
Method Number 10155609
Technology Code: ICP-AES

	ResultUnits	Accept / Warn	Z	Evaluation
Arsenic, As ^{1, 4} 1010 / 001 - Lot 013545	131mg/Kg	92.4 to 171 105 to 158	-0.08	Acceptable
Barium, Ba ^{1, 4} 1015 / 001 - Lot 013545	507mg/Kg	366 to 617 408 to 575	0.36	Acceptable
Beryllium, Be ^{1, 4} 1020 / 001 - Lot 013545	227mg/Kg	163 to 267 180 to 250	0.69	Acceptable
Boron, B ^{4, 5} 1025 / 001 - Lot 013545	146mg/Kg	90.3 to 188	0.43	Acceptable
Cadmium, Cd ^{1, 4} 1030 / 001 - Lot 013545	59mg/Kg	41.4 to 71.9 46.5 to 66.8	0.47	Acceptable
Calcium, Ca ^{1, 4} 1035 / 001 - Lot 013545	8010mg/Kg	5790 to 9700 6440 to 9050	0.40	Acceptable
Chromium, Cr (total) ^{1, 4} 1040 / 001 - Lot 013545	312mg/Kg	214 to 388 243 to 359	0.38	Acceptable
Cobalt, Co ^{1, 4} 1050 / 001 - Lot 013545	114mg/Kg	80.5 to 136 89.7 to 127	0.65	Acceptable
Copper, Cu ^{1, 4} 1055 / 001 - Lot 013545	63mg/Kg	44.4 to 77.7 50.0 to 72.1	0.34	Acceptable
Iron, Fe ^{1, 4} 1070 / 001 - Lot 013545	11700mg/Kg	2850 to 19100 5560 to 16400	0.26	Acceptable
Lead, Pb ^{1, 4} 1075 / 001 - Lot 013545	347mg/Kg	238 to 389 263 to 364	1.31	Acceptable
Lithium, Li ⁴ 1080 / 001 - Lot 013545	145mg/Kg	12.7 to 253	0.54	Acceptable
Magnesium, Mg ^{1, 4} 1085 / 001 - Lot 013545	10400mg/Kg	7470 to 12300 8280 to 11500	0.60	Acceptable
Manganese, Mn ^{1, 4} 1090 / 001 - Lot 013545	703mg/Kg	324 to 984	0.45	Acceptable
Molybdenum, Mo ^{1, 4} 1100 / 001 - Lot 013545	67mg/Kg	45.8 to 89.2 52.9 to 89.2	-0.03	Acceptable
Nickel, Ni ^{1, 4} 1105 / 001 - Lot 013545	210mg/Kg	147 to 252 165 to 234	0.63	Acceptable
Potassium, K ^{1, 4} 1125 / 001 - Lot 013545	18300mg/Kg	13200 to 24400 15100 to 22500	-0.27	Acceptable
Selenium, Se ^{1, 4} 1140 / 001 - Lot 013545	323mg/Kg	212 to 397 243 to 366	0.62	Acceptable
Silicon, Si ⁴ 1145 / 001 - Lot 013545	1150mg/Kg	0.00 to 4690	1.27	Acceptable
Silver, Ag ^{1, 4} 1150 / 001 - Lot 013545	87mg/Kg	54.7 to 108 63.5 to 98.9	0.66	Acceptable
Sodium, Na ^{1, 4} 1155 / 001 - Lot 013545	1420mg/Kg	977 to 2110 1170 to 1920	-0.63	Acceptable



Trace Metals (continued)

Analysis
EPA 6010B (1996)
Atomic Emission - Inductively Coupled Plasma Spectrometry

(continued)
Method Number 10155609
Technology Code: ICP-AES

	ResultUnits	Accept / Warn	Z	Evaluation
Strontium, Sr ⁴ 1160 / 001 - Lot 013545	132mg/Kg	14.1 to 234	0.22	Acceptable
Thallium, Tl ^{1, 4} 1165 / 001 - Lot 013545	78mg/Kg	46.6 to 96.3 54.9 to 88.0	0.80	Acceptable
Tin, Sn ^{1, 4} 1175 / 001 - Lot 013545	116mg/Kg	52.4 to 162	0.49	Acceptable
Titanium, Ti ⁴ 1180 / 001 - Lot 013545	285mg/Kg	100 to 466	0.12	Acceptable
Vanadium, V ^{1, 4} 1185 / 001 - Lot 013545	341mg/Kg	239 to 388 264 to 363	1.09	Acceptable
Zinc, Zn ^{1, 4} 1190 / 001 - Lot 013545	258mg/Kg	179 to 326 203 to 301	0.25	Acceptable
Phosphorus, P ⁴ 1715 / 001 - Lot 013545	348mg/Kg	0.00 to 385	2.48	Acceptable

End of LPTP08-S3 Set 2



Sample Information

Metals in Soil
SPE-001

Study Lot 013545
Mfg Lot 013545

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Aluminum, Al 1000 Trace Metals	mg/Kg	11,700.00	5,900.00	13,700.0	9,180.00	11,700.0	5,900.00	13700 ± 21.7
Antimony, Sb 1005 Trace Metals	mg/Kg	62.70	35.70	117.00	354.00	62.70	28.90	141 ± 0.721
Arsenic, As 1010 Trace Metals	mg/Kg	132.00	13.10	127.00	22.30	132.00	13.70	154 ± 0.784
Barium, Ba 1015 Trace Metals	mg/Kg	492.00	41.80	502.00	140.00	492.00	46.20	502 ± 2.56
Beryllium, Be 1020 Trace Metals	mg/Kg	215.00	17.40	211.00	42.40	215.00	20.90	239 ± 1.22
Boron, B 1025 Trace Metals	mg/Kg	139.00	16.30	148.00	37.70	139.00	16.30	167 ± 0.852
Cadmium, Cd 1030 Trace Metals	mg/Kg	56.60	5.07	78.10	112.00	56.60	5.60	69.8 ± 0.356
Calcium, Ca 1035 Trace Metals	mg/Kg	7,750.00	653.00	8,810.00	6,810.00	7,750.00	698.00	7670 ± 39.1
Chromium, Cr (total) 1040 Trace Metals	mg/Kg	301.00	29.00	300.00	26.30	301.00	26.80	328 ± 1.67
Cobalt, Co 1050 Trace Metals	mg/Kg	108.00	9.23	104.00	18.20	108.00	9.34	121 ± 0.619
Copper, Cu 1055 Trace Metals	mg/Kg	61.10	5.54	81.70	146.00	61.10	5.52	59.0 ± 0.25
Iron, Fe 1070 Trace Metals	mg/Kg	11,000.00	2,710.00	11,000.0	2,860.00	11,000.0	1,430.00	10700 ± 49.5
Lead, Pb 1075 Trace Metals	mg/Kg	314.00	25.20	313.00	34.10	314.00	35.80	334 ± 1.7
Lithium, Li 1080 Trace Metals	mg/Kg	121.00	44.10	127.00	47.30	121.00	44.10	127
Magnesium, Mg 1085 Trace Metals	mg/Kg	9,910.00	813.00	9,840.00	1,470.00	9,910.00	1,180.00	11000 ± 56.1
Manganese, Mn 1090 Trace Metals	mg/Kg	654.00	110.00	631.00	133.00	654.00	110.00	735 ± 3.75
Mercury, Hg 1095 Trace Metals	mg/Kg	25.00	4.04	24.20	5.01	25.00	3.68	29.1 ± 0.148
Molybdenum, Mo 1100 Trace Metals	mg/Kg	67.20	7.12	65.60	10.80	67.20	8.62	81.1 ± 0.414
Nickel, Ni 1105 Trace Metals	mg/Kg	199.00	17.40	200.00	27.50	199.00	20.00	191 ± 0.875
Potassium, K 1125 Trace Metals	mg/Kg	18,800.00	1,860.00	18,300.0	3,680.00	18,800.0	2,510.00	20400 ± 104
Selenium, Se 1140 Trace Metals	mg/Kg	304.00	30.80	302.00	74.50	304.00	34.60	358 ± 1.82
Silicon, Si 1145 Trace Metals	mg/Kg	577.00	451.00	937.00	881.00	577.00	451.00	4260 ± 21.7
Silver, Ag 1150 Trace Metals	mg/Kg	81.20	8.84	75.80	17.00	81.20	7.66	89.4 ± 0.456
Sodium, Na 1155 Trace Metals	mg/Kg	1,540.00	189.00	1,570.00	226.00	1,540.00	214.00	1590 ± 8.09
Strontium, Sr 1160 Trace Metals	mg/Kg	124.00	36.60	141.00	95.20	124.00	36.60	141 ± 0.401
Thallium, Tl 1165 Trace Metals	mg/Kg	71.40	8.28	70.40	11.90	71.40	11.90	85.7 ± 0.437
Tin, Sn 1175 Trace Metals	mg/Kg	107.00	18.30	188.00	275.00	107.00	18.30	121 ± 0.619
Titanium, Ti 1180 Trace Metals	mg/Kg	278.00	59.40	277.00	79.80	278.00	59.40	424 ± 2.16
Vanadium, V 1185 Trace Metals	mg/Kg	314.00	24.80	304.00	68.20	314.00	38.60	320 ± 1.63
Zinc, Zn 1190 Trace Metals	mg/Kg	252.00	24.40	276.00	202.00	252.00	15.50	273 ± 1.39
Phosphorus, P 1715 Trace Metals	mg/Kg	173.00	70.50	2,250.00	7,160.00	173.00	70.50	94.0 ± 0.479

Volatiles on Soil - Low Level
SPE-002-L

Study Lot 013612
Mfg Lot 013612



Volatiles on Soil - Low Level

Study Lot 013612

SPE-002-L

Mfg Lot 013612

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Acetone 4315 Volatiles - Low Level (Solids)	µg/Kg	381.00	226.00	459.00	330.00	381.00	226.00	381 ± 3.69
Acetonitrile 4320 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
Acrolein (Propenal) 4325 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
T-amylmethylether (TAME) 4370 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
Benzene 4375 Volatiles - Low Level (Solids)	µg/Kg	70.50	9.49	71.50	9.91	71.50	11.20	71.7 ± 0.695
Bromobenzene 4385 Volatiles - Low Level (Solids)	µg/Kg	48.80	7.90	49.10	7.02	48.80	7.90	47.5 ± 0.461
Bromodichloromethane 4395 Volatiles - Low Level (Solids)	µg/Kg	86.00	10.60	82.80	9.24	82.80	10.90	84.9 ± 0.823
Bromoform 4400 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
2-Butanone (Methyl ethyl ketone, MEK) 4410 Volatiles - Low Level (Solids)	µg/Kg	247.00	111.00	298.00	154.00	247.00	111.00	186 ± 1.8
Carbon disulfide 4450 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
Carbon tetrachloride 4455 Volatiles - Low Level (Solids)	µg/Kg	156.00	26.20	160.00	22.00	161.00	22.90	159 ± 1.54
Chlorobenzene 4475 Volatiles - Low Level (Solids)	µg/Kg	127.00	17.70	132.00	15.50	131.00	14.10	130 ± 1.26
Chloroethane 4485 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
Chloroform 4505 Volatiles - Low Level (Solids)	µg/Kg	47.40	6.48	49.70	7.72	49.70	8.22	47.2 ± 0.458
1,2-Dibromo-3-chloropropane (DBCP) 4570 Volatiles - Low Level (Solids)	µg/Kg	75.80	15.00	86.70	33.10	75.80	15.00	78.3 ± 0.759
Dibromochloromethane 4575 Volatiles - Low Level (Solids)	µg/Kg	53.20	7.35	54.70	8.48	54.10	8.86	53.6 ± 0.52
1,2-Dibromoethane (EDB, Ethylene dibromide) 4585 Volatiles - Low Level (Solids)	µg/Kg	105.00	17.40	106.00	16.30	105.00	17.40	103 ± 1
Dibromomethane 4595 Volatiles - Low Level (Solids)	µg/Kg	157.00	29.50	158.00	26.60	157.00	29.50	151 ± 1.46
1,2-Dichlorobenzene 4610 Volatiles - Low Level (Solids)	µg/Kg	177.00	28.80	192.00	22.40	193.00	22.20	187 ± 1.81
1,3-Dichlorobenzene 4615 Volatiles - Low Level (Solids)	µg/Kg	163.00	31.40	176.00	21.00	176.00	19.60	174 ± 1.69
1,4-Dichlorobenzene 4620 Volatiles - Low Level (Solids)	µg/Kg	57.10	11.60	71.10	10.10	70.10	10.40	64.6 ± 0.627
Dichlorodifluoromethane 4625 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
1,1-Dichloroethane 4630 Volatiles - Low Level (Solids)	µg/Kg	46.70	6.97	46.80	7.87	46.60	7.89	46.4 ± 0.45
1,2-Dichloroethane 4635 Volatiles - Low Level (Solids)	µg/Kg	164.00	22.40	170.00	19.70	170.00	22.30	167 ± 1.62
1,1-Dichloroethylene 4640 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
cis-1,2-Dichloroethylene 4645 Volatiles - Low Level (Solids)	µg/Kg	153.00	26.40	152.00	22.40	153.00	26.40	159 ± 1.54
1,2-Dichloropropane 4655 Volatiles - Low Level (Solids)	µg/Kg	164.00	21.40	172.00	15.80	172.00	17.90	171 ± 1.66
cis-1,3-Dichloropropene 4680 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
trans-1,3-Dichloropropene 4685 Volatiles - Low Level (Solids)	µg/Kg	166.00	21.70	165.00	19.80	166.00	21.70	166 ± 1.61
trans-1,2-Dichloroethylene 4700 Volatiles - Low Level (Solids)	µg/Kg	76.90	13.20	73.80	18.50	76.90	13.20	71.1 ± 0.689
Ethylbenzene 4765 Volatiles - Low Level (Solids)	µg/Kg	68.00	10.30	72.50	8.38	72.10	9.04	68.1 ± 0.66
Hexachlorobutadiene 4835 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
2-Hexanone 4860 Volatiles - Low Level (Solids)	µg/Kg	316.00	99.40	323.00	90.80	316.00	99.40	316 ± 3.07
Isopropylbenzene 4900 Volatiles - Low Level (Solids)	µg/Kg	124.00	16.60	123.00	14.80	124.00	16.60	113 ± 1.09



Volatiles on Soil - Low Level

Study Lot 013612
Mfg Lot 013612

SPE-002-L

(continued)

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Methyl bromide (Bromomethane) 4950 Volatiles - Low Level (Solids)	µg/Kg	84.70	27.00	85.40	27.80	84.70	27.00	122 ± 1.19
Methyl chloride (Chloromethane) 4960 Volatiles - Low Level (Solids)	µg/Kg	125.00	28.10	118.00	39.20	125.00	28.10	165 ± 1.6
Methylene chloride (Dichloromethane) 4975 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
4-Methyl-2-pentanone (MIBK) 4995 Volatiles - Low Level (Solids)	µg/Kg	135.00	24.80	156.00	31.20	157.00	36.40	142 ± 1.38
Methyl tert-butyl ether (MTBE) 5000 Volatiles - Low Level (Solids)	µg/Kg	38.90	7.88	39.50	11.30	38.30	9.06	37.4 ± 0.363
Naphthalene 5005 Volatiles - Low Level (Solids)	µg/Kg	115.00	17.80	116.00	17.10	115.00	17.80	107 ± 1.04
Styrene 5100 Volatiles - Low Level (Solids)	µg/Kg	170.00	22.10	170.00	19.80	170.00	22.10	161 ± 1.56
1,1,1,2-Tetrachloroethane 5105 Volatiles - Low Level (Solids)	µg/Kg	50.90	6.36	51.50	4.92	51.80	5.26	49.7 ± 0.482
1,1,2,2-Tetrachloroethane 5110 Volatiles - Low Level (Solids)	µg/Kg	98.80	15.80	106.00	21.60	101.00	11.20	100 ± 0.973
Tetrachloroethylene (Perchloroethylene) 5115 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
Toluene 5140 Volatiles - Low Level (Solids)	µg/Kg	143.00	19.90	144.00	18.30	144.00	20.10	144 ± 1.4
1,2,4-Trichlorobenzene 5155 Volatiles - Low Level (Solids)	µg/Kg	76.40	16.90	77.10	16.10	76.40	16.90	73.1 ± 0.709
1,1,1-Trichloroethane 5160 Volatiles - Low Level (Solids)	µg/Kg	91.90	13.30	92.90	11.70	93.60	11.40	92.5 ± 0.897
1,1,2-Trichloroethane 5165 Volatiles - Low Level (Solids)	µg/Kg	128.00	17.20	138.00	19.90	138.00	22.40	131 ± 1.27
Trichloroethene (Trichloroethylene) 5170 Volatiles - Low Level (Solids)	µg/Kg	118.00	18.50	123.00	15.40	122.00	17.90	122 ± 1.18
Trichlorofluoromethane 5175 Volatiles - Low Level (Solids)	µg/Kg	121.00	20.20	121.00	20.10	121.00	20.20	150 ± 1.45
1,2,3-Trichloropropane 5180 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
1,2,4-Trimethylbenzene 5210 Volatiles - Low Level (Solids)	µg/Kg	46.60	7.11	48.10	8.22	46.60	7.11	44.7 ± 0.433
1,3,5-Trimethylbenzene 5215 Volatiles - Low Level (Solids)	µg/Kg	41.30	6.70	42.30	7.45	41.30	6.70	40.2 ± 0.39
Vinyl acetate 5225 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00
Vinyl chloride 5235 Volatiles - Low Level (Solids)	µg/Kg	64.50	15.10	64.90	15.10	64.50	15.10	88.7 ± 0.86
m+p-Xylene 5240 Volatiles - Low Level (Solids)	µg/Kg	124.00	21.00	129.00	23.10	135.00	13.40	126 ± 1.22
o-Xylene 5250 Volatiles - Low Level (Solids)	µg/Kg	64.20	11.40	71.90	8.21	72.00	10.20	64.6 ± 0.627
Xylene, total 5260 Volatiles - Low Level (Solids)	µg/Kg	187.00	31.10	211.00	54.70	200.00	25.70	190 ± 1.85
Di-isopropylether (DIPE) 9375 Volatiles - Low Level (Solids)	µg/Kg	0.00	0.00					0.00

TCLP Metals in Soil

Study Lot 000962
Mfg Lot 000962

SPE-005

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Arsenic, As 1010 TCLP Metals	mg/L	5.37	1.36	5.31	1.22	5.37	1.36	5.37
Barium, Ba 1015 TCLP Metals	mg/L	19.20	2.29	19.10	2.09	19.20	2.29	19.2
Cadmium, Cd 1030 TCLP Metals	mg/L	49.10	11.70	48.40	10.50	49.10	11.70	49.1
Chromium, Cr (total) 1040 TCLP Metals	mg/L	1.65	0.88	1.73	0.86	1.65	0.88	1.65
Lead, Pb 1075 TCLP Metals	mg/L	1.51	1.04	1.57	0.95	1.51	1.04	1.51
Mercury, Hg 1095 TCLP Metals	mg/L	1.46	0.44	1.50	0.49	1.46	0.44	1.46



TCLP Metals in Soil

SPE-005

Study Lot 000962

Mfg Lot 000962

(continued)

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Selenium, Se 1140 TCLP Metals	mg/L	1.82	0.17	1.79	0.21	1.82	0.17	1.82
Silver, Ag 1150 TCLP Metals	mg/L	0.00	0.00	0.06	0.07	0.00	0.00	0.00
Extraction Fluid 1311 TCLP Metals		2.00	0.00					2.00

Corrosivity - Soil

SPE-023

Study Lot 013535

Mfg Lot 013535

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
pH 1900 Miscellaneous Analytes	Units	6.50	0.20	6.44	0.20	6.35	0.08	6.50 ± 0.033

Flash Point

SPE-029

Study Lot 013616

Mfg Lot 013616

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Ignitability (Flashpoint, °F) 1780 Miscellaneous Analytes	°F	147.00	5.67	145.00	8.40	147.00	4.62	147 ± 1.41

Uranium in Soil

SPE-071

Study Lot 013547

Mfg Lot 013547

	Units	Proficiency Value	Proficiency Std. Dev.	Mean	Standard Deviation	Robust Mean	Robust Std. Dev.	Gravimetric
Uranium, U 3035 Trace Metals	mg/Kg	197.00	19.70					197

Program analyte accrediting footnotes

1 NELAC

3 Other

5 NELAC Experimental

2 EPA

4 A2LA

PERFORMANCE EVALUATION

Off-study

LPTP08-4-17

6-Oct-2008 through 18-Nov-2008

RT1014
RTC Labcode

WY00002
US EPA Labcode

Energy Labs
Jim Yocum
PO Box 3258
Casper WY 82602

Thank you for participating in study LPTP08-4-17. Additional information about this study may be found online at www.rt-corp.com. you have any questions or comments about this study please contact me.

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This report may contain data that are not covered by the A2LA accreditation.

Sincerely,



Christopher Rucinski
Quality Director

2931 Soldier Springs Road
Laramie, WY 82070
(307) 742-5452
www.rt-corp.com







Dataset

LPTP08-4-17 MU 1

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.

Accrediting Labcode WY00002

Florida Dept. of Health

229 Stephen Arms
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1217 Pearl Street
Jacksonville FL 32231
UNITED STATES

Accrediting Labcode WY00002

Nebraska Health and Human Services System
Department of Regulation & Licensure

504 Sandra Irons
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Lincoln NE 68502
UNITED STATES

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Nevada Division of Env. Protection

118 Donald Lafara
901 S. Stewart Street
Ste. 4001
Carson City NV 89701-5249
UNITED STATES

Accrediting Labcode T104704181-05-TX

Texas CEQ

384 Frank Jamison
Quality Assurance/Laboratory Accreditation
PO Box 13087 (MC-176)
Austin TX 78711-3087
UNITED STATES

Accrediting Labcode WY00002

Utah Bureau of Laboratory Improvement

215 Kristin Brown
PO Box 142109
Salt Lake City UT 84114-2109
UNITED STATES

TCLP Metals

Analysis

EPA 6010B (1996)

Atomic Emission - Inductively Coupled Plasma Spectrometry

Method Number 10155609

Technology Code: ICP-AES

Result Units	Assigned Value	Accept.	Z	Evaluation
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TCLP Metals (continued)

Analysis
EPA 6010B (1996)
Atomic Emission - Inductively Coupled Plasma Spectrometry

(continued)
Method Number 10155609
Technology Code: ICP-AES

	Result Units	Assigned Value	Accept.	Z	Evaluation
Selenium, Se ⁴ 1140 / 005 - Lot 000162 /Analyst: cp/ Analysis Date: 11/17/08	<0.1 mg/L	0.00	0.00 to 0.0386		Acceptable

Volatiles - Low Level (Solids)

Analysis
EPA 8260B 2 (1996)
Gas Chromatography - Mass Spectrometry

Method Number 10184802
Technology Code: GC-MS

	Result Units	Assigned Value	Accept.	Z	Evaluation
Acetone ^{1,4} 4315 / 002-L - Lot 012232 /Analyst: jlr/ Analysis Date: 11/13/08	260 µg/Kg	268.00	0.00 to 795	-0.05	Acceptable
Methyl tert-butyl ether (MTBE) ^{1,4} 5000 / 002-L - Lot 012232 /Analyst: jlr/ Analysis Date: 11/13/08	98 µg/Kg	105.00	46.3 to 165	-0.36	Acceptable

End of LPTP08-4-17 MU 1



Dataset

LPTP08-4-17 MU 2

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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UNITED STATES

Accrediting Labcode WY00002

Nebraska Health and Human Services System
Department of Regulation & Licensure

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State Certification Officer
3701 S. 14th Street
Lincoln NE 68502
UNITED STATES

Accrediting Labcode WY00002

Nevada Division of Env. Protection

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Carson City NV 89701-5249
UNITED STATES

Accrediting Labcode T104704181-05-TX

Texas CEQ

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Quality Assurance/Laboratory Accreditation
PO Box 13087 (MC-176)
Austin TX 78711-3087
UNITED STATES

Accrediting Labcode WY00002

Utah Bureau of Laboratory Improvement

215 Kristin Brown
PO Box 142109
Salt Lake City UT 84114-2109
UNITED STATES

TCLP Metals

Analysis

EPA 6020 (1994)

Mass Spectrometry - Inductively Coupled Plasma

Method Number 10156000

Technology Code: ICP-MS

Result Units	Assigned Value	Accept.	Z	Evaluation
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TCLP Metals (continued)

Analysis
EPA 6020 (1994)
Mass Spectrometry - Inductively Coupled Plasma

(continued)
Method Number 10156000
Technology Code: ICP-MS

	Result Units	Assigned Value	Accept.	Z	Evaluation
Selenium, Se ⁴ 1140 / 005 - Lot 000162 /Analyst: sml/ Analysis Date: 11/4/08	<0.1 mg/L	0.00	0.00 to 0.0386		Acceptable

End of LPTP08-4-17 MU 2

Sample Information

Volatiles on Soil - Low Level

SPE-002-L / Lot {EncryptedLotCode}

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
Acetone 4315 Volatiles - Low Level (Solids)	µg/Kg	268.00	268.00	176.00	173
Methyl tert-butyl ether (MTBE) 5000 Volatiles - Low Level (Solids)	µg/Kg	105.00	108.00	16.70	110

TCLP Metals in Soil

SPE-005 / Lot {EncryptedLotCode}

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
Selenium, Se 1140 TCLP Metals	mg/L	0.00	0.00	0.01	0.0100

Definitions:

Assigned Value: Value attributed to a particular quantity and accepted, sometimes by convention, as having an uncertainty appropriate for a give purpose. See ISO Guide 43 for additional information.

Accept. Window: The range of values that constitute acceptable performance for a laboratory participation 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.

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.

Program analyte accrediting footnotes

¹ NELAC

³ Other

⁵ NELAC Experimental

² EPA

⁴ A2LA

PERFORMANCE EVALUATION

First Choice for Quality |



Quarterly Study

LPTP09-S1

11-Feb-2009 through 27-Mar-2009

RT1014

RTC Labcode

WY00002

US EPA Labcode

Energy Laboratories
Steven Carlston
PO BOX 3258
Casper WY 82602-3258

Thank you for participating in study LPTP09-S1. Additional information about this study may be found online at www.rt-corp.com. If you have any questions or comments about this study please contact me.

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This report may contain data that are not covered by the A2LA accreditation.

Sincerely,

A handwritten signature in black ink, appearing to read "Christopher Rucinski".

Christopher Rucinski
Quality Director

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Laramie, WY 82070
(307) 742-5452
www.rt-corp.com







Dataset

LPTP09-S1_Set_1

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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Utah Bureau of Laboratory Improvement

215 Kristin Brown
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Salt Lake City UT 84114-2109
UNITED STATES

Accrediting Labcode WY00002

Wyoming DEQ

Water Quality Division

206 Edward Mock
122 W. 25th Street
Cheyenne WY 82002
UNITED STATES



Miscellaneous Analytes

Analysis
EPA 1010 (1986)

Method Number 10116606

	Result Units	Assigned Value	Accept.	Z	Evaluation
Ignitability (Flashpoint, °F) 1, 4 1780 / 029 - Lot 014525 /Analyst: ph/ Analysis Date: 2/23/09	>140 °F	170.00	153 to 187		Acceptable

Analysis
EPA 6010B (1996)

Method Number 10155609

	Result Units	Assigned Value	Accept.	Z	Evaluation
Silica as SiO2 4 1990 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	848 mg/Kg	1,050.00	0.00 to 3720	-0.23	Acceptable

Analysis
EPA 9045C 3 (1995)

Method Number 10198400

	Result Units	Assigned Value	Accept.	Z	Evaluation
pH 1, 4 1900 / 023 - Lot 014434 /Analyst: cm/ Analysis Date: 2/20/09	7.29 Units	7.35	6.75 to 7.95	-0.30	Acceptable

TCLP Metals

Analysis
EPA 6010 (1986)

Method Number 10155201

	Result Units	Assigned Value	Accept.	Z	Evaluation
Extraction Fluid 4 1311 / 005 - Lot 001951 /Analyst: dcj/ Analysis Date: 2/19/09	1	1.00	1.00 to 1.00		Acceptable

Analysis
EPA 6010B (1996)

Method Number 10155609

	Result Units	Assigned Value	Accept.	Z	Evaluation
Arsenic, As 4 1010 / 005 - Lot 001951 /Analyst: rdw/ Analysis Date: 3/26/09	6.3 mg/L	5.83	3.82 to 7.84	0.70	Acceptable
Barium, Ba 4 1015 / 005 - Lot 001951 /Analyst: rdw/ Analysis Date: 3/26/09	<10.0 mg/L	0.58	0.233 to 0.926		Acceptable
Beryllium, Be 4 1020 / 005 - Lot 001951 /Analyst: rdw/ Analysis Date: 3/26/09	<0.50 mg/L	0.00	0.0 to 0.0		Acceptable
Cadmium, Cd 4 1030 / 005 - Lot 001951 /Analyst: rdw/ Analysis Date: 3/26/09	6.2 mg/L	5.55	4.16 to 6.95	1.40	Acceptable
Chromium, Cr (total) 4 1040 / 005 - Lot 001951 /Analyst: rdw/ Analysis Date: 3/26/09	0.60 mg/L	0.43	0.195 to 0.655	2.28	Acceptable



TCLP Metals (continued)

Analysis
EPA 6010B (1996)

(continued)
Method Number 10155609

	Result Units	Assigned Value	Accept.	Z	Evaluation
Copper, Cu 4 1055 / 005 - Lot 001951 /Analyst: rdw/ Analysis Date: 3/26/09	0.48 mg/L	0.39	0.260 to 0.517	2.14	Acceptable
Lead, Pb 4 1075 / 005 - Lot 001951 /Analyst: rdw/ Analysis Date: 3/26/09	1.50 mg/L	1.40	0.762 to 2.05	0.47	Acceptable
Molybdenum, Mo 4 1100 / 005 - Lot 001951 /Analyst: rdw/ Analysis Date: 3/26/09	<0.10 mg/L	0.00	0.0 to 0.0		Acceptable
Nickel, Ni 4 1105 / 005 - Lot 001951 /Analyst: rdw/ Analysis Date: 3/26/09	3.33 mg/L	2.95	2.27 to 3.63	1.67	Acceptable
Selenium, Se 4 1140 / 005 - Lot 001951 /Analyst: rdw/ Analysis Date: 3/26/09	5.20 mg/L	4.37	2.54 to 6.20	1.36	Acceptable
Silver, Ag 4 1150 / 005 - Lot 001951 /Analyst: rdw/ Analysis Date: 3/26/09	<0.50 mg/L	0.03	0.00 to 0.0723		Acceptable
Zinc, Zn 4 1190 / 005 - Lot 001951 /Analyst: rdw/ Analysis Date: 3/26/09	2.24 mg/L	1.96	1.35 to 2.58	1.37	Acceptable

Analysis
EPA 7470A 1 (1994)

Method Number 10165807

	Result Units	Assigned Value	Accept.	Z	Evaluation
Mercury, Hg 4 1095 / 005 - Lot 001951 /Analyst: jp/ Analysis Date: 2/26/09	0.120 mg/L	0.13	0.0258 to 0.232	-0.26	Acceptable

Trace Metals

Analysis
EPA 6010B (1996)

Method Number 10155609

	Result Units	Assigned Value	Accept.	Z	Evaluation
Boron, B 4, 5 1025 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	122 mg/Kg	135.00	85.0 to 185	-0.78	Acceptable
Calcium, Ca 1, 4 1035 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	5360 mg/Kg	4,670.00	3390 to 5960	1.61	Acceptable
Iron, Fe 1, 4 1070 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	5750 mg/Kg	5,190.00	0.00 to 11400	0.27	Acceptable
Lithium, Li 4 1080 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	105 mg/Kg	97.10	67.1 to 127	0.79	Acceptable
Magnesium, Mg 1, 4 1085 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	2010 mg/Kg	1,940.00	1140 to 2740	0.26	Acceptable



Trace Metals (continued)

Analysis
 EPA 6010B (1996)

(continued)
 Method Number 10155609

	Result Units	Assigned Value	Accept.	Z	Evaluation
Potassium, K 1, 4 1125 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	3790 mg/Kg	3,590.00	2300 to 4880	0.47	Acceptable
Silicon, Si 4 1145 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	396 mg/Kg	443.00	0.00 to 1880	-0.10	Acceptable
Sodium, Na 1, 4 1155 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	951 mg/Kg	1,050.00	616 to 1480	-0.69	Acceptable
Phosphorus, P 4 1715 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	190 mg/Kg	180.00	9.21 to 350	0.18	Acceptable

Analysis
 EPA 6020 (1994)

Method Number 10156000

	Result Units	Assigned Value	Accept.	Z	Evaluation
Aluminum, Al 1, 4 1000 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	8660 mg/Kg	10,000.00	314 to 23700	-0.30	Acceptable
Antimony, Sb 1, 4 1005 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	70.2 mg/Kg	84.80	0.00 to 221	-0.32	Acceptable
Arsenic, As 1, 4 1010 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	78.5 mg/Kg	70.60	48.0 to 93.2	1.05	Acceptable
Barium, Ba 1, 4 1015 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	186 mg/Kg	168.00	122 to 213	1.18	Acceptable
Beryllium, Be 1, 4 1020 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	71.5 mg/Kg	69.00	50.8 to 87.1	0.41	Acceptable
Cadmium, Cd 1, 4 1030 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	241 mg/Kg	215.00	158 to 273	1.36	Acceptable
Chromium, Cr (total) 1, 4 1040 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	213 mg/Kg	183.00	129 to 237	1.67	Acceptable
Cobalt, Co 1, 4 1050 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	132 mg/Kg	118.00	87.9 to 148	1.39	Acceptable
Copper, Cu 1, 4 1055 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	211 mg/Kg	178.00	134 to 221	2.28	Acceptable
Lead, Pb 1, 4 1075 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	102 mg/Kg	84.90	59.1 to 111	1.99	Acceptable
Manganese, Mn 1, 4 1090 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	552 mg/Kg	546.00	369 to 724	0.10	Acceptable
Molybdenum, Mo 1, 4 1100 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	70.8 mg/Kg	63.00	42.8 to 83.3	1.16	Acceptable



Trace Metals (continued)

Analysis
EPA 6020 (1994)

(continued)
Method Number 10156000

	Result Units	Assigned Value	Accept.	Z	Evaluation
Nickel, Ni 1, 4 1105 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	278 mg/Kg	232.00	172 to 292	2.30	Acceptable
Selenium, Se 1, 4 1140 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	75.2 mg/Kg	70.80	44.1 to 97.5	0.49	Acceptable
Silver, Ag 1, 4 1150 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	86.7 mg/Kg	72.50	48.7 to 96.4	1.79	Acceptable
Strontium, Sr 4 1160 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	209 mg/Kg	195.00	138 to 252	0.73	Acceptable
Thallium, Tl 1, 4 1165 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	201 mg/Kg	164.00	113 to 216	2.15	Acceptable
Tin, Sn 1, 4 1175 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	222 mg/Kg	182.00	111 to 253	1.69	Acceptable
Titanium, Ti 4 1180 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	139 mg/Kg	123.00	2.94 to 360	0.40	Acceptable
Vanadium, V 1, 4 1185 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	270 mg/Kg	237.00	177 to 297	1.65	Acceptable
Zinc, Zn 1, 4 1190 / 001 - Lot 014432 /Analyst: sml/ Analysis Date: 2/19/09	754 mg/Kg	656.00	483 to 829	1.70	Acceptable
Uranium, U 4 3035 / 071 - Lot 014437 /Analyst: sml/ Analysis Date: 2/19/09	233 mg/Kg	247.00	173 to 321	-0.57	Acceptable

Analysis
EPA 7471A 1 (1994)

Method Number 10166208

	Result Units	Assigned Value	Accept.	Z	Evaluation
Mercury, Hg 1, 4 1095 / 001 - Lot 014432 /Analyst: jp/ Analysis Date: 3/16/09	6.4 mg/Kg	13.40	6.90 to 20.0	-3.21	Not Acceptable

Volatiles - Low Level (Solids)

Analysis
EPA 8260B 2 (1996)

Method Number 10184802

	Result Units	Assigned Value	Accept.	Z	Evaluation
Acetone 1, 4 4315 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	280 µg/Kg	293.00	0.00 to 739	-0.09	Acceptable
Acetonitrile 4 4320 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<20 µg/Kg	0.00	0.0 to 0.0		Acceptable

Volatiles - Low Level (Solids) (continued)

Analysis
EPA 8260B 2 (1996)

(continued)
Method Number 10184802

	Result Units	Assigned Value	Accept.	Z	Evaluation
Acrolein (Propenal) 4 4325 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<20 µg/Kg	0.00	0.0 to 0.0		Acceptable
T-amylmethylether (TAME) 4 4370 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<2.0 µg/Kg	0.00	0.0 to 0.0		Acceptable
Benzene 1, 4 4375 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	130 µg/Kg	145.00	88.8 to 201	-0.81	Acceptable
Bromobenzene 4, 5 4385 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	150 µg/Kg	155.00	110 to 199	-0.34	Acceptable
Bromodichloromethane 1, 4 4395 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<2.0 µg/Kg	0.00	0.0 to 0.0		Acceptable
Bromoform 1, 4 4400 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	130 µg/Kg	167.00	85.4 to 249	-1.36	Acceptable
2-Butanone (Methyl ethyl ketone, MEK) 1, 4 4410 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	200 µg/Kg	291.00	0.00 to 653	-0.75	Acceptable
Carbon disulfide 4 4450 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<2.0 µg/Kg	0.00	0.0 to 0.0		Acceptable
Carbon tetrachloride 1, 4 4455 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	120 µg/Kg	164.00	81.4 to 246	-1.60	Acceptable
Chlorobenzene 1, 4 4475 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	160 µg/Kg	168.00	97.6 to 238	-0.34	Acceptable
Chloroethane 4, 5 4485 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<2.0 µg/Kg	0.00	0.0 to 0.0		Acceptable
2-Chloroethyl vinyl ether 4 4500 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<2.0 µg/Kg	0.00	0.0 to 0.0		Acceptable
Chloroform 1, 4 4505 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	54 µg/Kg	67.70	40.5 to 95.0	-1.51	Acceptable
1,2-Dibromo-3-chloropropane (DBCP) 4, 5 4570 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<2.0 µg/Kg	95.40	57.6 to 133		Not Acceptable
Dibromochloromethane 1, 4 4575 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	103 µg/Kg	143.00	88.1 to 198	-2.19	Acceptable
1,2-Dibromoethane (EDB, Ethylene dibromide) 4, 5 4585 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	160 µg/Kg	179.00	125 to 233	-1.06	Acceptable
Dibromomethane 4 4595 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<2.0 µg/Kg	0.00	0.0 to 0.0		Acceptable
1,2-Dichlorobenzene 1, 4 4610 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	170 µg/Kg	169.00	86.3 to 251	0.04	Acceptable

Volatiles - Low Level (Solids) (continued)

Analysis
EPA 8260B 2 (1996)

(continued)
Method Number 10184802

	Result Units	Assigned Value	Accept.	Z	Evaluation
1,3-Dichlorobenzene 1, 4 4615 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	56 µg/Kg	55.40	21.7 to 89.2	0.05	Acceptable
1,4-Dichlorobenzene 1, 4 4620 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	87 µg/Kg	77.50	30.3 to 125	0.61	Acceptable
Dichlorodifluoromethane 4, 5 4625 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<2.0 µg/Kg	0.00	0.0 to 0.0		Acceptable
1,1-Dichloroethane 1, 4 4630 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	120 µg/Kg	153.00	86.5 to 219	-1.49	Acceptable
1,2-Dichloroethane 1, 4 4635 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	100 µg/Kg	125.00	73.6 to 176	-1.46	Acceptable
1,1-Dichloroethylene 4, 5 4640 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	79 µg/Kg	86.00	41.1 to 131	-0.47	Acceptable
cis-1,2-Dichloroethylene 4, 5 4645 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	100 µg/Kg	125.00	67.7 to 181	-1.32	Acceptable
1,2-Dichloropropane 1, 4 4655 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	91 µg/Kg	105.00	63.9 to 146	-1.02	Acceptable
cis-1,3-Dichloropropene 4, 5 4680 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	50 µg/Kg	56.40	33.1 to 79.7	-0.82	Acceptable
trans-1,3-Dichloropropene 4, 5 4685 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	130 µg/Kg	166.00	74.5 to 257	-1.18	Acceptable
trans-1,2-Dichloroethylene 4, 5 4700 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	62 µg/Kg	78.00	41.0 to 115	-1.30	Acceptable
Ethylbenzene 1, 4 4765 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	120 µg/Kg	114.00	64.0 to 165	0.36	Acceptable
Hexachlorobutadiene 1, 4 4835 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<2.0 µg/Kg	0.00	0.0 to 0.0		Acceptable
2-Hexanone 4, 5 4860 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	180 µg/Kg	372.00	0.00 to 770	-1.44	Acceptable
Isopropylbenzene 4, 5 4900 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	76 µg/Kg	69.30	44.2 to 94.5	0.80	Acceptable
Methyl bromide (Bromomethane) 4, 5 4950 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	12 µg/Kg	25.30	0.00 to 53.3	-1.43	Acceptable
Methyl chloride (Chloromethane) 4, 5 4960 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	36 µg/Kg	59.40	10.7 to 108	-1.44	Acceptable
Methylene chloride (Dichloromethane) 1, 4 4975 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	65 µg/Kg	85.00	41.0 to 129	-1.36	Acceptable



Volatiles - Low Level (Solids) (continued)

Analysis
EPA 8260B 2 (1996)

(continued)
Method Number 10184802

	Result Units	Assigned Value	Accept.	Z	Evaluation
4-Methyl-2-pentanone (MIBK) 1, 4 4995 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	130 µg/Kg	209.00	103 to 315	-2.23	Acceptable
Methyl tert-butyl ether (MTBE) 1, 4 5000 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	26 µg/Kg	38.50	15.0 to 61.9	-1.60	Acceptable
Naphthalene 1, 4 5005 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	88 µg/Kg	159.00	40.5 to 278	-1.79	Acceptable
Styrene 4, 5 5100 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	110 µg/Kg	135.00	82.8 to 187	-1.44	Acceptable
1,1,1,2-Tetrachloroethane 1, 4 5105 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	67 µg/Kg	77.40	49.5 to 105	-1.12	Acceptable
1,1,2,2-Tetrachloroethane 1, 4 5110 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	120 µg/Kg	130.00	68.5 to 192	-0.49	Acceptable
Tetrachloroethylene (Perchloroethylene) 1, 4 5115 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	47 µg/Kg	46.60	21.8 to 71.4	0.05	Acceptable
Toluene 1, 4 5140 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	85 µg/Kg	89.20	51.6 to 127	-0.34	Acceptable
1,2,4-Trichlorobenzene 1, 4 5155 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	24 µg/Kg	86.50	41.2 to 132	-4.14	Not Acceptable
1,1,1-Trichloroethane 1, 4 5160 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<2.0 µg/Kg	0.00	0.0 to 0.0		Acceptable
1,1,2-Trichloroethane 1, 4 5165 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	110 µg/Kg	121.00	72.1 to 169	-0.68	Acceptable
Trichloroethene (Trichloroethylene) 1, 4 5170 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<2.0 µg/Kg	0.00	0.0 to 0.0		Acceptable
Trichlorofluoromethane 4, 5 5175 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	120 µg/Kg	162.00	67.4 to 257	-1.33	Acceptable
1,2,3-Trichloropropane 1, 4 5180 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	75 µg/Kg	77.90	36.0 to 120	-0.21	Acceptable
1,2,4-Trimethylbenzene 4 5210 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	140 µg/Kg	150.00	77.8 to 223	-0.41	Acceptable
1,3,5-Trimethylbenzene 4 5215 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	70 µg/Kg	71.40	42.3 to 101	-0.14	Acceptable
Vinyl acetate 4 5225 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<2.0 µg/Kg	0.00	0.0 to 0.0		Acceptable
Vinyl chloride 4, 5 5235 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<2.0 µg/Kg	0.00	0.0 to 0.0		Acceptable



Volatiles - Low Level (Solids) (continued)

Analysis
EPA 8260B 2 (1996)

(continued)
Method Number 10184802

	Result Units	Assigned Value	Accept.	Z	Evaluation
m+p-Xylene 4 5240 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	91 µg/Kg	85.30	41.0 to 130	0.39	Acceptable
o-Xylene 4 5250 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	97 µg/Kg	90.80	43.8 to 138	0.39	Acceptable
Xylene, total 1, 4 5260 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	190 µg/Kg	175.00	87.2 to 262	0.51	Acceptable
Di-isopropylether (DIPE) 4 9375 / 002-L - Lot 014499 /Analyst: wen/ Analysis Date: 3/5/09	<2.0 µg/Kg	0.00	0.0 to 0.0		Acceptable

Group Analysis Summary
Acceptable 58 / 60
Score 96.7% - (Acceptable)

End of LPTP09-S1_Set_1



Dataset

LPTP09-S1_Set_2

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.

Accrediting Labcode WY00002

Florida Dept. of Health

229 Stephen Arms
PO Box 210
1217 Pearl Street
Jacksonville FL 32231
UNITED STATES

Accrediting Labcode WY00002

Nebraska Health and Human Services System
Department of Regulation & Licensure

504 Sandra Irons
State Certification Officer
3701 S. 14th Street
Lincoln NE 68502
UNITED STATES

Accrediting Labcode WY00002

Nevada Division of Env. Protection

118 Donald Lafara
901 S. Stewart Street
Ste. 4001
Carson City NV 89701-5249
UNITED STATES

Accrediting Labcode T104704181-05-TX

Texas CEQ

384 Frank Jamison
Quality Assurance/Laboratory Accreditation
PO Box 13087 (MC-176)
Austin TX 78711-3087
UNITED STATES

Accrediting Labcode WY00002

Utah Bureau of Laboratory Improvement

215 Kristin Brown
PO Box 142109
Salt Lake City UT 84114-2109
UNITED STATES

Accrediting Labcode WY00002

Wyoming DEQ

Water Quality Division

206 Edward Mock
122 W. 25th Street
Cheyenne WY 82002
UNITED STATES



Trace Metals

Analysis
EPA 6010B (1996)

Method Number 10155609

	Result Units	Assigned Value	Accept.	Z	Evaluation
Aluminum, Al 1, 4 1000 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	9720 mg/Kg	10,000.00	314 to 23700	-0.06	Acceptable
Antimony, Sb 1, 4 1005 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	60 mg/Kg	84.80	0.00 to 221	-0.55	Acceptable
Arsenic, As 1, 4 1010 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	68 mg/Kg	70.60	48.0 to 93.2	-0.35	Acceptable
Barium, Ba 1, 4 1015 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	180 mg/Kg	168.00	122 to 213	0.79	Acceptable
Beryllium, Be 1, 4 1020 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	67.8 mg/Kg	69.00	50.8 to 87.1	-0.20	Acceptable
Cadmium, Cd 1, 4 1030 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	239 mg/Kg	215.00	158 to 273	1.26	Acceptable
Chromium, Cr (total) 1, 4 1040 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	200 mg/Kg	183.00	129 to 237	0.94	Acceptable
Cobalt, Co 1, 4 1050 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	130 mg/Kg	118.00	87.9 to 148	1.19	Acceptable
Copper, Cu 1, 4 1055 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	198 mg/Kg	178.00	134 to 221	1.38	Acceptable
Lead, Pb 1, 4 1075 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	92 mg/Kg	84.90	59.1 to 111	0.83	Acceptable
Manganese, Mn 1, 4 1090 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	529 mg/Kg	546.00	369 to 724	-0.29	Acceptable
Molybdenum, Mo 1, 4 1100 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	70 mg/Kg	63.00	42.8 to 83.3	1.04	Acceptable
Nickel, Ni 1, 4 1105 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	253 mg/Kg	232.00	172 to 292	1.05	Acceptable
Selenium, Se 1, 4 1140 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	66 mg/Kg	70.80	44.1 to 97.5	-0.54	Acceptable
Silver, Ag 1, 4 1150 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	79 mg/Kg	72.50	48.7 to 96.4	0.82	Acceptable
Strontium, Sr 4 1160 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	202 mg/Kg	195.00	138 to 252	0.37	Acceptable
Thallium, Tl 1, 4 1165 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	169 mg/Kg	164.00	113 to 216	0.29	Acceptable
Tin, Sn 1, 4 1175 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	199 mg/Kg	182.00	111 to 253	0.72	Acceptable



Trace Metals (continued)

Analysis
EPA 6010B (1996)

(continued)
Method Number 10155609

	Result Units	Assigned Value	Accept.	Z	Evaluation
Titanium, Ti 4 1180 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	140 mg/Kg	123.00	2.94 to 360	0.43	Acceptable
Vanadium, V 1, 4 1185 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	251 mg/Kg	237.00	177 to 297	0.70	Acceptable
Zinc, Zn 1, 4 1190 / 001 - Lot 014432 /Analyst: cp/ Analysis Date: 2/19/09	735 mg/Kg	656.00	483 to 829	1.37	Acceptable

Volatiles - Low Level (Solids)

Analysis
EPA 8021B 2 (1996)

Method Number 10174808

	Result Units	Assigned Value	Accept.	Z	Evaluation
Benzene 1, 4 4375 / 002-L - Lot 014499 /Analyst: jlr/ Analysis Date: 2/20/09	95 µg/Kg	145.00	88.8 to 201	-2.69	Acceptable
Ethylbenzene 1, 4 4765 / 002-L - Lot 014499 /Analyst: jlr/ Analysis Date: 2/20/09	79 µg/Kg	114.00	64.0 to 165	-2.08	Acceptable
Methyl tert-butyl ether (MTBE) 1, 4 5000 / 002-L - Lot 014499 /Analyst: jlr/ Analysis Date: 2/20/09	130 µg/Kg	38.50	15.0 to 61.9	11.72	Not Acceptable
Naphthalene 1, 4 5005 / 002-L - Lot 014499 /Analyst: jlr/ Analysis Date: 2/20/09	110 µg/Kg	159.00	40.5 to 278	-1.24	Acceptable
Toluene 1, 4 5140 / 002-L - Lot 014499 /Analyst: jlr/ Analysis Date: 2/20/09	70 µg/Kg	89.20	51.6 to 127	-1.54	Acceptable
m+p-Xylene 4 5240 / 002-L - Lot 014499 /Analyst: jlr/ Analysis Date: 2/20/09	64.6 µg/Kg	85.30	41.0 to 130	-1.40	Acceptable
o-Xylene 4 5250 / 002-L - Lot 014499 /Analyst: jlr/ Analysis Date: 2/20/09	64.9 µg/Kg	90.80	43.8 to 138	-1.65	Acceptable
Xylene, total 1, 4 5260 / 002-L - Lot 014499 /Analyst: jlr/ Analysis Date: 2/20/09	129.5 µg/Kg	175.00	87.2 to 262	-1.56	Acceptable

End of LPTP09-S1_Set_2



Sample Information

Metals in Soil

SPE-001 / Lot {EncryptedLotCode}

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
Aluminum, Al 1000 Trace Metals	mg/Kg	10000.00	10,000.0	4,540.00	3140 ± 16
Antimony, Sb 1005 Trace Metals	mg/Kg	84.80	84.80	53.10	185 ± 0.94
Arsenic, As 1010 Trace Metals	mg/Kg	70.60	70.60	7.84	79.6 ± 0.41
Barium, Ba 1015 Trace Metals	mg/Kg	168.00	168.00	20.60	123 ± 0.63
Beryllium, Be 1020 Trace Metals	mg/Kg	69.00	69.00	4.69	71.8 ± 0.37
Boron, B 1025 Trace Metals	mg/Kg	135.00	135.00	12.90	157 ± 0.8
Cadmium, Cd 1030 Trace Metals	mg/Kg	215.00	215.00	19.20	254 ± 1.3
Calcium, Ca 1035 Trace Metals	mg/Kg	4670.00	4,670.00	510.00	4010 ± 20.4
Chromium, Cr (total) 1040 Trace Metals	mg/Kg	183.00	183.00	16.00	180 ± 0.92
Cobalt, Co 1050 Trace Metals	mg/Kg	118.00	118.00	10.40	125 ± 0.64
Copper, Cu 1055 Trace Metals	mg/Kg	178.00	178.00	15.00	156 ± 0.8
Iron, Fe 1070 Trace Metals	mg/Kg	5190.00	5,190.00	675.00	2100 ± 10.7
Lead, Pb 1075 Trace Metals	mg/Kg	84.90	84.90	7.60	84.0 ± 0.43
Lithium, Li 1080 Trace Metals	mg/Kg	97.10	97.10	10.00	99.2 ± 0.51
Magnesium, Mg 1085 Trace Metals	mg/Kg	1940.00	1,940.00	240.00	1820 ± 9.3
Manganese, Mn 1090 Trace Metals	mg/Kg	546.00	546.00	59.30	576 ± 2.94
Mercury, Hg 1095 Trace Metals	mg/Kg	13.40	13.40	1.37	15.1 ± 0.08
Molybdenum, Mo 1100 Trace Metals	mg/Kg	63.00	63.00	6.86	73.1 ± 0.37
Nickel, Ni 1105 Trace Metals	mg/Kg	232.00	232.00	19.90	236 ± 1.2
Potassium, K 1125 Trace Metals	mg/Kg	3590.00	3,590.00	472.00	3260 ± 16.6
Selenium, Se 1140 Trace Metals	mg/Kg	70.80	70.80	6.48	83.0 ± 0.42
Silicon, Si 1145 Trace Metals	mg/Kg	443.00	443.00	480.00	790 ± 4.03
Silver, Ag 1150 Trace Metals	mg/Kg	72.50	72.50	7.00	76.3 ± 0.39
Sodium, Na 1155 Trace Metals	mg/Kg	1050.00	1,050.00	144.00	990 ± 5.05
Strontium, Sr 1160 Trace Metals	mg/Kg	195.00	195.00	36.20	133 ± 0.68
Thallium, Tl 1165 Trace Metals	mg/Kg	164.00	164.00	14.40	182 ± 0.93
Tin, Sn 1175 Trace Metals	mg/Kg	182.00	182.00	16.10	193 ± 0.99
Titanium, Ti 1180 Trace Metals	mg/Kg	123.00	123.00	40.00	202 ± 1.03
Vanadium, V 1185 Trace Metals	mg/Kg	237.00	237.00	14.00	220 ± 1.12
Zinc, Zn 1190 Trace Metals	mg/Kg	656.00	656.00	57.20	700 ± 3.57
Phosphorus, P 1715 Trace Metals	mg/Kg	180.00	180.00	56.80	87.2 ± 0.44
Silica as SiO2 1990 Miscellaneous Analytes	mg/Kg	1050.00	1,050.00	889.00	1050



VOAs in Soil - Low Level
SPE-002-L / Lot {EncryptedLotCode}

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
Acetone 4315 Volatiles - Low Level (Solids)	µg/Kg	293.00	293.00	148.00	185 ± 1.8
Acetonitrile 4320 Volatiles - Low Level (Solids)	µg/Kg	0.00			0.00
Acrolein (Propenal) 4325 Volatiles - Low Level (Solids)	µg/Kg	0.00			0.00
T-amylmethylether (TAME) 4370 Volatiles - Low Level (Solids)	µg/Kg	0.00			0.00
Benzene 4375 Volatiles - Low Level (Solids)	µg/Kg	145.00	144.00	13.60	147 ± 1.42
Bromobenzene 4385 Volatiles - Low Level (Solids)	µg/Kg	155.00	155.00	14.80	154 ± 1.49
Bromodichloromethane 4395 Volatiles - Low Level (Solids)	µg/Kg	0.00			0.00
Bromoform 4400 Volatiles - Low Level (Solids)	µg/Kg	167.00	171.00	18.30	168 ± 1.63
2-Butanone (Methyl ethyl ketone, MEK) 4410 Volatiles - Low Level (Solids)	µg/Kg	291.00	291.00	121.00	234 ± 2.27
Carbon disulfide 4450 Volatiles - Low Level (Solids)	µg/Kg	0.00			0.00
Carbon tetrachloride 4455 Volatiles - Low Level (Solids)	µg/Kg	164.00	161.00	24.30	167 ± 1.62
Chlorobenzene 4475 Volatiles - Low Level (Solids)	µg/Kg	168.00	175.00	14.20	172 ± 1.67
Chloroethane 4485 Volatiles - Low Level (Solids)	µg/Kg	0.00			0.00
2-Chloroethyl vinyl ether 4500 Volatiles - Low Level (Solids)	µg/Kg	0.00			0.00
Chloroform 4505 Volatiles - Low Level (Solids)	µg/Kg	67.70	65.80	7.99	67.6 ± 0.66
1,2-Dibromo-3-chloropropane (DBCP) 4570 Volatiles - Low Level (Solids)	µg/Kg	95.40	95.40	12.60	94.7 ± 0.92
Dibromochloromethane 4575 Volatiles - Low Level (Solids)	µg/Kg	143.00	142.00	17.30	144 ± 1.4
1,2-Dibromoethane (EDB, Ethylene dibromide) 4585 Volatiles - Low Level (Solids)	µg/Kg	179.00	179.00	18.00	173 ± 1.68
Dibromomethane 4595 Volatiles - Low Level (Solids)	µg/Kg	0.00			0.00
1,2-Dichlorobenzene 4610 Volatiles - Low Level (Solids)	µg/Kg	169.00	180.00	22.70	178 ± 1.73
1,3-Dichlorobenzene 4615 Volatiles - Low Level (Solids)	µg/Kg	55.40	61.50	9.97	60.3 ± 0.58
1,4-Dichlorobenzene 4620 Volatiles - Low Level (Solids)	µg/Kg	77.50	90.40	8.91	87.8 ± 0.85
Dichlorodifluoromethane 4625 Volatiles - Low Level (Solids)	µg/Kg	0.00			0.00
1,1-Dichloroethane 4630 Volatiles - Low Level (Solids)	µg/Kg	153.00	150.00	14.20	152 ± 1.47
1,2-Dichloroethane 4635 Volatiles - Low Level (Solids)	µg/Kg	125.00	124.00	16.30	127 ± 1.23
1,1-Dichloroethylene 4640 Volatiles - Low Level (Solids)	µg/Kg	86.00	86.00	15.00	89.6 ± 0.87
cis-1,2-Dichloroethylene 4645 Volatiles - Low Level (Solids)	µg/Kg	125.00	125.00	19.00	128 ± 1.24
1,2-Dichloropropane 4655 Volatiles - Low Level (Solids)	µg/Kg	105.00	112.00	7.25	109 ± 1.05
cis-1,3-Dichloropropene 4680 Volatiles - Low Level (Solids)	µg/Kg	56.40	56.40	7.76	55.5 ± 0.54
trans-1,3-Dichloropropene 4685 Volatiles - Low Level (Solids)	µg/Kg	166.00	166.00	30.40	164 ± 1.59
trans-1,2-Dichloroethylene 4700 Volatiles - Low Level (Solids)	µg/Kg	78.00	78.00	12.30	77.8 ± 0.75
Ethylbenzene 4765 Volatiles - Low Level (Solids)	µg/Kg	114.00	117.00	13.30	115 ± 1.11
Hexachlorobutadiene 4835 Volatiles - Low Level (Solids)	µg/Kg	0.00			0.00
2-Hexanone 4860 Volatiles - Low Level (Solids)	µg/Kg	372.00	372.00	133.00	301 ± 2.92



VOAs in Soil - Low Level

SPE-002-L / Lot {EncryptedLotCode}

(continued)

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
Isopropylbenzene 4900 Volatiles - Low Level (Solids)	µg/Kg	69.30	69.30	8.39	64.8 ± 0.63
Methyl bromide (Bromomethane) 4950 Volatiles - Low Level (Solids)	µg/Kg	25.30	25.30	9.31	157 ± 1.52
Methyl chloride (Chloromethane) 4960 Volatiles - Low Level (Solids)	µg/Kg	59.40	59.40	16.20	173 ± 1.68
Methylene chloride (Dichloromethane) 4975 Volatiles - Low Level (Solids)	µg/Kg	85.00	79.50	11.90	88.1 ± 0.85
4-Methyl-2-pentanone (MIBK) 4995 Volatiles - Low Level (Solids)	µg/Kg	209.00	218.00	70.70	209 ± 2.03
Methyl tert-butyl ether (MTBE) 5000 Volatiles - Low Level (Solids)	µg/Kg	38.50	35.70	5.26	37.0 ± 0.36
Naphthalene 5005 Volatiles - Low Level (Solids)	µg/Kg	159.00	159.00	39.60	169 ± 1.64
Styrene 5100 Volatiles - Low Level (Solids)	µg/Kg	135.00	135.00	17.40	131 ± 1.27
1,1,1,2-Tetrachloroethane 5105 Volatiles - Low Level (Solids)	µg/Kg	77.40	77.70	9.81	76.4 ± 0.74
1,1,2,2-Tetrachloroethane 5110 Volatiles - Low Level (Solids)	µg/Kg	130.00	132.00	15.70	132 ± 1.28
Tetrachloroethylene (Perchloroethylene) 5115 Volatiles - Low Level (Solids)	µg/Kg	46.60	47.90	7.67	49.6 ± 0.48
Toluene 5140 Volatiles - Low Level (Solids)	µg/Kg	89.20	86.30	12.20	90.1 ± 0.87
1,2,4-Trichlorobenzene 5155 Volatiles - Low Level (Solids)	µg/Kg	86.50	86.50	15.10	86.1 ± 0.84
1,1,1-Trichloroethane 5160 Volatiles - Low Level (Solids)	µg/Kg	0.00			0.00
1,1,2-Trichloroethane 5165 Volatiles - Low Level (Solids)	µg/Kg	121.00	126.00	12.90	123 ± 1.19
Trichloroethene (Trichloroethylene) 5170 Volatiles - Low Level (Solids)	µg/Kg	0.00			0.00
Trichlorofluoromethane 5175 Volatiles - Low Level (Solids)	µg/Kg	162.00	162.00	31.60	169 ± 1.64
1,2,3-Trichloropropane 5180 Volatiles - Low Level (Solids)	µg/Kg	77.90	77.90	14.00	82.7 ± 0.8
1,2,4-Trimethylbenzene 5210 Volatiles - Low Level (Solids)	µg/Kg	150.00	150.00	24.10	145 ± 1.4
1,3,5-Trimethylbenzene 5215 Volatiles - Low Level (Solids)	µg/Kg	71.40	71.40	9.71	67.7 ± 0.66
Vinyl acetate 5225 Volatiles - Low Level (Solids)	µg/Kg	0.00			0.00
Vinyl chloride 5235 Volatiles - Low Level (Solids)	µg/Kg	0.00			0.00
m+p-Xylene 5240 Volatiles - Low Level (Solids)	µg/Kg	85.30	83.70	14.10	86.3 ± 0.837
o-Xylene 5250 Volatiles - Low Level (Solids)	µg/Kg	90.80	89.70	12.50	91.9 ± 0.89
Xylene, total 5260 Volatiles - Low Level (Solids)	µg/Kg	175.00	184.00	21.00	178 ± 1.73
Di-isopropylether (DIPE) 9375 Volatiles - Low Level (Solids)	µg/Kg	0.00			0.00

TCLP Metals in Soil

SPE-005 / Lot {EncryptedLotCode}

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
Arsenic, As 1010 TCLP Metals	mg/L	5.83	5.83	0.67	6.87
Barium, Ba 1015 TCLP Metals	mg/L	0.58	0.58	0.12	0.571
Beryllium, Be 1020 TCLP Metals	mg/L	0.00			0.00
Cadmium, Cd 1030 TCLP Metals	mg/L	5.55	5.55	0.47	5.66
Chromium, Cr (total) 1040 TCLP Metals	mg/L	0.43	0.43	0.08	0.465



TCLP Metals in Soil

SPE-005 / Lot {EncryptedLotCode}
(continued)

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
Copper, Cu 1055 TCLP Metals	mg/L	0.39	0.39	0.04	0.500
Lead, Pb 1075 TCLP Metals	mg/L	1.40	1.40	0.21	1.55
Mercury, Hg 1095 TCLP Metals	mg/L	0.13	0.13	0.03	0.109
Molybdenum, Mo 1100 TCLP Metals	mg/L	0.00			0.00
Nickel, Ni 1105 TCLP Metals	mg/L	2.95	2.95	0.23	3.50
Selenium, Se 1140 TCLP Metals	mg/L	4.37	4.37	0.61	3.85
Silver, Ag 1150 TCLP Metals	mg/L	0.03	0.03	0.02	0.0227
Zinc, Zn 1190 TCLP Metals	mg/L	1.96	1.96	0.20	2.00
Extraction Fluid 1311 TCLP Metals		1.00			1.00

Corrosivity - Soil

SPE-023 / Lot {EncryptedLotCode}

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
pH 1900 Miscellaneous Analytes	Units	7.35	7.34	0.08	7.35 ± 0.039

Flash Point

SPE-029 / Lot {EncryptedLotCode}

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
Ignitability (Flashpoint, °F) 1780 Miscellaneous Analytes	°F	170.00	169.00	6.73	170 ± 1.6

Uranium in Soil

SPE-071 / Lot {EncryptedLotCode}

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
Uranium, U 3035 Trace Metals	mg/Kg	247.00	231.00	1.75	247 ± 1.26

Definitions:

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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.

Program analyte accrediting footnotes

¹ NELAC

³ Other

⁵ NELAC Experimental

² EPA

⁴ A2LA

PERFORMANCE EVALUATION

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Off-study

LPTP09-2-186

4-May-2009 through 3-Jun-2009

RT1014

RTC Labcode

WY00002

US EPA Labcode

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Thank you for participating in study LPTP09-2-186. Additional information about this study may be found online at www.rt-corp.com. If you have any questions or comments about this study please contact me.

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Sincerely,

A handwritten signature in black ink, appearing to read "Chris Rucinski", is written over a light blue horizontal line.

Christopher Rucinski
Quality Director

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Dataset

LPTP09-2-186_Set_1

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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Water Quality Division

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Cheyenne WY 82002
UNITED STATES

Trace Metals

Analysis
EPA 7471A 1 (1994)

Method Number 10166208



Trace Metals (continued)

Analysis
EPA 7471A 1 (1994)

(continued)
Method Number 10166208

	Result Units	Assigned Value	Accept.	Z	Evaluation
Mercury, Hg 1, 4 1095 / 001 - Lot 012741 /Analyst: jp/ Analysis Date: 5/29/09	28.2 mg/Kg	24.70	12.7 to 36.7	0.88	Acceptable

Volatiles - Low Level (Solids)

Analysis
EPA 8260B 2 (1996)

Method Number 10184802

	Result Units	Assigned Value	Accept.	Z	Evaluation
1,2-Dibromo-3-chloropropane (DBCP) 4, 5 4570 / 002-L - Lot 014100 /Analyst: jlr/ Analysis Date: 5/19/09	37.7 µg/Kg	54.40	7.82 to 101	-1.08	Acceptable
1,2,4-Trichlorobenzene 1, 4 5155 / 002-L - Lot 014100 /Analyst: jlr/ Analysis Date: 5/19/09	42.0 µg/Kg	55.50	22.5 to 88.6	-1.23	Acceptable

End of LPTP09-2-186_Set_1



Dataset

LPTP09-2-186_Set_2

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Water Quality Division

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Cheyenne WY 82002
UNITED STATES

Volatiles - Low Level (Solids)

Analysis
EPA 8021B 2 (1996)

Method Number 10174808



Volatiles - Low Level (Solids) (continued)

Analysis
EPA 8021B 2 (1996)

(continued)
Method Number 10174808

	Result Units	Assigned Value	Accept.	Z	Evaluation
Methyl tert-butyl ether (MTBE) 1, 4 5000 / 002-L - Lot 014100 /Analyst: jlr/ Analysis Date: 5/9/09	<200 µg/Kg	74.70	31.9 to 118		Acceptable

End of LPTP09-2-186_Set_2



Sample Information

Metals in Soil

SPE-001 / Lot {EncryptedLotCode}

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
Mercury, Hg 1095 Trace Metals	mg/Kg	24.70	24.70	3.49	31.0

VOAs in Soil - Low Level

SPE-002-L / Lot {EncryptedLotCode}

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
1,2-Dibromo-3-chloropropane (DBCP) 4570 Volatiles - Low Level (Solids)	µg/Kg	54.40	54.40	15.50	55.1 ± 0.53
Methyl tert-butyl ether (MTBE) 5000 Volatiles - Low Level (Solids)	µg/Kg	74.70	77.00	14.80	76.5 ± 0.74
1,2,4-Trichlorobenzene 5155 Volatiles - Low Level (Solids)	µg/Kg	55.50	55.50	11.00	57.0 ± 0.55

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Program analyte accrediting footnotes

- 1 NELAC
- 2 EPA
- 3 Other
- 4 A2LA
- 5 NELAC Experimental

PERFORMANCE EVALUATION

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Off-study

LPTP09-2-217

20-May-2009 through 28-May-2009

RT1014

RTC Labcode

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US EPA Labcode

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Dataset

LPTP09-2-217_Set_1

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Water Quality Division

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Cheyenne WY 82002
UNITED STATES

Miscellaneous Analytes

Analysis
EPA 9095A (1996)

Method Number 10204203

	Result Units	Assigned Value	Accept.	Z	Evaluation
Free liquid 1745 / 075 - Lot 015091 /Analyst: cm/ Analysis Date: 5/27/09	FAIL mL	10.00	5.50 to 14.5		Acceptable

End of LPTP09-2-217_Set_1



Sample Information

Free Liquids in Paint

SPE-075 / Lot {EncryptedLotCode}

	Units	Assigned Value	Study Mean	Study Std. Dev.	Gravimetric Value
Free liquid 1745 Miscellaneous Analytes	mL	10.00			10.0

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Program analyte accrediting footnotes

1 NELAC

3 Other

5 NELAC Experimental

2 EPA

4 A2LA