



**ENVIRONMENTAL
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2773 Downhill Drive
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L 68796

SOIL-62



Final Report

Soil/Hazardous Waste Proficiency Testing

Soil Study

Open Date: 04/21/08

Close Date: 06/05/08

Report Issued Date: 06/26/08



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Study: **SOIL-62**

ERA Customer Number: **A144801**

Laboratory Name: **ACZ Laboratories**

Inorganic Results



SOIL-62 Final Complete Report



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EPA ID: CO00028
ERA Customer Number: A144801
Report Issued: 06/26/08
Study Dates: 04/21/08 - 06/05/08

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Metals in Soil							
1000	Aluminum	mg/kg	10400	12100	4840 - 16200	Acceptable	EPA 6010B
1005	Antimony	mg/kg	80.0	216	21.6 - 238	Acceptable	EPA 6010B
1010	Arsenic	mg/kg	95.0	113	72.5 - 136	Acceptable	EPA 6010B
1015	Barium	mg/kg	210	206	145 - 250	Acceptable	EPA 6010B
1020	Beryllium	mg/kg	76.3	85.7	57.4 - 97.7	Acceptable	EPA 6010B
1025	Boron	mg/kg	138	166	89.6 - 192	Acceptable	EPA 6010B
1030	Cadmium	mg/kg	57.9	67.2	44.5 - 77.1	Acceptable	EPA 6010B
1035	Calcium	mg/kg	9590	10300	7440 - 12300	Acceptable	EPA 6010B
1040	Chromium	mg/kg	234	262	167 - 305	Acceptable	EPA 6010B
1050	Cobalt	mg/kg	88.0	103	67.9 - 115	Acceptable	EPA 6010B
1055	Copper	mg/kg	170	189	131 - 216	Acceptable	EPA 6010B
1070	Iron	mg/kg	17200	18700	7570 - 28500	Acceptable	EPA 6010B
1075	Lead	mg/kg	85.0	97.0	60.0 - 112	Acceptable	EPA 6010B
1085	Magnesium	mg/kg	4200	4220	2780 - 5230	Acceptable	EPA 6010B
1090	Manganese	mg/kg	533	571	432 - 684	Acceptable	EPA 6010B
1095	Mercury	mg/kg		8.69	4.34 - 12.6	Not Reported	
1100	Molybdenum	mg/kg	48.0	57.8	32.2 - 65.0	Acceptable	EPA 6010B
1105	Nickel	mg/kg	135	152	98.1 - 170	Acceptable	EPA 6010B
1125	Potassium	mg/kg	4350	4900	2810 - 5790	Acceptable	EPA 6010B
1140	Selenium	mg/kg	269	317	199 - 373	Acceptable	EPA 6010B
1150	Silver	mg/kg	28.0	32.3	19.6 - 40.6	Acceptable	EPA 6010B
1155	Sodium	mg/kg	970	1070	614 - 1420	Acceptable	EPA 6010B
1160	Strontium	mg/kg	227	243	161 - 294	Acceptable	EPA 6010B
1165	Thallium	mg/kg	130	139	82.1 - 161	Acceptable	EPA 6010B
1175	Tin	mg/kg	100	115	59.4 - 148	Acceptable	EPA 6010B
1180	Titanium	mg/kg	538	523	80.2 - 844	Acceptable	EPA 6010B
1185	Vanadium	mg/kg	117	133	77.8 - 152	Acceptable	EPA 6010B
1190	Zinc	mg/kg	578	647	437 - 753	Acceptable	EPA 6010B



SOIL-62 Final Complete Report



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ERA Customer Number: A144801
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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Metals in Soil							
1000	Aluminum	mg/kg		12100	4840 - 16200	Not Reported	
1005	Antimony	mg/kg		216	21.6 - 238	Not Reported	
1010	Arsenic	mg/kg		113	72.5 - 136	Not Reported	
1015	Barium	mg/kg		206	145 - 250	Not Reported	
1020	Beryllium	mg/kg		85.7	57.4 - 97.7	Not Reported	
1025	Boron	mg/kg		166	89.6 - 192	Not Reported	
1030	Cadmium	mg/kg		67.2	44.5 - 77.1	Not Reported	
1035	Calcium	mg/kg		10300	7440 - 12300	Not Reported	
1040	Chromium	mg/kg		262	167 - 305	Not Reported	
1050	Cobalt	mg/kg		103	67.9 - 115	Not Reported	
1055	Copper	mg/kg		189	131 - 216	Not Reported	
1070	Iron	mg/kg		18700	7570 - 28500	Not Reported	
1075	Lead	mg/kg		97.0	60.0 - 112	Not Reported	
1085	Magnesium	mg/kg		4220	2780 - 5230	Not Reported	
1090	Manganese	mg/kg		571	432 - 684	Not Reported	
1095	Mercury	mg/kg	7.98	8.69	4.34 - 12.6	Acceptable	EPA 7471A
1100	Molybdenum	mg/kg		57.8	32.2 - 65.0	Not Reported	
1105	Nickel	mg/kg		152	98.1 - 170	Not Reported	
1125	Potassium	mg/kg		4900	2810 - 5790	Not Reported	
1140	Selenium	mg/kg		317	199 - 373	Not Reported	
1150	Silver	mg/kg		32.3	19.6 - 40.6	Not Reported	
1155	Sodium	mg/kg		1070	614 - 1420	Not Reported	
1160	Strontium	mg/kg		243	161 - 294	Not Reported	
1165	Thallium	mg/kg		139	82.1 - 161	Not Reported	
1175	Tin	mg/kg		115	59.4 - 148	Not Reported	
1180	Titanium	mg/kg		523	80.2 - 844	Not Reported	
1185	Vanadium	mg/kg		133	77.8 - 152	Not Reported	
1190	Zinc	mg/kg		647	437 - 753	Not Reported	



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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Metals in Soil							
1000	Aluminum	mg/kg	11200	12100	4840 - 16200	Acceptable	EPA 6020
1005	Antimony	mg/kg	76.0	216	21.6 - 238	Acceptable	EPA 6020
1010	Arsenic	mg/kg	104	113	72.5 - 136	Acceptable	EPA 6020
1015	Barium	mg/kg	211	206	145 - 250	Acceptable	EPA 6020
1020	Beryllium	mg/kg	80.8	85.7	57.4 - 97.7	Acceptable	EPA 6020
1025	Boron	mg/kg		166	89.6 - 192	Not Reported	
1030	Cadmium	mg/kg	58.3	67.2	44.5 - 77.1	Acceptable	EPA 6020
1035	Calcium	mg/kg		10300	7440 - 12300	Not Reported	
1040	Chromium	mg/kg	267	262	167 - 305	Acceptable	EPA 6020
1050	Cobalt	mg/kg	82.7	103	67.9 - 115	Acceptable	EPA 6020
1055	Copper	mg/kg	171	189	131 - 216	Acceptable	EPA 6020
1070	Iron	mg/kg		18700	7570 - 28500	Not Reported	
1075	Lead	mg/kg	91.0	97.0	60.0 - 112	Acceptable	EPA 6020
1085	Magnesium	mg/kg		4220	2780 - 5230	Not Reported	
1090	Manganese	mg/kg	580	571	432 - 684	Acceptable	EPA 6020
1095	Mercury	mg/kg		8.69	4.34 - 12.6	Not Reported	
1100	Molybdenum	mg/kg	56.0	57.8	32.2 - 65.0	Acceptable	EPA 6020
1105	Nickel	mg/kg	137	152	98.1 - 170	Acceptable	EPA 6020
1125	Potassium	mg/kg		4900	2810 - 5790	Not Reported	
1140	Selenium	mg/kg	305	317	199 - 373	Acceptable	EPA 6020
1150	Silver	mg/kg	31.0	32.3	19.6 - 40.6	Acceptable	EPA 6020
1155	Sodium	mg/kg		1070	614 - 1420	Not Reported	
1160	Strontium	mg/kg		243	161 - 294	Not Reported	
1165	Thallium	mg/kg	137	139	82.1 - 161	Acceptable	EPA 6020
1175	Tin	mg/kg		115	59.4 - 148	Not Reported	
1180	Titanium	mg/kg		523	80.2 - 844	Not Reported	
1185	Vanadium	mg/kg	103	133	77.8 - 152	Acceptable	EPA 6020
1190	Zinc	mg/kg	590	647	437 - 753	Acceptable	EPA 6020

SOIL Hexavalent Chromium in Soil

1045	Chromium VI	mg/kg	160	160	46.5 - 223	Acceptable	EPA 7196A
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SOIL Cyanide in Soil

1635	Cyanide, total	mg/kg	71.3	77.5	42.7 - 93.0	Acceptable	EPA 9012A
1640	Reactive Cyanide	mg/kg		< 25.0		Not Reported	

SOIL Corrosivity/pH in Soil

1625	Corrosivity (pH)	S.U.	10.2	10.3	9.70 - 10.9	Acceptable	EPA 9040B
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SOIL Ignitability/Flashpoint

1780	Ignitability/Flashpoint	°F	134	134	117 - 151	Acceptable	EPA 1010
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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Volatiles in Soil							
4315	Acetone	µg/kg		197	19.7 - 339	Not Reported	
4320	Acetonitrile	µg/kg		0.00		Not Reported	
4325	Acrolein	µg/kg		0.00		Not Reported	
4375	Benzene	µg/kg		58.3	33.7 - 81.0	Not Reported	
4385	Bromobenzene	µg/kg		103	73.3 - 132	Not Reported	
4395	Bromodichloromethane	µg/kg		134	87.7 - 185	Not Reported	
4400	Bromoform	µg/kg		59.5	29.6 - 88.5	Not Reported	
4950	Bromomethane	µg/kg		0.00		Not Reported	
4410	2-Butanone (MEK)	µg/kg		349	109 - 550	Not Reported	
5000	tert-Butyl methyl ether (MTBE)	µg/kg		182	77.0 - 266	Not Reported	
4450	Carbon disulfide	µg/kg		0.00		Not Reported	
4455	Carbon tetrachloride	µg/kg		110	53.7 - 162	Not Reported	
4475	Chlorobenzene	µg/kg		157	89.0 - 217	Not Reported	
4575	Chlorodibromomethane	µg/kg		124	75.5 - 171	Not Reported	
4485	Chloroethane	µg/kg		0.00		Not Reported	
4500	2-Chloroethylvinylether	µg/kg		0.00		Not Reported	
4505	Chloroform	µg/kg		64.7	38.7 - 91.0	Not Reported	
4960	Chloromethane	µg/kg		0.00		Not Reported	
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/kg		109	55.2 - 165	Not Reported	
4585	1,2-Dibromoethane (EDB)	µg/kg		68.7	42.6 - 94.5	Not Reported	
4595	Dibromomethane	µg/kg		0.00		Not Reported	
4610	1,2-Dichlorobenzene	µg/kg		47.7	22.4 - 68.0	Not Reported	
4615	1,3-Dichlorobenzene	µg/kg		80.2	29.8 - 118	Not Reported	
4620	1,4-Dichlorobenzene	µg/kg		116	40.0 - 165	Not Reported	
4625	Dichlorodifluoromethane (Freon 12)	µg/kg		0.00		Not Reported	
4630	1,1-Dichloroethane	µg/kg		164	93.4 - 236	Not Reported	
4635	1,2-Dichloroethane	µg/kg		22.5	13.9 - 33.1	Not Reported	
4640	1,1-Dichloroethylene	µg/kg		54.1	33.1 - 86.0	Not Reported	
4645	cis-1,2-Dichloroethylene	µg/kg		135	78.8 - 193	Not Reported	
4700	trans-1,2-Dichloroethylene	µg/kg		48.7	29.5 - 70.5	Not Reported	
4655	1,2-Dichloropropane	µg/kg		193	113 - 257	Not Reported	
4680	cis-1,3-Dichloropropylene	µg/kg		193	131 - 264	Not Reported	



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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Volatiles in Soil (Continued)							
4685	trans-1,3-Dichloropropylene	µg/kg		155	95.6 - 238	Not Reported	
4765	Ethylbenzene	µg/kg		158	88.6 - 225	Not Reported	
4860	2-Hexanone	µg/kg		382	220 - 498	Not Reported	
4900	Isopropylbenzene	µg/kg		131	70.8 - 222	Not Reported	
4975	Methylene chloride	µg/kg		197	92.3 - 283	Not Reported	
4995	4-Methyl-2-pentanone (MIBK)	µg/kg		193	84.1 - 282	Not Reported	
5005	Naphthalene	µg/kg		139	70.2 - 204	Not Reported	
5100	Styrene	µg/kg		45.1	26.6 - 71.8	Not Reported	
5105	1,1,1,2-Tetrachloroethane	µg/kg		129	84.2 - 175	Not Reported	
5110	1,1,2,2-Tetrachloroethane	µg/kg		22.5	10.2 - 35.6	Not Reported	
5115	Tetrachloroethylene	µg/kg		28.2	12.0 - 40.3	Not Reported	
5140	Toluene	µg/kg		120	69.0 - 169	Not Reported	
5155	1,2,4-Trichlorobenzene	µg/kg		98.2	36.4 - 147	Not Reported	
5160	1,1,1-Trichloroethane	µg/kg		90.9	50.9 - 130	Not Reported	
5165	1,1,2-Trichloroethane	µg/kg		43.3	26.4 - 62.1	Not Reported	
5170	Trichloroethylene	µg/kg		59.6	30.2 - 85.1	Not Reported	
5175	Trichlorofluoromethane	µg/kg		0.00		Not Reported	
5180	1,2,3-Trichloropropane (TCP)	µg/kg		44.6	12.1 - 74.7	Not Reported	
5225	Vinyl acetate	µg/kg		0.00		Not Reported	
5235	Vinyl chloride	µg/kg		0.00		Not Reported	
5260	Xylenes, total	µg/kg		348	173 - 508	Not Reported	



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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Base/Neutrals and Acids in Soil							
5500	Acenaphthene	µg/kg	3160	4200	1060 - 5180	Acceptable	EPA 8270C
5505	Acenaphthylene	µg/kg	2270	2840	636 - 3810	Acceptable	EPA 8270C
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/kg		0.00		Not Reported	
5545	Aniline	µg/kg	< 700	0.00		Acceptable	EPA 8270C
5555	Anthracene	µg/kg	8410	8580	2200 - 10800	Acceptable	EPA 8270C
5595	Benidine	µg/kg		0.00		Not Reported	
5610	Benzoic acid	µg/kg	< 2000	0.00		Acceptable	EPA 8270C
5575	Benzo(a)anthracene	µg/kg	2850	3490	1110 - 4510	Acceptable	EPA 8270C
5585	Benzo(b)fluoranthene	µg/kg	3390	4250	1120 - 5600	Acceptable	EPA 8270C
5600	Benzo(k)fluoranthene	µg/kg	3200	4160	1170 - 5610	Acceptable	EPA 8270C
5590	Benzo(g,h,i)perylene	µg/kg	1450	1460	226 - 2100	Acceptable	EPA 8270C
5580	Benzo(a)pyrene	µg/kg	3100	4160	976 - 5430	Acceptable	EPA 8270C
5630	Benzyl alcohol	µg/kg	< 300	0.00		Acceptable	EPA 8270C
5760	bis(2-Chloroethoxy)methane	µg/kg	10500	11800	2470 - 14200	Acceptable	EPA 8270C
5765	bis(2-Chloroethyl)ether	µg/kg	8970	10800	2790 - 11900	Acceptable	EPA 8270C
5780	bis(2-Chloroisopropyl)ether	µg/kg	2140	2900	300 - 3720	Acceptable	EPA 8270C
5660	4-Bromophenyl-phenylether	µg/kg	< 300	0.00		Acceptable	EPA 8270C
5670	Butylbenzylphthalate	µg/kg	< 300	0.00		Acceptable	EPA 8270C
5680	Carbazole	µg/kg		0.00		Not Reported	
5745	4-Chloroaniline	µg/kg	< 300	0.00		Acceptable	EPA 8270C
5700	4-Chloro-3-methylphenol	µg/kg	< 300	0.00		Acceptable	EPA 8270C
5790	1-Chloronaphthalene	µg/kg		0.00		Not Reported	
5795	2-Chloronaphthalene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
5800	2-Chlorophenol	µg/kg	4960	6860	1040 - 7710	Acceptable	EPA 8270C
5825	4-Chlorophenyl-phenylether	µg/kg	12900	13800	3740 - 17400	Acceptable	EPA 8270C
5855	Chrysene	µg/kg	2250	2610	824 - 3740	Acceptable	EPA 8270C
5895	Dibenz(a,h)anthracene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
5905	Dibenzofuran	µg/kg	7100	7390	1950 - 8990	Acceptable	EPA 8270C
5925	Di-n-butylphthalate	µg/kg	< 300	0.00		Acceptable	EPA 8270C
4610	1,2-Dichlorobenzene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
4615	1,3-Dichlorobenzene	µg/kg	7430	12400	1240 - 13600	Acceptable	EPA 8270C
4620	1,4-Dichlorobenzene	µg/kg	5280	8240	824 - 9060	Acceptable	EPA 8270C



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SOIL Base/Neutrals and Acids in Soil (Continued)							
5945	3,3'-Dichlorobenzidine	µg/kg	< 700	0.00		Acceptable	EPA 8270C
6000	2,4-Dichlorophenol	µg/kg	< 300	0.00		Acceptable	EPA 8270C
6005	2,6-Dichlorophenol	µg/kg		4350	1540 - 4780	Not Reported	
6070	Diethylphthalate	µg/kg	< 300	0.00		Acceptable	EPA 8270C
6130	2,4-Dimethylphenol	µg/kg	< 700	0.00		Acceptable	EPA 8270C
6135	Dimethylphthalate	µg/kg	< 300	0.00		Acceptable	EPA 8270C
6175	2,4-Dinitrophenol	µg/kg	4580	8240	0.00 - 9060	Acceptable	EPA 8270C
6185	2,4-Dinitrotoluene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
6190	2,6-Dinitrotoluene	µg/kg	< 2000	0.00		Acceptable	EPA 8270C
6200	Di-n-octylphthalate	µg/kg	< 300	0.00		Acceptable	EPA 8270C
6255	bis(2-Ethylhexyl)phthalate	µg/kg	3620	4090	956 - 5890	Acceptable	EPA 8270C
6265	Fluoranthene	µg/kg	1870	2460	773 - 3230	Acceptable	EPA 8270C
6270	Fluorene	µg/kg	2640	3340	945 - 4280	Acceptable	EPA 8270C
6275	Hexachlorobenzene	µg/kg	10300	9740	3110 - 12400	Acceptable	EPA 8270C
4835	Hexachlorobutadiene	µg/kg	8820	9650	1340 - 10600	Acceptable	EPA 8270C
6285	Hexachlorocyclopentadiene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
4840	Hexachloroethane	µg/kg	< 300	0.00		Acceptable	EPA 8270C
6315	Indeno(1,2,3-cd)pyrene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
6320	Isophorone	µg/kg	4450	5210	1640 - 6160	Acceptable	EPA 8270C
6360	4,6-Dinitro-2-methylphenol	µg/kg	11800	13700	0.00 - 15100	Acceptable	EPA 8270C
6385	2-Methylnaphthalene	µg/kg	2590	3090	1080 - 3680	Acceptable	EPA 8270C
6400	2-Methylphenol	µg/kg	4670	8350	835 - 9180	Acceptable	EPA 8270C
6410	3&4-Methylphenol	µg/kg	6850	11100	1600 - 12200	Acceptable	EPA 8270C
5005	Naphthalene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
6460	2-Nitroaniline	µg/kg	< 2000	0.00		Acceptable	EPA 8270C
6465	3-Nitroaniline	µg/kg	< 2000	0.00		Acceptable	EPA 8270C
6470	4-Nitroaniline	µg/kg	< 2000	0.00		Acceptable	EPA 8270C
5015	Nitrobenzene	µg/kg	6420	9030	1580 - 10500	Acceptable	EPA 8270C
6490	2-Nitrophenol	µg/kg	12500	14100	1780 - 16300	Acceptable	EPA 8270C
6500	4-Nitrophenol	µg/kg	6160	7750	775 - 10700	Acceptable	EPA 8270C
6525	N-Nitrosodiethylamine	µg/kg		0.00		Not Reported	
6530	N-Nitrosodimethylamine	µg/kg	3440	5450	701 - 6010	Acceptable	EPA 8270C



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SOIL Base/Neutrals and Acids in Soil (Continued)

6535	N-Nitrosodiphenylamine	µg/kg	< 300	0.00		Acceptable	EPA 8270C
6545	N-Nitroso-di-n-propylamine	µg/kg	9070	11100	1500 - 14600	Acceptable	EPA 8270C
6590	Pentachlorobenzene	µg/kg		0.00		Not Reported	
6605	Pentachlorophenol	µg/kg	12700	13900	1390 - 15300	Acceptable	EPA 8270C
6615	Phenanthrene	µg/kg	2810	3330	987 - 4380	Acceptable	EPA 8270C
6625	Phenol	µg/kg	6250	8410	841 - 10000	Acceptable	EPA 8270C
6665	Pyrene	µg/kg	1630	1810	570 - 2560	Acceptable	EPA 8270C
5095	Pyridine	µg/kg		0.00		Not Reported	
6715	1,2,4,5-Tetrachlorobenzene	µg/kg		0.00		Not Reported	
6735	2,3,4,6-Tetrachlorophenol	µg/kg		0.00		Not Reported	
5155	1,2,4-Trichlorobenzene	µg/kg	12000	13100	2370 - 14400	Acceptable	EPA 8270C
6835	2,4,5-Trichlorophenol	µg/kg	9380	9790	1540 - 12200	Acceptable	EPA 8270C
6840	2,4,6-Trichlorophenol	µg/kg	7770	7990	1600 - 9340	Acceptable	EPA 8270C

SOIL Diesel Range Organics (DRO) in Soil

9369	Diesel Range Organics (DRO)	mg/kg	910	1190	397 - 1680	Acceptable	EPA 8015B
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SOIL BTEX & MTBE in Soil

4375	Benzene	µg/kg		72.1	42.3 - 99.6	Not Reported	
5000	tert-Butyl methyl ether (MTBE)	µg/kg		141	59.5 - 208	Not Reported	
4765	Ethylbenzene	µg/kg		95.5	52.8 - 137	Not Reported	
5140	Toluene	µg/kg		88.4	50.6 - 124	Not Reported	
5260	Xylenes, total	µg/kg		263	130 - 386	Not Reported	





**ENVIRONMENTAL
RESOURCE ASSOCIATES®**
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Report Recipient	Contact/Phone Number	Reporting Type
Arizona	Terry Norcop / 602-364-0720	All Analytes
Arkansas	Jane Hurley / 501-682-0938	All Analytes
Nevada	Sara Rairick / 775-687-9490	All Analytes
Oklahoma	David Caldwell / 405-702-1039	All Analytes
Utah	Kristin Brown / 801-584-8467	All Analytes
Washington	Connie Schreiber / 360-895-6145	All Analytes