SDMS Document ID
2027314

Pilot Scale Soil Characterization Study
Total Metals and Inorganic Parameters

Sample ID	Sample Location	Location	QC Sample ID	QC Type	6010B mg/Kg AG	6010B mg/Kg AL	6010B mg/Kg AS	6010B mg/Kg BA	6010B mg/Kg BE	6010B mg/Kg CA	6010B mg/Kg CD	6010B mg/Kg CO	6010B mg/Kg CR	6010B mg/Kg CU	6010B mg/Kg FE	6010B mg/Kg HG	GFAA mg/Kg JN	6010B mg/Kg K	6010B mg/Kg MG	6010B mg/Kg MN	6010B mg/Kg NA	6010B mg/Kg NI	6010B mg/Kg PB	6010B mg/Kg SB	6010B mg/Kg SE	6010B mg/Kg TL	6010B mg/Kg V	6010B mg/Kg ZN	9081 meq/100g CE	9056 mg/L CH	9045C pH units PH	9056 mg/L Sulfate	90-3 % TOC
SC-00035	High As Residential	Adjacent		Field	0.5 U	5800	12	107	0.4	6440	1.37	3.5	11	31.5	9330	0.17	1 U	2100	1870	219	300	6.4	156	1 U	1 U	1 U	17.6	253	14.2	10.4	7	21.4	1.27
SC-00048	High As Residential	Adjacent		Field	0.5 U	7860	35	127	0.5	5370	6.72	5.2	16.9	18.5	12800	0.1 U	1 U	2200	2400	284	100	8.3	261	1	1 U	1 U	24.4	396	19	6.7	6.1	13	4.9
SC-00069	High As Residential	Adjacent		Field	0.5 U	8530	15	109	0.5	3790	2.46	5.3	15	15	13700	0.1 U	1 U	2400	2460	246	100	8.2	151	1	1 U	1 U	25.4	114	15.2	7.1	6.5	7.8	1.7
SC-00006	High As Residential	Focal		Field	1	7750	836	149	0.5	5240	10.2	5.2	116	31.8	12800	1.91	1 U	1600	2570	329	200	9.5	1490	5	1 U	1 U	23.9	313	24.4	27	6.4	20.4	3.32
SC-00015	High As Residential	Focal	SC-00046	Duplicate	0.5 U	13300	1470	283	0.8	8860	11.6	6.6	26.8	41.9	20100	1.54	1 U	2600	3420	373	300	12	1490	9	1	1 U	28.3	574	31.7	11	6.4	24.2	5.3
SC-00046	High As Residential	Focal		Field	0.5 U	13700	1490	296	0.9	9290	12.3	7	28.6	45.3	20600	1.64	1 U	2800	3820	426	200	13.3	1560	8	1	1 U	31.8	537	23.5	10.7	6.5	21.5	5.39
SC-00104	High As Residential	Focal		Field	2 U	7960	1490	142	0.6	5550	9.36	5	18.8	31.1	12300	1.98	1 U	2400	2580	279	100	9.2	1140	10	1	1 U	24.6	241	25.4	10.3	6.2	18.8	4.42
SC-00084	Intermediate As Residential	Adjacent		Field	0.5 U	5030	23	96	0.3	3870	2.88	3.6	13.6	19	8220	0.14	1 U	1600	1780	189	100	6.4	175	1 U	1 U	1 U	15.1	175	14.6	6.8	6.5	11.1	2.7
SC-00105	Intermediate As Residential	Adjacent		Field	0.5 U	7880	21	123	0.5	5340	1.81	4.8	18.2	18.8	12400	0.1 U	1 U	2600	2440	246	100 U	8	80.3	1	1 U	1 U	22.2	242	15.4	9	6.9	19.2	1.7
SC-00010	Intermediate As Residential	Focal		Field	0.6	9020	173	228	0.7	6200	6.08	5.7	15.2	49.2	15700	0.37	1 U	2600	2710	421	100	9.4	422	3	1 U	1 U	26	391	23.6	9.3	6.9	12.8	3.31
SC-00027	Intermediate As Residential	Focal		Field	0.5 U	7880	165	112	0.5	3360	3.32	5	22.3	16.6	13600	0.49	1 U	2000	2240	238	100	7	115	3	1 U	1 U	27.3	111	15.5	6.5	6.8	10.2	1.4
SC-00043	Intermediate As Residential	Focal	SC-00027	Duplicate	0.5 U	7310	142	109	0.5	3290	3.47	4.9	19.6	16.7	12300	0.42	1 U	1900	2190	250	100 U	7	119	2	1 U	1 U	24.5	112	13.9	8.6	6.7	9.4	2.31
SC-00086	Intermediate As Residential	Focal		Field	0.5 U	7230	185	105	0.5	2230	3.1	4.7	25.4	18.3	12700	0.25	1 U	1900	2040	227	100 U	7.5	203	3	1 U	1 U	20.8	129	16.8	6.1	4.8	64.2	2.34
SC-00017	Low As Residential	Adjacent		Field	0.5 U	6820	9	93	0.4	2850	0.91	4.3	10.3	11.3	11200	0.1 U	1 U	1800	1950	215	100	6.4	39.2	1 U	1 U	1 U	21.7	59.5	11.5	9.6	7.7	6.6	1.08
SC-00083	Low As Residential	Adjacent		Field	0.5 U	8470	12	149	0.6	4720	2.47	5.4	16.5	29.5	14300	0.33	1 U	2200	2270	334	100	8	161	1	1 U	1 U	27.6	359	15.2	13.8	7.3	16.1	1.77
SC-00101	Low As Residential	Adjacent		Field	0.5 U	8310	10	131	0.6	5330	2.48	5.4	14.4	21.3	12700	0.1 U	1 U	2600	2540	278	100	9	105	1 U	1 U	1 U	23.9	307	15.7	5.2	6.5	10.2	1.64
SC-00025	Low As Residential	Focal		Field	0.5 U	8530	24	135	0.5	5360	3.08	5.5	14.8	20.9	14100	0.1	1 U	3000	2620	293	100 U	8.3	126	1	1 U	1 U	25.4	191	16.6	6.4	6.7	13	2.44
SC-00038	Low As Residential	Focal		Field	0.5 U	7100	23	117	0.5	3420	3.3	4.6	12.7	18.2	11900	0.2	1 U	2000	2160	249	100	6.6	151	1 U	1 U	1 U	20.6	199	13.5	9.2	6.8	8.8	2.49
SC-00039	Low As Residential	Focal		Field	0.5 U	7070	25	93.1	0.5	2670	1.93	4.8	15.1	14	12200	0.1 U	1 U	1800	2230	228	100	7.1	91.6	1 U	1 U	1 U	22.8	137	11.6	9.8	6.5	10.6	3.02
SC-00114	Low As Residential	Focal	SC-00039	Duplicate	0.5 U	6720	22	92.7	0.5	3040	1.86	4.5	12.4	14.4	11100	0.1 U	1 U	1700	2140	228	100	7	81.7	1 U	1 U	1 U	20.4	137	11.3	13	6.6	12	2.09
SC-00065	Baseline Soil			Field	0.5 U	4960	7	91.6	0.4	2220	3.09	3.7	9.7	20.3	10100	0.1 U	1 U	1700	1440	207	100 U	5.3	101	1 U	1 U	1 U	17.1	184	8.36	5.2	6.5	5.5	1.44
SC-00071	Baseline Soil		SC-00065	Duplicate	0.5 U	4580	6	93.7	0.3	2010	2.98	3.3	9.1	19.4	8790	0.1 U	1 U	1500	1290	207	100 U		96.3	1 U	1 U	1 U	15.5	181	8.61	5.8	6.6	5.5	1.59
SC-00018	Smelter Site Soil A			Field	50 U	7190	27200	147	0.4	26900	1080	1.7	12.2	88.2	14600	900	100	900	860	223	200	5.8	5660	1940	3540	164	25.8	1220	15.2	9.8	5.9	1520	0.3
SC-00011	Smelter Site Soil B			Field	5 U	7140	22400	582	1 U	14100	7650	5 U	9.2	178	19200	461	120	1200	1350	949	200	11	4520	563	2020	190	22	2470	14.9	5.6	6.7	1520	0.54
SC-00070	Smelter Site Soil C			Field	20 U	6400	15300	303	0.4	18300	5060	4.2	13.8	129	14100	680	116	1300	1300	520	200	8	3500	363	745	132	19.4	1260	12.1	6.9	7.1	1180	0.23
SC-00077	Smelter Site Soil D			Field	5 U	5800	24300	205	1 U	27900	6130	5 U	18	292	15300	1060	106	1000	880	276	200	7	5160	1410	2740	240	23	1280	11.7	7.9	6.3	1690	0.43
SC-00023	Smelter Material			Field	2 U	1920	7630	35.5	0.1	8840	1290	0.5	2.9	84.4	2280	79	29	500 U	60	14.2	100 U	0.6	2160	430	371	54	6.7	190	1.69	9.1	4.7	1400	0.02
SC-00091	PAX Herbicide		SC-00099	Duplicate	1.7	278	145000	5.4	0.51 U	2840	11.5	2.1 U	4.2	197	765	64.3	0.35 *	27600	289	184	1060	2.3	36800	2670	22.6	7.3	5.4	169					
SC-00099	PAX Herbicide			Field	1.2	405	120000	7.4	0.48 U	5410	8.2	1.9 U	7.8	143	767	35.9	0.26 *	37600	352	138	1450	3.4	24300	1930	16.2	5.8 U	8	132					
3-15669-B	ACME Arsenate of Lead Herbicide			Field	7.6	78.7 U	275000 J	20.9	2 U	393 U	11.1	7.9 U	7.9 U	112 J	384	22.9	1.3 * J	787 U	78.7 U	3.9 U	393 U	7.9 U	129000 J	2350 J	11.8 U	23.6 U	5.1	39.3					

* = Method 6020 ICP-MS used rather than GFAA
J = Estimated Value
U = Non-Detect
CE = Cation Exchange
CH = Chloride
TOC = Total Organic Carbon