Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.3529	.49685	.47230	.52673	.42197	.50097	.50703
SDev	.0467	.00555	.00364	.00767	.00637	.00697	.00682
%RSD	1.9829	1.1170	.77037	1.4556	1.5092	1.3909	1.3444
#1	2.3859	.50077	.47487	.53215	.42647	.50590	.51185
#2	2.3200	.49292	.46973	.52131	.41747	.49605	.50221

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.795	.42900	.41341	.44601	2.5092	.47562	.46644
SDev	.184	.00653	.00622	.00681	.0235	.00683	.00888
%RSD	1.5584	1.5224	1.5045	1.5263	.93546	1.4359	1.9045
#1	11.925	.43361	.41781	.45083	2.5258	.48045	.47273
#2	11.665	.42438	.40901	.44120	2.4926	.47080	.46016

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.44634	4.4622	.44658	.47300	.48357	12.444	.87676
SDev	.00683	.0668	.00706	.00727	.00843	.183	.02164
%RSD	1.5300	1.4968	1.5801	1.5366	1.7422	1.4726	2.4685
#1	.45116	4.5095	.45157	.47814	.48953	12.573	.89207
#2	.44151	4.4150	.44159	.46786	.47761	12.314	.86146

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.23643	12.140	12.166	.26497	.53659	.41887	.48259
SDev	.00291	.101	.172	.00384	.00392	.00701	.00702
%RSD	1.2306	.83084	1.4106	1.4491	.73104	1.6734	1.4553
#1	.23849	12.212	12.287	.26769	.53936	.42383	.48756
#2	.23437	12.069	12.045	.26226	.53382	.41392	.47762

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.44865	.50557	.39748	.50093	.38999	.47456
SDev	.00711	.00695	.00534	.01065	.00160	.00944
%RSD	1.5853	1.3750	1.3441	2.1269	.41072	1.9900
#1	.45368	.51049	.40126	.50846	.39113	.48124
#2	.44362	.50066	.39370	.49339	.38886	.46788

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	27624	--	--	--	--	--	--
SDev	214.2534	--	--	--	--	--	--
%RSD	.7756199	--	--	--	--	--	--
#1	27472	--	--	--	--	--	--
#2	27775	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: SRP

Run Time: 01/30/12 14:06:42
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10882	.00166	-.00076	.00035	-.00155	.00147	.00028
SDev	.00181	.00076	.00163	.00003	.00002	.00080	.00006

%RSD	1.6654	46.147	213.56	7.0299	1.1789	54.439	22.045
#1	.11010	.00112	.00039	.00033	-.00156	.00204	.00033
#2	.10754	.00220	-.00192	.00037	-.00154	.00091	.00024

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00481	-.00003	.00027	-.00401	.01335	.00036	.00066
SDev	.00034	.00022	.00044	.00007	.01524	.00001	.00004
%RSD	7.1259	682.03	167.16	1.8264	114.09	3.8545	5.8431
#1	-.00456	-.00019	.00058	-.00406	.02413	.00037	.00069
#2	-.00505	.00012	-.00005	-.00396	.00258	.00035	.00063

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00262	.00581	.00002	.00032	.00035	-.06985	-.01150
SDev	.00479	.00523	.00007	.00062	.00027	.02760	.00133
%RSD	182.70	90.007	416.11	195.26	78.751	39.515	11.605
#1	-.00077	.00951	-.00003	.00075	.00054	-.05034	-.01056
#2	.00601	.00211	.00007	-.00012	.00015	-.08937	-.01244

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00026	-.01043	.01314	.00011	.00133	-.00077	.00030
SDev	.00048	.09172	.00148	.00001	.00137	.00040	.00010
%RSD	183.33	879.03	11.291	12.546	102.87	52.149	33.864
#1	.00060	.05442	.01419	.00010	.00230	-.00048	.00037
#2	-.00008	-.07529	.01209	.00012	.00036	-.00105	.00023

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00047	-.00045	-.00000	.00099	.00442	.00172
SDev	.00007	.00004	.00119	.00054	.00118	.00660
%RSD	15.639	9.8091	44502.	54.118	26.633	382.82
#1	.00041	-.00048	.00084	.00061	.00359	-.00294
#2	.00052	-.00042	-.00085	.00137	.00525	.00639

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	26934	--	--	--	--	--	--
SDev	207.8894	--	--	--	--	--	--
%RSD	.7718474	--	--	--	--	--	--
#1	26787	--	--	--	--	--	--

#2	27081	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-49143-a-6-a Operator: SRP
Run Time: 01/30/12 14:10:33
Comment: TRACE 61E

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Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	205.29	.00315	.14300	2.2742	.01404	.10294	.00125
SDev	.04	.00053	.00098	.0006	.00001	.00012	.00020
%RSD	.02144	16.820	.68852	.02784	.07706	.11532	16.337
#1	205.32	.00277	.14231	2.2747	.01405	.10302	.00139
#2	205.26	.00352	.14370	2.2738	.01403	.10285	.00111

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	589.02	.21895	.10443	.15344	270.91	.22767	.38769
SDev	1.35	.00038	.00074	.00004	.49	.00017	.00057
%RSD	.22908	.17233	.70780	.02798	.18212	.07443	.14606
#1	589.97	.21921	.10495	.15347	271.26	.22755	.38729
#2	588.07	.21868	.10391	.15341	270.56	.22779	.38809

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03342	33.781	7.7344	.00440	.23456	24.643	8.6500
SDev	.00402	.060	.0147	.00101	.00049	.031	.0021
%RSD	12.027	.17681	.18949	22.891	.21109	.12618	.02434
#1	-.03058	33.823	7.7448	.00512	.23491	24.621	8.6485
#2	-.03626	33.739	7.7240	.00369	.23421	24.665	8.6515

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00359	109.71	100.44	2.3928	.02667	.02640	.31862
SDev	.00047	.07	.10	.0008	.00340	.00150	.00065
%RSD	13.030	.06521	.09677	.03249	12.741	5.6640	.20502
#1	-.00326	109.66	100.51	2.3934	.02908	.02745	.31908
#2	-.00392	109.76	100.38	2.3923	.02427	.02534	.31816

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.74499	.47929	.29430	.43439	-.01819	-.04104
SDev	.00114	.00005	.00138	.00154	.00652	.00277
%RSD	.15372	.01133	.47036	.35487	35.870	6.7436
#1	.74580	.47925	.29528	.43330	-.01357	-.03908
#2	.74418	.47933	.29332	.43548	-.02280	-.04299

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31704	--	--	--	--	--	--
SDev	119.5011	--	--	--	--	--	--

%RSD	.3769214	--	--	--	--	--	--
#1	31620	--	--	--	--	--	--
#2	31789	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-49143-b-8-a Operator: SRP
Run Time: 01/30/12 14:14:24
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	130.50	.01898	.16469	1.6621	.00737	.05329	.02213
SDev	3.25	.00246	.00573	.0402	.00015	.00174	.00034
%RSD	2.4920	12.949	3.4794	2.4172	2.0038	3.2590	1.5207
#1	132.80	.02072	.16874	1.6905	.00747	.05452	.02237
#2	128.21	.01725	.16064	1.6337	.00726	.05206	.02189

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1177.1	.16112	.08920	.24503	176.03	.10217	4.0183
SDev	23.7	.00364	.00105	.00619	3.84	.00265	.0891
%RSD	2.0143	2.2594	1.1774	2.5276	2.1806	2.5902	2.2165
#1	1193.8	.16370	.08994	.24941	178.74	.10404	4.0813
#2	1160.3	.15855	.08846	.24065	173.32	.10030	3.9553

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02217	25.456	9.4242	.00701	.32330	48.354	10.583
SDev	.00309	.589	.2113	.00106	.00558	1.182	.252
%RSD	13.951	2.3124	2.2417	15.155	1.7271	2.4436	2.3802
#1	-.02436	25.873	9.5735	.00626	.32725	49.189	10.761
#2	-.01998	25.040	9.2748	.00776	.31936	47.518	10.405

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00279	3.4211	4.4134	5.8024	.01499	.04904	.24169
SDev	.00096	.1919	.1139	.1407	.00346	.00269	.00567
%RSD	34.466	5.6088	2.5813	2.4243	23.051	5.4954	2.3468
#1	-.00347	3.2855	4.4940	5.9019	.01255	.04713	.24570
#2	-.00211	3.5568	4.3329	5.7030	.01744	.05094	.23768

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.58691	.78429	3.3753	4.3399	-.00902	-.02874
SDev	.01334	.01804	.0743	.0965	.00694	.00117
%RSD	2.2722	2.2999	2.2005	2.2227	76.859	4.0753
#1	.59634	.79705	3.4278	4.4081	-.01393	-.02957
#2	.57748	.77154	3.3227	4.2716	-.00412	-.02791

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--

Wavlen	371.030	--	--	--	--	--	--
Avge	28927	--	--	--	--	--	--

SDev	571.3423	--	--	--	--	--	--
%RSD	1.975118	--	--	--	--	--	--
#1	28523	--	--	--	--	--	--
#2	29331	--	--	--	--	--	--

Method: 20076010 Sample Name: PDS-600-49143-b-1-a Operator: SRP
Run Time: 01/30/12 14:18:15
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	171.76	.87798	.93458	2.5609	.35780	.97704	.41993
SDev	.02	.00714	.00281	.0031	.00034	.00251	.00094
%RSD	.01412	.81334	.30011	.11947	.09502	.25734	.22350
#1	171.77	.87293	.93260	2.5630	.35756	.97527	.41927
#2	171.74	.88303	.93656	2.5587	.35804	.97882	.42059

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	325.99	.88608	.80609	.98463	226.56	1.2164	1.6869
SDev	.69	.00140	.00080	.00210	.30	.0007	.0059
%RSD	.21232	.15802	.09877	.21299	.13410	.05523	.34726
#1	325.50	.88509	.80553	.98612	226.34	1.2168	1.6828
#2	326.48	.88707	.80666	.98315	226.77	1.2159	1.6910

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.72684	29.086	3.4369	.80073	1.0256	35.432	10.276
SDev	.00111	.038	.0031	.00229	.0010	.008	.006
%RSD	.15301	.13001	.09083	.28538	.10046	.02394	.06247
#1	.72606	29.059	3.4347	.79912	1.0263	35.438	10.272
#2	.72763	29.112	3.4391	.80235	1.0249	35.426	10.281

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.41512	150.18	128.30	2.4398	.91903	.74786	1.1726
SDev	.00055	.02	.02	.0012	.00325	.00196	.0009
%RSD	.13142	.01129	.01385	.05096	.35390	.26206	.07346
#1	.41550	150.19	128.29	2.4407	.91674	.74648	1.1719
#2	.41473	150.17	128.31	2.4390	.92133	.74925	1.1732

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.2891	1.3122	1.3988	1.8309	.63074	.77490
SDev	.0011	.0024	.0010	.0083	.00310	.00322
%RSD	.08548	.17974	.07313	.45198	.49087	.41505
#1	1.2883	1.3105	1.3981	1.8251	.63293	.77262
#2	1.2899	1.3138	1.3995	1.8368	.62855	.77717

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IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30063	--	--	--	--	--	--
SDev	76.36753	--	--	--	--	--	--
%RSD	.2540250	--	--	--	--	--	--
#1	30009	--	--	--	--	--	--
#2	30117	--	--	--	--	--	--

Method: 20076010 Sample Name: SD-600-49143-b-1-a@5 Operator: SRP
Run Time: 01/30/12 14:22:06
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.060	.00319	.02992	.39303	.00135	.02369	.00135
SDev	.112	.00215	.00157	.00103	.00001	.00034	.00003
%RSD	.28590	67.408	5.2404	.26187	.63545	1.4285	1.9357
#1	39.139	.00471	.03103	.39376	.00135	.02393	.00133
#2	38.981	.00167	.02881	.39231	.00136	.02346	.00137

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	83.099	.04368	.03353	.04109	53.629	.03357	.22811
SDev	.179	.00034	.00010	.00015	.132	.00004	.00204
%RSD	.21594	.77871	.29526	.36395	.24684	.12792	.89457
#1	83.226	.04392	.03360	.04120	53.722	.03360	.22955
#2	82.972	.04344	.03346	.04099	53.535	.03353	.22667

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00324	5.5071	.67241	.00166	.05976	4.5674	2.2928
SDev	.00072	.0137	.00191	.00158	.00019	.0017	.0120
%RSD	22.322	.24896	.28394	95.142	.32489	.03628	.52349
#1	-.00273	5.5168	.67376	.00278	.05962	4.5662	2.3013
#2	-.00376	5.4974	.67106	.00054	.05990	4.5685	2.2843

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00053	27.927	27.651	.45664	.00587	.01137	.09011
SDev	.00008	.023	.006	.00081	.00169	.00104	.00036
%RSD	15.245	.08169	.02067	.17792	28.817	9.1074	.40365
#1	-.00047	27.911	27.647	.45722	.00468	.01211	.09037
#2	-.00058	27.944	27.655	.45607	.00707	.01064	.08985

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13083	.11878	.18418	.25007	-.00238	-.00368
SDev	.00051	.00046	.00075	.00269	.00235	.00226
%RSD	.38575	.39090	.40666	1.0742	98.914	61.547

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#1	.13118	.11911	.18471	.25197	-.00404	-.00208
#2	.13047	.11846	.18365	.24817	-.00072	-.00528

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	27893	--	--	--	--	--	--
SDev	53.74012	--	--	--	--	--	--
%RSD	.1926652	--	--	--	--	--	--
#1	27855	--	--	--	--	--	--
#2	27931	--	--	--	--	--	--

Method: 20076010 Sample Name: CRI-met1211low_00003 Operator: SRP
Run Time: 01/30/12 14:25:58
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19915	.01342	.01200	.01136	.00239	.01210	.00532
SDev	.00823	.00102	.00087	.00023	.00008	.00101	.00016
%RSD	4.1317	7.5606	7.2811	2.0092	3.2158	8.3628	3.0424
#1	.20496	.01270	.01261	.01152	.00244	.01282	.00544
#2	.19333	.01414	.01138	.01120	.00234	.01139	.00521

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07701	.00894	.00834	.00509	.11886	.00941	.00953
SDev	.00720	.00034	.00040	.00033	.00736	.00026	.00065
%RSD	9.3545	3.8536	4.7717	6.4193	6.1881	2.7737	6.8494
#1	.08210	.00918	.00862	.00532	.12406	.00959	.00999
#2	.07191	.00869	.00805	.00486	.11366	.00922	.00907

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00766	.09138	.00928	.00909	.01078	.54366	-.00033
SDev	.00178	.01134	.00031	.00075	.00062	.05874	.00422
%RSD	23.249	12.410	3.3004	8.2320	5.7513	10.806	1290.4
#1	.00892	.09940	.00950	.00856	.01122	.58520	.00266
#2	.00640	.08336	.00907	.00962	.01034	.50212	-.00331

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00478	.60892	.57460	.00546	.01269	.00914	.01009
SDev	.00028	.11575	.01385	.00013	.00189	.00091	.00023
%RSD	5.9504	19.010	2.4108	2.3182	14.881	9.9334	2.2599
#1	.00498	.69077	.58440	.00555	.01402	.00978	.01025
#2	.00458	.52707	.56481	.00537	.01135	.00850	.00993

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2

Analysis Report Blank Sample 01/30/12 02:29:46 PM page 19

Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00993	.01008	.00447	.01206	.00452	.00923	
SDev	.00061	.00027	.00300	.00052	.00417	.00058	
%RSD	6.1792	2.6875	67.075	4.3219	92.321	6.3267	
#1	.01037	.01028	.00660	.01169	.00747	.00964	
#2	.00950	.00989	.00235	.01243	.00157	.00881	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	27140	--	--	--	--	--	--
SDev	367.6955	--	--	--	--	--	--
%RSD	1.354810	--	--	--	--	--	--
#1	26880	--	--	--	--	--	--
#2	27400	--	--	--	--	--	--

Method: 20076010 Sample Name: ICSA-metisa_00067 Operator: SRP
Run Time: 01/30/12 14:29:49
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	426.81	.00468	-.00111	.00175	-.00220	.00016	-.00238
SDev	1.35	.00241	.00034	.00002	.00004	.00042	.00031
%RSD	.31561	51.589	30.965	1.1380	1.9724	269.77	12.842
#1	425.86	.00297	-.00087	.00173	-.00217	.00045	-.00216
#2	427.77	.00639	-.00135	.00176	-.00223	-.00014	-.00259

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	402.09	.00043	-.00040	.00729	178.43	.00453	.00498
SDev	.19	.00002	.00005	.00007	.20	.00000	.00045
%RSD	.04734	5.0368	11.313	1.0093	.11373	.00381	9.0979
#1	401.95	.00044	-.00037	.00735	178.28	.00453	.00530
#2	402.22	.00041	-.00043	.00724	178.57	.00453	.00466

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02289	420.80	-.00594	-.00078	.00048	-.04685	-.00863
SDev	.00051	.67	.00002	.00052	.00094	.00494	.00025
%RSD	2.2470	.15812	.39733	66.447	197.57	10.547	2.9413
#1	-.02253	420.33	-.00595	-.00041	-.00019	-.04335	-.00845
#2	-.02325	421.27	-.00592	-.00114	.00114	-.05034	-.00881

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00099	.04345	.15715	-.00775	.02831	-.00132	-.00232
SDev	.00047	.02741	.00139	.00001	.00009	.00195	.00018
%RSD	47.803	63.088	.88756	.18897	.32344	147.82	7.5438

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#1	-.00065	.06284	.15813	-.00774	.02837	.00006	-.00220
#2	-.00132	.02407	.15616	-.00776	.02824	-.00269	-.00245

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00527	-.00240	-.06761	.04128	-.00130	-.03368
SDev	.00017	.00045	.00346	.00105	.00295	.00225
%RSD	3.1627	18.881	5.1167	2.5437	226.56	6.6677
#1	.00538	-.00272	-.06516	.04053	-.00339	-.03210
#2	.00515	-.00208	-.07005	.04202	.00078	-.03527

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24560	--	--	--	--	--	--
SDev	86.26703	--	--	--	--	--	--
%RSD	.3512501	--	--	--	--	--	--
#1	24621	--	--	--	--	--	--
#2	24499	--	--	--	--	--	--

Method: 20076010 Sample Name: ICSAB-metisb_00069 Operator: SRP
Run Time: 01/30/12 14:33:40
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	445.50	1.0425	.96122	1.0975	.38905	1.0590	.47606
SDev	4.25	.0098	.01617	.0085	.00346	.0115	.00537
%RSD	.95310	.94011	1.6823	.77218	.88877	1.0864	1.1275
#1	442.49	1.0355	.94979	1.0915	.38660	1.0509	.47227
#2	448.50	1.0494	.97266	1.1035	.39149	1.0671	.47986

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	422.62	.79726	.73846	.92880	193.57	1.2860	.89417
SDev	4.45	.00760	.00666	.00633	1.97	.0104	.00795
%RSD	1.0518	.95393	.90237	.68155	1.0174	.80803	.88919
#1	419.48	.79188	.73375	.92432	192.18	1.2787	.88855
#2	425.76	.80263	.74317	.93327	194.96	1.2934	.89979

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.86624	441.33	.84501	.91556	.89256	15.457	.85638
SDev	.01841	4.41	.00799	.00611	.00566	.151	.00588
%RSD	2.1256	.99841	.94530	.66778	.63452	.97564	.68652
#1	.85322	438.21	.83936	.91123	.88855	15.350	.85222
#2	.87926	444.44	.85065	.91988	.89656	15.564	.86053

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Analysis Report Blank Sample 01/30/12 02:37:28 PM page 21

Avge	.50033	11.829	14.253	.53843	1.0803	.79876	.93494
SDev	.00411	.170	.122	.00437	.0041	.00669	.00845
%RSD	.82242	1.4410	.85402	.81232	.37927	.83773	.90353

#1	.49742	11.709	14.167	.53533	1.0774	.79403	.92897
#2	.50324	11.950	14.339	.54152	1.0832	.80349	.94091

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.85384	.99299	.68635	.99808	.76607	.91633
SDev	.00810	.01040	.00280	.01332	.01207	.03365
%RSD	.94869	1.0473	.40716	1.3349	1.5757	3.6728
#1	.84811	.98563	.68832	.98866	.77461	.89253
#2	.85956	1.0003	.68437	1.0075	.75754	.94013

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24141	--	--	--	--	--	--
SDev	151.3209	--	--	--	--	--	--
%RSD	.6268210	--	--	--	--	--	--
#1	24248	--	--	--	--	--	--
#2	24034	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV-met0112ccv_00002 Operator: SRP
Run Time: 01/30/12 14:37:32
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4427	.51106	.47241	.53957	.40884	.51188	.51485
SDev	.0375	.00017	.00404	.00084	.00138	.00066	.00208
%RSD	1.5363	.03393	.85539	.15508	.33724	.12850	.40391
#1	2.4162	.51093	.47526	.53898	.40981	.51142	.51632
#2	2.4692	.51118	.46955	.54016	.40786	.51235	.51338

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.822	.41949	.40282	.43565	2.5935	.49247	.46682
SDev	.003	.00160	.00170	.00040	.0015	.00148	.00113
%RSD	.02545	.38168	.42255	.09257	.05620	.30079	.24210
#1	11.820	.42063	.40403	.43537	2.5945	.49142	.46762
#2	11.824	.41836	.40162	.43594	2.5925	.49351	.46602

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.44886	4.5003	.44296	.47256	.49155	12.940	.84076
SDev	.00078	.0217	.00143	.00143	.00313	.042	.00055
%RSD	.17430	.48230	.32280	.30319	.63657	.32817	.06508
#1	.44941	4.4849	.44397	.47357	.49376	12.910	.84114

#2	.44831	4.5156	.44195	.47155	.48933	12.970	.84037

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.23579	12.311	12.529	.27210	.54914	.41309	.48404
SDev	.00016	.105	.051	.00036	.00703	.00145	.00086

%RSD	.06716	.85641	.40931	.13176	1.2800	.35118	.17719
#1	.23590	12.236	12.493	.27185	.54417	.41411	.48464
#2	.23568	12.385	12.565	.27236	.55411	.41206	.48343

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.44230	.51000	.38698	.50674	.38350	.48154
SDev	.00058	.00129	.00170	.00084	.00295	.00030
%RSD	.13072	.25245	.44026	.16643	.76785	.06205
#1	.44271	.51091	.38819	.50733	.38558	.48133
#2	.44189	.50909	.38578	.50614	.38142	.48175

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	26320	--	--	--	--	--	--
SDev	33.94112	--	--	--	--	--	--
%RSD	.1289557	--	--	--	--	--	--
#1	26296	--	--	--	--	--	--
#2	26344	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: SRP
Run Time: 01/30/12 14:41:23
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15103	.00224	.00045	.00052	-.00156	.00252	.00017
SDev	.00379	.00133	.00030	.00011	.00005	.00083	.00001
%RSD	2.5073	59.422	66.008	20.433	3.2229	32.981	3.0465
#1	.14835	.00318	.00067	.00060	-.00153	.00311	.00016
#2	.15371	.00130	.00024	.00045	-.00160	.00193	.00017

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03076	.00010	-.00014	-.00429	.01466	.00035	.00049
SDev	.00288	.00011	.00007	.00015	.01104	.00007	.00005
%RSD	9.3500	107.38	52.422	3.4219	75.286	19.588	10.800
#1	.02872	.00018	-.00019	-.00419	.02247	.00040	.00045
#2	.03279	.00002	-.00009	-.00440	.00686	.00030	.00053

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00041	.04340	.00013	.00034	.00017	-.08657	-.02478

SDev	.00144	.00300	.00010	.00109	.00017	.02948	.00144
%RSD	346.28	6.9084	74.239	324.95	102.51	34.059	5.8176
#1	.00143	.04552	.00021	.00110	.00029	-.06572	-.02377
#2	-.00060	.04128	.00006	-.00043	.00005	-.10742	-.02580

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	-.00027	-.03072	.01599	.00016	.00161	-.00045	.00036
SDev	.00022	.00884	.00357	.00005	.00185	.00058	.00018
%RSD	82.903	28.766	22.298	29.784	114.46	129.89	50.516
#1	-.00011	-.02447	.01851	.00020	.00292	-.00004	.00049
#2	-.00043	-.03697	.01347	.00013	.00031	-.00086	.00023

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00052	-.00015	-.00062	.00105	.00293	-.00084
SDev	.00033	.00027	.00110	.00047	.00197	.00117
%RSD	64.383	183.57	176.53	44.840	67.142	138.31
#1	.00075	.00004	-.00140	.00138	.00432	-.00002
#2	.00028	-.00034	.00015	.00072	.00154	-.00167

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	27438	--	--	--	--	--	--
SDev	7.778174	--	--	--	--	--	--
%RSD	.0283487	--	--	--	--	--	--
#1	27432	--	--	--	--	--	--
#2	27443	--	--	--	--	--	--

Metals Worksheet

Batch Number: 600-70887
Method: 245.1
Analyst: Lige, Derrick C

Date Open: Jan 25 2012 1:58P
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	MER0112S1_00015	MER0112S2_00015
S0						
S0.2						
S0.5						
S1.0						
S2.0						
S5.0						
S10.0						
ICV~600-70887/8		7470A		50 mL		1.5 mL
ICB~600-70887/9		7470A				
CRA~600-70887/10		7470A		50 mL	.1 mL	
CCV~600-70887/11		7470A		50 mL		1.5 mL
CCB~600-70887/12		7470A				
MB~600-70863/7-A		7470A				
LCS~600-70863/8-A		7470A				
600-49248-G-1-B		7470A	T			
600-49248-G-1-C~DU		7470A	T			
600-49248-G-1-D~MS		7470A	T			
600-49248-G-1-E~MSD		7470A	T			
600-49299-D-1-E		245.1	T			
600-49299-D-2-B		245.1	T			
600-49299-C-3-B		245.1	T			
600-49305-A-1-B		245.1	T			
CCV~600-70887/23		7470A		50 mL		1.5 mL
CCB~600-70887/24		7470A				
600-49305-A-2-B		245.1	T			

Metals Worksheet

Batch Number: 600-70887
Method: 245.1
Analyst: Lige, Derrick C

Date Open: Jan 25 2012 1:58P
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	MER0112S1_00015	MER0112S2_00015
600-49311-A-3-B		245.1	T			
600-49311-A-6-B		245.1	T			
LB~600-70273/1-E		7470A				
600-48823-A-1-F		7470A	P			
600-48823-A-1-G~MS		7470A	P			
600-48823-A-1-H~MSD		7470A	P			
600-48823-B-2-E		7470A	P			
600-48823-B-2-F~MS		7470A	P			
LB~600-70563/1-F		7470A				
CCV~600-70887/35		245.1		50 mL		1.5 mL
CCB~600-70887/36		245.1				
600-49076-C-6-K		7470A	P			
600-49055-A-1-G		7470A	P			
600-49055-A-1-H~MS		7470A	P			
600-49140-A-1-E		7470A	P			
600-49140-A-1-F~MS		7470A	P			
LB~600-70806/1-C		7470A				
600-49145-A-4-E		7470A	P			
600-49143-B-9-C		7470A	P			
600-49245-C-1-C		7470A	P			
600-49265-A-1-D		7470A	P			
CCV~600-70887/47		7470A		50 mL		1.5 mL
CCB~600-70887/48		7470A				
600-49265-A-1-E~MS		7470A	P			
600-49143-A-8-C		7470A	P			

Metals Worksheet

Batch Number: 600-70887
Method: 245.1
Analyst: Lige, Derrick C

Date Open: Jan 25 2012 1:58P
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	MER0112S1_00015	MER0112S2_00015
600-49263-B-1-C		7470A	P			
LB~600-70807/1-C		7470A				
600-49279-A-1-C		7470A	P			
600-49279-A-1-D~MS		7470A	P			
600-49279-A-1-E~MSD		7470A	P			
600-49248-G-1-B~SD~^5		7470A	T			
600-48823-A-1-F~SD~^5		7470A	P			
CCV~600-70887/58		7470A		50 mL		1.5 mL
CCB~600-70887/59		7470A				
600-49140-A-1-E~PDS		7470A	P	10 mL		.3 mL
CCV~600-70887/61		7470A		50 mL		1.5 mL
CCB~600-70887/62		7470A				

Analysis Begun

DC 01-25-12

Logged In Analyst: houston_wetchem_inst Technique: AA FIMS-MHS
Spectrometer Model: FIMS-100, S/N B050-9550 Autosampler Model: S10

Sample Information File: C:\data-AA\Houston_wetchem_Inst\Sample Information\TODAY.sif
Batch ID: 70863
Results Data Set: FW012512
Results Library: C:\data-AA\Houston_wetchem_Inst\Results\Results.mdb

Method Loaded
Method Name: Mercury Soil & Water Method Last Saved: 9/1/2011 15:23:28
Method Description: Mercury Analysis

Sequence No.: 1 Autosampler Location: 2
Sample ID: S0 Date Collected: 1/25/2012 13:58:30
Analyst: Data Type: Original

Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0005	0.0029	0.0005	13:59:35	Yes
2		[0.00]	0.0005	0.0035	0.0005	14:00:17	Yes
Mean:		[0.00]	0.0005				
SD:		0.00	0.0000				
%RSD:		0.00	0.41				

Auto-zero performed.

Sequence No.: 2 Autosampler Location: 3
Sample ID: S0.2 Date Collected: 1/25/2012 14:00:19
Analyst: Data Type: Original

Replicate Data: S0.2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0025	0.0164	0.0030	14:01:24	Yes
2		[0.2]	0.0024	0.0151	0.0029	14:02:06	Yes
Mean:		[0.2]	0.0025				
SD:		0.0	0.0001				
%RSD:		0.0	3.50				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01226 Intercept: 0.00000

Sequence No.: 3 Autosampler Location: 4
Sample ID: S0.5 Date Collected: 1/25/2012 14:02:08
Analyst: Data Type: Original

Replicate Data: S0.5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0063	0.0360	0.0068	14:03:13	Yes
2		[0.5]	0.0062	0.0358	0.0067	14:03:55	Yes
Mean:		[0.5]	0.0063				
SD:		0.0	0.0001				
%RSD:		0.0	1.24				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999952 Slope: 0.01255 Intercept: -0.00002

Sequence No.: 4 Autosampler Location: 5
Sample ID: S1.0 Date Collected: 1/25/2012 14:03:57
Analyst: Data Type: Original

Replicate Data: S1.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1.0]	0.0128	0.0712	0.0134	14:05:02	Yes
2		[1.0]	0.0128	0.0699	0.0133	14:05:45	Yes
Mean:		[1.0]	0.0128				
SD:		0.0	0.0000				
%RSD:		0.0	0.34				

Standard number 3 applied. [1.0]
Correlation Coef.: 0.999916 Slope: 0.01284 Intercept: -0.00007

Sequence No.: 5 Autosampler Location: 6
Sample ID: S2.0 Date Collected: 1/25/2012 14:05:47
Analyst: Data Type: Original

Replicate Data: S2.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2.0]	0.0265	0.1424	0.0270	14:06:54	Yes
2		[2.0]	0.0262	0.1411	0.0267	14:07:36	Yes
Mean:		[2.0]	0.0263				
SD:		0.0	0.0002				
%RSD:		0.0	0.70				

Standard number 4 applied. [2.0]
Correlation Coef.: 0.999875 Slope: 0.01320 Intercept: -0.00019

Sequence No.: 6 Autosampler Location: 7
Sample ID: S5.0 Date Collected: 1/25/2012 14:07:37
Analyst: Data Type: Original

Replicate Data: S5.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.0650	0.3463	0.0655	14:08:43	Yes
2		[5.0]	0.0643	0.3428	0.0648	14:09:24	Yes
Mean:		[5.0]	0.0646				
SD:		0.0	0.0005				
%RSD:		0.0	0.84				

Standard number 5 applied. [5.0]
Correlation Coef.: 0.999954 Slope: 0.01297 Intercept: -0.00005

Sequence No.: 7 Autosampler Location: 8
Sample ID: S10.0 Date Collected: 1/25/2012 14:10:11
Analyst: Data Type: Original

Replicate Data: S10.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.1272	0.6791	0.1277	14:11:17	Yes
2		[10.0]	0.1262	0.6737	0.1267	14:11:58	Yes
Mean:		[10.0]	0.1267				
SD:		0.0	0.0007				
%RSD:		0.0	0.55				

Standard number 6 applied. [10.0]
Correlation Coef.: 0.999926 Slope: 0.01270 Intercept: 0.00025

Calibration data for Hg 253.7 Equation: Linear, Calculated Intercept

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
S0	0.0000	0	-0.020	0.00	0.4
S0.2	0.0025	0.2	0.174	0.00	3.5
S0.5	0.0063	0.5	0.474	0.00	1.2
S1.0	0.0128	1.0	0.990	0.00	0.3

S2.0	0.0263	2.0	2.055	0.00	0.7
S5.0	0.0646	5.0	5.072	0.00	0.8
S10.0	0.1267	10.0	9.956	0.00	0.6

Correlation Coef.: 0.999926 Slope: 0.01270 Intercept: 0.00025

Sequence No.: 8 Autosampler Location: 1
Sample ID: ICV Date Collected: 1/25/2012 14:12:47
Analyst: Data Type: Original

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.087	3.087	0.0394	0.2117	0.0400	14:13:52	Yes
2	3.074	3.074	0.0393	0.2107	0.0398	14:14:33	Yes
Mean:	3.080	3.080	0.0394				
SD:	0.009	0.009	0.0001				
%RSD:	0.293	0.293	0.29				

QC value within limits for Hg 253.7 Recovery = 102.68%
All analyte(s) passed QC.

Sequence No.: 9 Autosampler Location: 2
Sample ID: ICB Date Collected: 1/25/2012 14:15:20
Analyst: Data Type: Original

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	-0.0001	0.0021	0.0004	14:16:26	Yes
2	-0.051	-0.051	-0.0004	-0.0023	0.0001	14:17:08	Yes
Mean:	-0.039	-0.039	-0.0002				
SD:	0.016	0.016	0.0002				
%RSD:	41.71	41.71	83.52				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 10 Autosampler Location: 3
Sample ID: CRA Date Collected: 1/25/2012 14:17:09
Analyst: Data Type: Original

Replicate Data: CRA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.173	0.173	0.0024	0.0158	0.0030	14:18:15	Yes
2	0.170	0.170	0.0024	0.0153	0.0029	14:18:57	Yes
Mean:	0.171	0.171	0.0024				
SD:	0.002	0.002	0.0000				
%RSD:	1.215	1.215	1.09				

QC value within limits for Hg 253.7 Recovery = 85.54%
All analyte(s) passed QC.

Sequence No.: 11 Autosampler Location: 1
Sample ID: CCV Date Collected: 1/25/2012 14:18:58
Analyst: Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.096	3.096	0.0396	0.2121	0.0401	14:20:04	Yes
2	3.074	3.074	0.0393	0.2104	0.0398	14:20:45	Yes
Mean:	3.085	3.085	0.0394				
SD:	0.016	0.016	0.0002				
%RSD:	0.506	0.506	0.50				

QC value within limits for Hg 253.7 Recovery = 102.84%
All analyte(s) passed QC.

Sequence No.: 12 Autosampler Location: 2
Sample ID: CCB Date Collected: 1/25/2012 14:21:33
Analyst: Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	-0.0001	0.0021	0.0004	14:22:39	Yes
2	-0.030	-0.030	-0.0001	0.0019	0.0004	14:23:21	Yes
Mean:	-0.029	-0.029	-0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	4.591	4.591	13.68				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 13 Autosampler Location: 9
Sample ID: MB 600-70863/7-A Date Collected: 1/25/2012 14:23:22
Analyst: DCL Data Type: Original

Replicate Data: MB 600-70863/7-A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.030	-0.030	-0.0001	0.0018	0.0004	14:24:28	Yes
2	-0.031	-0.031	-0.0001	0.0018	0.0004	14:25:10	Yes
Mean:	-0.030	-0.030	-0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	3.183	3.183	9.02				

Sequence No.: 14 Autosampler Location: 10
Sample ID: LCS 600-70863/8-A Date Collected: 1/25/2012 14:25:11
Analyst: DCL Data Type: Original

Replicate Data: LCS 600-70863/8-A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.984	2.984	0.0381	0.2066	0.0386	14:26:16	Yes
2	2.955	2.955	0.0378	0.2046	0.0383	14:26:58	Yes
Mean:	2.969	2.969	0.0380				
SD:	0.020	0.020	0.0003				
%RSD:	0.679	0.679	0.67				

Sequence No.: 15 Autosampler Location: 11
Sample ID: 600-49248-G-1-B Date Collected: 1/25/2012 14:27:00
Analyst: DCL Data Type: Original

Replicate Data: 600-49248-G-1-B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	-0.0001	0.0021	0.0004	14:28:05	Yes
2	-0.032	-0.032	-0.0002	0.0015	0.0004	14:28:47	Yes
Mean:	-0.030	-0.030	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	8.209	8.209	23.92				

Sequence No.: 16 Autosampler Location: 12
Sample ID: 600-49248-G-1-C DU Date Collected: 1/25/2012 14:28:48
Analyst: DCL Data Type: Original

Replicate Data: 600-49248-G-1-C DU

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	-0.032	-0.032	-0.0002	0.0017	0.0003	14:29:54	Yes
2	-0.035	-0.035	-0.0002	0.0016	0.0003	14:30:36	Yes
Mean:	-0.034	-0.034	-0.0002				
SD:	0.002	0.002	0.0000				
%RSD:	5.647	5.647	13.44				

Sequence No.: 17 Autosampler Location: 13
Sample ID: 600-49248-G-1-D MS Date Collected: 1/25/2012 14:30:38
Analyst: DCL Data Type: Original

Replicate Data: 600-49248-G-1-D MS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.635	2.635	0.0337	0.1858	0.0342	14:31:43	Yes
2	2.650	2.650	0.0339	0.1874	0.0344	14:32:25	Yes
Mean:	2.643	2.643	0.0338				
SD:	0.010	0.010	0.0001				
%RSD:	0.386	0.386	0.38				

Sequence No.: 18 Autosampler Location: 14
Sample ID: 600-49248-G-1-E MSD Date Collected: 1/25/2012 14:32:26
Analyst: DCL Data Type: Original

Replicate Data: 600-49248-G-1-E MSD

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.648	2.648	0.0339	0.1869	0.0344	14:33:33	Yes
2	2.649	2.649	0.0339	0.1862	0.0344	14:34:15	Yes
Mean:	2.648	2.648	0.0339				
SD:	0.000	0.000	0.0000				
%RSD:	0.017	0.017	0.02				

Sequence No.: 19 Autosampler Location: 15
Sample ID: 600-49299-D-1-E Date Collected: 1/25/2012 14:34:17
Analyst: DCL Data Type: Original

Replicate Data: 600-49299-D-1-E

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.016	-0.016	0.0000	0.0031	0.0006	14:35:22	Yes
2	-0.018	-0.018	0.0000	0.0031	0.0005	14:36:04	Yes
Mean:	-0.017	-0.017	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	8.722	8.722	57.57				

Sequence No.: 20 Autosampler Location: 16
Sample ID: 600-49299-D-2-B Date Collected: 1/25/2012 14:36:06
Analyst: DCL Data Type: Original

Replicate Data: 600-49299-D-2-B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.017	-0.017	0.0000	0.0029	0.0005	14:37:11	Yes
2	-0.019	-0.019	0.0000	0.0027	0.0005	14:37:52	Yes
Mean:	-0.018	-0.018	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	5.632	5.632	62.45				

Sequence No.: 21 Autosampler Location: 17
Sample ID: 600-49299-C-3-B Date Collected: 1/25/2012 14:37:54
Analyst: DCL Data Type: Original

Replicate Data: 600-49299-C-3-B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.024	-0.024	-0.0001	0.0022	0.0005	14:38:59	Yes
2	-0.026	-0.026	-0.0001	0.0021	0.0004	14:39:42	Yes
Mean:	-0.025	-0.025	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	6.132	6.132	29.38				

Sequence No.: 22 Autosampler Location: 18
Sample ID: 600-49305-A-1-B Date Collected: 1/25/2012 14:39:44
Analyst: DCL Data Type: Original

Replicate Data: 600-49305-A-1-B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.025	-0.025	-0.0001	0.0020	0.0004	14:40:49	Yes
2	-0.022	-0.022	-0.0000	0.0023	0.0005	14:41:31	Yes
Mean:	-0.023	-0.023	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	6.505	6.505	39.38				

Sequence No.: 23 Autosampler Location: 1
Sample ID: CCV Date Collected: 1/25/2012 14:41:32
Analyst: Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.045	3.045	0.0389	0.2085	0.0394	14:42:38	Yes
2	3.038	3.038	0.0388	0.2074	0.0393	14:43:20	Yes
Mean:	3.042	3.042	0.0389				
SD:	0.005	0.005	0.0001				
%RSD:	0.172	0.172	0.17				

QC value within limits for Hg 253.7 Recovery = 101.39%
All analyte(s) passed QC.

Sequence No.: 24 Autosampler Location: 2
Sample ID: CCB Date Collected: 1/25/2012 14:44:07
Analyst: Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.029	-0.029	-0.0001	0.0018	0.0004	14:45:13	Yes
2	-0.030	-0.030	-0.0001	0.0011	0.0004	14:45:54	Yes
Mean:	-0.029	-0.029	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	0.566	0.566	1.69				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 25 Autosampler Location: 19
Sample ID: 600-49305-A-2-B Date Collected: 1/25/2012 14:45:56
Analyst: DCL Data Type: Original

Replicate Data: 600-49305-A-2-B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.030	-0.030	-0.0001	0.0016	0.0004	14:47:01	Yes
2	-0.026	-0.026	-0.0001	0.0022	0.0004	14:47:43	Yes
Mean:	-0.028	-0.028	-0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	9.367	9.367	30.41				

Sequence No.: 26 Autosampler Location: 20
Sample ID: 600-49311-A-3-B Date Collected: 1/25/2012 14:47:46
Analyst: DCL Data Type: Original

Replicate Data: 600-49311-A-3-B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.016	0.016	0.0004	0.0050	0.0010	14:48:51	Yes
2	0.018	0.018	0.0005	0.0052	0.0010	14:49:32	Yes
Mean:	0.017	0.017	0.0005				
SD:	0.001	0.001	0.0000				
%RSD:	8.286	8.286	3.83				

Sequence No.: 27 Autosampler Location: 21
Sample ID: 600-49311-A-6-B Date Collected: 1/25/2012 14:49:34
Analyst: DCL Data Type: Original

Replicate Data: 600-49311-A-6-B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.072	0.072	0.0012	0.0095	0.0017	14:50:39	Yes
2	0.073	0.073	0.0012	0.0097	0.0017	14:51:20	Yes
Mean:	0.072	0.072	0.0012				
SD:	0.001	0.001	0.0000				
%RSD:	1.153	1.153	0.91				

Sequence No.: 28 Autosampler Location: 22
Sample ID: LB 600-70273/1-E Date Collected: 1/25/2012 14:51:22
Analyst: DCL Data Type: Original

Replicate Data: LB 600-70273/1-E

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.014	-0.014	0.0001	0.0037	0.0006	14:52:27	Yes
2	-0.016	-0.016	0.0000	0.0029	0.0006	14:53:09	Yes
Mean:	-0.015	-0.015	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	11.51	11.51	38.98				

Sequence No.: 29 Autosampler Location: 23
Sample ID: 600-48823-A-1-F Date Collected: 1/25/2012 14:53:11
Analyst: DCL Data Type: Original

Replicate Data: 600-48823-A-1-F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.025	-0.025	-0.0001	0.0030	0.0004	14:54:16	Yes
2	-0.022	-0.022	-0.0000	0.0031	0.0005	14:54:58	Yes
Mean:	-0.024	-0.024	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	8.696	8.696	47.46				

Sequence No.: 30 Autosampler Location: 24
Sample ID: 600-48823-A-1-G MS Date Collected: 1/25/2012 14:55:00
Analyst: DCL Data Type: Original

Replicate Data: 600-48823-A-1-G MS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.931	2.931	0.0375	0.2043	0.0380	14:56:05	Yes
2	2.917	2.917	0.0373	0.2035	0.0378	14:56:46	Yes

Mean:	2.924	2.924	0.0374
SD:	0.010	0.010	0.0001
%RSD:	0.331	0.331	0.33

Sequence No.: 31 Autosampler Location: 25
Sample ID: 600-48823-A-1-H MSD Date Collected: 1/25/2012 14:56:49
Analyst: DCL Data Type: Original

Replicate Data: 600-48823-A-1-H MSD

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.939	2.939	0.0376	0.2050	0.0381	14:57:54	Yes
2	2.914	2.914	0.0372	0.2031	0.0378	14:58:36	Yes
Mean:	2.926	2.926	0.0374				
SD:	0.018	0.018	0.0002				
%RSD:	0.600	0.600	0.60				

Sequence No.: 32 Autosampler Location: 26
Sample ID: 600-48823-B-2-E Date Collected: 1/25/2012 14:58:37
Analyst: DCL Data Type: Original

Replicate Data: 600-48823-B-2-E

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.034	-0.034	-0.0002	0.0017	0.0003	14:59:44	Yes
2	-0.028	-0.028	-0.0001	0.0024	0.0004	15:00:26	Yes
Mean:	-0.031	-0.031	-0.0001				
SD:	0.004	0.004	0.0001				
%RSD:	13.80	13.80	38.23				

Sequence No.: 33 Autosampler Location: 27
Sample ID: 600-48823-B-2-F MS Date Collected: 1/25/2012 15:00:28
Analyst: DCL Data Type: Original

Replicate Data: 600-48823-B-2-F MS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.753	2.753	0.0352	0.1924	0.0357	15:01:33	Yes
2	2.753	2.753	0.0352	0.1919	0.0357	15:02:15	Yes
Mean:	2.753	2.753	0.0352				
SD:	0.000	0.000	0.0000				
%RSD:	0.007	0.007	0.01				

Sequence No.: 34 Autosampler Location: 28
Sample ID: LB 600-70563/1-F Date Collected: 1/25/2012 15:02:17
Analyst: DCL Data Type: Original

Replicate Data: LB 600-70563/1-F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.024	-0.024	-0.0001	0.0027	0.0005	15:03:22	Yes
2	-0.020	-0.020	-0.0000	0.0036	0.0005	15:04:04	Yes
Mean:	-0.022	-0.022	-0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	12.63	12.63	105.69				

Sequence No.: 35 Autosampler Location: 1
Sample ID: CCV Date Collected: 1/25/2012 15:04:06
Analyst: Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.030	3.030	0.0387	0.2090	0.0392	15:05:11	Yes
2	2.995	2.995	0.0383	0.2060	0.0388	15:05:54	Yes
Mean:	3.013	3.013	0.0385				
SD:	0.025	0.025	0.0003				
%RSD:	0.841	0.841	0.84				

QC value within limits for Hg 253.7 Recovery = 100.42%
All analyte(s) passed QC.

Sequence No.: 36 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 1/25/2012 15:06:40**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	-0.0001	0.0028	0.0004	15:07:46	Yes
2	-0.023	-0.023	-0.0000	0.0031	0.0005	15:08:28	Yes
Mean:	-0.024	-0.024	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	7.198	7.198	36.88				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 37 **Autosampler Location: 29**
Sample ID: 600-49076-C-6-K **Date Collected: 1/25/2012 15:08:29**
Analyst: DCL **Data Type: Original**

Replicate Data: 600-49076-C-6-K

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.014	0.014	0.0004	0.0051	0.0009	15:09:35	Yes
2	0.013	0.013	0.0004	0.0049	0.0009	15:10:17	Yes
Mean:	0.014	0.014	0.0004				
SD:	0.001	0.001	0.0000				
%RSD:	6.917	6.917	2.86				

Sequence No.: 38 **Autosampler Location: 30**
Sample ID: 600-49055-A-1-G **Date Collected: 1/25/2012 15:10:19**
Analyst: DCL **Data Type: Original**

Replicate Data: 600-49055-A-1-G

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.021	-0.021	-0.0000	0.0025	0.0005	15:11:24	Yes
2	-0.022	-0.022	-0.0000	0.0028	0.0005	15:12:06	Yes
Mean:	-0.021	-0.021	-0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	1.828	1.828	22.27				

Sequence No.: 39 **Autosampler Location: 31**
Sample ID: 600-49055-A-1-H MS **Date Collected: 1/25/2012 15:12:07**
Analyst: DCL **Data Type: Original**

Replicate Data: 600-49055-A-1-H MS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.154	3.154	0.0403	0.2125	0.0408	15:13:13	Yes
2	3.141	3.141	0.0401	0.2112	0.0406	15:13:55	Yes
Mean:	3.148	3.148	0.0402				
SD:	0.009	0.009	0.0001				
%RSD:	0.296	0.296	0.29				

Sequence No.: 40 Autosampler Location: 32
Sample ID: 600-49140-A-1-E Date Collected: 1/25/2012 15:14:42
Analyst: DCL Data Type: Original

Replicate Data: 600-49140-A-1-E

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	-0.0001	0.0022	0.0004	15:15:49	Yes
2	-0.031	-0.031	-0.0001	0.0018	0.0004	15:16:30	Yes
Mean:	-0.029	-0.029	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	6.204	6.204	18.55				

Sequence No.: 41 Autosampler Location: 33
Sample ID: 600-49140-A-1-F MS Date Collected: 1/25/2012 15:16:32
Analyst: DCL Data Type: Original

Replicate Data: 600-49140-A-1-F MS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.051	2.051	0.0263	0.1533	0.0268	15:17:37	Yes
2	2.057	2.057	0.0264	0.1546	0.0269	15:18:18	Yes
Mean:	2.054	2.054	0.0263				
SD:	0.004	0.004	0.0001				
%RSD:	0.206	0.206	0.20				

Sequence No.: 42 Autosampler Location: 34
Sample ID: LB 600-70806/1-C Date Collected: 1/25/2012 15:18:20
Analyst: DCL Data Type: Original

Replicate Data: LB 600-70806/1-C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	-0.0001	0.0025	0.0004	15:19:25	Yes
2	-0.024	-0.024	-0.0001	0.0025	0.0005	15:20:07	Yes
Mean:	-0.025	-0.025	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	6.248	6.248	30.46				

Sequence No.: 43 Autosampler Location: 35
Sample ID: 600-49145-A-4-E Date Collected: 1/25/2012 15:20:09
Analyst: DCL Data Type: Original

Replicate Data: 600-49145-A-4-E

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.024	-0.024	-0.0001	0.0025	0.0005	15:21:14	Yes
2	-0.030	-0.030	-0.0001	0.0019	0.0004	15:21:56	Yes
Mean:	-0.027	-0.027	-0.0001				
SD:	0.004	0.004	0.0001				
%RSD:	14.88	14.88	54.21				

Sequence No.: 44 Autosampler Location: 36
Sample ID: 600-49143-B-9-C Date Collected: 1/25/2012 15:21:57
Analyst: DCL Data Type: Original

Replicate Data: 600-49143-B-9-C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.023	0.023	0.0005	0.0053	0.0010	15:23:03	Yes
2	0.021	0.021	0.0005	0.0050	0.0010	15:23:44	Yes
Mean:	0.022	0.022	0.0005				
SD:	0.001	0.001	0.0000				

%RSD: 6.103 6.103 3.21

==========

Sequence No.: 45 Autosampler Location: 37
Sample ID: 600-49245-C-1-C Date Collected: 1/25/2012 15:23:46
Analyst: DCL Data Type: Original

Replicate Data: 600-49245-C-1-C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.025	-0.025	-0.0001	0.0025	0.0004	15:24:52	Yes
2	-0.025	-0.025	-0.0001	0.0024	0.0004	15:25:34	Yes
Mean:	-0.025	-0.025	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	0.544	0.544	2.55				

==========

Sequence No.: 46 Autosampler Location: 38
Sample ID: 600-49265-A-1-D Date Collected: 1/25/2012 15:25:35
Analyst: DCL Data Type: Original

Replicate Data: 600-49265-A-1-D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.031	-0.031	-0.0001	0.0019	0.0004	15:26:42	Yes
2	-0.028	-0.028	-0.0001	0.0023	0.0004	15:27:24	Yes
Mean:	-0.029	-0.029	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	7.121	7.121	21.23				

==========

Sequence No.: 47 Autosampler Location: 1
Sample ID: CCV Date Collected: 1/25/2012 15:27:26
Analyst: Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.997	2.997	0.0383	0.2043	0.0388	15:28:32	Yes
2	2.996	2.996	0.0383	0.2046	0.0388	15:29:14	Yes
Mean:	2.997	2.997	0.0383				
SD:	0.000	0.000	0.0000				
%RSD:	0.007	0.007	0.01				

QC value within limits for Hg 253.7 Recovery = 99.89%
All analyte(s) passed QC.

==========

Sequence No.: 48 Autosampler Location: 2
Sample ID: CCB Date Collected: 1/25/2012 15:29:16
Analyst: Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	-0.0001	0.0020	0.0004	15:30:21	Yes
2	-0.028	-0.028	-0.0001	0.0020	0.0004	15:31:03	Yes
Mean:	-0.028	-0.028	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	0.073	0.073	0.24				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 49 Autosampler Location: 39
Sample ID: 600-49265-A-1-E MS Date Collected: 1/25/2012 15:31:04
Analyst: DCL Data Type: Original

Replicate Data: 600-49265-A-1-E MS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.992	2.992	0.0382	0.2057	0.0388	15:32:11	Yes
2	2.983	2.983	0.0381	0.2049	0.0386	15:32:53	Yes
Mean:	2.987	2.987	0.0382				
SD:	0.007	0.007	0.0001				
%RSD:	0.223	0.223	0.22				

Sequence No.: 50 Autosampler Location: 40
Sample ID: 600-49143-A-8-C Date Collected: 1/25/2012 15:32:55
Analyst: DCL Data Type: Original

Replicate Data: 600-49143-A-8-C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.016	-0.016	0.0000	0.0028	0.0006	15:34:00	Yes
2	-0.019	-0.019	0.0000	0.0023	0.0005	15:34:42	Yes
Mean:	-0.018	-0.018	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	13.63	13.63	128.22				

Sequence No.: 51 Autosampler Location: 41
Sample ID: 600-49263-B-1-C Date Collected: 1/25/2012 15:34:43
Analyst: DCL Data Type: Original

Replicate Data: 600-49263-B-1-C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.020	-0.020	-0.0000	0.0027	0.0005	15:35:48	Yes
2	-0.018	-0.018	0.0000	0.0022	0.0005	15:36:30	Yes
Mean:	-0.019	-0.019	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	7.865	7.865	200.12				

Sequence No.: 52 Autosampler Location: 42
Sample ID: LB 600-70807/1-C Date Collected: 1/25/2012 15:36:31
Analyst: DCL Data Type: Original

Replicate Data: LB 600-70807/1-C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.019	-0.019	0.0000	0.0021	0.0005	15:37:37	Yes
2	-0.018	-0.018	0.0000	0.0027	0.0005	15:38:18	Yes
Mean:	-0.019	-0.019	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	3.875	3.875	120.04				

Sequence No.: 53 Autosampler Location: 43
Sample ID: 600-49279-A-1-C Date Collected: 1/25/2012 15:38:20
Analyst: DCL Data Type: Original

Replicate Data: 600-49279-A-1-C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.023	-0.023	-0.0000	0.0018	0.0005	15:39:25	Yes
2	-0.024	-0.024	-0.0001	0.0025	0.0005	15:40:06	Yes
Mean:	-0.024	-0.024	-0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	3.003	3.003	17.76				

Sequence No.: 54 Autosampler Location: 44
Sample ID: 600-49279-A-1-D MS Date Collected: 1/25/2012 15:40:08

Analyst: DCL Data Type: Original

Replicate Data: 600-49279-A-1-D MS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.859	2.859	0.0366	0.1961	0.0371	15:41:14	Yes
2	2.833	2.833	0.0362	0.1946	0.0367	15:41:56	Yes
Mean:	2.846	2.846	0.0364				
SD:	0.019	0.019	0.0002				
%RSD:	0.654	0.654	0.65				

Sequence No.: 55 Autosampler Location: 45
Sample ID: 600-49279-A-1-E MSD Date Collected: 1/25/2012 15:41:57
Analyst: DCL Data Type: Original

Replicate Data: 600-49279-A-1-E MSD

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.825	2.825	0.0361	0.1952	0.0366	15:43:02	Yes
2	2.811	2.811	0.0359	0.1946	0.0365	15:43:45	Yes
Mean:	2.818	2.818	0.0360				
SD:	0.010	0.010	0.0001				
%RSD:	0.337	0.337	0.34				

Sequence No.: 56 Autosampler Location: 46
Sample ID: 600-49248-G-1-BSD@5 Date Collected: 1/25/2012 15:43:46
Analyst: DCL Data Type: Original

Replicate Data: 600-49248-G-1-BSD@5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.025	-0.025	-0.0001	0.0025	0.0004	15:44:52	Yes
2	-0.026	-0.026	-0.0001	0.0023	0.0004	15:45:34	Yes
Mean:	-0.026	-0.026	-0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	3.001	3.001	12.84				

Sequence No.: 57 Autosampler Location: 47
Sample ID: 600-48823-A-1-FSD@5 Date Collected: 1/25/2012 15:45:36
Analyst: DCL Data Type: Original

Replicate Data: 600-48823-A-1-FSD@5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.034	-0.034	-0.0002	0.0015	0.0003	15:46:41	Yes
2	-0.026	-0.026	-0.0001	0.0028	0.0004	15:47:23	Yes
Mean:	-0.030	-0.030	-0.0001				
SD:	0.006	0.006	0.0001				
%RSD:	19.00	19.00	53.52				

Sequence No.: 58 Autosampler Location: 1
Sample ID: CCV Date Collected: 1/25/2012 15:47:24
Analyst: Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.952	2.952	0.0377	0.2029	0.0382	15:48:31	Yes
2	2.945	2.945	0.0376	0.2030	0.0381	15:49:12	Yes
Mean:	2.948	2.948	0.0377				
SD:	0.005	0.005	0.0001				
%RSD:	0.182	0.182	0.18				

QC value within limits for Hg 253.7 Recovery = 98.28%

All analyte(s) passed QC.

Sequence No.: 59
Sample ID: CCB
Analyst:

Autosampler Location: 2
Date Collected: 1/25/2012 15:49:14
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.024	-0.024	-0.0001	0.0027	0.0005	15:50:20	Yes
2	-0.024	-0.024	-0.0001	0.0021	0.0005	15:51:02	Yes
Mean:	-0.024	-0.024	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	0.867	0.867	4.89				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Analysis Begun

Logged In Analyst: houston_wetchem_inst Technique: AA FIMS-MHS
Spectrometer Model: FIMS-100, S/N B050-9550 Autosampler Model: S10

Sample Information File: C:\data-AA\Houston_wetchem_Inst\Sample Information\TODAY.sif
Batch ID: 70863
Results Data Set: FW012512
Results Library: C:\data-AA\Houston_wetchem_Inst\Results\Results.mdb

Method Loaded
Method Name: Mercury Soil & Water Method Last Saved: 9/1/2011 15:23:28
Method Description: Mercury Analysis

Sequence No.: 1 Autosampler Location: 48
Sample ID: 600-49140-a-1-ePDS Date Collected: 1/25/2012 15:52:18
Analyst: DCL Data Type: Original

Replicate Data: 600-49140-a-1-ePDS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.957	2.957	0.0378	0.2192	0.0383	15:53:24	Yes
2	2.964	2.964	0.0379	0.2201	0.0384	15:54:06	Yes
Mean:	2.961	2.961	0.0378				
SD:	0.005	0.005	0.0001				
%RSD:	0.157	0.157	0.16				

Sequence No.: 2 Autosampler Location: 1
Sample ID: CCV Date Collected: 1/25/2012 15:54:08
Analyst: Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.995	2.995	0.0383	0.2069	0.0388	15:55:14	Yes
2	2.977	2.977	0.0381	0.2049	0.0386	15:55:56	Yes
Mean:	2.986	2.986	0.0382				
SD:	0.012	0.012	0.0002				
%RSD:	0.418	0.418	0.42				

QC value within limits for Hg 253.7 Recovery = 99.54%
All analyte(s) passed QC.

Sequence No.: 3 Autosampler Location: 2
Sample ID: CCB Date Collected: 1/25/2012 15:55:58
Analyst: Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.022	-0.022	-0.0000	0.0023	0.0005	15:57:03	Yes
2	-0.024	-0.024	-0.0001	0.0028	0.0005	15:57:45	Yes
Mean:	-0.023	-0.023	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	6.031	6.031	36.35				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Metals Worksheet

Batch Number: 600-70863
Method: 245.1
Analyst: Lige, Derrick C

Date Open: Jan 25 2012 11:15AM
Batch End: Jan 25 2012 1:15PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	MER0112HS_00004	MER0112KM_00006	MER0112PP_00001	MER0112S1_00015
0.2				50 mL	50 mL	3 mL	6 mL	3.2 mL	0.10 mL
0.5				50 mL	50 mL	3 mL	6 mL	3.2 mL	0.25 mL
1.0				50 mL	50 mL	3 mL	6 mL	3.2 mL	0.50 mL
2.0				50 mL	50 mL	3 mL	6 mL	3.2 mL	1.0 mL
5.0				50 mL	50 mL	3 mL	6 mL	3.2 mL	2.5 mL
10.0				50 mL	50 mL	3 mL	6 mL	3.2 mL	5.0 mL
MB~600-70863/7				40 mL	40 mL	3 mL	6 mL	3.2 mL	
LCS~600-70863/8				50 mL	50 mL	3 mL	6 mL	3.2 mL	
600-49248-G-1	MW-1	7470A_Prep, 7470A	T	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49248-G-1~DU		7470A_Prep, 7470A	T	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49248-G-1~MS		7470A_Prep, 7470A	T	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49248-G-1~MS		7470A_Prep, 7470A	T	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49299-D-1	CTW-Out	245.1_Prep, 245.1	T	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49299-D-2	CTW-In	245.1_Prep, 245.1	T	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49299-C-3	RW-In	245.1_Prep, 245.1	T	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49305-A-1	South Outfall	245.1_Prep, 245.1	T	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49305-A-2	North Outfall	245.1_Prep, 245.1	T	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49311-A-3	101.012212	245.1_Prep, 245.1	T	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49311-A-6	101.012312	245.1_Prep, 245.1	T	40 mL	40 mL	3 mL	6 mL	3.2 mL	
LB~600-70273/1-A				40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-48823-A-1-A		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-48823-A-1-A~MS		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-48823-A-1-A~MSD		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-48823-B-2-A		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-48823-B-2-A~MS		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	

Metals Worksheet

Batch Number: 600-70863
Method: 245.1
Analyst: Lige, Derrick C

Date Open: Jan 25 2012 11:15AM
Batch End: Jan 25 2012 1:15PM

Lab ID	Client ID	Method Chain	Basis	MER0112S2_00015	MERSUL_00023	METHNO3_00025
0.2					2 mL	1 mL
0.5					2 mL	1 mL
1.0					2 mL	1 mL
2.0					2 mL	1 mL
5.0					2 mL	1 mL
10.0					2 mL	1 mL
MB~600-70863/7					2 mL	1 mL
LCS~600-70863/8				1.5 mL	2 mL	1 mL
600-49248-G-1	MW-1	7470A_Prep, 7470A	T		2 mL	1 mL
600-49248-G-1~DU		7470A_Prep, 7470A	T		2 mL	1 mL
600-49248-G-1~MS		7470A_Prep, 7470A	T	1.2 mL	2 mL	1 mL
600-49248-G-1~MS		7470A_Prep, 7470A	T	1.2 mL	2 mL	1 mL
600-49299-D-1	CTW-Out	245.1_Prep, 245.1	T		2 mL	1 mL
600-49299-D-2	CTW-In	245.1_Prep, 245.1	T		2 mL	1 mL
600-49299-C-3	RW-In	245.1_Prep, 245.1	T		2 mL	1 mL
600-49305-A-1	South Outfall	245.1_Prep, 245.1	T		2 mL	1 mL
600-49305-A-2	North Outfall	245.1_Prep, 245.1	T		2 mL	1 mL
600-49311-A-3	101.012212	245.1_Prep, 245.1	T		2 mL	1 mL
600-49311-A-6	101.012312	245.1_Prep, 245.1	T		2 mL	1 mL
LB~600-70273/1-A					2 mL	1 mL
600-48823-A-1-A		7470A_Prep_L, 7470A	P		2 mL	1 mL
600-48823-A-1-A~MS		7470A_Prep_L, 7470A	P	1.2 mL	2 mL	1 mL
600-48823-A-1-A~MSD		7470A_Prep_L, 7470A	P	1.2 mL	2 mL	1 mL
600-48823-B-2-A		7470A_Prep_L, 7470A	P		2 mL	1 mL
600-48823-B-2-A~MS		7470A_Prep_L, 7470A	P	1.2 mL	2 mL	1 mL

Metals Worksheet

Batch Number: 600-70863
Method: 245.1
Analyst: Lige, Derrick C

Date Open: Jan 25 2012 11:15AM
Batch End: Jan 25 2012 1:15PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	MER0112HS_00004	MER0112KM_00006	MER0112PP_00001	MER0112S1_00015
LB~600-70563/1-A				40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49076-C-6-A		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49055-A-1-A		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49055-A-1-A~MS		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49140-A-1-A		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49140-A-1-A~MS		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
LB~600-70806/1-A				40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49145-A-4-B		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49143-B-9-A		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49245-C-1-A		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49265-A-1-A		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49265-A-1-A~MS		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49143-A-8-A		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49263-B-1-A		7470A_Prep_L, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
LB~600-70807/1-A				40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49279-A-1-A		7470A_Prep_L, 7470A	P	100 uL	50 mL	3 mL	6 mL	3.2 mL	
600-49279-A-1-A~MS		7470A_Prep_L, 7470A	P	100 uL	50 mL	3 mL	6 mL	3.2 mL	
600-49279-A-1-A~MSD		7470A_Prep_L, 7470A	P	100 uL	50 mL	3 mL	6 mL	3.2 mL	
CCV~600-70863/44				50 mL	50 mL	3 mL	6 mL	3.2 mL	
CCB~600-70863/45				40 mL	40 mL	3 mL	6 mL	3.2 mL	

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Metals Worksheet

Batch Number: 600-70863
Method: 245.1
Analyst: Lige, Derrick C

Date Open: Jan 25 2012 11:15AM
Batch End: Jan 25 2012 1:15PM

Lab ID	Client ID	Method Chain	Basis	MER0112S2_00015	MERSUL_00023	METHNO3_00025
LB~600-70563/1-A					2 mL	1 mL
600-49076-C-6-A		7470A_Prep_L, 7470A	P		2 mL	1 mL
600-49055-A-1-A		7470A_Prep_L, 7470A	P		2 mL	1 mL
600-49055-A-1-A~MS		7470A_Prep_L, 7470A	P	1.2 mL	2 mL	1 mL
600-49140-A-1-A		7470A_Prep_L, 7470A	P		2 mL	1 mL
600-49140-A-1-A~MS		7470A_Prep_L, 7470A	P	1.2 mL	2 mL	1 mL
LB~600-70806/1-A					2 mL	1 mL
600-49145-A-4-B		7470A_Prep_L, 7470A	P		2 mL	1 mL
600-49143-B-9-A		7470A_Prep_L, 7470A	P		2 mL	1 mL
600-49245-C-1-A		7470A_Prep_L, 7470A	P		2 mL	1 mL
600-49265-A-1-A		7470A_Prep_L, 7470A	P		2 mL	1 mL
600-49265-A-1-A~M		7470A_Prep_L, 7470A	P	1.2 mL	2 mL	1 mL
600-49143-A-8-A		7470A_Prep_L, 7470A	P		2 mL	1 mL
600-49263-B-1-A		7470A_Prep_L, 7470A	P		2 mL	1 mL
LB~600-70807/1-A					2 mL	1 mL
600-49279-A-1-A		7470A_Prep_L, 7470A	P		2 mL	1 mL
600-49279-A-1-A~MS		7470A_Prep_L, 7470A	P	1.2 mL	2 mL	1 mL
600-49279-A-1-A~MSD		7470A_Prep_L, 7470A	P	1.2 mL	2 mL	1 mL
CCV~600-70863/44				1.5 mL	2 mL	1 mL
CCB~600-70863/45					2 mL	1 mL

Hood ID or number:	M-4
Hot Block ID number:	#3
ID number of the thermometer:	#515
Temperature:	94.8 Degrees C. Degrees C
Pipette ID:	MPH, MPI, M8

METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Batch Number: 70604 Batch Start Date: 01/23/12 05:50 Batch Analyst: Lige, Derrick C

Batch Method: 3010A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	METHCL 00036	METHNO3 00025	METSPIKEA 00010
MB 600-70604/1		3010A, 6010B			50 mL	50 mL	2.5 mL	2.5 mL	
LCS 600-70604/2		3010A, 6010B			50 mL	50 mL	2.5 mL	2.5 mL	250 uL
600-49143-C-9	IDW 2	3010A, 6010B	T	<2	50 mL	50 mL	2.5 mL	2.5 mL	
600-49143-A-10	Equipment Blank 8	3010A, 6010B	T	<2	50 mL	50 mL	2.5 mL	2.5 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	METSPIKEB 00011
MB 600-70604/1		3010A, 6010B		
LCS 600-70604/2		3010A, 6010B		250 uL
600-49143-C-9	IDW 2	3010A, 6010B	T	
600-49143-A-10	Equipment Blank 8	3010A, 6010B	T	

Batch Notes	
Hood ID or number	M-4
Hot Block ID number	#1
Pipette ID	MPH
Temperature	93.8 Degrees C.
ID number of the thermometer	#517

Basis	Basis Description
T	Total/NA

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METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Batch Number: 70806 Batch Start Date: 01/24/12 18:13 Batch Analyst: Patel, Silen R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	METTCLPE1 00230					
LB 600-70806/1		1311, 3010A, 6010B		2000 mL					
600-49143-B-9	IDW 2	1311, 3010A, 6010B	P	130 mL					
600-49143-A-8	IDW 1	1311, 3010A, 6010B	P	2000 mL					

Batch Notes	
Room Temperature during Rotation	21-24 Degrees C

Basis	Basis Description
P	TCLP

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METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Batch Number: 70836 Batch Start Date: 01/25/12 10:25 Batch Analyst: Patel, Silen R

Batch Method: 3010A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	METHCL 00036	METHNO3 00025	METSPIKEA 00010	METSPIKEB 00011
MB 600-70836/1		3010A, 6010B		50 mL	50 mL	2.5 mL	2.5 mL		
LCS 600-70836/2		3010A, 6010B		50 mL	50 mL	2.5 mL	2.5 mL	250 uL	250 uL
LB 600-70806/1-A		3010A, 6010B		5 mL	50 mL	2.5 mL	2.5 mL		
600-49143-B-9-A	IDW 2	3010A, 6010B	P	5 mL	50 mL	2.5 mL	2.5 mL		
600-49143-A-8-A	IDW 1	3010A, 6010B	P	5 mL	50 mL	2.5 mL	2.5 mL		

Batch Notes	
Hood ID or number	m5
Hot Block ID number	hb04
Temperature	95
ID number of the thermometer	518

Basis	Basis Description
P	TCLP

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METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Batch Number: 71001 Batch Start Date: 01/26/12 15:05 Batch Analyst: Racelis, Froilan Noel E

Batch Method: 3050B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	METH202 00018	METHCL 00036	METHNO3 00025	METSLCSS 00016
MB 600-71001/1		3050B, 6010B		1.00 g	50 mL	4 mL	2.5 mL	5 mL	
LCS 600-71001/2		3050B, 6010B		0.50 g	50 mL	4 mL	2.5 mL	5 mL	0.5 g
600-49143-B-1	2012-FWCS-7	3050B, 6010B	T	1.00 g	50 mL	4 mL	2.5 mL	5 mL	
600-49143-B-1 DU	2012-FWCS-7	3050B, 6010B	T	1.04 g	50 mL	4 mL	2.5 mL	5 mL	
600-49143-A-1 MS	2012-FWCS-7	3050B, 6010B	T	1.03 g	50 mL	4 mL	2.5 mL	5 mL	
600-49143-A-1 MSD	2012-FWCS-7	3050B, 6010B	T	1.04 g	50 mL	4 mL	2.5 mL	5 mL	
600-49143-A-2	2012-FWCS-6	3050B, 6010B	T	1.05 g	50 mL	4 mL	2.5 mL	5 mL	
600-49143-A-3	2012-FWCS-5	3050B, 6010B	T	1.04 g	50 mL	4 mL	2.5 mL	5 mL	
600-49143-A-4	2012-FWCS-4	3050B, 6010B	T	1.00 g	50 mL	4 mL	2.5 mL	5 mL	
600-49143-A-5	2012-FWCS-3	3050B, 6010B	T	1.04 g	50 mL	4 mL	2.5 mL	5 mL	
600-49143-A-6	2012-FWCS-2	3050B, 6010B	T	1.03 g	50 mL	4 mL	2.5 mL	5 mL	
600-49143-B-8	IDW 1	3050B, 6010B	T	1.02 g	50 mL	4 mL	2.5 mL	5 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	METSPIKEA 00010	METSPIKEB 00011				
MB 600-71001/1		3050B, 6010B							
LCS 600-71001/2		3050B, 6010B							
600-49143-B-1	2012-FWCS-7	3050B, 6010B	T						
600-49143-B-1 DU	2012-FWCS-7	3050B, 6010B	T						
600-49143-A-1 MS	2012-FWCS-7	3050B, 6010B	T	250 uL	250 uL				
600-49143-A-1 MSD	2012-FWCS-7	3050B, 6010B	T	250 uL	250 uL				
600-49143-A-2	2012-FWCS-6	3050B, 6010B	T						
600-49143-A-3	2012-FWCS-5	3050B, 6010B	T						
600-49143-A-4	2012-FWCS-4	3050B, 6010B	T						
600-49143-A-5	2012-FWCS-3	3050B, 6010B	T						
600-49143-A-6	2012-FWCS-2	3050B, 6010B	T						
600-49143-B-8	IDW 1	3050B, 6010B	T						

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METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Batch Number: 71001 Batch Start Date: 01/26/12 15:05 Batch Analyst: Racelis, Froilan Noel E

Batch Method: 3050B Batch End Date:

Batch Notes	
Balance ID	B-6
Hood ID or number	M5
Hot Block ID number	HB 02
Temperature	95 Degrees C
ID number of the thermometer	516

Basis	Basis Description
T	Total/NA

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METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Batch Number: 70806 Batch Start Date: 01/24/12 18:13 Batch Analyst: Patel, Silen R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	METTCLPE1 00230					
LB 600-70806/1		1311, 7470A, 7470A		2000 mL					
600-49143-B-9	IDW 2	1311, 7470A, 7470A	P	130 mL					
600-49143-A-8	IDW 1	1311, 7470A, 7470A	P	2000 mL					

Batch Notes	
Room Temperature during Rotation	21-24 Degrees C

Basis	Basis Description
P	TCLP

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METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Batch Number: 70863 Batch Start Date: 01/25/12 11:15 Batch Analyst: Lige, Derrick C

Batch Method: 7470A Batch End Date: 01/25/12 13:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MER0112HS 00004	MER0112KM 00006	MER0112PP 00001	MER0112S2 00015
MB 600-70863/7		7470A, 7470A		40 mL	40 mL	3 mL	6 mL	3.2 mL	
LCS 600-70863/8		7470A, 7470A		50 mL	50 mL	3 mL	6 mL	3.2 mL	1.5 mL
LB 600-70806/1-A		7470A, 7470A		40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49143-B-9-A	IDW 2	7470A, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-49143-A-8-A	IDW 1	7470A, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MERSUL 00023	METHNO3 00025				
MB 600-70863/7		7470A, 7470A		2 mL	1 mL				
LCS 600-70863/8		7470A, 7470A		2 mL	1 mL				
LB 600-70806/1-A		7470A, 7470A		2 mL	1 mL				
600-49143-B-9-A	IDW 2	7470A, 7470A	P	2 mL	1 mL				
600-49143-A-8-A	IDW 1	7470A, 7470A	P	2 mL	1 mL				

Batch Notes	
Hood ID or number	M-4
Hot Block ID number	#3
Pipette ID	MPH, MPI, M8
Temperature	94.8 Degrees C. Degrees C
ID number of the thermometer	#515

Basis	Basis Description
P	TCLP

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GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG No.:

Project: Exide Recycling Center, Frisco TX Projec

Client Sample ID	Lab Sample ID
2012-FWCS-7	600-49143-1
2012-FWCS-6	600-49143-2
2012-FWCS-5	600-49143-3
2012-FWCS-4	600-49143-4
2012-FWCS-3	600-49143-5
2012-FWCS-2	600-49143-6
IDW 1	600-49143-8
IDW 2	600-49143-9

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: IDW 1 Lab Sample ID: 600-49143-8

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG ID.:

Matrix: Solid Date Sampled: 01/19/2012 15:39

Reporting Basis: WET Date Received: 01/20/2012 09:37

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Reactive	85.5	250	85.5	ug/Kg	U		1	9012
	Sulfide, Reactive	14.0	50.0	14.0	mg/Kg	U		1	7.4.4

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: IDW 1 Lab Sample ID: 600-49143-8

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG ID.:

Matrix: Solid Date Sampled: 01/19/2012 15:39

Reporting Basis: WET Date Received: 01/20/2012 09:37

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	7.60	0.0100		SU		HF	1	9045C
	Flashpoint	>212	1.00		Degrees F			1	D92

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: IDW 2 Lab Sample ID: 600-49143-9

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG ID.:

Matrix: Water Date Sampled: 01/19/2012 15:51

Reporting Basis: WET Date Received: 01/20/2012 09:37

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Reactive	0.0397	0.250	0.0397	mg/L	U		1	9012
	Sulfide, Reactive	10.0	50.0	1.40	mg/L	J		1	7.4.4

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: IDW 2 Lab Sample ID: 600-49143-9

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG ID.:

Matrix: Water Date Sampled: 01/19/2012 15:51

Reporting Basis: WET Date Received: 01/20/2012 09:37

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	8.10	0.0100		SU		H	1	9040B
	Flashpoint	>186	1.00		Degrees F			1	SW846 Ch. 7

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Analyst: BDG Batch Start Date: 01/31/2012

Reporting Units: ug/L Analytical Batch No.: 71273

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
8	ICV	12:18	Cyanide, Reactive	102.5					
9	ICB	12:19	Cyanide, Reactive	0.727				U	
20	CCV	12:27	Cyanide, Reactive	102.7					
21	CCB	12:28	Cyanide, Reactive	0.727				U	
24	CCV	12:30	Cyanide, Reactive	1590				U	
25	CCB	12:31	Cyanide, Reactive	1590				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Analyst: MB Batch Start Date: 01/31/2012

Reporting Units: SU Analytical Batch No.: 71295

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
4	CCV	16:29	pH	7.030	7.00	100	99-101		WETRPH7BUF_00015

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Analyst: MB Batch Start Date: 01/30/2012

Reporting Units: SU Analytical Batch No.: 71179

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
25	CCV	11:00	pH	6.970	7.00	100	99-101		WETRPH7BUF_00015
38	CCV	11:00	pH	7.020	7.00	100	99-101		WETRPH7BUF_00015

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Analyst: SUP Batch Start Date: 01/25/2012

Reporting Units: Degrees F Analytical Batch No.: 70933

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	CCV	13:00	Flashpoint	81.70	81.0	101	96.91-103.09		WETRPXYLEN_00005

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Analyst: SUP Batch Start Date: 01/26/2012

Reporting Units: Degrees F Analytical Batch No.: 70973

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
4	CCV	10:30	Flashpoint	81.94	81.0	101	96.91-103.09		WETRPXYLEN_00005
8	CCV	10:30	Flashpoint	81.94	81.0	101	96.91-103.09		WETRPXYLEN_00005

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 71278	Date: 01/31/2012 12:00	Prep Batch: 71253	Date: 01/30/2012 09:00				
7.4.4	MB 600-71253/1-A	Sulfide, Reactive	14.0	U	mg/Kg	50.0	1
Batch ID: 71273	Date: 01/31/2012 12:20	Prep Batch: 71253	Date: 01/30/2012 09:00				
9012	MB 600-71253/1-A	Cyanide, Reactive	85.5	U	ug/Kg	250	1
Batch ID: 70933	Date: 01/25/2012 13:00						
D92	MB 600-70933/1	Flashpoint	>186		Degrees F	1.00	1
Batch ID: 70973	Date: 01/26/2012 10:30						
SW846 Ch. 7	MB 600-70973/1	Flashpoint	>186		Degrees F	1.00	1

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 71295	Date: 01/31/2012 15:45							
9040B	IDW 2	600-49143-9	pH	8.10	SU			
9040B	IDW 2	600-49143-9 DU	pH	8.100	SU	0	1	
Batch ID: 70973	Date: 01/26/2012 10:30							
SW846 Ch. 7	IDW 2	600-49143-9	Flashpoint	>186	Degrees F			
SW846 Ch. 7	IDW 2	600-49143-9 DU	Flashpoint	>186	Degrees F	NC	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 71278	Date: 01/31/2012 12:00		Prep Batch: 71253		Date: 01/30/2012 09:00						
					LCS Source: SULFTSLCS_00462						
7.4.4	LCS 600-71253/2-A	Sulfide, Reactive	1120		mg/Kg	1610	70	0-100			
Batch ID: 71273	Date: 01/31/2012 12:21		Prep Batch: 71253		Date: 01/30/2012 09:00						
					LCS Source: WETRCYANID_00014						
9012	LCS 600-71253/2-A	Cyanide, Reactive	72260		ug/Kg	1000000	7	0-100			
Batch ID: 71179	Date: 01/30/2012 11:00										
					LCS Source: WETRPH7BUF_00015						
9045C	LCS 600-71179/26	pH	6.980		SU	7.00	100	99-101			
Batch ID: 70933	Date: 01/25/2012 13:00										
					LCS Source: WETRPXYLEN_00005						
D92	LCS 600-70933/2	Flashpoint	81.70		Degrees F	81.0	101	96.91-103.09			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 71295		Date: 01/31/2012 15:45									
						LCS Source:		WETRPH7BUF_00015			
9040B	LCS 600-71295/1	pH	7.040		SU	7.00	101	99-101			
Batch ID: 70973		Date: 01/26/2012 10:30									
						LCS Source:		WETRPXYLEN_00005			
SW846 Ch. 7	LCS 600-70973/2	Flashpoint	81.94		Degrees F	81.0	101	96.91-103.09			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Solid Instrument ID: WC05

Method: 9012 MDL Date: 04/01/2011 13:51

Prep Method: 7.3.3

Analyte	Wavelength/ Mass	RL (ug/Kg)	MDL (ug/Kg)
Cyanide, Reactive		250	85.52

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Solid Instrument ID: WC05

Method: 9012 XMDL Date: 06/15/2008 15:59

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Cyanide, Reactive		10	0.72665

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Water Instrument ID: WC05

Method: 9012 XMDL Date: 04/01/2011 13:46

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (mg/L)
Cyanide, Reactive		10	1.589

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Water Instrument ID: WC05

Method: 9012 MDL Date: 04/01/2011 13:46

Prep Method: 7.3.3

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Cyanide, Reactive		250	39.725

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 7.4.4 MDL Date: 06/13/2008 18:02

Prep Method: 7.3.4

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Sulfide, Reactive		50	13.99

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 7.4.4 XMDL Date: 06/13/2008 18:03

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide, Reactive		5	1.399

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 7.4.4 MDL Date: 06/13/2008 17:51

Prep Method: 7.3.4

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfide, Reactive		50	1.399

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 7.4.4 XMDL Date: 06/13/2008 17:57

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide, Reactive		50	1.399

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 9040B RL Date: 07/03/2008 13:54

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.01	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 9040B XRL Date: 07/03/2008 13:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.01	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 9045C RL Date: 07/03/2008 14:00

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.01	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 9045C XRL Date: 07/03/2008 14:02

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.01	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: D92 RL Date: 11/09/2005 14:49

Analyte	Wavelength/ Mass	RL (Degrees	
Flashpoint		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: D92 XRL Date: 06/09/2008 16:44

Analyte	Wavelength/ Mass	XRL (Degrees	
Flashpoint		1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 09/05/2005 11:35

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SW846 Ch. 7 RL Date: 11/09/2005 14:49

Analyte	Wavelength/ Mass	RL (Degrees	
Flashpoint		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-49143-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SW846 Ch. 7 XRL Date: 06/09/2008 16:47

Analyte	Wavelength/ Mass	XRL (Degrees	
Flashpoint		1	

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Prep Method: 7.3.3

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 600-71253/1-A	01/30/2012 09:00	71253	10		250
LCS 600-71253/2-A	01/30/2012 09:00	71253	10		250
600-49143-8	01/30/2012 09:00	71253	10		250
600-49143-9	01/30/2012 09:00	71253	10		250

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Prep Method: 7.3.4

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 600-71253/1-A	01/30/2012 09:00	71253	10		250
LCS 600-71253/2-A	01/30/2012 09:00	71253	10		250
600-49143-8	01/30/2012 09:00	71253	10		250
600-49143-9	01/30/2012 09:00	71253	10		250

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Instrument ID: WC05 Method: 9012

Start Date: 01/31/2012 12:12 End Date: 01/31/2012 12:39

Lab Sample ID	D/F	Type	Time	Analytes																			
				CNReac																			
ZZZZZZ			12:12																				
ZZZZZZ			12:13																				
ZZZZZZ			12:13																				
ZZZZZZ			12:14																				
ZZZZZZ			12:15																				
ZZZZZZ			12:15																				
ZZZZZZ			12:16																				
ICV 600-71273/8	1		12:18	X																			
ICB 600-71273/9	1		12:19	X																			
MB 600-71253/1-A	1	T	12:20	X																			
LCS 600-71253/2-A	20	T	12:21	X																			
ZZZZZZ			12:21																				
600-49143-8	1	T	12:22	X																			
ZZZZZZ			12:23																				
ZZZZZZ			12:24																				
ZZZZZZ			12:24																				
ZZZZZZ			12:25																				
ZZZZZZ			12:26																				
ZZZZZZ			12:26																				
CCV 600-71273/20	1		12:27	X																			
CCB 600-71273/21	1		12:28	X																			
600-49143-9	1	T	12:28	X																			
ZZZZZZ			12:29																				
CCV 600-71273/24	1		12:30	X																			
CCB 600-71273/25	1		12:31	X																			
ZZZZZZ			12:31																				
ZZZZZZ			12:32																				
ZZZZZZ			12:33																				
ZZZZZZ			12:33																				
ZZZZZZ			12:34																				
ZZZZZZ			12:35																				
ZZZZZZ			12:36																				
ZZZZZZ			12:36																				
ZZZZZZ			12:37																				
ZZZZZZ			12:38																				
ZZZZZZ			12:39																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Instrument ID: NOEQUIP Method: 7.4.4

Start Date: 01/31/2012 12:00 End Date: 01/31/2012 12:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				S2Reac																			
MB 600-71253/1-A	1	T	12:00	X																			
LCS 600-71253/2-A	1	T	12:00	X																			
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
600-49143-8	1	T	12:00	X																			
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
600-49143-9	1	T	12:00	X																			
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Instrument ID: NOEQUIP Method: 7.4.4

Start Date: 01/31/2012 12:00 End Date: 01/31/2012 12:00

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Instrument ID: NOEQUIP Method: 9040B

Start Date: 01/31/2012 15:45 End Date: 01/31/2012 16:29

Lab Sample ID	D/F	Type	Time	Analytes																		
				pH																		
LCS 600-71295/1	1	T	15:45	X																		
600-49143-9	1	T	15:45	X																		
600-49143-9 DU	1	T	15:45	X																		
CCV 600-71295/4	1		16:29	X																		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Instrument ID: NOEQUIP Method: 9045C

Start Date: 01/30/2012 11:00 End Date: 01/30/2012 11:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				pH																			
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
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ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
CCV 600-71179/13			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
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ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
CCV 600-71179/25	1		11:00	X																			
LCS 600-71179/26	1	T	11:00	X																			
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
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ZZZZZZ			11:00																				
600-49143-8	1	T	11:00	X																			
CCV 600-71179/38	1		11:00	X																			
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Instrument ID: NOEQUIP Method: 9045C

Start Date: 01/30/2012 11:00 End Date: 01/30/2012 11:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				pH																			
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
CCV 600-71179/48			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Instrument ID: NOEQUIP Method: D92

Start Date: 01/25/2012 13:00 End Date: 01/25/2012 13:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				FP																			
MB 600-70933/1	1	T	13:00	X																			
LCS 600-70933/2	1	T	13:00	X																			
ZZZZZZ			13:00																				
ZZZZZZ			13:00																				
ZZZZZZ			13:00																				
600-49143-8	1	T	13:00	X																			
ZZZZZZ			13:00																				
ZZZZZZ			13:00																				
ZZZZZZ			13:00																				
CCV 600-70933/10	1		13:00	X																			

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 01/23/2012 17:19 End Date: 01/23/2012 17:19

Lab Sample ID	D/F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			17:19																					
ZZZZZZ			17:19																					
ZZZZZZ			17:19																					
ZZZZZZ			17:19																					
ZZZZZZ			17:19																					
ZZZZZZ			17:19																					
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ZZZZZZ			17:19																					
ZZZZZZ			17:19																					
ZZZZZZ			17:19																					
600-49143-1	1	T	17:19	X	X																			
600-49143-1 MS	1	T	17:19	X	X																			
600-49143-1 MSD	1	T	17:19	X	X																			
600-49143-2	1	T	17:19	X	X																			
600-49143-3	1	T	17:19	X	X																			
600-49143-4	1	T	17:19	X	X																			
600-49143-5	1	T	17:19	X	X																			
600-49143-6	1	T	17:19	X	X																			
600-49143-8	1	T	17:19	X	X																			
ZZZZZZ			17:19																					
ZZZZZZ			17:19																					
ZZZZZZ			17:19																					
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ZZZZZZ			17:19																					

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Instrument ID: NOEQUIP Method: SW846 Ch. 7

Start Date: 01/26/2012 10:30 End Date: 01/26/2012 10:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				FP																			
MB 600-70973/1	1	T	10:30	X																			
LCS 600-70973/2	1	T	10:30	X																			
ZZZZZZ			10:30																				
CCV 600-70973/4	1		10:30	X																			
600-49143-9	1	T	10:30	X																			
600-49143-9 DU	1	T	10:30	X																			
ZZZZZZ			10:30																				
CCV 600-70973/8	1		10:30	X																			
ZZZZZZ			10:30																				
ZZZZZZ			10:30																				
ZZZZZZ			10:30																				
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ZZZZZZ			10:30																				

Prep Types
T = Total/NA

71273-9QL.RCN

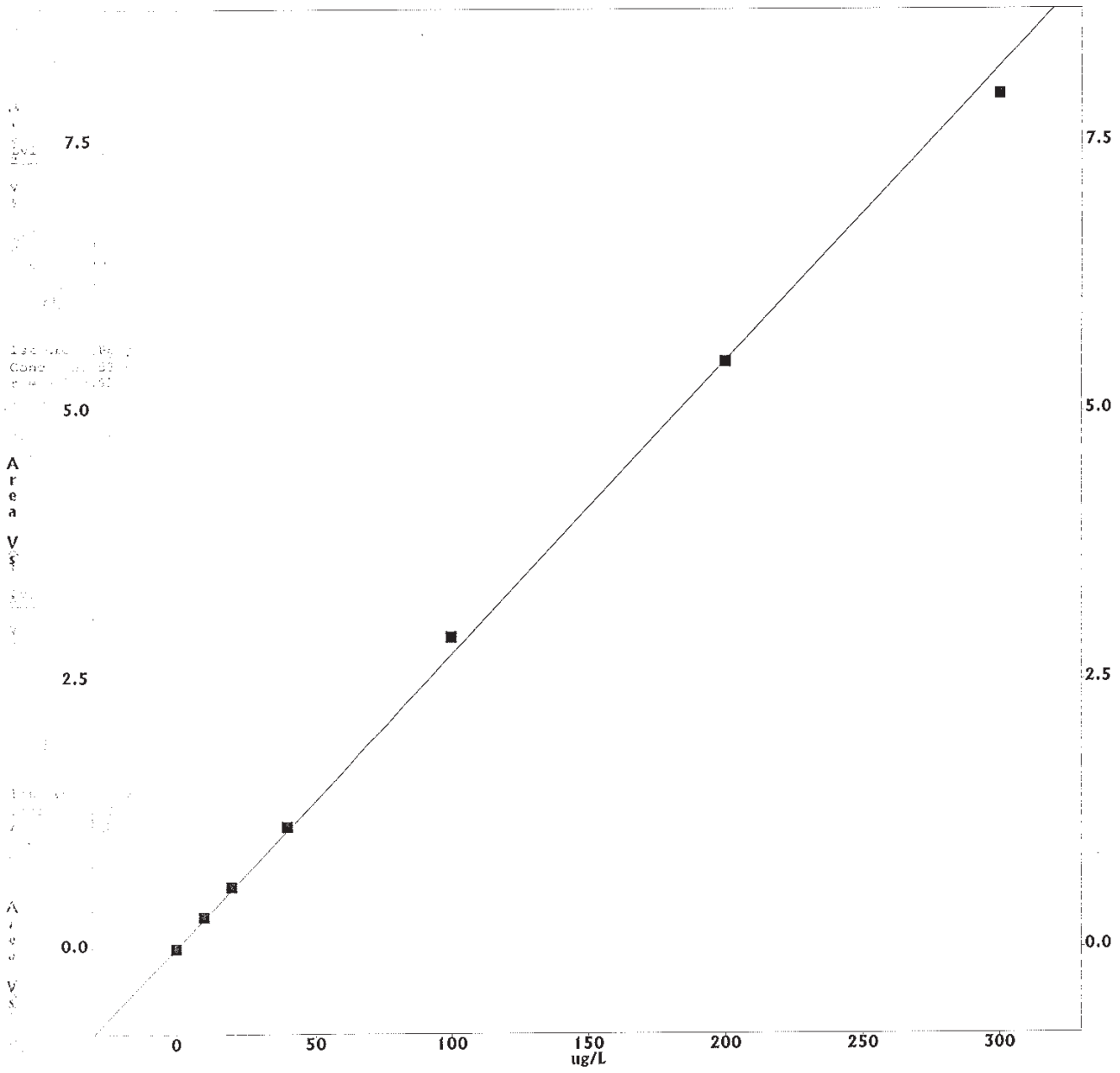
cyanide

Lvl	Area	ug/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	7955456	300	7955456					0.0	0.0	3.1
2	5464128	200	5464128					0.0	0.0	0.2
3	2904704	100	2904704					0.0	0.0	-6.1
4	1137677	40	1137677					0.0	0.0	-3.9
5	579251	20	579251					0.0	0.0	-5.8
6	297370	10	297370					0.0	0.0	-8.6
7	0	0	0					0.0	0.0	

1st Order Poly
Conc = 3.653e-005 Area - 7.156e-006
r = 0.9992

1/31/12

Scaling: None - Weighting: 1/X



Printed: Friday, February 10, 2012 - 10:17 AM

OPERATOR: bgrimm
ACQ. TIME: Jan 31, 2012 12:12:20
DATA FILENAME: C:\OMNION\DATA\CYANIDE\013112CA.FDT
METHOD FILENAME: C:\OMNION\METHODS\CYANIDE\CYANIDE.MET
TRAY FILENAME:

METHOD: EPA 335.3/FIA #1

Method - Ch. 1 (cyanide)

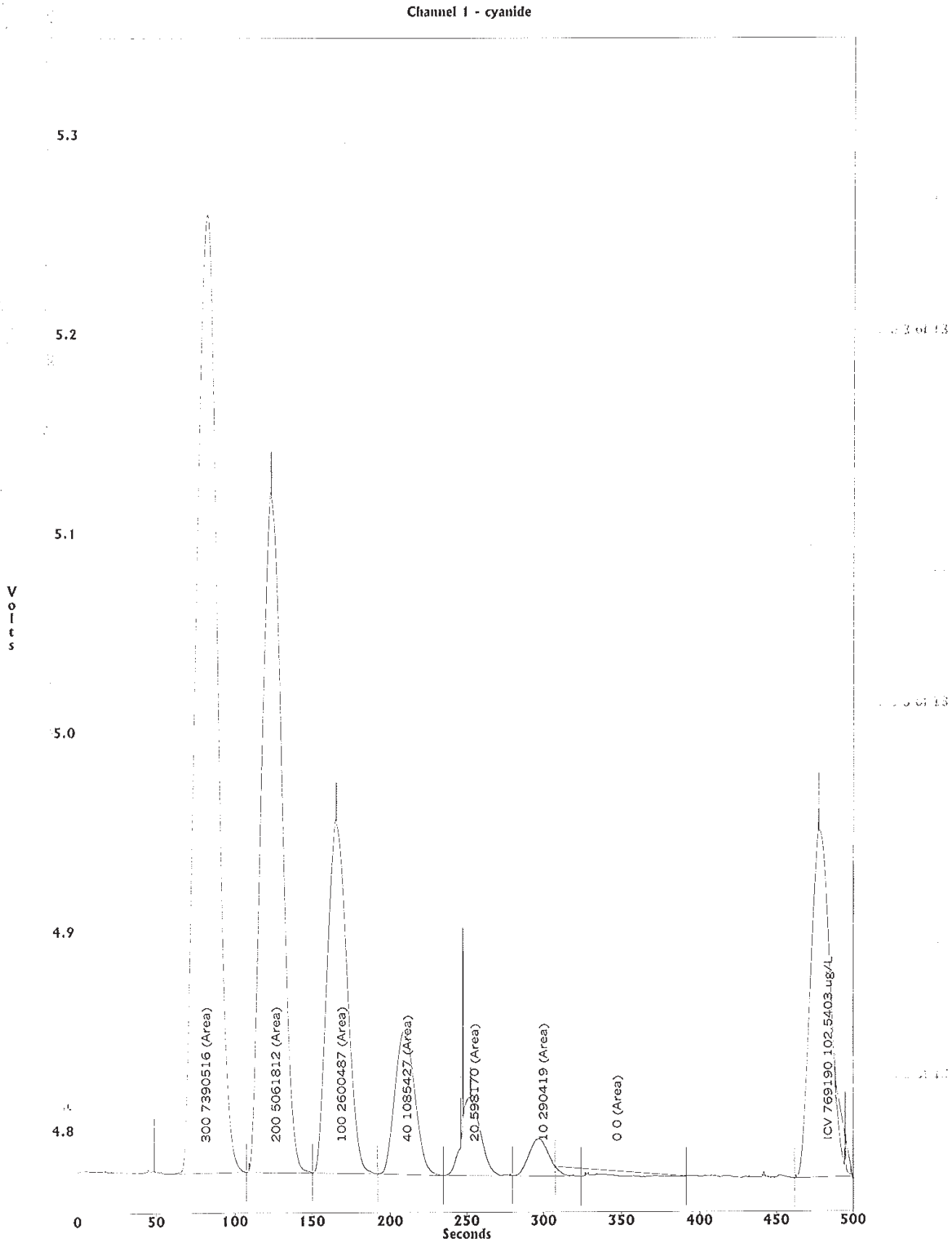
METHOD DESCRIPTION:
Created: Oct 7, 2003 14:14:00
Modified: Feb 8, 2012 15:18:45
cyanide

ANALYTE DATA:
Analyte Name: cyanide
Concentration Units: ug/L
Chemistry: Direct
Inject to Peak Start (s): 25.0
Peak Base Width (s): 42.000
% Width Tolerance: 50.000
Threshold: 5000.000
Autodilution Trigger: Off
QuikChem Method:

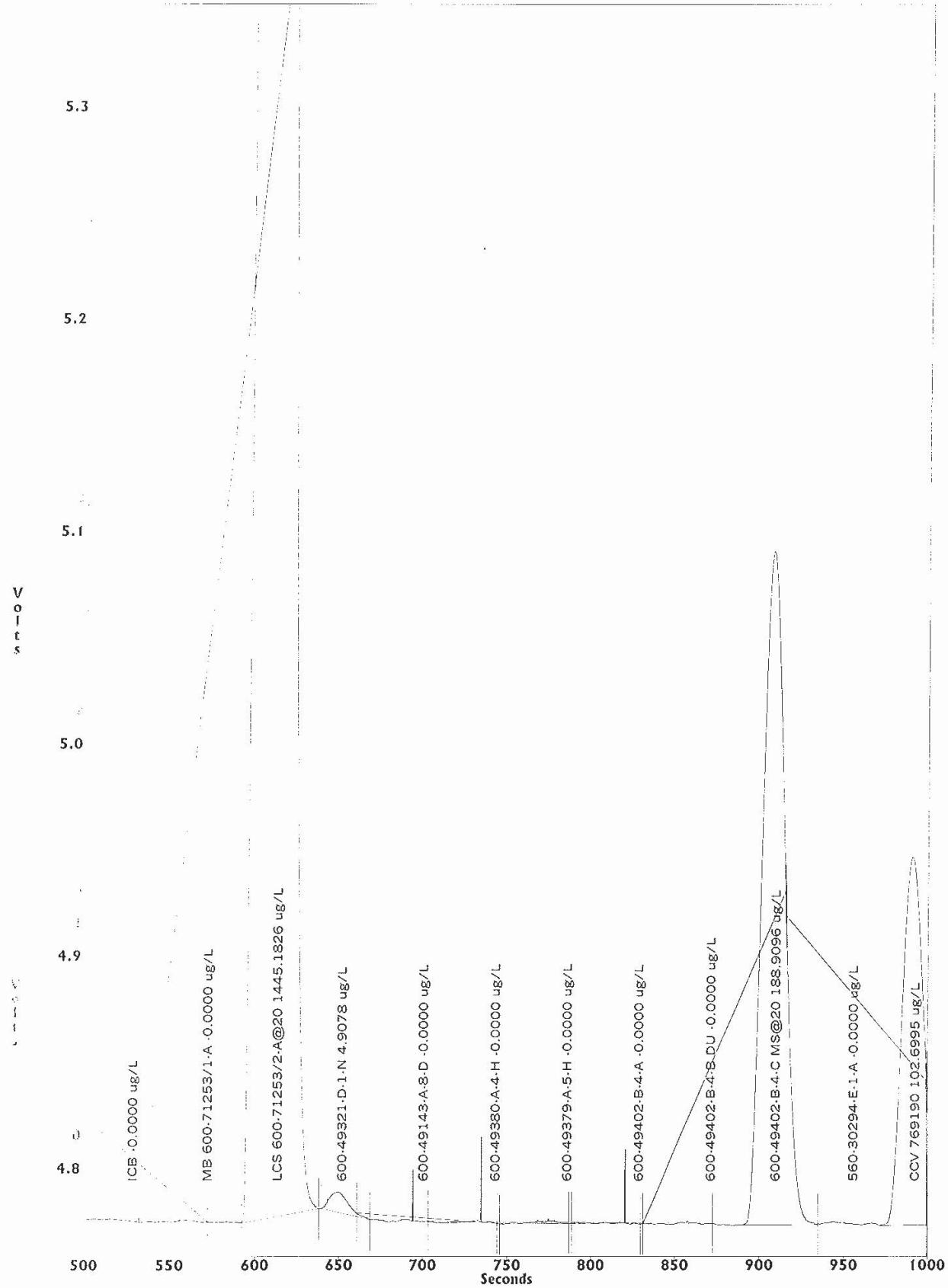
CALIBRATION DATA:
Levels:
1 : 300.000 2 : 200.000 3 : 100.000 4 : 40.000
5 : 20.000 6 : 10.000 7 : 0.000
Calibration Rep Handling: Replace
Calibration Fit Type: 1st Order Poly
Force Though Zero: No
Weighting Method: 1/X
Concentration Scaling: None

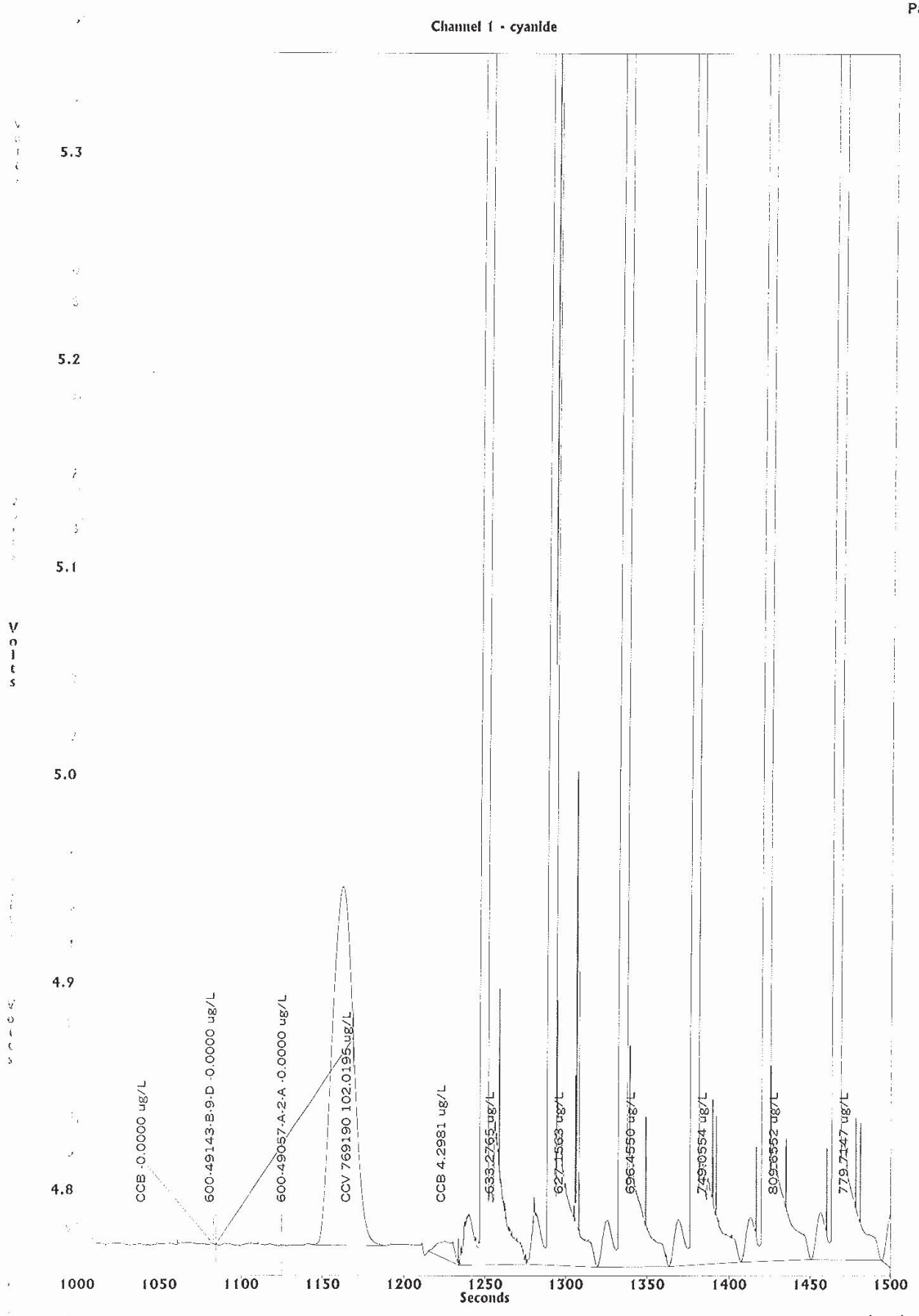
Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 1 -- Cup Range: 1 to 50

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	cyanide (ug/L)	Man Dil Factor	Auto Dil Factor	Weight	Unit
1	ICV 769190	31 Jan 2012	12:18:59	1	102.54029	1.0	1.00	1.00000	
2	ICB	31 Jan 2012	12:19:43	1	-0.00001	1.0	1.00	1.00000	
3	MB 600-71253/1-A	31 Jan 2012	12:20:26	1	-0.00001	1.0	1.00	1.00000	
4	LCS 600-71253/2-A@20	31 Jan 2012	12:21:09	1	1445.18262	1.0	1.00	1.00000	
5	600-49321-D-1-N	31 Jan 2012	12:21:52	1	4.90779	1.0	1.00	1.00000	
6	600-49143-A-8-D	31 Jan 2012	12:22:35	1	-0.00001	1.0	1.00	1.00000	
7	600-49380-A-4-H	31 Jan 2012	12:23:17	1	-0.00001	1.0	1.00	1.00000	
8	600-49379-A-5-H	31 Jan 2012	12:24:00	1	-0.00001	1.0	1.00	1.00000	
9	600-49402-B-4-A	31 Jan 2012	12:24:43	1	-0.00001	1.0	1.00	1.00000	
10	600-49402-B-4-B DU	31 Jan 2012	12:25:25	1	-0.00001	1.0	1.00	1.00000	
11	600-49402-B-4-C MS@20	31 Jan 2012	12:26:08	1	188.90961	1.0	1.00	1.00000	
12	560-30294-E-1-A	31 Jan 2012	12:26:50	1	-0.00001	1.0	1.00	1.00000	
13	CCV 769190	31 Jan 2012	12:27:31	1	102.69946	1.0	1.00	1.00000	
14	CCB	31 Jan 2012	12:28:13	1	-0.00001	1.0	1.00	1.00000	
15	600-49143-B-9-D	31 Jan 2012	12:28:55	1	-0.00001	1.0	1.00	1.00000	
16	600-49057-A-2-A	31 Jan 2012	12:29:39	1	-0.00001	1.0	1.00	1.00000	
17	CCV 769190	31 Jan 2012	12:30:22	1	102.01949	1.0	1.00	1.00000	
18	CCB	31 Jan 2012	12:31:06	1	4.29811	1.0	1.00	1.00000	
44		31 Jan 2012	12:31:49	1	633.27649	1.0	1.00	1.00000	
45		31 Jan 2012	12:32:30	1	627.15631	1.0	1.00	1.00000	
46		31 Jan 2012	12:33:14	1	696.45502	1.0	1.00	1.00000	
47		31 Jan 2012	12:33:58	1	749.05536	1.0	1.00	1.00000	
48		31 Jan 2012	12:34:42	1	809.65515	1.0	1.00	1.00000	
49		31 Jan 2012	12:35:26	1	779.71466	1.0	1.00	1.00000	
50		31 Jan 2012	12:36:09	1	757.58319	1.0	1.00	1.00000	

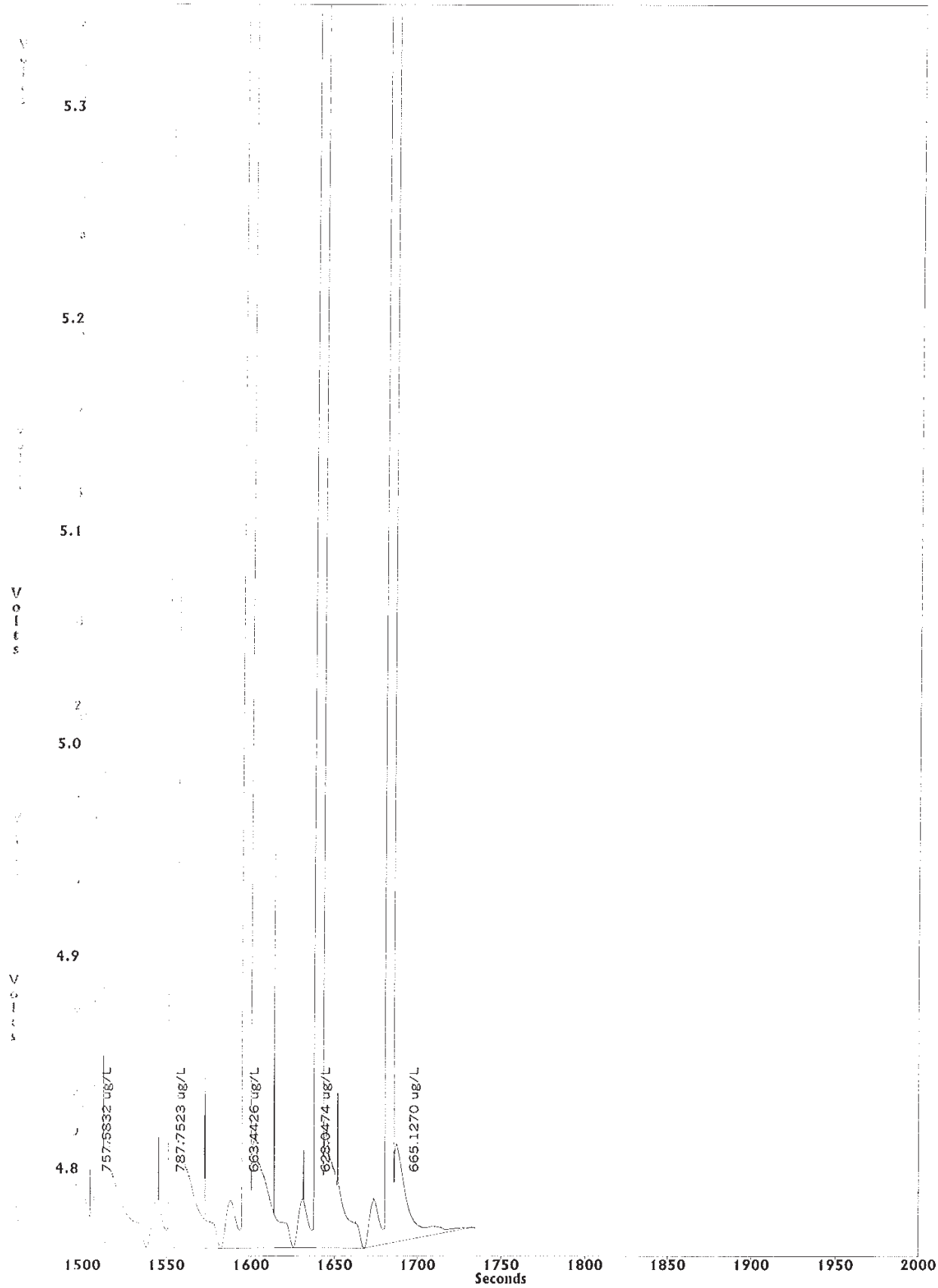

Channel 1 - cyanide
5.3
5.2
5.1
5.0
4.9
4.8
Volts
300 7390516 (Area)
200 5061812 (Area)
100 2600487 (Area)
40 1085427 (Area)
20 593170 (Area)
10 290419 (Area)
0 0 (Area)
ICV 769190 102.5403 ug/L
0
50
100
150
200
250
300
350
400
450
500
Seconds

Channel 1 - cyanide




Channel 1 - cyanide
Volts
5.3
5.2
5.1
5.0
4.9
4.8
CCB 0.0000 ug/L
600-49143-B-9-D 0.0000 ug/L
600-49057-A-2-A 0.0000 ug/L
CCV 769190 102.0195 ug/L
CCB 4.2981 ug/L
633.2765 ug/L
627.1563 ug/L
696.4550 ug/L
749.0554 ug/L
809.6552 ug/L
779.7147 ug/L
1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500
Seconds

Channel 1 - cyanide



TestAmerica Houston

SULFIDE - Titrimetric & Reactive logbook

Method: SM4500-S^2 E or SW9034 **(circle one)**

Analyst: BPT Batch# 71278 Date: 1/31/12 1200 Time: 1200

Starch Sol ID: 460551 6N HCL ID: 758456 Sulfide Std ID: 780895

Sample ID	(C) Sample Volume (mL)	(A) 0.025 N* Iodine (mL) ID: 751398	(B) 0.025 N* Sodium Thiosulfate (mL) ID: 692932	Sulfide [(A-B)/C]*400 (mg/L)	Comments (Reactives X25)
SB	100	10	10	0	
UNDISTILLED	2.5/100	20	11.9	1.20	
MB	100	10	10	0	0
LCS		20	8.8	49.8	1120
600-49263-B-1		10	9.9	0.4	10
B-1DU		10	9.9	0.4	10
B-1MS		20	8.8	49.8	1120
600-49321-D-1		10	9.9	0.4	10
600-49143-A-8		10	9.9	0.4	10
600-49380-A-4		10	9.9	0.4	10
600-49379-A-5		10	9.9	0.4	10
600-49405-A-1		10	9.9	0.4	10
600-49462-B-4		10	9.8	0.8	20
B-4DU		10	9.8	0.8	20
B-4MS		20	9.0	49.0	1100
600-49143-B-9		10	9.9	0.4	10
600-49057-A-2		10	9.9	0.4	10

*For Normality other then indicated [((A*Iodine N) – (B*Thiosulfate N))/C]*16000

Reviewed By: Date: 1/31/12

SCANNED

TestAmerica HOUSTON
pH / Corrosivity
EPA 150.1, SW-846 9040B & 9045C, SM 4500-H + B

Date/Time: 1/31/12 1545 Analyst: MB Slope: 98.52 Balance ID: B-2

Buffer ID: 4.00; 581321 7.00; 697130 10.00; 633478 LCS/ICV/CCV ID: 632813

1.00; 651512, 13.00; 586735 Batch #: 71295

Sample ID	Initial Reading (std. units)	Temp. (°C)	Comments
Calibrate 4.00	4.00	21.4	
Calibrate 7.00	7.00	21.2	
Calibrate 10.00	10.00	21.2	
LCS/ICV	7.04	21.8	TV= 7.00 std. units
49143 B9	8.10	20.7	WATER
Duplicate ↓ B9	8.10	20.7	↓
	1/31/12	MB	
CCV	7.03	21.8	TV= 7.00 std. units
Duplicate			
CCV			TV= _____ std. Units

NOTE: For meter calibration, buffer readings should be within 0.05 pH units of the buffer solution value. For analysis, initial and duplicate sample readings should be within 0.1 pH units.

Reviewed By: MB Date: 1/31/12

TestAmerica HOUSTON
pH / Corrosivity
EPA 150.1, SW-846 9040B & 9045C, SM 4500-H + B

Date/Time: 1/30/12 1100 Analyst: MB Slope: 98.21 Balance ID: B-2

Buffer ID: 4.00; 581321 7.00; 697130 10.00; 633478 LCS/ICV/CCV ID: 632813

1.00; 651512, 13.00; 586735 Batch #: 71179

Sample ID	Initial Reading (std. units)	Temp. (°C)	Comments
Calibrate 4.00	4.00	20.5	
Calibrate 7.00	7.00	19.3	
Calibrate 10.00	10.00	19.3	
LCS/ICV	6.98	19.3	TV= 7.00 std. units
49417 - B1	7.09	18.8	SOIL
Duplicate B1	7.07	18.7	
B2	6.85	19.0	
B3	6.76	19.1	
B4	7.15	19.5	
B5	6.89	19.4	
B6	8.07	19.8	
B7	8.05	20.1	
B8	8.01	20.2	
B9	7.92	19.9	
B10	8.06	19.7	
CCV	6.98	20.0	TV= 7.00 std. units
49417 - B11	8.08	19.8	SOIL
Duplicate B11	8.06	19.9	
B12	6.91	19.7	
B13	7.74	19.8	
B14	7.90	20.0	
49271 - B1	8.72	19.8	
B2	8.23	19.7	
B3	8.63	19.7	
B4	8.30	19.9	
B5	8.77	20.0	
B6	8.66	20.4	
CCV	6.97	20.1	TV= 7.00 std. Units

NOTE: For meter calibration, buffer readings should be within 0.05 pH units of the buffer solution value. For analysis, initial and duplicate sample readings should be within 0.1 pH units.

Reviewed By: [signature] **Date:** 1/30/12

TestAmerica HOUSTON
pH / Corrosivity
EPA 150.1, SW-846 9040B & 9045C, SM 4500-H + B

Date/Time:_____ Analyst:_____ Slope:_____ Balance ID:_____

Buffer ID: 4.00;_____ 7.00;_____ 10.00;_____ LCS/ICV/CCV ID:_____

1.00;_____, 13.00;_____ Batch #:_____

CONT'D

Sample ID	Initial Reading (std. units)	Temp. (°C)	Comments
Calibrate 4.00			
Calibrate 7.00			
Calibrate 10.00			
LCS/ICV	6.98	20.1	TV= 7.00 std. units
49405 - A1	8.73	20.6	SOIL
Duplicate A1	8.71	20.8	↓
49289 - D1	5.99	19.9	↓
49369 - A1	10.03	20.4	↓
↓ A2	9.40	20.4	↓
↓ A3	8.71	20.5	↓
49263 - B1	7.50	20.5	↓
49379 - A5	8.32	20.6	↓
49321 - ~~D~~ MD D1	7.69	20.8	↓
49505 - C1	7.46	21.2	↓
49143 - A8	7.60	22.6	↓
CCV	7.02	21.1	TV= 7.00 std. units
49220 - A1	7.45	22.3	WATER
Duplicate ↓ A1	7.48	22.3	↓
49217 - A1	7.54	21.2	↓
49218 - A1	7.56	21.3	↓
49131 - A1	7.44	22.4	↓
↓ A2	7.45	22.6	↓
↓ A3	7.44	20.9	↓
↓ A4	7.35	20.9	↓
49295 - B1	7.59	22.0	↓
	1/30/12 MB.		
CCV	7.01	21.1	TV= 7.00 std. Units

NOTE: For meter calibration, buffer readings should be within 0.05 pH units of the buffer solution value. For analysis, initial and duplicate sample readings should be within 0.1 pH units.

Reviewed By: _____ Date: 1/30/12

TESTAMERICA HOUSTON

Flashpoint / Ignitability by Closed or Open Cup

Date/Time: 1/25/12 13:00 Analyst: SP Barometric Reading (mm Hg): 755

Thermometer ID: 540 Batch #: 70933

LCS True Value: 81 LCS ID: 570596

(closed cup) (open cup)

Bottle ID	Sample ID	Thermometer Temp. (°F)	Corrected Temp. (°F)	Comment (Note Procedure Used)
	MB	7186	>186	
	LCS	82.0	81.70	
774954	49263-B1	>212	>212	D92
	↓ DU	>212	>212	↓
775361	49289-A1	>212	>212	
772494	49143-A8	>212	>212	
775957	49321-B1	>212	>212	
770518	49055-A1	>212	>212	
560-743480	560-30294-A2	>212	>212	
	CCV	82.0	81.70	
		SP	1/25/12	

Flashpoint Barometric Pressure Correction Formula:

Corrected Flashpoint = F + 0.06 (760-P)

Where: F = Observed Flashpoint Temperature (°F)

P = Ambient Barometric Pressure (mm Hg)

Reviewed By: M Date: 1/26/12

TESTAMERICA HOUSTON

Flashpoint / Ignitability by Closed or Open Cup

Date/Time: 1/26/12 10:30 Analyst: SP

Thermometer ID: 540

Barometric Reading (mm Hg): 759

Batch #: 70973

LCS True Value: 81 LCS ID: 570596

(closed cup) (open cup)

Bottle ID	Sample ID	Thermometer Temp. (°F)	Corrected Temp. (°F)	Comment (Note Procedure Used)
	MB	>186		
	LCS	82.0	81.94	1010
744952	560-30183-C2	165	164.94	↓
772496	49143-A 9	>186	>186	
	DU	>186	>186	
775034	49145-A 4	>186	>186	
	CCV	82	81.94	
		SP	1/26/12	

Flashpoint Barometric Pressure Correction Formula:

Corrected Flashpoint = F + 0.06 (760-P)

Where: F = Observed Flashpoint Temperature (°F)

P = Ambient Barometric Pressure (mm Hg)

SCANNED 1/26/12

Reviewed By: _____ Date: _____

WET133 Rev. 16 10/11

WET 1587

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Batch Number: 71253 Batch Start Date: 01/30/12 09:00 Batch Analyst: Grimm, Brandon D

Batch Method: 7.3.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	SULFTSLCS 00462	WETRCYANID 00014		
MB 600-71253/1		7.3.4, 9012		10 g	250 mL				
LCS 600-71253/2		7.3.4, 9012		10 g	250 mL	10 mL	10 mL		
600-49143-A-8	IDW 1	7.3.4, 9012	T	10 g	250 mL				
600-49143-B-9	IDW 2	7.3.4, 9012	T	10 g	250 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

Exide APAR Page 2598 of 2984

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Batch Number: 71273 Batch Start Date: 01/31/12 14:19 Batch Analyst: Grimm, Brandon D

Batch Method: 9012 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
ICV 600-71273/8		9012		5 mL	5 mL				
ICB 600-71273/9		9012		5 mL	5 mL				
MB 600-71253/1-A		9012		5 mL	5 mL				
LCS 600-71253/2-A		9012		5 mL	5 mL				
600-49143-A-8-D	IDW 1	9012	T	5 mL	5 mL				
CCV 600-71273/20		9012		5 mL	5 mL				
CCB 600-71273/21		9012		5 mL	5 mL				
600-49143-B-9-D	IDW 2	9012	T	5 mL	5 mL				
CCV 600-71273/24		9012		5 mL	5 mL				
CCB 600-71273/25		9012		5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

Exide APAR Page 2599 of 2984

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Batch Number: 71253 Batch Start Date: 01/30/12 09:00 Batch Analyst: Grimm, Brandon D

Batch Method: 7.3.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	SULFTSLCS 00462	WETRCYANID 00014		
MB 600-71253/1		7.3.4, 7.4.4		10 g	250 mL				
LCS 600-71253/2		7.3.4, 7.4.4		10 g	250 mL	10 mL	10 mL		
600-49143-A-8	IDW 1	7.3.4, 7.4.4	T	10 g	250 mL				
600-49143-B-9	IDW 2	7.3.4, 7.4.4	T	10 g	250 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

Exide APAR Page 2600 of 2984

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Batch Number: 71295 Batch Start Date: 01/31/12 15:45 Batch Analyst: Boza, Michael

Batch Method: 9040B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SampleTemp	pHread1	CalcMsg	WETRPH7BUF 00015	
LCS 600-71295/1		9040B		50 mL	21.8 Celsius	7.04 SU	pH = Read 1	50 mL	
600-49143-B-9	IDW 2	9040B	T	50 mL	20.7 Celsius	8.10 SU	pH = Read 1		
600-49143-B-9 DU	IDW 2	9040B	T	50 mL	20.7 Celsius	8.10 SU	pH = Read 1		
CCV 600-71295/4		9040B		50 mL	21.8 Celsius	7.03 SU	pH = Read 1	50 mL	

Batch Notes	

Basis	Basis Description
T	Total/NA

Exide APAR Page 2601 of 2984

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Batch Number: 71179 Batch Start Date: 01/30/12 11:00 Batch Analyst: Boza, Michael

Batch Method: 9045C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SampleTemp	pHread1	CalcMsg	WETRPH7BUF 00015	
CCV 600-71179/25		9045C		50 mL	20.1 Celsius	6.97 SU	pH = Read 1	50 mL	
LCS 600-71179/26		9045C		50 mL	20.1 Celsius	6.98 SU	pH = Read 1	50 mL	
600-49143-A-8	IDW 1	9045C	T	20 mL	22.6 Celsius	7.60 SU	pH = Read 1		
CCV 600-71179/38		9045C		50 mL	21.1 Celsius	7.02 SU	pH = Read 1	50 mL	

Batch Notes	

Basis	Basis Description
T	Total/NA

Exide APAR Page 2602 of 2984

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Batch Number: 70933 Batch Start Date: 01/25/12 13:00 Batch Analyst: Puranik, Surendra U

Batch Method: D92 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	WETRPXYLEN 00005				
LCS 600-70933/2		D92		60 mL	60 mL				
CCV 600-70933/10		D92		60 mL	60 mL				

Batch Notes	

Basis	Basis Description

Exide APAR Page 2603 of 2984

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Batch Number: 70705 Batch Start Date: 01/23/12 17:19 Batch Analyst: Puranik, Surendra U

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
600-49143-A-1	2012-FWCS-7	Moisture	T	1.15 g	15.76 g	11.40 g			
600-49143-A-1 MS	2012-FWCS-7	Moisture	T	1.15 g	16.99 g	12.22 g			
600-49143-A-1 MSD	2012-FWCS-7	Moisture	T	1.15 g	18.59 g	13.49 g			
600-49143-A-2	2012-FWCS-6	Moisture	T	1.15 g	19.09 g	14.34 g			
600-49143-A-3	2012-FWCS-5	Moisture	T	1.15 g	17.53 g	13.63 g			
600-49143-A-4	2012-FWCS-4	Moisture	T	1.15 g	18.70 g	13.57 g			
600-49143-A-5	2012-FWCS-3	Moisture	T	1.15 g	19.33 g	15.15 g			
600-49143-A-6	2012-FWCS-2	Moisture	T	1.15 g	16.59 g	13.44 g			
600-49143-A-8	IDW 1	Moisture	T	1.15 g	17.19 g	13.42 g			

Batch Notes	

Basis	Basis Description
T	Total/NA

Exide APAR Page 2604 of 2984

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.:

Batch Number: 70973 Batch Start Date: 01/26/12 10:30 Batch Analyst: Puranik, Surendra U

Batch Method: SW846 Ch. 7 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	WETRPXYLEN 00005				
MB 600-70973/1		SW846 Ch. 7		60 mL					
LCS 600-70973/2		SW846 Ch. 7		60 mL	60 mL				
CCV 600-70973/4		SW846 Ch. 7		60 mL	60 mL				
CCV 600-70973/8		SW846 Ch. 7		60 mL	60 mL				

Batch Notes	
Barometric Pressure at Time of Analysis	759

Basis	Basis Description

Exide APAR Page 2605 of 2984

Loc: 600
49143

Chain of Custody Record

TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Client Information	Sampler: Chris Moore	Lab PM:	Carr	COC No.
Client Contact: Chris Moore	Phone: (512) 671-3434	E-Mail: chris.moore@pbwllc.com		Page: Page 1 of 1
Company: Pastor, Behling and Wheeler		Analysis Requested		Job #: 1732
Address: 2201 Double Creek Drive, Suite 4004	Due Date Requested:			Preservation Codes:
City: Round Rock				A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: TX, 78664				Other:
Phone: (512) 671-3434	PO #:			
Email: chris.moore@pbwllc.com	WO #:			
Project Name: Exide Frisco Recycling Center Work Plan Implementation	Project #: 1732			
Site: Exide Frisco Recycling Center	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Metals: Cd, Pb	Metals: Dissolved Cd, Dissolved Pb	RCRA Metals: Sb, As, Ba, Be, Cd, Cr, Pb, Ni, Se, Ag, Zn	Total organic carbon (EPA 415.1/9060A)	Sulfate (EPA 9056)	Total Petroleum Hydrocarbons (TX1005)	Total Petroleum Hydrocarbons (TX1006)	Total Dissolved Solids (SM 2540C)	Grain Size (ASTM D422-63)	Total Pb	RCRA 8 metals TCLP	RCT	Total Number of containers	Special Instructions/Note:
			Preservation Code:				I,D					I,A	J			IV	I	I		
2012-FWCS-7	1/19/12	1110	G	S	N	Y	X					X	X						4	Hold TX1006
2012-FWCS-~~X~~6		1140				N	X					X	X						2	
2012-FWCS-5		1206					X					X	X						2	
2012-FWCS-4		1231					X					X	X						2	
2012-FWCS-3		1255					X					X	X						2	
2012-FWCS-2		1319					X					X	X						2	
Field Blank 4		1445		W								X							3	
IDW 1		1539		S												X	X	X	2	
IDW 2		1551		W												X	X	X	3	
Equipment Blank 8		1609		W			X					X							4	
Trip Blank 1/19/12	—	—	—	W								X								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 1/19/12 1714	Company PBW	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

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03/02/2012

Exide APAR Page 2606 of 2984

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-49143-1

Login Number: 49143

List Source: TestAmerica Houston

List Number: 1

Creator: Capps, Dana

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	4.6
Cooler Temperature is recorded.	True	545
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

APAR

IDW Characterization and Disposition Documentation

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

WMI 1334591

GENERATOR

Name Exide Technologies
Address PO Box 250
Frisco TX 75034
Phone No. 972 335-2121

Generating Location Exide Technologies
7471 South 5th St; Frisco, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
0 0 3 2 3 0 2 2	961944TX	Plant Investigative Derived Waste Class 2 Soils	20	D

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

DANIEL A. JOHNSON — AUTHORIZED AGENT'S NAME (PRINT)
6-19-13 — DATE
SIGNATURE

TRANSPORTER

Transporter's Name Remediation Services, Inc
Address 2735 S. 10th Street
Independence, KS 67301
Phone No. (620)331-1200
Driver's name Bryan Mecom
Vehicle No. 109

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

6-20-13 — SHIPMENT DATE
Bryan Mecom — DRIVER'S SIGNATURE
6-20-13 — DELIVERY DATE
Bryan Mecom — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name DFW RDF
Address 1600 S Railroad Street
Permit No. 1025-B
Phone No. (972)459-1213
Lewisville TX 75067
Time 11:45 AM

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

NAME (PRINT)
6/20/13 — DATE
SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

DFW RDF
1600 South Railroad Street
Lewisville, TX, 75067
Ph: (972) 315-5421

Original
Ticket# 1274887

Customer Name REMEDIATIONSERVICES REMEDIATI
Ticket Date 06/20/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code 00313022
Manifest 1334596
Destination
PO
Profile 961944TX (PLANT INVESTIGATIVE DERIVED WASTE CLASS 2 SOILS)
Generator 158-EXIDETECHNOLOGIES Exide Technologies

Carrier RSI INDEPENDE
Vehicle# 109
Container
Driver
Check#
Billing # 0001625
Gen EPA ID 30516
Grid

Volume 14.0

	Time	Scale	Operator	Inbound		
In	06/20/2013 11:48:58	In Scale 2	lturner		Gross	31160 lb
Out	06/20/2013 11:48:58		lturner		Tare	24760 lb
					Net	6400 lb
					Tons	3.20

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	C2 Soil-Each-Soil	100	20	Each				
2	FUEL-Fuel Surcharg	100		%				
3	EVF-P-Standard Env	100		%				

3055461

I certify that the wastes I delivered to this facility on this date does not contain any regulated hazardous, toxic, radioactive wastes or substances, or other non-allowable waste. I also agree to remove any non-allowable wastes I bring to this facility, or pay all costs for proper removal of such wastes, upon request from this facility.

Total Tax
Total Ticket

Signature _____

403WMNT

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1334599

Name Exide Technologies
Address PO Box 250
Frisco TX 75034
Phone No. 972 335-2121

Generating Location Exide Technologies
7471 South 5th St; Frisco, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD008451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
0 0 8 2 8 0 2 2	961945TX	Landfill Investigative Derived Waste Class 2 Soils	7	D

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

LAURELA. JOHNSON — AUTHORIZED AGENT'S NAME (PRINT)
6-19-13 — DATE
SIGNATURE

TRANSPORTER

Transporter's Name Remediation Services, Inc
Address 2735 S. 10th Street
Independence, KS 67301

Phone No. (620)331-1200
Driver's name _____
Vehicle No. _____

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

6-20-13 — SHIPMENT DATE
DRIVER'S SIGNATURE
6-2013 — DELIVERY DATE
DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name DFW RDF
Address 1600 S Railroad Street
Permit No. 1025-B

Phone No. (972)459-1213
Lewisville TX 75067
Time 1430

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

NAME (PRINT)
6/20/13 — DATE
SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

DFW RDF
1600 South Railroad Street
Lewisville, TX, 75067
Ph: (972) 315-5421

Original
Ticket# 1275008

Customer Name REMEDIATIONSERVICES REMEDIATI
Ticket Date 06/20/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code 00323022
Manifest 1334599
Destination
PO
Profile 961945TX (LANDFILL IVESTIGATIVE DERIVED WASTE CLASS 2)
Generator 158-EXIDETECHNOLOGIES Exide Technologies

Carrier RSI INDEPENDE
Vehicle# 109
Container
Driver
Check#
Billing # 0001625
Gen EPA ID 30516

Grid

Volume 14.0

Time
In 06/20/2013 13:43:17
Out 06/20/2013 13:43:17

Scale
In Scale 2

Operator
lturner
lturner

Inbound

Gross 2740 lb
Tare 40 lb
Net 2700 lb
Tons 1.35

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	C2 Soil-DRUM-Soil	100	7	Each				
2	FUEL-Fuel Surcharg	100		%				
3	[illegible]	[illegible]		%				

B Mac

Total Ticket 3055541

I certify that the wastes I delivered to this facility on this date does not contain any regulated hazardous, toxic, radioactive wastes or substances, or other non-allowable waste. I also agree to remove any non-allowable wastes I bring to this facility, or pay all costs for proper removal of such wastes, upon request from this facility.

Total Ticket

Signature _____

403WMNT

ALS Environmental

25-Apr-2013

Vanessa Coleman
Exide Technologies
7471 South Fifth Street
Frisco, TX 75034

Tel: (972) 335-2121
Fax:

Re: Plant Drums

Work Order: **1304855**

Dear Vanessa,

ALS Environmental received 1 sample on 23-Apr-2013 09:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Bernadette Fini

Electronically approved by: Luke F. Hernandez

Bernadette A. Fini
Project Manager

NELAP ACCREDITED TNI LABORATORY

Certificate No: TX: T104704231-12-10

ALS Environmental

Date: 25-Apr-13

Client: Exide Technologies
Project: Plant Drums
Work Order: **1304855**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1304855-01	Plant IDW001	Soil		4/19/2013 15:30	4/23/2013 09:15	☐

ALS Environmental

Date: 25-Apr-13

Client: Exide Technologies
Project: Plant Drums
Work Order: 1304855

Case Narrative

No Exceptions

ALS Environmental

Date: *25-Apr-13*

Client: Exide Technologies
Project: Plant Drums
Sample ID: Plant IDW001
Collection Date: 4/19/2013 03:30 PM

Work Order: 1304855
Lab ID: 1304855-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS	Method: **SW1311/6020**				Leachate: SW1311 / 4/24/13 Prep: SW3010A / 4/24/13		Analyst: **JCJ**
Cadmium	U		0.00800	0.0200	mg/L	10	4/25/2013 02:47
Lead	**0.00955**	J	**0.00700**	**0.0500**	**mg/L**	10	4/25/2013 02:47
PH - SOIL - SW9045D	Method: **SW9045B**						Analyst: **TAL**
pH	**7.56**		**0.10**	**0.100**	**pH Units**	1	4/25/2013

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 25-Apr-13

Client: Exide Technologies

Work Order: 1304855

Project: Plant Drums

QC BATCH REPORT

Batch ID: **69484** Instrument ID **ICPMS04** Method: **SW1311/6020**

MBLK Sample ID: **MBLKT1-042313-69484** Units: **mg/L** Analysis Date: **4/25/2013 01:32 AM**

Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193316** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	U	0.020								
Lead	U	0.050								

MBLK Sample ID: **MBLKW4-042413-69484** Units: **mg/L** Analysis Date: **4/25/2013 01:37 AM**

Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193317** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	U	0.020								
Lead	U	0.050								

LCS Sample ID: **MLCSW4-042413-69484** Units: **mg/L** Analysis Date: **4/25/2013 01:42 AM**

Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193318** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	0.4715	0.020	0.5	0	94.3	80-120	0			
Lead	0.4819	0.050	0.5	0	96.4	80-120	0			

MS Sample ID: **1304841-02BMS** Units: **mg/L** Analysis Date: **4/25/2013 02:32 AM**

Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193328** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	0.4838	0.020	0.5	0.006098	95.5	75-125	0			
Lead	0.6796	0.050	0.5	0.1909	97.7	75-125	0			

MSD Sample ID: **1304841-02BMSD** Units: **mg/L** Analysis Date: **4/25/2013 02:37 AM**

Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193329** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	0.4991	0.020	0.5	0.006098	98.6	75-125	0.4838	3.12	20	
Lead	0.7159	0.050	0.5	0.1909	105	75-125	0.6796	5.21	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Exide Technologies
Work Order: 1304855
Project: Plant Drums

QC BATCH REPORT

Batch ID: **69484** Instrument ID **ICPMS04** Method: **SW1311/6020**

DUP Sample ID: **1304841-02BDUP** Units: **mg/L** Analysis Date: **4/25/2013 02:22 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193326** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	U	0.020	0	0	0	0-0	0.006098	0	25	
Lead	0.1905	0.050	0	0	0	0-0	0.1909	0.201	25	

The following samples were analyzed in this batch: 1304855-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Exide Technologies
Work Order: 1304855
Project: Plant Drums

QC BATCH REPORT

Batch ID: **R146377** Instrument ID **WetChem** Method: **SW9045B** **(Dissolve)**

LCS Sample ID: **LCS-W1120425-R146377** Units: **pH Units** Analysis Date: **4/25/2013**
Client ID: Run ID: **WETCHEM_130425C** SeqNo: **3194296** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.01	0.10	6	0	100	90-110	0			

DUP Sample ID: **1304855-01ADUP** Units: **pH Units** Analysis Date: **4/25/2013**
Client ID: **Plant IDW001** Run ID: **WETCHEM_130425C** SeqNo: **3194306** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.61	0.10	0	0	0	0-0	7.56	0.659	20	

The following samples were analyzed in this batch: 1304855-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 25-Apr-13

Client: Exide Technologies
Project: Plant Drums
WorkOrder: **1304855**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/L	Milligrams per Liter
pH Units	

ALS Environmental

Sample Receipt Checklist

Client Name: **EXIDE TECHNOLOGIES** Date/Time Received: **23-Apr-13 09:15**

Work Order: **1304855** Received by: **JBA**

Checklist completed by Robert D. Harris (eSignature) 23-Apr-13 (Date) Reviewed by: Bernadette A. Fini (eSignature) 23-Apr-13 (Date)

Matrices: soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):	21.2c/21.2c c/u	IR1	
Cooler(s)/Kit(s):	5147		
Date/Time sample(s) sent to storage:	4/23/13 10:45		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

☐ **ALS Laboratory Group**
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page ____ of ____

ALS Project Manager:

1304855

EXIDE TECHNOLOGIES: Exide Technologies

Project: Plant Drums

Customer Information		Project Information			
Purchase Order		Project Name		A	TCLP METALS PB+CD
Work Order	PLANT DRUMS	Project Number		B	HOLD REMAINDER
Company Name	RSI	Bill To Company	EXIDE TECHNOLOGIES	C	
Send Report To	GRANT SHERWOOD	Invoice Attn	VANESSA COLEMAN	D	
Address	P.O. BOX 587	Address	7471 S. 5TH ST.	E	
				F	
City/State/Zip	INDEPENDENCE KS 67301	City/State/Zip	FRISCO, TX 75034	G	
Phone	620.331.1200	Phone	972.335.2121	H	
Fax	620.331.6216	Fax		I	
e-Mail Address	GSHERWOOD@RSI-KS.COM	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	PLANT ID NO 01	4.19.13	15:30	SOIL	N/A	1	X	X									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Pg 10 of 11

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
JOHNNY GILLMAN		☐ Other ____ ☐ STD 10 Wk Days ☐ 5 Wk Days ☒ 2 Wk Days ☐ 24 Hour	4.25.13

Relinquished by:	Date:	Time:	Received by:	Notes:
JOHNNY GILLMAN	4.22.13	19:00	[signature] 4/23/13 0965	
Relinquished by:	Date:	Time:	Received by (Laboratory):	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp

QC Package: (Check One Box Below)
☒ Level II Std QC
☐ Level III Std QC/Raw Date
☐ Level IV SW846/CLP
☐ Other ____
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2008 by ALS Laboratory Group.

1504200

MUR 1

Form ID No. 0215

Recipient's Copy

FedEx Express Package US Airbill

FedEx Tracking Number 8013 8013 2712

04·22·13

r's JOHNNY GILLMAN Phone 620 252 9918

any RST

ess 7471 S 5TH ST.

Dept./Floor/Suite/Room

FRISCO State TX ZIP 75034

r Internal Billing Reference

ipient's ne CLIENT SERVICES Phone 281 530-5656

npany ALS LABORATORY GROUP

dress 10450 STANCLIFF RD STE 210

cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

dress

this line for the HOLD location address or for continuation of your shipping address.

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

ty HOUSTON State TX ZIP 77099-4338

0455550776

8013 8013 2712

4 Express Package Service

* To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- [x] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging

* Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain recip. Acct. No. [ ]

Total Packages ____ Total Weight ____ lbs. Credit Card Auth. ____

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

611

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ALS Environmental

25-Apr-2013

Vanessa Coleman
Exide Technologies
7471 South Fifth Street
Frisco, TX 75034

Tel: (972) 335-2121
Fax:

Re: Landfill Drums

Work Order: **1304857**

Dear Vanessa,

ALS Environmental received 1 sample on 23-Apr-2013 09:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Bernadette Fini

Electronically approved by: Jumoke M. Lawal

Bernadette A. Fini
Project Manager

NELAP ACCREDITED TNI LABORATORY

Certificate No: TX: T104704231-12-10

ALS Environmental

Date: 25-Apr-13

Client: Exide Technologies
Project: Landfill Drums
Work Order: **1304857**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1304857-01	LF IDW001	Soil		4/19/2013 15:54	4/23/2013 09:15	☐

ALS Environmental

Date: 25-Apr-13

Client: Exide Technologies
Project: Landfill Drums
Work Order: 1304857

Case Narrative

No Exceptions

ALS Environmental

Date: *25-Apr-13*

Client: Exide Technologies
Project: Landfill Drums
Sample ID: LF IDW001
Collection Date: 4/19/2013 03:54 PM

Work Order: 1304857
Lab ID: 1304857-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS		Method: **SW1311/6020**			Leachate: SW1311 / 4/24/13 Prep: SW3010A / 4/24/13		Analyst: **JCJ**
Cadmium	U		0.00800	0.0200	mg/L	10	4/25/2013 13:07
Lead	U		0.00700	0.0500	mg/L	10	4/25/2013 13:07
PH - SOIL - SW9045D		Method: **SW9045B**					Analyst: **TAL**
pH	**8.19**		**0.10**	**0.100**	**pH Units**	1	4/25/2013

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 25-Apr-13

Client: Exide Technologies

Work Order: 1304857

Project: Landfill Drums

QC BATCH REPORT

Batch ID: **69484** Instrument ID **ICPMS04** Method: **SW1311/6020**

MBLK Sample ID: **MBLKT1-042313-69484** Units: **mg/L** Analysis Date: **4/25/2013 01:32 AM**

Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193316** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	U	0.020								
Lead	U	0.050								

MBLK Sample ID: **MBLKW4-042413-69484** Units: **mg/L** Analysis Date: **4/25/2013 01:37 AM**

Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193317** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	U	0.020								
Lead	U	0.050								

LCS Sample ID: **MLCSW4-042413-69484** Units: **mg/L** Analysis Date: **4/25/2013 01:42 AM**

Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193318** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	0.4715	0.020	0.5	0	94.3	80-120	0			
Lead	0.4819	0.050	0.5	0	96.4	80-120	0			

MS Sample ID: **1304841-02BMS** Units: **mg/L** Analysis Date: **4/25/2013 02:32 AM**

Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193328** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	0.4838	0.020	0.5	0.006098	95.5	75-125	0			
Lead	0.6796	0.050	0.5	0.1909	97.7	75-125	0			

MSD Sample ID: **1304841-02BMSD** Units: **mg/L** Analysis Date: **4/25/2013 02:37 AM**

Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193329** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	0.4991	0.020	0.5	0.006098	98.6	75-125	0.4838	3.12	20	
Lead	0.7159	0.050	0.5	0.1909	105	75-125	0.6796	5.21	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Exide Technologies
Work Order: 1304857
Project: Landfill Drums

QC BATCH REPORT

Batch ID: **69484** Instrument ID **ICPMS04** Method: **SW1311/6020**

DUP Sample ID: **1304841-02BDUP** Units: **mg/L** Analysis Date: **4/25/2013 02:22 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193326** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	U	0.020	0	0	0	0-0	0.006098	0	25	
Lead	0.1905	0.050	0	0	0	0-0	0.1909	0.201	25	

The following samples were analyzed in this batch: 1304857-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Exide Technologies
Work Order: 1304857
Project: Landfill Drums

QC BATCH REPORT

Batch ID: **R146377** Instrument ID **WetChem** Method: **SW9045B** **(Dissolve)**

LCS Sample ID: **LCS-W1120425-R146377** Units: **pH Units** Analysis Date: **4/25/2013**
Client ID: Run ID: **WETCHEM_130425C** SeqNo: **3194296** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.01	0.10	6	0	100	90-110	0			

DUP Sample ID: **1304855-01ADUP** Units: **pH Units** Analysis Date: **4/25/2013**
Client ID: Run ID: **WETCHEM_130425C** SeqNo: **3194306** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.61	0.10	0	0	0	0-0	7.56	0.659	20	

The following samples were analyzed in this batch: 1304857-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 25-Apr-13

Client: Exide Technologies
Project: Landfill Drums
WorkOrder: **1304857**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/L	Milligrams per Liter
pH Units	

Semi-Volatiles / Metals Extraction Log

Logbook #28802

Analysts: Ca Batch ID 69469-69470 SOP # : TCLP-001 or SPLP-001

Vessel Number	Work Order Number	Sample weight, grams	% Solids	Vol. of Extract. Fluid, mls	pH Sx and H_2O	pH Sx HCl / H_2O	pH Ext. Fluid	Ext. Fluid ID.	pH After Tumble	Comments (TCLP or SPLP)
GV	MBLKT1042313	—	—	2000	—	—	4.94	7073407	—	TCLP
PV	1304778-01A	100.0	—	2000	9.51	2.26	4.91	7073408	6.48	
GV	1304785-01A	20.26	30.3%	205.2	8.83	1.89			8.37	
PV	1304831-01A	100.0	—	2000	9.12	1.81			5.02	
PV	1304834-01A	100.0	—	2000	9.78	1.97			4.99	
PV	1304841-02B	100.0	—	2000	7.51	1.75			5.54	
PV	1304855-01A	100.0	—	2000	8.81	1.99			5.36	
PV	1304870-08A	100.0	—	2000	5.78	1.83			5.53	
↓	-08AMS	↓	—	↓	5.78	1.83	↓	↓	5.53	
GV	MBLKT2042313	—	—	2000	—	—	2.93	7073406	—	
PV	1304856-01A	100.0	—	2000	9.25	5.82			5.94	
PV	1304857-01A	100.0	—	2000	9.28	5.98			6.05	
↓	-01AMS	↓	—	↓	9.28	5.98	↓	↓	6.05	
	1304828-01A								13.70	
	1304828-02A								13.66	
	1304828-03A								7.35	
	1304835-01A		5X filter on this			2nd			8.71	
	1304841-01D								6.57	
	-01DMS								6.57	

Pg 9 of 12

Balance ID: TCLP 03	pH Meter ID TCLP PH 1	Therm. ID: TCLP #1	1N HCl Tracking ID: 28607007
Date/Time In: 4:30pm 04/23/13	Date/Time Out: 2:30pm 04/24/13	Date/Time Filter/Initials: 9:40 am 04/24/13	Filter Lot# 4000.27
MIN Temp, °C: 3.2 °C	Room Temp Limits: 21-25 °C	TCLP Tumbler IDs: 3	Delivery Date/Time/Initials:
MAX Temp, °C: 3.3 °C	Rev Accept. Range: 56.5 - 64 sec	# sec / 30 Revolution: 60.5 04/23/13	

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Exide APAR Page 2632 of 2984

ALS Environmental

Sample Receipt Checklist

Client Name: **EXIDE TECHNOLOGIES** Date/Time Received: **23-Apr-13 09:15**

Work Order: **1304857** Received by: **JBA**

Checklist completed by Robert D. Harris (eSignature) 23-Apr-13 (Date) Reviewed by: Bernadette A. Fini (eSignature) 23-Apr-13 (Date)

Matrices: soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):	21.2c/21.2c c/u	IR1	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	4/23/13 10:55		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

ALS Environmental

Chain of Custody Form

Page ____ of ____

COC ID: 38724

☐ Cincinnati, OH +1 513 733 5336
☐ Everett, WA +1 425 356 2600
☐ Fort Collins, CO +1 970 490 1511

1304857

EXIDE TECHNOLOGIES: Exide Technologies

Project: Landfill Drums

ALS Project Manager:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	TCLP Metals Pb+Cd
Work Order	Landfill Drums	Project Number		B	Hold Remainder
Company Name	RST	Bill To Company	Exide Technologies	C	
Send Report To	Grant Sherwood	Invoice Attn.	Vanessa Coleman	D	
Address	P.O. Box 587	Address	7471 S. 5th St.	E	
				F	
City/State/Zip	Independence, KS 67301	City/State/Zip	Frisco, TX 75034	G	
Phone	620 331 1200	Phone	972 335 2121	H	
Fax	620 331 6216	Fax		I	
e-Mail Address	GSherwood@RSI-KS.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	LF IDW C01	4.19.13	15:54	Soil	N/A	1	X	X									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign: Johnny Gillman

Shipment Method:

Required Turnaround Time: ☐ STD 10 Wk Days ☐ 5 Wk Days ☒ 2 Wk Days ☐ 24 Hour ☐ Other ____

Results Due Date: 4.25.13

Relinquished by:	Date:	Time:	Received by:	Notes:
Johnny Gillman	4.22.13	19:00		
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

QC Package: (Check Box Below)

- ☒ Level II: Standard QC
- ☐ Level III: Std QC + Raw Data
- ☐ Level IV: SW846 CLP-Like
- ☐ Other: ____

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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MUR1

FedEx Express Package US Airbill

FedEx Tracking Number 8013 8013 2712

Form ID No. 0215

04·22·13

Sender's Name JOHNNY GILMAN Phone 620 252 9518

Company RST

Address 7471 S 5TH ST.

Dept/Floor/Suite/Room

City FISCH State TX ZIP 75034

Your Internal Billing Reference

Recipient's Name CLIENT SERVICES Phone 281 530-5656

Company ALS LABORATORY GROUP

Address 10450 STANCLIFF RD STE 210

Cannot deliver to P.O. boxes or P.O. ZIP codes. Dept/Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City HOUSTON State TX ZIP 77099-4338

0455550776

8013 8013 2712

HOLD Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4 Express Package Service * To most locations.
NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☒ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- ☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.
☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?
One box must be checked.

☒ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 _____ x _____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box. ☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☐ Sender Acct. No. in Section 1 will be billed. ☒ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

[redacted] 513

Total Packages _____ Total Weight _____ lbs. Credit Card Auth. _____

*Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

611

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21-May-2013

Vanessa Coleman
Exide Technologies
7471 South Fifth Street
Frisco, TX 75034

Tel: (972) 335-2121
Fax:

Re: Exide Decon/Demo 21252 Work Order: **1305642**

Dear Vanessa,

ALS Environmental received 7 samples on 02-Apr-2013 through 23-Apr-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 44.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Jumoke M. Lawal

Bernadette A. Fini
Project Manager

Certificate No: TX: T104704231-12-10

ALS Environmental

Date: 21-May-13

Client: Exide Technologies
Project: Exide Decon/Demo 21252
Work Order: **1305642**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1305642-01	Rock/Soil Stockpile	Solid		3/30/2013 13:15	4/2/2013 09:10	☐
1305642-02	Blast Feed Room Fibreglass	Solid		4/9/2013 13:20	4/10/2013 09:15	☐
1305642-03	Refining Office Floor	Solid		4/16/2013 14:25	4/17/2013 09:10	☐
1305642-04	Boneyard Sand/Gravel	Solid		4/16/2013 10:05	4/17/2013 09:10	☐
1305642-05	Plant IDW001	Solid		4/19/2013 15:30	4/23/2013 09:15	☐
1305642-06	VCP IDW001	Solid		4/20/2013 11:40	4/23/2013 09:15	☐
1305642-07	LF IDW001	Solid		4/19/2013 15:54	4/23/2013 09:15	☐

ALS Environmental

Date: 22-May-13

Client: Exide Technologies
Project: Exide Decon/Demo 21252
Work Order: 1305642

Case Narrative

Per client request on April 15, 2013, sample listed below were re-logged for TCLP Metals analysis originally logged in under the following work order numbers:

1304321-02 Rock/Soil Stockpile
1304374-02 Blast Feed Room Fiberglass
1304648-03 Refining Office Floor
1304648-04 Boneyard Sand/Gravel
1304855-01 Plant IDW
1304856-01 VCP IDW
1304857-01 LF IDW

The first four samples listed above were outside method holding time for TCLP Mercury and will be resampled and resubmitted for analysis.

Batch 69484, TCLP Metals Method 1311/6020, Sample 1304841-02: MS/MSD and DUP is for an unrelated sample.

ALS Environmental

Date: *21-May-13*

Client: Exide Technologies
Project: Exide Decon/Demo 21252
Sample ID: Plant IDW001
Collection Date: 4/19/2013 03:30 PM

Work Order: 1305642
Lab ID: 1305642-05
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY		Method: **SW7470**			Leachate: SW1311 / 4/24/13 Prep: SW7470 / 5/16/13		Analyst: **OFO**
Mercury	U		0.0000420	0.000200	mg/L	1	5/16/2013 15:46
TCLP METALS		Method: **SW1311/6020**			Leachate: SW1311 / 4/24/13 Prep: SW3010A / 4/24/13		Analyst: **JCJ**
Arsenic	U		0.0100	0.0500	mg/L	10	4/25/2013 02:47
Barium	**0.0919**		**0.00900**	**0.0500**	**mg/L**	10	4/25/2013 02:47
Chromium	U		0.0100	0.0500	mg/L	10	4/25/2013 02:47
Selenium	**0.0192**	J	**0.0100**	**0.0500**	**mg/L**	10	4/25/2013 02:47
Silver	U		0.00800	0.0500	mg/L	10	4/25/2013 02:47
TCLP MISCELLANEOUS METALS		Method: **SW1311/6020**			Leachate: SW1311 / 4/24/13 Prep: SW3010A / 4/24/13		Analyst: **JCJ**
Antimony	U		0.00800	0.0500	mg/L	10	4/25/2013 02:47
Beryllium	U		0.00700	0.0200	mg/L	10	4/25/2013 02:47
Nickel	**0.0791**		**0.0100**	**0.0500**	**mg/L**	10	4/25/2013 02:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Exide Technologies
Work Order: 1305642
Project: Exide Decon/Demo 21252

QC BATCH REPORT

Batch ID: **69484** Instrument ID **ICPMS04** Method: **SW1311/6020**

MSD Sample ID: **1304841-02BMSD** Units: **mg/L** Analysis Date: **4/25/2013 02:37 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193329** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.5464	0.050	0.5	0.07456	94.4	75-125	0.5654	3.42	20	
Barium	3.101	0.050	0.5	2.419	137	75-125	2.992	3.59	20	SO
Chromium	0.4916	0.050	0.5	0.03081	92.2	75-125	0.5002	1.72	20	
Selenium	0.5161	0.050	0.5	0.00619	102	75-125	0.5145	0.298	20	
Silver	0.4112	0.050	0.5	0.000102	82.2	75-125	0.4585	10.9	20	

MSD Sample ID: **1304841-02BMSD** Units: **mg/L** Analysis Date: **4/25/2013 02:37 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193368** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.4818	0.050	0.5	0.007323	94.9	75-125	0.4955	2.8	25	
Beryllium	0.642	0.020	0.5	0.001056	128	75-125	0.6457	0.579	25	S
Nickel	0.5006	0.050	0.5	0.02827	94.5	75-125	0.5025	0.379	25	

DUP Sample ID: **1304841-02BDUP** Units: **mg/L** Analysis Date: **4/25/2013 02:22 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193326** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.07531	0.050	0	0	0	0-0	0.07456	1	25	
Barium	2.481	0.050	0	0	0	0-0	2.419	2.55	25	
Chromium	0.03052	0.050	0	0	0	0-0	0.03081	0	25	J
Selenium	U	0.050	0	0	0	0-0	0.00619	0	25	
Silver	U	0.050	0	0	0	0-0	0.000102	0	25	

DUP Sample ID: **1304841-02BDUP** Units: **mg/L** Analysis Date: **4/25/2013 02:22 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193365** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.050	0	0	0	0-0	0.007323	0	25	
Beryllium	U	0.020	0	0	0	0-0	0.001056	0	25	
Nickel	0.03424	0.050	0	0	0	0-0	0.02827	0	25	J

The following samples were analyzed in this batch: 1305642-05A 1305642-06A 1305642-07A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Exide Technologies
Work Order: 1305642
Project: Exide Decon/Demo 21252

QC BATCH REPORT

Batch ID: **70046** Instrument ID **Mercury** Method: **SW7470**

MBLK Sample ID: **GBLKW2-051613-70046** Units: **mg/L** Analysis Date: **5/16/2013 03:18 PM**
Client ID: Run ID: **MERCURY_130516A** SeqNo: **3218419** Prep Date: **5/16/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

MBLK Sample ID: **GBLKT1-051513-70046** Units: **mg/L** Analysis Date: **5/16/2013 03:32 PM**
Client ID: Run ID: **MERCURY_130516A** SeqNo: **3218425** Prep Date: **5/16/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020	0	0	0	0-0	0			

LCS Sample ID: **GLCSW2-051613-70046** Units: **mg/L** Analysis Date: **5/16/2013 03:20 PM**
Client ID: Run ID: **MERCURY_130516A** SeqNo: **3218420** Prep Date: **5/16/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00528	0.00020	0.005	0	106	80-120	0			

MS Sample ID: **1305643-01AMS** Units: **mg/L** Analysis Date: **5/16/2013 03:28 PM**
Client ID: Run ID: **MERCURY_130516A** SeqNo: **3218423** Prep Date: **5/16/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00483	0.00020	0.005	0.000004	96.5	75-125	0			

MSD Sample ID: **1305643-01AMSD** Units: **mg/L** Analysis Date: **5/16/2013 03:30 PM**
Client ID: Run ID: **MERCURY_130516A** SeqNo: **3218424** Prep Date: **5/16/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00487	0.00020	0.005	0.000004	97.3	75-125	0.00483	0.825	20	

DUP Sample ID: **1305643-01ADUP** Units: **mg/L** Analysis Date: **5/16/2013 03:24 PM**
Client ID: Run ID: **MERCURY_130516A** SeqNo: **3218422** Prep Date: **5/16/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020	0	0	0	0-0	0.000004	0	20	

The following samples were analyzed in this batch:

1305642-01A	1305642-02A	1305642-03A
1305642-04A	1305642-05A	1305642-06A
1305642-07A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 21-May-13

Client: Exide Technologies
Project: Exide Decon/Demo 21252
WorkOrder: 1305642

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/L	Milligrams per Liter

ALS Environmental

Sample Receipt Checklist

Client Name: **CENTERPOINT ENERGY HOUST** Date/Time Received: **09-May-13 08:20**

Work Order: **1305374** Received by: **PS**

Checklist completed by Paresh M. Giga (eSignature) 09-May-13 (Date) Reviewed by: Kristin M Brown (eSignature) 10-May-13 (Date)

Matrices: Soil
Carrier name: ALS.HS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.6c/2.6c C/U	IR1	
Cooler(s)/Kit(s):	4566		
Date/Time sample(s) sent to storage:	5/9/13 10:55		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

ALS Environmental

Sample Receipt Checklist

Client Name: **EXIDE TECHNOLOGIES** Date/Time Received: **17-Apr-13 09:10**

Work Order: **1304648** Received by: **PMG**

Checklist completed by Paresh M. Giga (eSignature) 17-Apr-13 (Date) Reviewed by: Bernadette A. Fini (eSignature) 17-Apr-13 (Date)

Matrices: Soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):	21.7c/21.7c C/U	IR1	
Cooler(s)/Kit(s):	4740		
Date/Time sample(s) sent to storage:	4/17/13 10:19		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

ALS Environmental

Sample Receipt Checklist

Client Name: **EXIDE TECHNOLOGIES** Date/Time Received: **23-Apr-13 09:15**

Work Order: **1304855** Received by: **JBA**

Checklist completed by Robert D. Harris (eSignature) 23-Apr-13 (Date) Reviewed by: Bernadette A. Fini (eSignature) 23-Apr-13 (Date)

Matrices: soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):	21.2c/21.2c c/u	IR1	
Cooler(s)/Kit(s):	5147		
Date/Time sample(s) sent to storage:	4/23/13 10:45		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

ALS Environmental

Sample Receipt Checklist

Client Name: **EXIDE TECHNOLOGIES** Date/Time Received: **23-Apr-13 09:15**

Work Order: **1304856** Received by: **JBA**

Checklist completed by Robert D. Harris (eSignature) 23-Apr-13 (Date) Reviewed by: Bernadette A. Fini (eSignature) 23-Apr-13 (Date)

Matrices: soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):	21.2c/21.2c c/u	IR1	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	4/23/13 10:50		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

ALS Environmental

Sample Receipt Checklist

Client Name: **EXIDE TECHNOLOGIES** Date/Time Received: **23-Apr-13 09:15**

Work Order: **1304857** Received by: **JBA**

Checklist completed by Robert D. Harris 23-Apr-13 Reviewed by: Bernadette A. Fini 23-Apr-13
eSignature Date eSignature Date

Matrices: soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):	21.2c/21.2c c/u	IR1	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	4/23/13 10:55		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

ALS Environmental

Sample Receipt Checklist

Client Name: **EXIDE TECHNOLOGIES** Date/Time Received: **02-Apr-13 09:10**

Work Order: **1304051** Received by: **RDH**

Checklist completed by Johnnie B. Allen (eSignature) 02-Apr-13 (Date) Reviewed by: Bernadette A. Fini (eSignature) 22-May-13 (Date)

Matrices: soil/solid/sediment
Carrier name: FedEx Priority Overnight

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	21.2 C/uc	IR 1	
Cooler(s)/Kit(s):	4757		
Date/Time sample(s) sent to storage:	4/2/13 15:03		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

1305642

EXIDE TECHNOLOGIES: Exide Technologies

Project: Exide Decon/Demo 21252

ALS Environmental

Chain of Custody Form

Page ____ of ____

COC ID: 40910

☐ Cincinnati, +1 513 73
☐ Everett, WA +1 425 35
☐ Fort Collins +1 970 49

ALS Project Manager:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	21252	Project Name	Exide Technologies	A	TCLP Lead & Cadmium
Work Order		Project Number	21252	B	Total Lead & Cadmium
Company Name	RSI	Bill To Company	RSI	C	Hold Remaining Sample for Possible Add. Analysis
Send Report To	Normal Distribution	Invoice Attn.	Shelli Trotter	D	
Address		Address	PO Box 587	E	
				F	
City/State/Zip		City/State/Zip	Independence KS 67301	G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Refining Office Debris	3-30-13	13:05	Debris	N/A	1	X		X	3 Day TA							
2	Fire Building Composite	3-30-13	13:10	Soil	N/A	1		X	X	Normal TA							
3	Rock / Soil Stockpile	3-30-13	13:15	Rock/Soil	N/A	1		X	X	Normal TA							
4	Asphalt Stockpile	3-30-13	13:20	Asphalt	N/A	1		X	X	Normal TA							
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign

Shipment Method:

Required Turnaround Time: ☐ STD 10 Wk Days ☐ 5 Wk Days See Above ☐ 2 Wk Days ☐ 24 Hour ☐ Other ____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
Johnny Gillman	4-3-12	8:45		
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp:
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

QC Package: (Check Box Below)
- Level II: Standard QC
- Level III: Std QC + Raw Data
- Level IV: SW846 CLP-Like
- Other: ____

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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Chain of Custody

ALS

1. [X] REGULAR Status

[ ] RUSH Status Requested - ADDITIONAL CHARGE
RESULTS REQUIRED BY _____ DATE
CONTACT ALS SALT LAKE PRIOR TO SENDING SAMPLES

2. Date 3-30-13 Purchase Order No. 21252

3. Company Name Remediation Services, inc.
Address PO Box 587
Independence, KS 67301
Person to Contact: Grant Sherwood
Telephone (620) 331-1200
Fax Telephone (620) 331-6216
E-mail Address gsherwood@rsi-ks.com
Billing Address (if different from above)

4. Quote No.
ALS Project Manager Paul Pope

5. Sample Collection
Sampling Site: Exide Frisco
Industrial Process: Decontamination and Demo
Date of Collection 3-30-13
Time Collected 13:15
Date of Shipment 3-30-13

Send Results to: gsherwood@rsi-ks.com, jrgillman@rsi-ks.com, vanessa.coleman@na.exide.com, droth@rsi-ks.com

Send Invoice to : strotter@rsi-ks.com

7. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
	Refining Office Debris	Debris	8 oz	NIOSH 7303 - Lead and Cadmium	
	Fire Building Composite	Soil	8 oz	NIOSH 7303 - Lead and Cadmium	
	Rock/Soil Stockpile	Soil/Rock	8 oz	NIOSH 7303 - Lead and Cadmium	
	Asphalt Stockpile	Asphalt	8 oz	NIOSH 7303 - Lead and Cadmium	

EX-DEMO = Project (Exide-Demolition)
YYMMDD = Sampling date (e.g., 11/01/2012 = 121101)
LOC = Sample Location (e.g. UW = Upwind, DW = Downwind)
XXX = E-BAM Monitor Sample Association – Last 3 digits of Serial Number,
QQ = Optional QA sample flag (TB = trip blank, FB = field blank, SC = duplicate)

Comments Rock/Soil and Asphalt stockpiles located North of Oxide building

Hold all samples for possible additional samples

Possible Contamination and/or Chemical Hazards: Lead and cadmium

7. Chain of Custody (Optional)

Relinquished by Johnny Gillman Date/Time 03.30.13 18:0

Received by _____ Date/Time _____

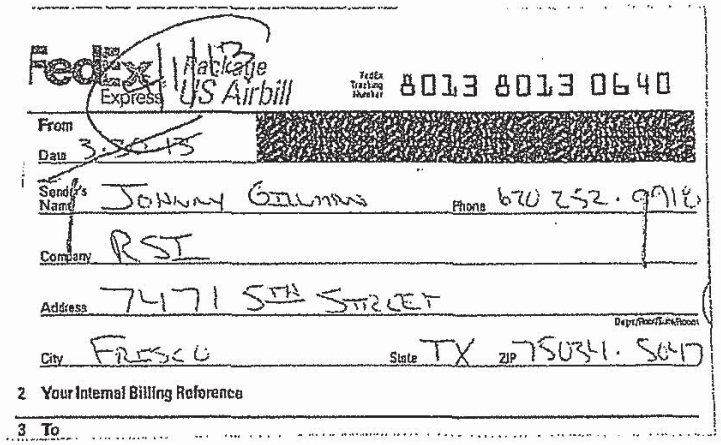
Relinquished by _____ Date/Time _____

Received by _____ Date/Time 4/2/13 09

960 West LeVoy Drive / Salt Lake City, UT 84123 800-356-9135 or 801-266-7700 / FAX: 801-26

ALS Laboratory Group

EXIDE TECHNOLOGIES: Exide Technologies
Project: Exide Decon/Demo 21252
1304321



FedEx Express | Package US Airbill | FedEx Tracking Number 8013 8013 0640

From

Date 3.30.13

Sender's Name JOHNNY GILLMAN Phone 620 252 . 9918

Company RSI

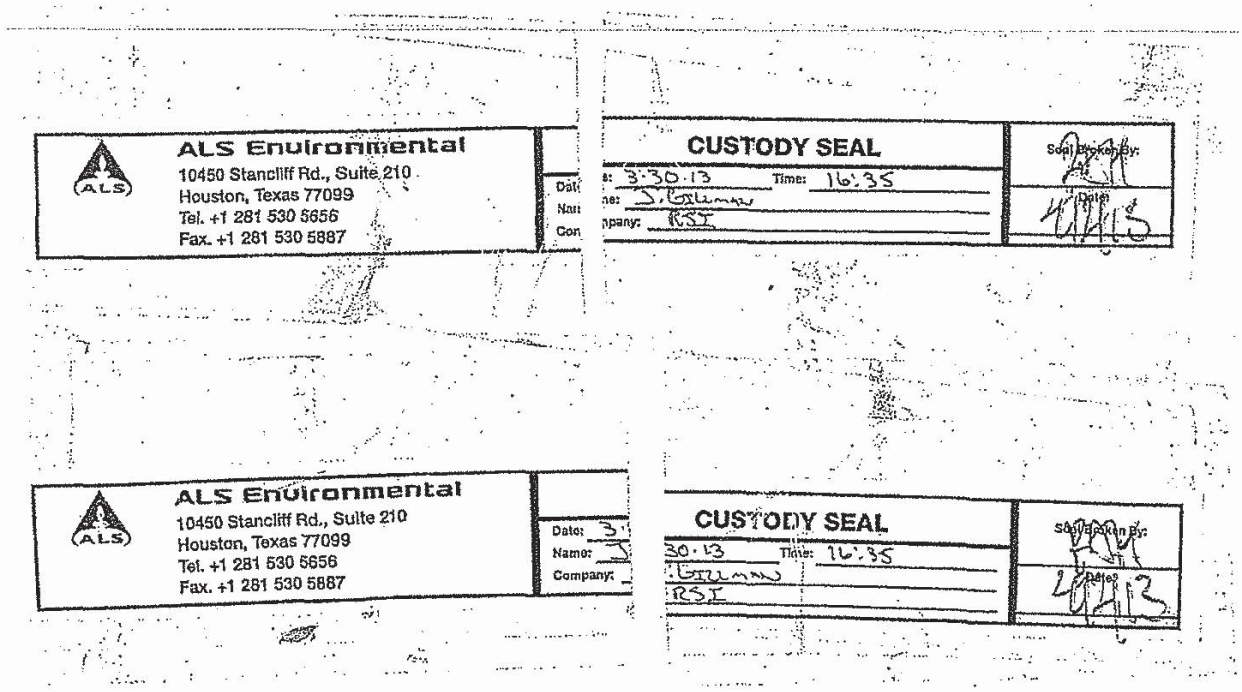
Address 7471 5TH STREET

Dept/Floor/Suite/Room

City FRISCO State TX ZIP 75034 . 5617

2 Your Internal Billing Reference

3 To



ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Date:
Name:
Company:

CUSTODY SEAL

Date: 3.30.13 Time: 16:35
Name: J. Gillman
Company: RSI

Seal Broken By:
Date: 4/4/13

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Date: 3
Name:
Company:

CUSTODY SEAL

30.13 Time: 16:35
GILLMAN
RSI

Seal Broken By:
Date: 4/4/13

ALS Environmental

Chain of Custody Form

Page ____ of ____

COC ID: 38719

1304374

EXIDE TECHNOLOGIES: Exide Technologies

Project: Exide 20252

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	20267	Project Name	Exide	A	TCLP Lead & Cadmium
Work Order		Project Number	20252	B	Rush T.A.
Company Name	RSI / Exide	Bill To Company	RSI	C	Normal T.A.
Send Report To	Norma	Invoice Attn.	Shelli Trotter	D	
Address		Address		E	
				F	
City/State/Zip	Independence KS	City/State/Zip		G	
Phone	620-331-1200	Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Slag Treatment Building FG	4-9-13	12:42	Sld	NA	1	X	X									
2	Glass Feed Room Fiberglass	4-9-13	1:20	Sld	NA	1	X		X								
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign

Shipment Method:

Required Turnaround Time: Asap ☐ Other ____
☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
	4-9-13	2:05	Fed Ex	
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp:
	4/10/13	09:15	RW ALS	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

QC Package: (Check Box Below)
- ☐ Level II: Standard QC
- ☐ Level III: Std QC + Raw Data
- ☐ Level IV: SW846 CLP-Like
- ☐ Other: ____

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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Exide APAR Page 2652 of 2984

☐ **ALS Laboratory Group**
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page ____ of ____

ALS Project Manager:

1304855

EXIDE TECHNOLOGIES: Exide Technologies

Project: Plant Drums

Customer Information		Project Information			
Purchase Order		Project Name		A	TCLP METALS PB+CD
Work Order	PLANT DRUMS	Project Number		B	HOLD REMAINDER
Company Name	RSI	Bill To Company	EXIDE TECHNOLOGIES	C	
Send Report To	GRANT SHERWOOD	Invoice Attn	VANESSA COLEMAN	D	
Address	P.O. BOX 587	Address	7471 S. 5TH ST.	E	
				F	
City/State/Zip	INDEPENDENCE KS 67361	City/State/Zip	FRISCO, TX 75034	G	
Phone	620.331.1200	Phone	972.335.2121	H	
Fax	620.331.6216	Fax		I	
e-Mail Address	GSHERWOOD@RSI-KS.COM	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	PLANT ID N001	4.19.13	15:30	SOIL	N/A	1	X	X									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: JOHNNY GILLMAN

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ____ ☐ STD 10 Wk Days ☐ 5 Wk Days ☒ 2 Wk Days ☐ 24 Hour

Results Due Date: 4.25.13

Relinquished by:	Date:	Time:	Received by:	Notes:
JOHNNY GILLMAN	4.22.13	19:00	[signature] 4/27/13 096	
Relinquished by:	Date:	Time:	Received by (Laboratory):	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp

QC Package: (Check One Box Below)
☒ Level II Std QC
☐ Level III Std QC/Raw Date
☐ Level IV SW846/CLP
☐ Other ____
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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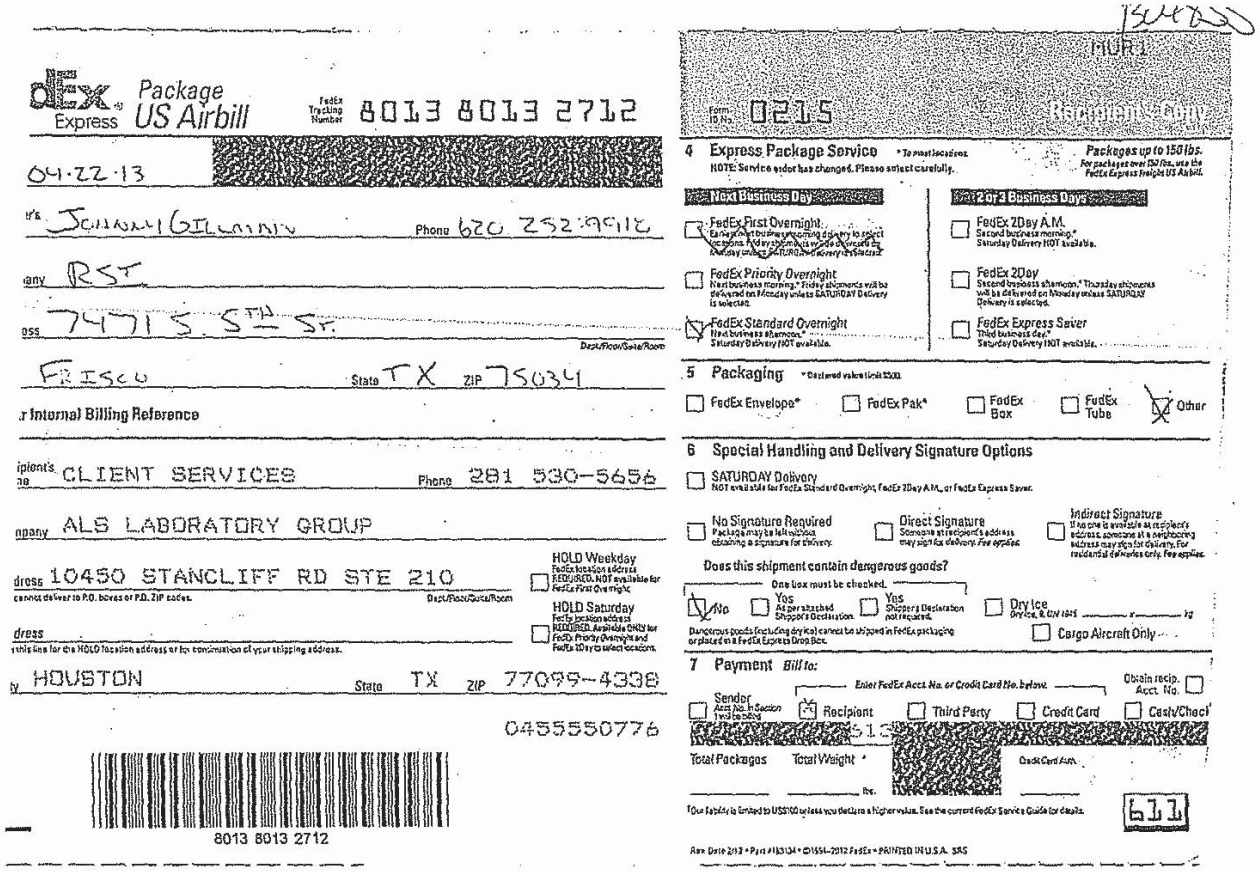

FedEx Express Package US Airbill

FedEx Tracking Number 8013 8013 2712

04·22·13

[redacted]

r's JOHNNY GILLMAN Phone 620 252 9912

any RST

ess 74715 5TH ST.

Dept/Floor/Suite/Room

FRISCO State TX ZIP 75034

r Internal Billing Reference

ipient's ne CLIENT SERVICES Phone 281 530-5656

npany ALS LABORATORY GROUP

dress 10450 STANCLIFF RD STE 210

cannot deliver to P.O. boxes or P.O. ZIP codes. Dept/Floor/Suite/Room

dress

this line for the HOLD location address or for continuation of your shipping address.

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

y HOUSTON State TX ZIP 77099-4338

0455550776

8013 8013 2712

MUR 1

Form ID No. 0215

Recipient's Copy

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain recip. Acct. No. [ ]

[redacted]

Total Packages ____ Total Weight * ____ lbs. [redacted] Credit Card Auth. ____

*Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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Chain of Custody Form

ALS Environmental

Page 1 of 1

COC ID: 41301

1304648

EXIDE TECHNOLOGIES: Exide Technologies

Project: Decon Demo 21252

ALS Project Manager:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	21252	Project Name	Decon Demo	A	TCLP Lead and Cadmium
Work Order		Project Number	21252	B	Hold
Company Name	Exide Technologies	Bill To Company	RSE	C	
Send Report To	Vanessa Colenay	Invoice Attn:	Shelli Trotter	D	
Address	7471 S. Fifth St.	Address	PO Box 587	E	
				F	
City/State/Zip	Frisco TX	City/State/Zip	Independence KS 67301	G	
Phone	972-335-2121	Phone	620-331-1200	H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Battery Breaker MCC Room	4-16-13	2:43		NA	1	X	X									
2	Refining Control Room	4-16-13	2:35			1	X	X									
3	Refining office Floor	4-16-13	2:25			1	X	X									
4	Boneyard Sand / Gravel	4-16-13	10:05			1	X	X									
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign: Bryan Mecom

Shipment Method: Fed Ex

Required Turnaround Time: ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
Bryan Mecom	4/16/13	1458		Concrete Blocks from Buildings demolished above.
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp:
	4-16-13	15:05	4.17.13. 0910.	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

QC Package: (Check Box Below)

- ☐ Level II: Standard QC
- ☐ Level III: Std QC + Raw Data
- ☐ Level IV: SW846 CLP-Like
- ☐ Other: _____

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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#4740.

Exide APAR Page 2655 of 2984

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

4740.

CUSTODY SEAL

Date: 4-16-13 Time: 15:05
Name: Grant Sherwood
Company: RST

Seal Broken By:
Date: 4-17-13

...this portion can be removed for recipient's records.

...e 4-16-13 FedEx Tracking Number 801056311577

...der's ...ne Grant Sherwood Phone 620 331-1200

Company RST

Address 2735 S. 10th Street Dept/Floor/Suite/Room

Independence State KS ZIP 67301

...r Internal Billing Reference 21252

Chain of Custody Form

ALS Environmental

Page ____ of ____

COC ID: 41093

☐ Cincinnati, OH +1 [redacted]336
☐ Everett, WA +1 4[redacted]2600
☐ Fort Collins, CO +1 970 490 1511

1304856

EXIDE TECHNOLOGIES: Exide Technologies

Project: VCP Drums

ALS Project Manager:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	[redacted]	Project Name		A	TCLP METALS PB + CD
Work Order	VCP DRUMS	Project Number		B	HOLD REMAINDER
Company Name	RSI	Bill To Company	EXIDE TECHNOLOGIES	C	
Send Report To	GRANT SHERWOOD	Invoice Attn.	VANESSA CULEMAN	D	
Address	P.O. 587	Address	7471 S. 5TH ST.	E	
				F	
City/State/Zip	INDEPENDENCE, KS 67301	City/State/Zip	FRISCO, TX 75034	G	
Phone	620·331·1200	Phone	972·335·2121	H	
Fax	620·331·6216	Fax		I	
e-Mail Address	GSHERWOOD@RSI-KS.COM	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	VCP IDW 001	4·20·13	11:40	SOIL	N/A	1	X	X									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign: JENNA GILLMAN

Shipment Method:

Required Turnaround Time: ☐ STD 10 Wk Days ☐ 5 Wk Days ☒ 2 Wk Days ☐ 24 Hour ☐ Other ____

Results Due Date: 4·25·13

Relinquished by:	Date:	Time:	Received by:	Notes:
J. GILLMAN	4·22·13	19:00	[signature] 4/23/13 0915	
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

QC Package: (Check Box Below)

- X Level II: Standard QC
- ☐ Level III: Std QC + Raw Data
- ☐ Level IV: SW846 CLP-Like
- ☐ Other: ____

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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1304856

MUR1

FedEx Express Package US Airbill

FedEx Tracking Number 8013 8013 2712

Form ID No. 0215

From

Date 04.22.13 [redacted]

Sender's Name JOHNNY GILLMAN Phone 620 252-9912

Company RSI

Address 74715 5TH ST. Dept./Floor/Suite/Room

City FRISCO State TX ZIP 75034

2 Your Internal Billing Reference

3 To

Recipient's Name CLIENT SERVICES Phone 281 530-5656

Company ALS LABORATORY GROUP

Address 10450 STANCLIFF RD STE 210 Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City HOUSTON State TX ZIP 77099-4338

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0455550776

8013 8013 2712

4 Express Package Service *To most locations. NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging *Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip. Acct. No. [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

[redacted]

Total Packages ____ Total Weight ____ lbs. [redacted] Credit Card Auth. ____

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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Chain of Custody Form

ALS Environmental

Page ____ of ____

COC ID: 38724

- ☐ Cincinnati, OH +1 513 733 5336
- ☐ Everett, WA +1 425 356 2600
- ☐ Fort Collins, CO +1 970 490 1511

1304857

EXIDE TECHNOLOGIES: Exide Technologies

Project: Landfill Drums

ALS Project Manager:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	TCLP METALS PB+CD
Work Order	LANDFILL DRUMS	Project Number		B	HOLD REMAINDER
Company Name	RSI	Bill To Company	EXIDE TECHNOLOGIES	C	
Send Report To	GRANT SHERWOOD	Invoice Attn:	VANESSA COLEMAN	D	
Address	P.O. BOX 587	Address	7471 S. 5TH ST.	E	
				F	
City/State/Zip	INDEPENDENCE, KS 67301	City/State/Zip	FRISCO, TX 75034	G	
Phone	620 331 1200	Phone	972 335 2121	H	
Fax	620 331 6716	Fax		I	
e-Mail Address	GSHERWOOD@RSIEK.COM	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	LF IDW CO1	4.19.13	15:54	SOIL	N/A	1	X	X									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign: JOHNNY GILLMAN

Shipment Method:

Required Turnaround Time: ☐ STD 10 Wk Days ☐ 5 Wk Days ☒ 2 Wk Days ☐ 24 Hour ☐ Other ____

Results Due Date: 4.25.13

Relinquished by:	Date:	Time:	Received by:	Notes:
JOHNNY GILLMAN	4.22.13	19:00		
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp:
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

QC Package: (Check Box Below)

- X Level II: Standard QC
- ☐ Level III: Std QC + Raw Data
- ☐ Level IV: SW846 CLP-Like
- ☐ Other: ____

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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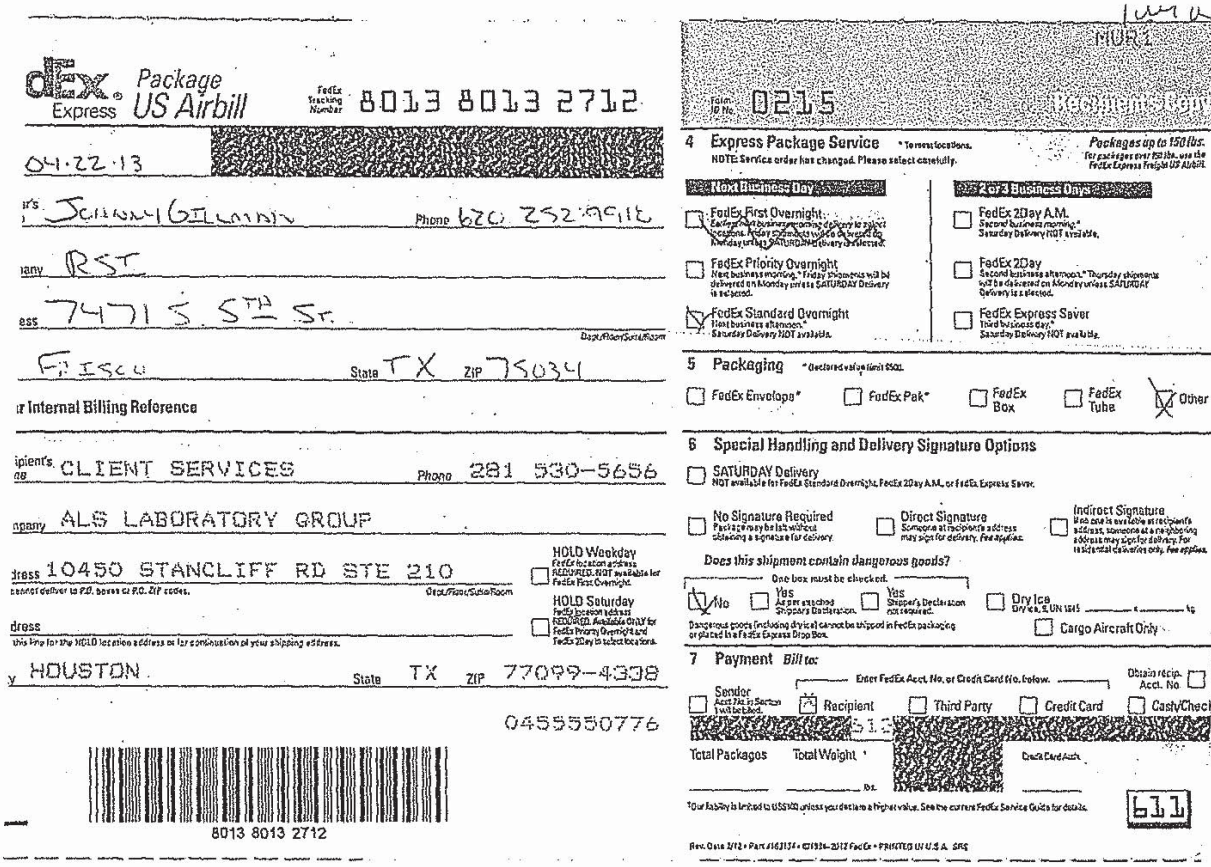

dEx Express Package US Airbill

FedEx Tracking Number 8013 8013 2712

04·22·13

r's JOHNNY GILLMAN Phone 620 252 9916

any RST

ess 7471 S 5TH ST. Dept./Floor/Suite/Room

FRISCO State TX ZIP 75034

r Internal Billing Reference

ipient's ne CLIENT SERVICES Phone 281 530-5656

npany ALS LABORATORY GROUP

dress 10450 STANCLIFF RD STE 210 Dept./Floor/Suite/Room

cannot deliver to P.O. boxes or P.O. ZIP codes.

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

dress

this line for the HOLD location address or for continuation of your shipping address.

y HOUSTON State TX ZIP 77099-4338

0455550776

8013 8013 2712

MUR1

Form ID No. 0215 Recipient's Copy

4 Express Package Service * Terms: locations. NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages ____ Total Weight* ____ lbs. Credit Card Auth. ____

*Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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21-May-2013

Vanessa Coleman
Exide Technologies
7471 South Fifth Street
Frisco, TX 75034

Tel: (972) 335-2121
Fax:

Re: Exide Decon/Demo 21252 Work Order: **1305642**

Dear Vanessa,

ALS Environmental received 7 samples on 02-Apr-2013 through 23-Apr-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 44.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Jumoke M. Lawal

Bernadette A. Fini
Project Manager

Certificate No: TX: T104704231-12-10

ALS Environmental

Date: 21-May-13

Client: Exide Technologies
Project: Exide Decon/Demo 21252
Work Order: **1305642**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1305642-01	Rock/Soil Stockpile	Solid		3/30/2013 13:15	4/2/2013 09:10	☐
1305642-02	Blast Feed Room Fibreglass	Solid		4/9/2013 13:20	4/10/2013 09:15	☐
1305642-03	Refining Office Floor	Solid		4/16/2013 14:25	4/17/2013 09:10	☐
1305642-04	Boneyard Sand/Gravel	Solid		4/16/2013 10:05	4/17/2013 09:10	☐
1305642-05	Plant IDW001	Solid		4/19/2013 15:30	4/23/2013 09:15	☐
1305642-06	VCP IDW001	Solid		4/20/2013 11:40	4/23/2013 09:15	☐
1305642-07	LF IDW001	Solid		4/19/2013 15:54	4/23/2013 09:15	☐

ALS Environmental

Date: 22-May-13

Client: Exide Technologies
Project: Exide Decon/Demo 21252
Work Order: 1305642

Case Narrative

Per client request on April 15, 2013, sample listed below were re-logged for TCLP Metals analysis originally logged in under the following work order numbers:

1304321-02 Rock/Soil Stockpile
1304374-02 Blast Feed Room Fiberglass
1304648-03 Refining Office Floor
1304648-04 Boneyard Sand/Gravel
1304855-01 Plant IDW
1304856-01 VCP IDW
1304857-01 LF IDW

The first four samples listed above were outside method holding time for TCLP Mercury and will be resampled and resubmitted for analysis.

Batch 69484, TCLP Metals Method 1311/6020, Sample 1304841-02: MS/MSD and DUP is for an unrelated sample.

ALS Environmental

Date: *21-May-13*

Client: Exide Technologies
Project: Exide Decon/Demo 21252
Sample ID: LF IDW001
Collection Date: 4/19/2013 03:54 PM

Work Order: 1305642
Lab ID: 1305642-07
Matrix: SOLID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY		Method: **SW7470**			Leachate: SW1311 / 4/24/13 Prep: SW7470 / 5/16/13		Analyst: **OFO**
Mercury	U		0.0000420	0.000200	mg/L	1	5/16/2013 15:50
TCLP METALS		Method: **SW1311/6020**			Leachate: SW1311 / 4/24/13 Prep: SW3010A / 4/24/13		Analyst: **KCC**
Arsenic	U		0.0100	0.0500	mg/L	10	5/15/2013 14:50
Barium	**0.646**		**0.00900**	**0.0500**	**mg/L**	10	5/15/2013 14:50
Chromium	U		0.0100	0.0500	mg/L	10	5/15/2013 14:50
Selenium	U		0.0100	0.0500	mg/L	10	5/15/2013 14:50
Silver	U		0.00800	0.0500	mg/L	10	5/15/2013 14:50
TCLP MISCELLANEOUS METALS		Method: **SW1311/6020**			Leachate: SW1311 / 4/24/13 Prep: SW3010A / 4/24/13		Analyst: **KCC**
Antimony	U		0.00800	0.0500	mg/L	10	5/15/2013 14:50
Beryllium	U		0.00700	0.0200	mg/L	10	5/15/2013 14:50
Nickel	**0.0358**	J	**0.0100**	**0.0500**	**mg/L**	10	5/15/2013 14:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Exide Technologies
Work Order: 1305642
Project: Exide Decon/Demo 21252

QC BATCH REPORT

Batch ID: **69484** Instrument ID **ICPMS04** Method: **SW1311/6020**

MBLK Sample ID: **MBLKT1-042313-69484** Units: **mg/L** Analysis Date: **4/25/2013 01:32 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193316** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.050								
Barium	0.01202	0.050								J
Chromium	U	0.050								
Selenium	0.01086	0.050								J
Silver	U	0.050								

MBLK Sample ID: **MBLKW4-042413-69484** Units: **mg/L** Analysis Date: **4/25/2013 01:37 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193317** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.050								
Barium	U	0.050								
Chromium	U	0.050								
Selenium	U	0.050								
Silver	U	0.050								

MBLK Sample ID: **MBLKT1-042313-69484** Units: **mg/L** Analysis Date: **4/25/2013 01:32 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193355** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.050								
Beryllium	U	0.020								
Nickel	0.0241	0.050								J

MBLK Sample ID: **MBLKW4-042413-69484** Units: **mg/L** Analysis Date: **4/25/2013 01:37 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193356** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.050								
Beryllium	U	0.020								
Nickel	0.02238	0.050								J

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Exide Technologies
Work Order: 1305642
Project: Exide Decon/Demo 21252

QC BATCH REPORT

Batch ID: **69484** Instrument ID **ICPMS04** Method: **SW1311/6020**

LCS Sample ID: **MLCSW4-042413-69484** Units: **mg/L** Analysis Date: **4/25/2013 01:42 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193318** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.4809	0.050	0.5	0	96.2	80-120	0			
Barium	0.4902	0.050	0.5	0	98	80-120	0			
Chromium	0.4942	0.050	0.5	0	98.8	80-120	0			
Selenium	0.4913	0.050	0.5	0	98.3	80-120	0			
Silver	0.5283	0.050	0.5	0	106	80-120	0			

LCS Sample ID: **MLCSW4-042413-69484** Units: **mg/L** Analysis Date: **4/25/2013 01:42 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193357** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.4984	0.050	0.5	0	99.7	80-120	0			
Beryllium	0.4452	0.020	0.5	0	89	80-120	0			
Nickel	0.5137	0.050	0.5	0	103	80-120	0			

MS Sample ID: **1304841-02BMS** Units: **mg/L** Analysis Date: **4/25/2013 02:32 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193328** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.5654	0.050	0.5	0.07456	98.2	75-125	0			
Barium	2.992	0.050	0.5	2.419	115	75-125	0			O
Chromium	0.5002	0.050	0.5	0.03081	93.9	75-125	0			
Selenium	0.5145	0.050	0.5	0.00619	102	75-125	0			
Silver	0.4585	0.050	0.5	0.000102	91.7	75-125	0			

MS Sample ID: **1304841-02BMS** Units: **mg/L** Analysis Date: **4/25/2013 02:32 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193367** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.4955	0.050	0.5	0.007323	97.6	75-125	0			
Beryllium	0.6457	0.020	0.5	0.001056	129	75-125	0			S
Nickel	0.5025	0.050	0.5	0.02827	94.8	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Exide Technologies
Work Order: 1305642
Project: Exide Decon/Demo 21252

QC BATCH REPORT

Batch ID: **69484** Instrument ID **ICPMS04** Method: **SW1311/6020**

MSD Sample ID: **1304841-02BMSD** Units: **mg/L** Analysis Date: **4/25/2013 02:37 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193329** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.5464	0.050	0.5	0.07456	94.4	75-125	0.5654	3.42	20	
Barium	3.101	0.050	0.5	2.419	137	75-125	2.992	3.59	20	SO
Chromium	0.4916	0.050	0.5	0.03081	92.2	75-125	0.5002	1.72	20	
Selenium	0.5161	0.050	0.5	0.00619	102	75-125	0.5145	0.298	20	
Silver	0.4112	0.050	0.5	0.000102	82.2	75-125	0.4585	10.9	20	

MSD Sample ID: **1304841-02BMSD** Units: **mg/L** Analysis Date: **4/25/2013 02:37 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193368** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.4818	0.050	0.5	0.007323	94.9	75-125	0.4955	2.8	25	
Beryllium	0.642	0.020	0.5	0.001056	128	75-125	0.6457	0.579	25	S
Nickel	0.5006	0.050	0.5	0.02827	94.5	75-125	0.5025	0.379	25	

DUP Sample ID: **1304841-02BDUP** Units: **mg/L** Analysis Date: **4/25/2013 02:22 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193326** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.07531	0.050	0	0	0	0-0	0.07456	1	25	
Barium	2.481	0.050	0	0	0	0-0	2.419	2.55	25	
Chromium	0.03052	0.050	0	0	0	0-0	0.03081	0	25	J
Selenium	U	0.050	0	0	0	0-0	0.00619	0	25	
Silver	U	0.050	0	0	0	0-0	0.000102	0	25	

DUP Sample ID: **1304841-02BDUP** Units: **mg/L** Analysis Date: **4/25/2013 02:22 AM**
Client ID: Run ID: **ICPMS04_130424A** SeqNo: **3193365** Prep Date: **4/24/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.050	0	0	0	0-0	0.007323	0	25	
Beryllium	U	0.020	0	0	0	0-0	0.001056	0	25	
Nickel	0.03424	0.050	0	0	0	0-0	0.02827	0	25	J

The following samples were analyzed in this batch: 1305642-05A 1305642-06A 1305642-07A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Exide Technologies
Work Order: 1305642
Project: Exide Decon/Demo 21252

QC BATCH REPORT

Batch ID: **70046** Instrument ID **Mercury** Method: **SW7470**

MBLK Sample ID: **GBLKW2-051613-70046** Units: **mg/L** Analysis Date: **5/16/2013 03:18 PM**
Client ID: Run ID: **MERCURY_130516A** SeqNo: **3218419** Prep Date: **5/16/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

MBLK Sample ID: **GBLKT1-051513-70046** Units: **mg/L** Analysis Date: **5/16/2013 03:32 PM**
Client ID: Run ID: **MERCURY_130516A** SeqNo: **3218425** Prep Date: **5/16/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020	0	0	0	0-0	0			

LCS Sample ID: **GLCSW2-051613-70046** Units: **mg/L** Analysis Date: **5/16/2013 03:20 PM**
Client ID: Run ID: **MERCURY_130516A** SeqNo: **3218420** Prep Date: **5/16/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00528	0.00020	0.005	0	106	80-120	0			

MS Sample ID: **1305643-01AMS** Units: **mg/L** Analysis Date: **5/16/2013 03:28 PM**
Client ID: Run ID: **MERCURY_130516A** SeqNo: **3218423** Prep Date: **5/16/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00483	0.00020	0.005	0.000004	96.5	75-125	0			

MSD Sample ID: **1305643-01AMSD** Units: **mg/L** Analysis Date: **5/16/2013 03:30 PM**
Client ID: Run ID: **MERCURY_130516A** SeqNo: **3218424** Prep Date: **5/16/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00487	0.00020	0.005	0.000004	97.3	75-125	0.00483	0.825	20	

DUP Sample ID: **1305643-01ADUP** Units: **mg/L** Analysis Date: **5/16/2013 03:24 PM**
Client ID: Run ID: **MERCURY_130516A** SeqNo: **3218422** Prep Date: **5/16/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020	0	0	0	0-0	0.000004	0	20	

The following samples were analyzed in this batch:

1305642-01A	1305642-02A	1305642-03A
1305642-04A	1305642-05A	1305642-06A
1305642-07A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 21-May-13

Client: Exide Technologies
Project: Exide Decon/Demo 21252
WorkOrder: 1305642

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/L	Milligrams per Liter

ALS Environmental

Sample Receipt Checklist

Client Name: **CENTERPOINT ENERGY HOUST** Date/Time Received: **09-May-13 08:20**

Work Order: **1305374** Received by: **PS**

Checklist completed by Paresh M. Giga (eSignature) 09-May-13 (Date) Reviewed by: Kristin M Brown (eSignature) 10-May-13 (Date)

Matrices: Soil
Carrier name: ALS.HS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.6c/2.6c C/U	IR1	
Cooler(s)/Kit(s):	4566		
Date/Time sample(s) sent to storage:	5/9/13 10:55		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

ALS Environmental

Sample Receipt Checklist

Client Name: **EXIDE TECHNOLOGIES** Date/Time Received: **17-Apr-13 09:10**

Work Order: **1304648** Received by: **PMG**

Checklist completed by Paresh M. Giga (eSignature) 17-Apr-13 (Date) Reviewed by: Bernadette A. Fini (eSignature) 17-Apr-13 (Date)

Matrices: Soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):	21.7c/21.7c C/U	IR1	
Cooler(s)/Kit(s):	4740		
Date/Time sample(s) sent to storage:	4/17/13 10:19		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

ALS Environmental

Sample Receipt Checklist

Client Name: **EXIDE TECHNOLOGIES** Date/Time Received: **23-Apr-13 09:15**

Work Order: **1304855** Received by: **JBA**

Checklist completed by Robert D. Harris 23-Apr-13 Reviewed by: Bernadette A. Fini 23-Apr-13
eSignature Date eSignature Date

Matrices: soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):	21.2c/21.2c c/u	IR1	
Cooler(s)/Kit(s):	5147		
Date/Time sample(s) sent to storage:	4/23/13 10:45		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

ALS Environmental

Sample Receipt Checklist

Client Name: **EXIDE TECHNOLOGIES** Date/Time Received: **23-Apr-13 09:15**

Work Order: **1304856** Received by: **JBA**

Checklist completed by Robert D. Harris 23-Apr-13 Reviewed by: Bernadette A. Fini 23-Apr-13
eSignature Date eSignature Date

Matrices: soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):	21.2c/21.2c c/u	IR1	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	4/23/13 10:50		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

ALS Environmental

Sample Receipt Checklist

Client Name: **EXIDE TECHNOLOGIES** Date/Time Received: **23-Apr-13 09:15**

Work Order: **1304857** Received by: **JBA**

Checklist completed by Robert D. Harris (eSignature) 23-Apr-13 (Date) Reviewed by: Bernadette A. Fini (eSignature) 23-Apr-13 (Date)

Matrices: soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):	21.2c/21.2c c/u	IR1	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	4/23/13 10:55		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

ALS Environmental

Sample Receipt Checklist

Client Name: **EXIDE TECHNOLOGIES** Date/Time Received: **02-Apr-13 09:10**

Work Order: **1304051** Received by: **RDH**

Checklist completed by Johnnie B. Allen 02-Apr-13 Reviewed by: Bernadette A. Fini 22-May-13
eSignature Date eSignature Date

Matrices: soil/solid/sediment
Carrier name: FedEx Priority Overnight

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	21.2 C/uc	IR 1	
Cooler(s)/Kit(s):	4757		
Date/Time sample(s) sent to storage:	4/2/13 15:03		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

1305642

EXIDE TECHNOLOGIES: Exide Technologies

Project: Exide Decon/Demo 21252

ALS Environmental

Chain of Custody Form

Page ____ of ____

COC ID: 40910

☐ Cincinnati, +1 513 73
☐ Everett, WA +1 425 35
☐ Fort Collins +1 970 49

ALS Project Manager:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	21252	Project Name	Exide Technologies	A	TCLP Lead & Cadmium
Work Order		Project Number	21252	B	Total Lead & Cadmium
Company Name	RSI	Bill To Company	RSI	C	Hold Remaining Sample for Possible Add. Analysis
Send Report To	Normal Distribution	Invoice Attn.	Shelli Trotter	D	
Address		Address	PO Box 587	E	
				F	
City/State/Zip		City/State/Zip	Independence KS 67301	G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Refining Office Debris	3-30-13	13:05	Debris	N/A	1	X		X	3 Day TA							
2	Fire Building Composite	3-30-13	13:10	Soil	N/A	1		X	X	Normal TA							
3	Rock / Soil Stockpile	3-30-13	13:15	Rock/Soil	N/A	1		X	X	Normal TA							
4	Asphalt Stockpile	3-30-13	13:20	Asphalt	N/A	1		X	X	Normal TA							
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign

Shipment Method:

Required Turnaround Time: ☐ STD 10 Wk Days ☐ 5 Wk Days See Above ☐ 2 Wk Days ☐ 24 Hour ☐ Other ____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
Johnny Gillman	4-3-12	8:45		
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp:
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

QC Package: (Check Box Below)
- Level II: Standard QC
- Level III: Std QC + Raw Data
- Level IV: SW846 CLP-Like
- Other: ____

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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Chain of Custody

1. [X] REGULAR Status

[ ] RUSH Status Requested - ADDITIONAL CHARGE
RESULTS REQUIRED BY _____ DATE
CONTACT ALS SALT LAKE PRIOR TO SENDING SAMPLES

2. Date 3-30-13 Purchase Order No. 21252

3. Company Name Remediation Services, inc.
Address PO Box 587
Independence, KS 67301
Person to Contact: Grant Sherwood
Telephone (620) 331-1200
Fax Telephone (620) 331-6216
E-mail Address gsherwood@rsi-ks.com
Billing Address (if different from above)

4. Quote No.
ALS Project Manager Paul Pope

5. Sample Collection
Sampling Site: Exide Frisco
Industrial Process: Decontamination and Demo
Date of Collection 3-30-13
Time Collected 13:15
Date of Shipment 3-30-13

Send Results to: gsherwood@rsi-ks.com, jrgillman@rsi-ks.com, vanessa.coleman@na.exide.com, droth@rsi-ks.com

Send Invoice to : strotter@rsi-ks.com

7. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
	Refining Office Debris	Debris	8 oz	NIOSH 7303 - Lead and Cadmium	
	Fire Building Composite	Soil	8 oz	NIOSH 7303 - Lead and Cadmium	
	Rock/Soil Stockpile	Soil/Rock	8 oz	NIOSH 7303 - Lead and Cadmium	
	Asphalt Stockpile	Asphalt	8 oz	NIOSH 7303 - Lead and Cadmium	

EX-DEMO = Project (Exide-Demolition)
YYMMDD = Sampling date (e.g., 11/01/2012 = 121101)
LOC = Sample Location (e.g. UW = Upwind, DW = Downwind)
XXX = E-BAM Monitor Sample Association – Last 3 digits of Serial Number,
QQ = Optional QA sample flag (TB = trip blank, FB = field blank, SC = duplicate)

Comments Rock/Soil and Asphalt stockpiles located North of Oxide building

Hold all samples for possible additional samples

Possible Contamination and/or Chemical Hazards: Lead and cadmium

7. Chain of Custody (Optional)

Relinquished by Johnny Gillman Date/Time 03.30.13 18:0

Received by _____ Date/Time _____

Relinquished by _____ Date/Time _____

Received by _____ Date/Time 4/2/13 09

960 West LeVoy Drive / Salt Lake City, UT 84123 800-356-9135 or 801-266-7700 / FAX: 801-26

ALS Laboratory Group

EXIDE TECHNOLOGIES: Exide Technologies
Project: Exide Decon/Demo 21252
1304321

FedEx Express | Package US Airbill | 8013 8013 0640

From
Date 3.30.13
Sender's Name JOHNNY GILLMAN Phone 620 252 . 9918
Company RSI
Address 7471 5TH STREET
City FRISCO State TX ZIP 75034 . 5617
2 Your Internal Billing Reference
3 To

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL
Date: 3.30.13 Time: 16:35
Name: J. Gillman
Company: RSI
Seal Broken By:
Date:

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Date: 3
Name:
Company:

CUSTODY SEAL
30.13 Time: 16:35
GILLMAN
RSI
Seal Broken By:
Date:

ALS Environmental

Chain of Custody Form

Page ____ of ____

COC ID: 38719

1304374

EXIDE TECHNOLOGIES: Exide Technologies

Project: Exide 20252

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	20267	Project Name	Exide	A	TCLP Lead & Cadmium
Work Order		Project Number	20252	B	Rush T.A.
Company Name	RSI / Exide	Bill To Company	RSI	C	Normal T.A.
Send Report To	Norma	Invoice Attn.	Shelli Trotter	D	
Address		Address		E	
				F	
City/State/Zip	Independence KS	City/State/Zip		G	
Phone	620-331-1200	Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Slag Treatment Building FG	4-9-13	12:42	Sld	NA	1	X	X									
2	Glass Feed Room Fiberglass	4-9-13	1:20	Sld	NA	1	X		X								
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign

Shipment Method:

Required Turnaround Time: Asap ☐ Other ____
☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
	4-9-13	2:05	Fed Ex	
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp:
	4/10/13	09:15	RW ALS	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

QC Package: (Check Box Below)

- ☐ Level II: Standard QC
- ☐ Level III: Std QC + Raw Data
- ☐ Level IV: SW846 CLP-Like
- ☐ Other: ____

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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Exide APAR Page 2679 of 2984

☐ **ALS Laboratory Group**
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page ____ of ____

ALS Project Manager:

1304855

EXIDE TECHNOLOGIES: Exide Technologies

Project: Plant Drums

Customer Information		Project Information			
Purchase Order		Project Name		A	TCLP METALS PB+CD
Work Order	PLANT DRUMS	Project Number		B	HOLD REMAINDER
Company Name	RSI	Bill To Company	EXIDE TECHNOLOGIES	C	
Send Report To	GRANT SHERWOOD	Invoice Attn	VANESSA COLEMAN	D	
Address	P.O. BOX 587	Address	7471 S. 5TH ST.	E	
				F	
City/State/Zip	INDEPENDENCE KS 67361	City/State/Zip	FRISCO, TX 75034	G	
Phone	620.331.1200	Phone	972.335.2121	H	
Fax	620.331.6216	Fax		I	
e-Mail Address	GSHERWOOD@RSI-KS.COM	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	PLANT ID NO01	4.19.13	15:30	SOIL	N/A	1	X	X									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: JOHNNY GILLMAN

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ____ ☐ STD 10 Wk Days ☐ 5 Wk Days ☒ 2 Wk Days ☐ 24 Hour

Results Due Date: 4.25.13

Relinquished by:	Date:	Time:	Received by:	Notes:
JOHNNY GILLMAN	4.22.13	19:00	[signature] 4/27/13 096	
Relinquished by:	Date:	Time:	Received by (Laboratory):	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

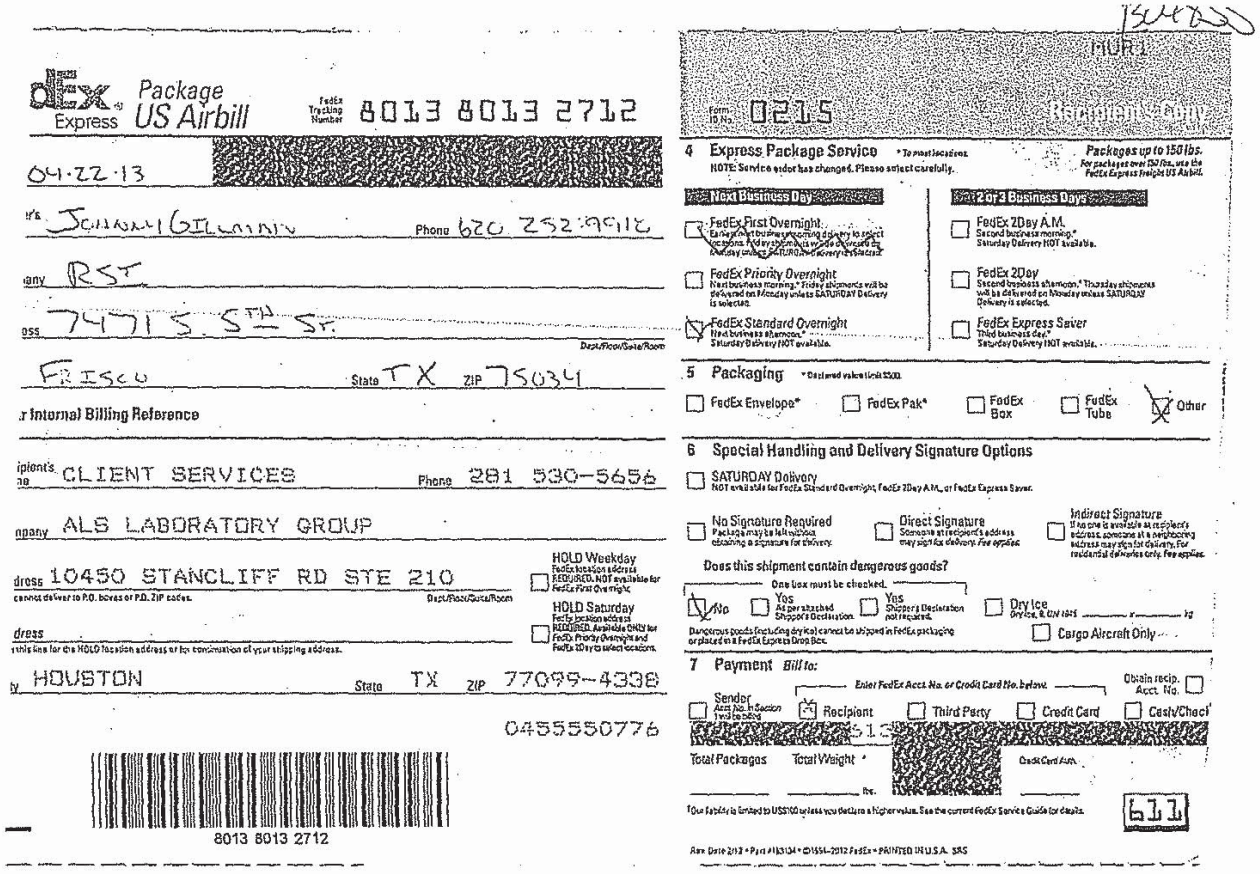
Cooler ID	Cooler Temp

QC Package: (Check One Box Below)
☒ Level II Std QC
☐ Level III Std QC/Raw Date
☐ Level IV SW846/CLP
☐ Other ____
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2008 by ALS Laboratory Group.



FedEx Express Package US Airbill

FedEx Tracking Number 8013 8013 2712

04·22·13

[redacted]

...'s JOHNNY GILLMAN Phone 620 252 9912

...any RST

...ess 74715 5TH ST. Dept/Floor/Suite/Room

FRISCO State TX ZIP 75034

...r Internal Billing Reference

...ipient's ...ne CLIENT SERVICES Phone 281 530-5656

...npany ALS LABORATORY GROUP

...dress 10450 STANCLIFF RD STE 210 Dept/Floor/Suite/Room

...cannot deliver to P.O. boxes or P.O. ZIP codes.

...dress

...this line for the HOLD location address or for continuation of your shipping address.

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

...y HOUSTON State TX ZIP 77099-4338

0455550776

8013 8013 2712

MUR 1

Form ID No. 0215

Recipient's Copy

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- [x] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain recip. Acct. No. [ ]

[redacted]

Total Packages ____ Total Weight * ____ lbs. [redacted] Credit Card Auth. ____

*Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

611

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ALS Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 41301

☐ Ci +1 ☐ Ev +1 ☐ Fo +1

1304648

EXIDE TECHNOLOGIES: Exide Technologies

Project: Decon Demo 21252

ALS Project Manager:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	21252	Project Name	Decon Demo	A	TCLP Lead and Cadmium
Work Order		Project Number	21252	B	Hold
Company Name	Exide Technologies	Bill To Company	RSE	C	
Send Report To	Vanessa Colenay.	Invoice Attn:	Shelli Trotter	D	
Address	7471 S. Fifth St.	Address	PO Box 587	E	
				F	
City/State/Zip	Frisco Tx	City/State/Zip	Independence KS 67301	G	
Phone	972-335-2121	Phone	620-331-1200	H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Battery Breaker MCC Room	4-16-13	2:43		NA	1	X	X									
2	Refining Control Room	4-16-13	2:35			1	X	X									
3	Refining office Floor	4-16-13	2:25			1	X	X									
4	Boneyard Sand / Gravel	4-16-13	10:05			1	X	X									
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign: Bryan Mecom

Shipment Method: Fed Ex

Required Turnaround Time: ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
Bryan Mecom	4/16/13	1458		Concrete Blocks from Buildings demolished above.
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp:
	4-16-13	15:05	4.17.13. 0910.	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

QC Package: (Check Box Below)

- ☐ Level II: Standard QC
- ☐ Level III: Std QC + Raw Data
- ☐ Level IV: SW846 CLP-Like
- ☐ Other: _____

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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#4740.

Exide APAR Page 2682 of 2984

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

4740.

CUSTODY SEAL

Date: 4-16-13 Time: 1515
Name: Carol Shannon
Company: RST

Seal Broken By:
Date: 4-17-13

4-16-13 FedEx Tracking Number 801056311577

der's ne Carol Sherwood Phone 620 331-1200

Company RST

Address 2735 S. 10th St. Unit 5 Dept/Floor/Suite/Room

Independence State KS ZIP 67301

Internal Billing Reference 21252

Chain of Custody Form

ALS Environmental

Page ____ of ____

COC ID: 41093

Cincinnati, OH +1 [redacted]336

Everett, WA +1 4[redacted]2600

Fort Collins, CO +1 970 490 1511

1304856

EXIDE TECHNOLOGIES: Exide Technologies

Project: VCP Drums

ALS Project Manager:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	[redacted]	Project Name		A	TCLP METALS PB + CD
Work Order	VCP DRUMS	Project Number		B	HOLD REMAINDER
Company Name	RSI	Bill To Company	EXIDE TECHNOLOGIES	C	
Send Report To	GRANT SHERWOOD	Invoice Attn.	VANESSA CULEMAN	D	
Address	P.O. 587	Address	7471 S. 5TH ST.	E	
				F	
City/State/Zip	INDEPENDENCE, KS 67301	City/State/Zip	FRISCO, TX 75034	G	
Phone	620-331-1200	Phone	972-335-2121	H	
Fax	620-331-6216	Fax		I	
e-Mail Address	GSHERWOOD@RSI-KS.COM	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	VCP IDW 001	4-20-13	11:40	SOIL	N/A	1	X	X									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign: JEANNA GILLMAN

Shipment Method:

Required Turnaround Time: ☐ STD 10 Wk Days ☐ 5 Wk Days ☒ 2 Wk Days ☐ 24 Hour ☐ Other ____

Results Due Date: 4-25-13

Relinquished by:	Date:	Time:	Received by:	Notes:
J. GILLMAN	4-22-13	19:00	[signature] 4/23/13 0915	
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

QC Package: (Check Box Below)

- X Level II: Standard QC
- ☐ Level III: Std QC + Raw Data
- ☐ Level IV: SW846 CLP-Like
- ☐ Other: ____

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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1304856

MUR 1

FedEx Express Package US Airbill

FedEx Tracking Number 8013 8013 2712

Form ID No. 0215

From

Date 04.22.13

Sender's Name JOHNNY GILLIAM Phone 620 252-9911

Company RST

Address 7471 5 5TH ST.

Dept./Floor/Suite/Room

City FRISCO State TX ZIP 75034

2 Your Internal Billing Reference

3 To

Recipient's Name CLIENT SERVICES Phone 281 530-5656

Company ALS LABORATORY GROUP

Address 10450 STANCLIFF RD STE 210

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

City HOUSTON State TX ZIP 77099-4338

0455550776

8013 8013 2712

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight or US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [X] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

Obtain Recip. Acct. No. [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages ____ Total Weight ____ lbs.

Credit Card Auth.

† Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

611

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Chain of Custody Form

ALS Environmental

Page ____ of ____

COC ID: 38724

- ☐ Cincinnati, OH +1 513 733 5336
- ☐ Everett, WA +1 425 356 2600
- ☐ Fort Collins, CO +1 970 490 1511

1304857

EXIDE TECHNOLOGIES: Exide Technologies

Project: Landfill Drums

ALS Project Manager:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	TCLP METALS PB+CD
Work Order	LANDFILL DRUMS	Project Number		B	HOLD REMAINDER
Company Name	RSI	Bill To Company	EXIDE TECHNOLOGIES	C	
Send Report To	GRANT SHERWOOD	Invoice Attn:	VANESSA COLEMAN	D	
Address	P.O. BOX 587	Address	7471 S. 5TH ST.	E	
				F	
City/State/Zip	INDEPENDENCE, KS 67301	City/State/Zip	FRISCO, TX 75034	G	
Phone	620 331 1200	Phone	972 335 2121	H	
Fax	620 331 6716	Fax		I	
e-Mail Address	GSHERWOOD@RSIEK.COM	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	LF IDW CO1	4.19.13	15:54	SOIL	N/A	1	X	X									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign: JOHNNY GILLMAN

Shipment Method:

Required Turnaround Time: ☐ STD 10 Wk Days ☐ 5 Wk Days ☒ 2 Wk Days ☐ 24 Hour ☐ Other ____

Results Due Date: 4.25.13

Relinquished by:	Date:	Time:	Received by:	Notes:
JOHNNY GILLMAN	4.22.13	19:00		
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp:
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

QC Package: (Check Box Below)

- X Level II: Standard QC
- ☐ Level III: Std QC + Raw Data
- ☐ Level IV: SW846 CLP-Like
- ☐ Other: ____

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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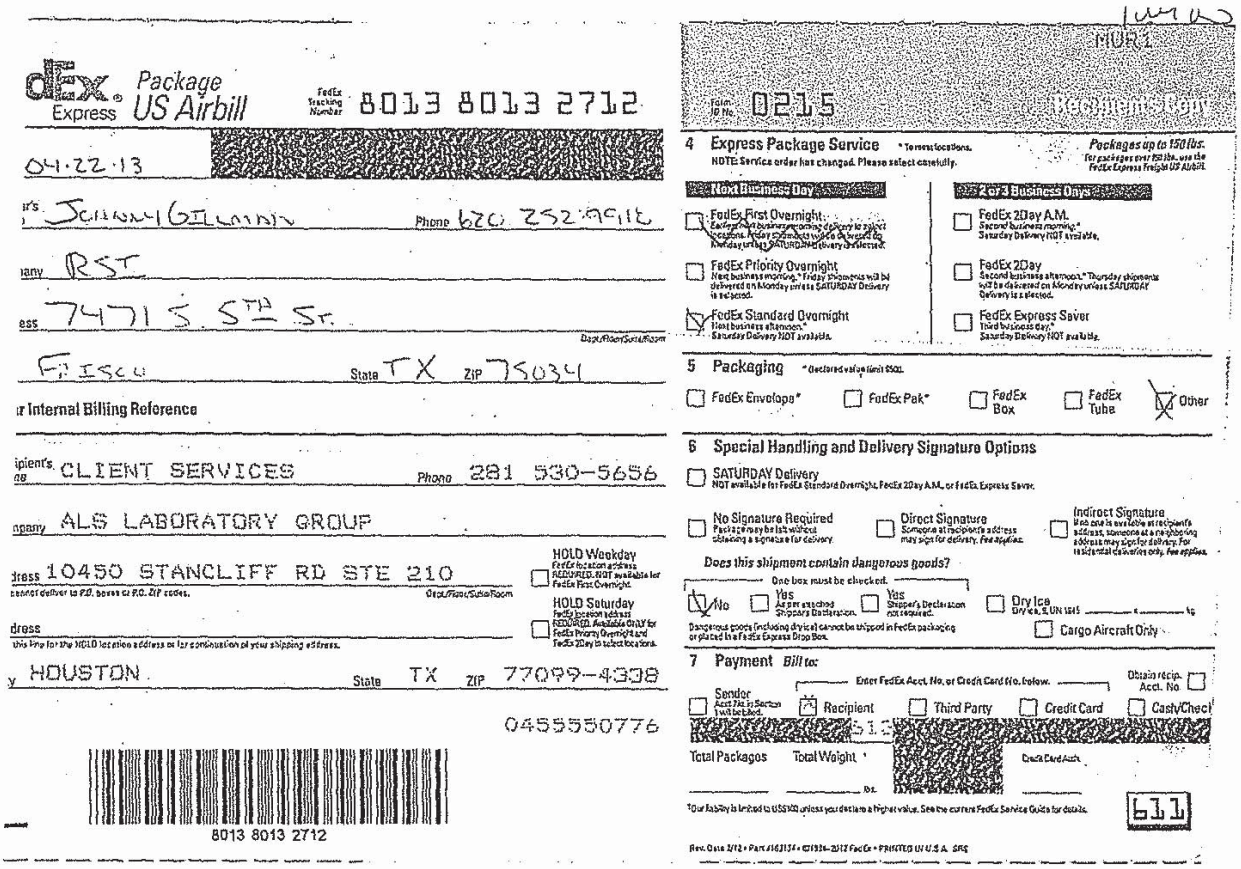

dEx Express Package US Airbill

FedEx Tracking Number 8013 8013 2712

04·22·13

r's JOHNNY GILLMAN Phone 620 252 9916

any RST

ess 7471 S 5TH ST. Dept./Floor/Suite/Room

FRISCO State TX ZIP 75034

r Internal Billing Reference

ipient's ne CLIENT SERVICES Phone 281 530-5656

npany ALS LABORATORY GROUP

dress 10450 STANCLIFF RD STE 210 Dept./Floor/Suite/Room

cannot deliver to P.O. boxes or P.O. ZIP codes.

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

dress

this line for the HOLD location address or for continuation of your shipping address.

y HOUSTON State TX ZIP 77099-4338

0455550776

8013 8013 2712

MUR1

Form ID No. 0215 Recipient's Copy

4 Express Package Service * Terms: locations. NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages ____ Total Weight ____ lbs. Credit Card Auth. ____

*Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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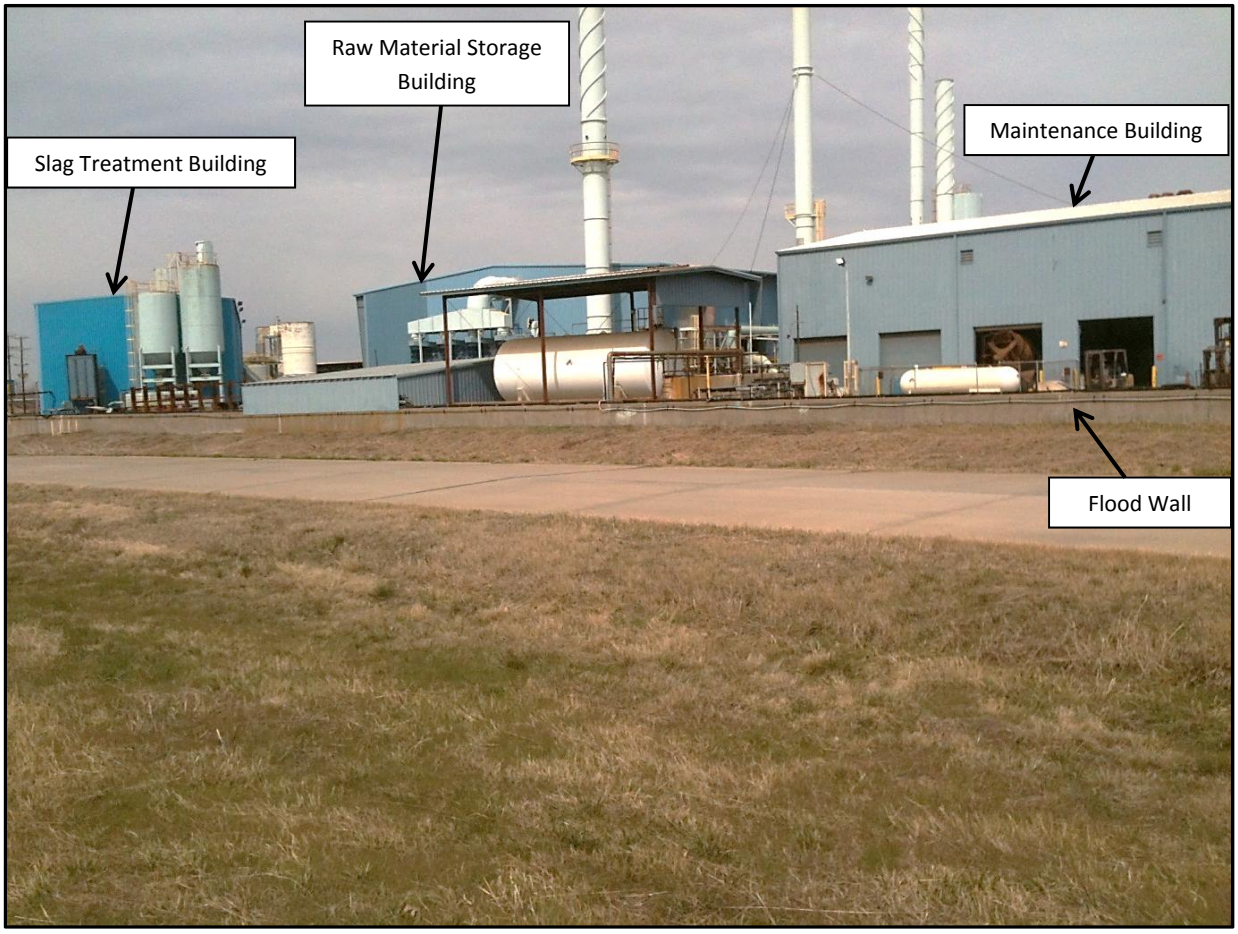
Appendix 13

Photographic Documentation

Appendix 13
Photographic Documentation

Photo 1 South side of former production area, prior to demolition (view looking northwest from vicinity of soil sample location ECO-8) (March 2013).



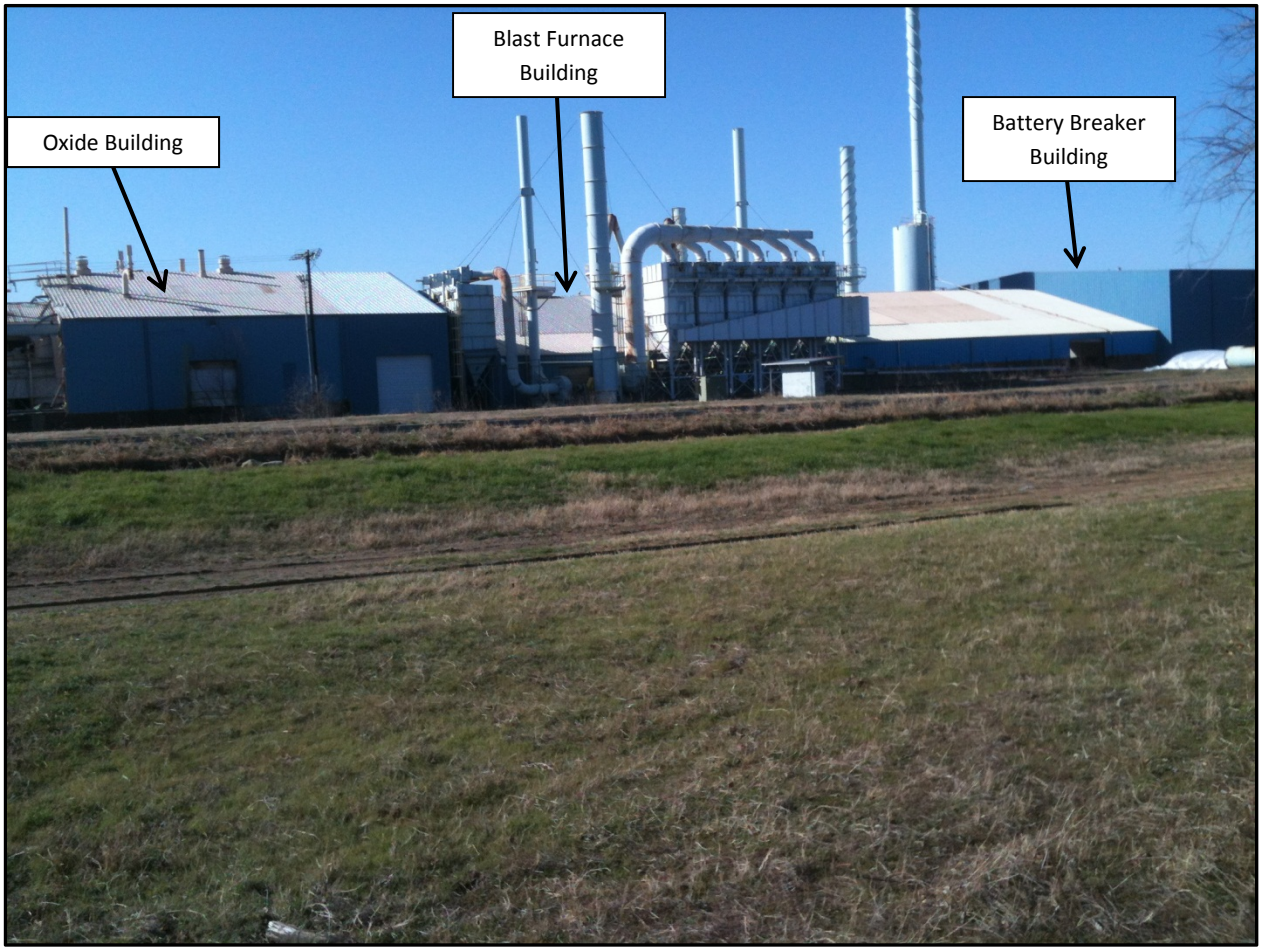
Appendix 13
Photographic Documentation

Photo 2 Looking upstream at Stewart Creek from south side of flood wall near Wastewater Treatment Facility (March 2013).



Appendix 13
Photographic Documentation

Photo 3 North side of former production area, during demolition (view looking south across the North Disposal Area) (March 2013).



Appendix 13
Photographic Documentation

Photo 4 Battery Receiving/Storage Building after roof was removed (view looking west) (April 2013).



Appendix 13
Photographic Documentation

Photo 5 Interior of Slag Treatment Building, prior to demolition (March 2013).



Appendix 13
Photographic Documentation

Photo 6 South side of the Slag Treatment Building, prior to demolition (view looking northwest) (March 2013). Monitoring wells MW-26 (background) and MW-29 (foreground) are visible between the flood wall and Stewart Creek.



Appendix 13
Photographic Documentation

Photo 7 Interior of Raw Material Storage Building, prior to demolition (May 2013).



Appendix 13
Photographic Documentation

Photo 8 View from Slag Landfill looking eastward (March 2013).



Appendix 13
Photographic Documentation

Photo 9 Former railroad outfall for the North Tributary located south of the Slag Landfill near monitoring well MW-24 (March 2013).



Appendix 13
Photographic Documentation

Photo 10 Current outfall for the North Tributary west of the Slag Landfill (May 2013).



Appendix 13
Photographic Documentation

Photo 11 Installation of monitoring well MW-23 on southeast side of Bale Stabilization Area (March 2013).



Appendix 13
Photographic Documentation

Photo 12 Installation of boring 2013-CUFT-6 along drainage ditch west of Crystallization Unit (March 2013).



Appendix 13
Photographic Documentation

Photo 13 Crystallization Unit Frac Tank (March 2013).



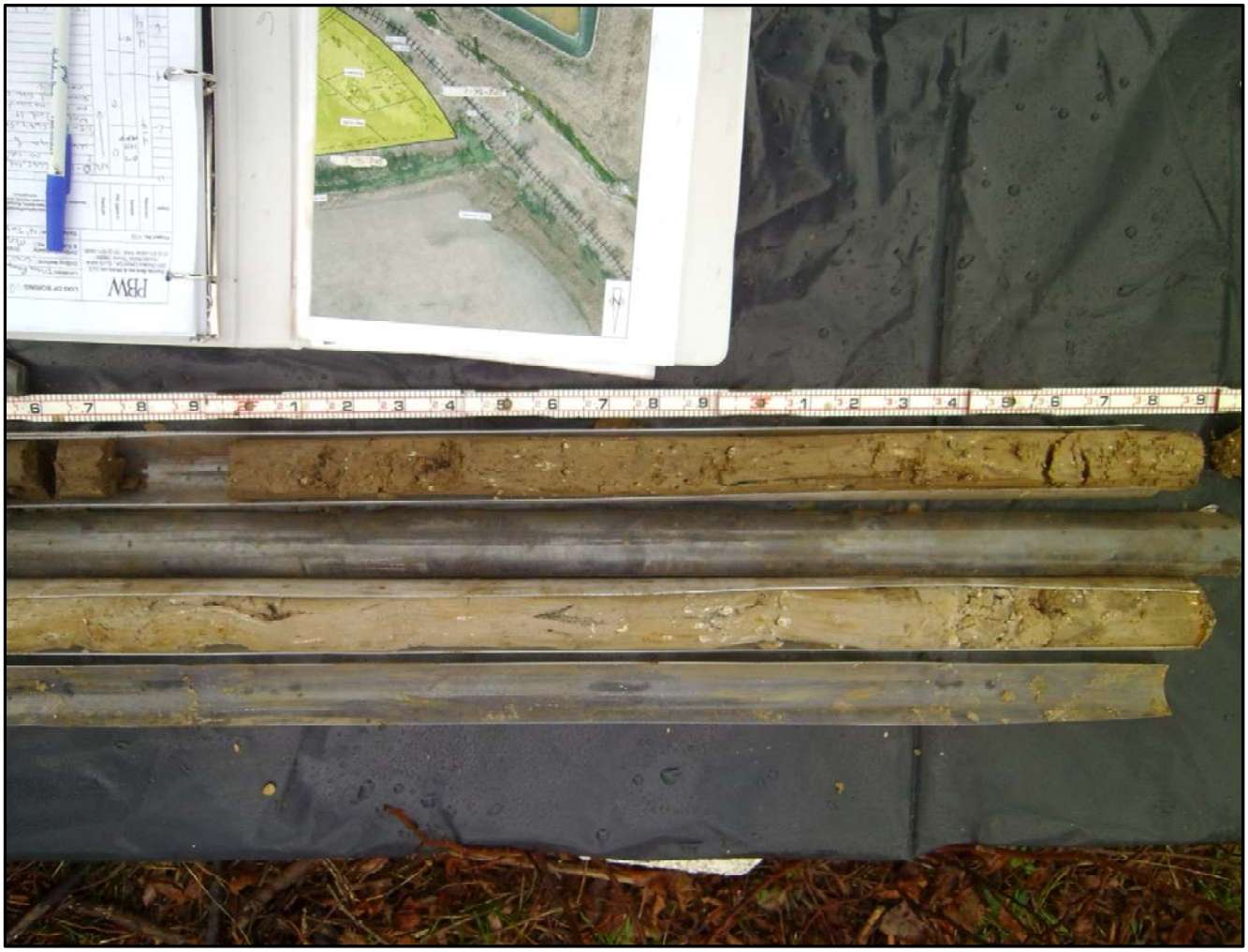
Appendix 13
Photographic Documentation

Photo 14 Black plastic chip observed in Shooting Range Berm test pit, prior to removal of the berm (April 2012).



Appendix 13
Photographic Documentation

Photo 15 Core from soil boring 2012-SL-2 (January 2012). White carbonate granules are visible suspended in a clay matrix, typical of the colluvial soils at the Site.



Appendix 13
Photographic Documentation

Photo 16 Eagle Ford Shale at MW-20 (January 2012).



Appendix 13
Photographic Documentation

Photo 17 Fill material in boring 2012-BY-4 from the Boneyard area of the Slag Landfill. Slag is visible in photo.



Appendix 13
Photographic Documentation

Photo 18 Gabion basket at boring location 2013-FWFS-1A.



Appendix 13
Photographic Documentation

Photo 19 Sediment sampling in Stewart Creek (January 2012).



Appendix 16

Reference List

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Appendix 17

Historical Data

Table A17-1
Historical Data - Soil
Data Tables and Reference Guide

Sample Data										References						
Sample ID	Sample Date	Sample Depth (ft)	pH (pH units)	TPH (mg/kg)	Calcium (mg/kg)	Chloride (mg/kg)	Sulfate (mg/kg)	Lead (mg/kg)	Cadmium (mg/kg)	pH	TPH	Calcium	Chloride	Sulfate	Lead	Cadmium
B1																
B1N-SB-001	06/14/90	0-0.5	8.4	---	---	---	---	58	6.2	2,3	---	---	---	---	2,3	2,3
B1N-SB-002	06/14/90	0.5-1	8.6	---	---	---	---	55	4.9	2,3	---	---	---	---	2,3	2,3
B1N-SB-003	06/14/90	1-1.5	8.7	---	---	---	---	58	5.3	2,3	---	---	---	---	2,3	2,3
B1N-SB-004	06/14/90	5	8.5	---	---	---	---	43	4.5	2,3	---	---	---	---	2,3	2,3
B1N-SB-005	06/14/90	10	7.7	---	---	---	---	19	1.4	2,3	---	---	---	---	2,3	2,3
B1N-SB-006	06/21/90	15	9.1	---	---	---	---	10	<0.3	2,3	---	---	---	---	2,3	2,3
B1N-SB-007	06/21/90	20	9	---	---	---	---	14	1.1	2,3	---	---	---	---	2,3	2,3
B1N-SB-008	06/21/90	25	9.3	---	---	---	---	18	<0.3	2,3	---	---	---	---	2,3	2,3
B1N-SB-009	06/21/90	30	9.3	---	---	---	---	16	<0.3	2,3	---	---	---	---	2,3	2,3
B1N-SB-010	06/21/90	35	10	<20	---	---	---	18	<0.3	2,3	2	---	---	---	2,3	2,3
B1N-SB-011	06/21/90	40	9.7	<20	---	---	---	14	<0.3	2,3	2	---	---	---	2,3	2,3
B1N-SB-012	06/22/90	45	9.8	---	---	---	---	12	<0.3	2,3	---	---	---	---	2,3	2,3
B1N-SB-013	06/22/90	50	10	---	---	---	---	10	<0.3	2,3	---	---	---	---	2,3	2,3
B1N-SB-014	06/22/90	55	9.7	---	---	---	---	10	<0.3	2,3	---	---	---	---	2,3	2,3
B1N-SB-015	06/21/90	60	9.6	---	---	---	---	12	<0.3	2,3	---	---	---	---	2,3	2,3
BS1-SB-001B	06/20/90	0-0.5	7.7	---	---	---	---	178	2.9	2,3	---	---	---	---	2,3	2,3
BS-1-001	05/10/90	0-0.5	---	---	---	---	---	124	1.6	---	---	---	---	---	2,3	2,3
B2																
BS-2-001	05/10/90	0-0.5	---	---	---	---	---	156	2	---	---	---	---	---	2,3	2,3
BS2-SB-001B	06/20/90	0-0.5	7.7	---	---	---	---	539	5.4	2,3	---	---	---	---	2,3	2,3
B2N-SB-001	06/14/90	0-0.5	8.2	<20	---	---	---	12,400	7.4	3	3	---	---	---	3	3
B2N-SB-002	06/14/90	0.5-1	8.4	<20	---	---	---	87	3.3	3	3	---	---	---	3	3
B2N-SB-003	06/14/90	1-1.5	8	20	---	---	---	227	2.4	3	3	---	---	---	3	3
B2N-SB-004	06/14/90	5	7.5	<20	---	---	---	14	1.5	3	3	---	---	---	3	3
B2N-SB-005	06/14/90	10	6.6	<20	---	---	---	38	1.9	3	3	---	---	---	3	3
B2N-SB-006	06/14/90	15	6.4	30	---	---	---	26	<0.3	3	3	---	---	---	3	3
B2M-001	07/11/90	0-0.5	8.3	---	---	---	---	180	2.3	2,3	---	---	---	---	2,3	2,3
B2M-002	07/11/90	0.5-1	8.2	---	---	---	---	354	2.8	2,3	---	---	---	---	2,3	2,3
B2M-002	07/11/90	1-1.5	7.7	---	---	---	---	106	2.3	2,3	---	---	---	---	2,3	2,3
B2M-004	07/11/90	5	7.3	---	---	---	---	16	<0.3	2,3	---	---	---	---	2,3	2,3
B2M-005	07/11/90	10	7.4	---	---	---	---	23	<0.3	2,3	---	---	---	---	2,3	2,3
B2M-006	07/11/90	13	5.6	---	---	---	---	45	<0.3	2,3	---	---	---	---	2,3	2,3
B2R-001	07/11/90	0-0.5	8	---	---	---	---	1460	4.2	2,3	---	---	---	---	2,3	2,3
B2R-002	07/11/90	0.5-1	8	---	---	---	---	68	1.8	2,3	---	---	---	---	2,3	2,3
B2R-003	07/11/90	1-1.5	8.1	---	---	---	---	34	2	2,3	---	---	---	---	2,3	2,3
B2R-004	07/11/90	5	8.2	---	---	---	---	41	2.1	2,3	---	---	---	---	2,3	2,3
B2R-005	07/11/90	10	7.8	---	---	---	---	32	1.7	2,3	---	---	---	---	2,3	2,3
B2R-006	07/11/90	15	4.1	---	---	---	---	38	1.2	2,3	---	---	---	---	2,3	2,3

Table A17-1
Historical Data - Soil
Data Tables and Reference Guide

Sample Data										References						
Sample ID	Sample Date	Sample Depth (ft)	pH (pH units)	TPH (mg/kg)	Calcium (mg/kg)	Chloride (mg/kg)	Sulfate (mg/kg)	Lead (mg/kg)	Cadmium (mg/kg)	pH	TPH	Calcium	Chloride	Sulfate	Lead	Cadmium
B3																
BS-3-001	05/10/90	0-0.5	---	---	---	---	---	9690	4.8	---	---	---	---	---	2,3	2,3
B3N-SB-001	06/13/90	0.5	7.3	60	---	---	---	48	<0.3	3	3	---	---	---	3	3
BS3-SB-001B	06/20/90	0-0.5	7.5	---	---	---	---	12100	7.6	2,3	---	---	---	---	2,3	2,3
B3N-SB-002	06/13/90	1	7.5	30	---	---	---	37	0.7	3	3	---	---	---	3	3
B3N-SB-003	06/13/90	1.5	7.3	<20	---	---	---	42	<0.3	3	3	---	---	---	3	3
B3N-SB-004	06/13/90	5	3.6	<20	---	---	---	37	<0.3	3	3	---	---	---	3	3
B3N-SB-005	06/13/90	10	2.8	<20	---	---	---	37	<0.3	3	3	---	---	---	3	3
B3N-SB-006	06/13/90	15	7.6	---	---	---	---	19	<0.3	3	---	---	---	---	3	3
B3R-001	07/11/90	0.5	7.5	---	---	---	---	175	2.3	2,3	---	---	---	---	2,3	2,3
B3R-002	07/11/90	1	7.8	---	---	---	---	41	<0.3	2,3	---	---	---	---	2,3	2,3
B3R-003	07/11/90	1.5	8	---	---	---	---	25	<0.3	2,3	---	---	---	---	2,3	2,3
B3R-004	07/11/90	5	7.6	---	---	---	---	32	<0.3	2,3	---	---	---	---	2,3	2,3
B3R-005	07/11/90	10	3.7	---	---	---	---	20	<0.3	2,3	---	---	---	---	2,3	2,3
B4																
BS-4-001	05/10/90	0-0.5	---	---	---	---	---	345	2.3	---	---	---	---	---	2,3	2,3
B4N-SB-001	06/14/90	0-0.5	8.4	<20	---	---	---	75	1.6	3	3	---	---	---	3	3
B4N-SB-001B	06/20/90	0-0.5	7.9	---	---	---	---	72	2.1	2,3	---	---	---	---	2,3	2,3
BS4-SB-001B	06/20/90	0-0.5	8	---	---	---	---	163	0.9	2,3	---	---	---	---	2,3	2,3
B4N-SB-002	06/14/90	0.5-1	8.2	<20	---	---	---	77	2.2	3	3	---	---	---	3	3
B4N-SB-002B	06/20/90	0.5-1	8.2	---	---	---	---	43	2	2,3	---	---	---	---	2,3	2,3
B4N-SB-003	06/14/90	1-1.5	8.2	<20	---	---	---	41	1.6	3	3	---	---	---	3	3
B4N-SB-003B	06/20/90	1-1.5	8.3	---	---	---	---	38	1.7	2,3	---	---	---	---	2,3	2,3
B4N-SB-004	06/14/90	5	4.2	<20	---	---	---	24	<0.3	3	3	---	---	---	3	3
B4																
B4N-SB-004B	06/20/90	5	4	---	---	---	---	27	<0.3	2,3	---	---	---	---	2,3	2,3
B4N-SB-005	06/20/90	10	6.8	---	---	---	---	22	<0.3	2,3	---	---	---	---	2,3	2,3
B4R-001	07/11/90	0-0.5	8.3	---	---	---	---	71	2.9	2,3	---	---	---	---	2,3	2,3
B4R-002	07/11/90	0.5-1	8.3	---	---	---	---	29	2	2,3	---	---	---	---	2,3	2,3
B4R-003	07/11/90	1-1.5	8.3	---	---	---	---	34	1.6	2,3	---	---	---	---	2,3	2,3
B4R-004	07/11/90	5	4.7	---	---	---	---	16	<0.3	2,3	---	---	---	---	2,3	2,3
B5																
BS-5-001	05/10/90	0-0.5	---	---	---	---	---	819	2	---	---	---	---	---	2,3	2,3
B5N-SB-001	06/07/90	0-0.5	8	---	---	---	---	117	3	2,3	---	---	---	---	2,3	2,3
BS5-SB-001B	06/20/90	0-0.5	8	---	---	---	---	936	3.8	2,3	---	---	---	---	2,3	2,3
B5N-SB-002	06/07/90	0.5-1	7.9	---	---	---	---	56	3.5	2,3	---	---	---	---	2,3	2,3
B5N-SB-003	06/07/90	1-1.5	8.1	---	---	---	---	51	2.4	2,3	---	---	---	---	2,3	2,3
B5N-SB-004	06/07/90	5	7.8	---	---	---	---	30	3.5	2,3	---	---	---	---	2,3	2,3
B5N-SB-005	06/07/90	10	7.8	---	---	---	---	46	4.3	2,3	---	---	---	---	2,3	2,3
B5N-SB-006	06/07/90	15	8.1	---	---	---	---	25	<0.3	2,3	---	---	---	---	2,3	2,3

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Sample Data										References						
Sample ID	Sample Date	Sample Depth (ft)	pH (pH units)	TPH (mg/kg)	Calcium (mg/kg)	Chloride (mg/kg)	Sulfate (mg/kg)	Lead (mg/kg)	Cadmium (mg/kg)	pH	TPH	Calcium	Chloride	Sulfate	Lead	Cadmium
B6																
BS-6-001	05/07/90	0-0.5	---	---	---	---	---	63	3.6	---	---	---	---	---	2,3	2,3
BS-6-001	06/04/90	0-0.5	---	<20	---	---	---	---	---	---	2,3	---	---	---	---	---
BS-6-001	06/04/90	0.5-1	---	<20	---	---	---	---	---	---	3	---	---	---	---	---
BS-6-002	05/07/90	0.5-1	---	---	---	---	---	43	3.4	---	---	---	---	---	2,3	2,3
BS-6-002	---	0.5-1	---	<20	---	---	---	---	---	---	2	---	---	---	---	---
BS-6-003	05/07/90	1-1.5	---	---	---	---	---	50	3.4	---	---	---	---	---	2,3	2,3
BS-6-003A (DUP)	05/07/90	1-1.5	---	---	---	---	---	41	3.1	---	---	---	---	---	2,3	2,3
BS-6-004	05/07/90	1.5-2	---	---	---	---	---	52	3	---	---	---	---	---	2,3	2,3
B7																
B7N-SB-001	05/10/90	0-0.5	8.1	---	---	---	---	201	2.7	2,3	---	---	---	---	2,3	2,3
B7N-SB-001B	06/20/90	0-0.5	7.7	---	---	---	---	374	5.5	2,3	---	---	---	---	2,3	2,3
B7N-SB-002	05/10/90	0.5-1	8	---	---	---	---	115	2.3	2,3	---	---	---	---	2,3	2,3
B7N-SB-002B	06/20/90	0.5-1	8.2	---	---	---	---	54	3.1	2,3	---	---	---	---	2,3	2,3
B7N-SB-003	05/10/90	1-1.5	7.9	---	---	---	---	102	2.5	2,3	---	---	---	---	2,3	2,3
B7N-SB-003B	06/20/90	1-1.5	8.1	---	---	---	---	49	3.9	2,3	---	---	---	---	2,3	2,3
B7N-SB-004	05/10/90	5	8.6	---	---	---	---	46	3.7	2,3	---	---	---	---	2,3	2,3
B7N-SB-005	05/10/90	10	8.8	---	---	---	---	44	4.2	2,3	---	---	---	---	2,3	2,3
B7N-SB-006	05/10/90	15	5.1	---	---	---	---	28	<0.3	2,3	---	---	---	---	2,3	2,3
B7N-SB-007	05/10/90	20	7.3	---	---	---	---	17	<0.3	2,3	---	---	---	---	2,3	2,3
B7N-SB-008	05/10/90	25	8.2	---	---	---	---	17	<0.3	2,3	---	---	---	---	2,3	2,3
B8																
B8N-SB-001	05/15/90	0-0.5	8.2	---	---	---	---	45	2.2	2,3	---	---	---	---	2,3	2,3
B8N-SB-002	05/15/90	0.5-1	8.4	---	---	---	---	83	2.4	2,3	---	---	---	---	2,3	2,3
B8N-SB-003	05/15/90	1-1.5	7.9	---	---	---	---	81	2.2	2,3	---	---	---	---	2,3	2,3
B8N-SB-004	05/15/90	5	7.6	---	---	---	---	34	2.6	2,3	---	---	---	---	2,3	2,3
B8N-SB-005	05/15/90	10	7.5	---	---	---	---	26	0.6	2,3	---	---	---	---	2,3	2,3
B8N-SB-006	05/15/90	15	7	---	---	---	---	17	<0.3	2,3	---	---	---	---	2,3	2,3
B8N-SB-007	05/15/90	20	7.7	---	---	---	---	19	<0.3	2,3	---	---	---	---	2,3	2,3
B9																
B9N-SB-001	06/12/90	0-0.5	8.4	---	---	---	---	58	1.4	2,3	---	---	---	---	2,3	2,3
B9N-SB-002	06/12/90	0.5-1	8.2	---	---	---	---	42	1.2	2,3	---	---	---	---	2,3	2,3
B9N-SB-003	06/12/90	1-1.5	8.4	---	---	---	---	39	1.6	2,3	---	---	---	---	2,3	2,3
B9N-SB-004	06/12/90	5	8.5	---	---	---	---	36	4.3	2,3	---	---	---	---	2,3	2,3
B9N-SB-005	06/12/90	10	8.3	---	---	---	---	19	<0.3	3	---	---	---	---	2,3	2,3
B9N-SB-006	06/12/90	15	6.6	---	---	---	---	19	<0.3	2,3	---	---	---	---	2,3	2,3
MW 10																
MW10-SB-001	06/13/90	0-0.5	8.3	---	---	---	---	42	1.3	2,3	---	---	---	---	2,3	2,3
MW10-SB-001	05/07/90	0-0.5	---	---	---	---	---	1020	2.5	---	---	---	---	---	2,3	2,3
MW10-SB-001B	06/20/90	0-0.5	7.1	---	---	---	---	3250	3.9	2,3	---	---	---	---	2,3	2,3
MW10-SB-002	05/07/90	0.5-1	8.1	---	---	---	---	194	2.1	2,3	---	---	---	---	2,3	2,3
MW10-SB-002	06/13/90	0.5-1	8.1	---	---	---	---	30	0.9	3	---	---	---	---	2,3	2,3

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Sample Data										References						
Sample ID	Sample Date	Sample Depth (ft)	pH (pH units)	TPH (mg/kg)	Calcium (mg/kg)	Chloride (mg/kg)	Sulfate (mg/kg)	Lead (mg/kg)	Cadmium (mg/kg)	pH	TPH	Calcium	Chloride	Sulfate	Lead	Cadmium
MW 10																
MW10-SB-002B	06/20/90	0.5-1	7.5	---	---	---	---	584	2.9	2,3	---	---	---	---	2,3	2,3
MW10-SB-003	06/13/90	1-1.5	8.2	---	---	---	---	33	2.7	2,3	---	---	---	---	2,3	2,3
MW10-SB-003	05/07/90	1-1.5	---	---	---	---	---	60	3.1	---	---	---	---	---	3	3
MW10-SB-003A	05/07/90	1.5-2	---	---	---	---	---	41	2.6	---	---	---	---	---	2,3	2,3
MW10-SB-003A	06/13/90	1.5-2	8.3	---	---	---	---	33	3.6	3	---	---	---	---	2,3	2,3
MW10-SB-004	06/13/90	5	8.2	---	---	---	---	29	3.9	2,3	---	---	---	---	2,3	3
MW10-SB-005	06/13/90	10	6.9	---	---	---	---	11	<0.3	3	---	---	---	---	2,3	3
MW10-SB-006	06/13/90	15	4.5	---	---	---	---	23	<0.3	2,3	---	---	---	---	2,3	2,3
MW 11																
MW11-SB-001	06/11/90	0.5-1	7.3	---	---	---	---	44	1	2,3	---	---	---	---	2,3	2,3
MW11-SB-002	06/11/90	1.5	7.1	---	---	---	---	37	1.6	2	---	---	---	---	2,3	2,3
MW11-SB-003	06/11/90	1-1.5	7.3	---	---	---	---	66	2.5	2	---	---	---	---	2,3	2,3
MW11-SB-004	06/11/90	5	7.5	---	---	---	---	44	<0.3	2	---	---	---	---	2,3	2,3
MW11-SB-005	06/11/90	10	7.2	---	---	---	---	33	3.8	2,3	---	---	---	---	2,3	2,3
MW11-SB-006	---	15	7.6	---	---	---	---	37	2.9	2	---	---	---	---	2	2
MW11-SB-006	06/11/90	15	5.3	---	---	---	---	12	<0.3	3	---	---	---	---	3	3
MW 12																
MW12-SB-001	06/19/90	0-0.5	7.9	---	---	---	---	38	<0.3	2,3	---	---	---	---	2,3	2,3
MW12-SB-002	06/19/90	0.5-1	7.5	---	---	---	---	50	1.3	2,3	---	---	---	---	2,3	2,3
MW12-SB-003	06/19/90	1-1.5	7.7	---	---	---	---	36	<0.3	2,3	---	---	---	---	2,3	2,3
MW12-SB-004	06/19/90	5	7.5	---	---	---	---	26	2.1	2,3	---	---	---	---	2,3	2,3
MW12-SB-005	06/19/90	10	7.4	---	---	---	---	38	3.3	3	---	---	---	---	2,3	2,3
MW12-SB-006	06/19/90	15	3.9	<20	---	---	---	29	<0.3	2,3	2,3	---	---	---	2,3	2,3
MW-13																
MW13-SB-001	06/18/90	0-0.5	6.6	---	---	---	---	77	2.9	2,3	---	---	---	---	2,3	2,3
MW13-SB-002	06/18/90	0.5-1	7	---	---	---	---	29	<0.3	2,3	---	---	---	---	2,3	2,3
MW13-SB-003	06/18/90	1-1.5	6.5	---	---	---	---	21	<0.3	2,3	---	---	---	---	2,3	2,3
MW13-SB-004	06/18/90	5	7.4	---	---	---	---	41	2.6	2,3	---	---	---	---	2,3	2,3
MW13-SB-005	06/18/90	10	7.1	---	---	---	---	38	2	3	---	---	---	---	2,3	2,3
MW13-SB-006	06/18/90	15	7.5	<20	---	---	---	43	2.8	2,3	2,3	---	---	---	2,3	2,3
MW13-SB-007	06/18/90	20	7.7	---	---	---	---	50	4.5	2,3	---	---	---	---	2,3	2,3
MW-14																
MW14-SB-001	06/18/90	0-0.5	8	---	---	---	---	38	3.2	2,3	---	---	---	---	2,3	2,3
MW14-SB-002	06/18/90	0.5-1	7.9	---	---	---	---	41	3.3	2,3	---	---	---	---	2,3	2,3
MW14-SB-003	06/18/90	1-1.5	8.1	---	---	---	---	31	2.9	2,3	---	---	---	---	2,3	2,3
MW14-SB-004	06/18/90	5	7.9	---	---	---	---	33	4.3	2,3	---	---	---	---	2,3	2,3
MW14-SB-005	06/18/90	10	7.5	---	---	---	---	26	2.8	2,3	---	---	---	---	2,3	2,3
MW14-SB-006	06/18/90	15	4.1	<20	---	---	---	14	<0.3	2,3	2,3	---	---	---	2,3	2,3

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Sample Data										References						
Sample ID	Sample Date	Sample Depth (ft)	pH (pH units)	TPH (mg/kg)	Calcium (mg/kg)	Chloride (mg/kg)	Sulfate (mg/kg)	Lead (mg/kg)	Cadmium (mg/kg)	pH	TPH	Calcium	Chloride	Sulfate	Lead	Cadmium
MW-15																
MW15-SB-001	06/11/90	0-0.5	8	---	---	---	---	148	3.3	2,3	---	---	---	---	2,3	2,3
MW15-SB-002	06/11/90	0.5-1	8.1	---	---	---	---	42	2.4	2,3	---	---	---	---	2,3	2,3
MW15-SB-003	06/11/90	1-1.5	7.9	---	---	---	---	38	1.8	2,3	---	---	---	---	2,3	2,3
MW15-SB-004	06/11/90	5	7.8	---	---	---	---	37	3	2,3	---	---	---	---	2,3	2,3
MW15-SB-005	06/11/90	10	7.3	---	---	---	---	29	3.1	2,3	---	---	---	---	2,3	2,3
MW15-SB-006	06/11/90	15	8.1	---	---	---	---	23	1.1	2,3	---	---	---	---	2,3	2,3
MW15-SB-007	06/11/90	20	7.8	---	---	---	---	38	3.1	2,3	---	---	---	---	2,3	2,3
MW-16																
MW16-SB-001	05/17/90	0-0.5	7.6	---	---	---	---	103	2.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-002	05/17/90	0.5-1	7.9	---	---	---	---	65	2.2	2,3	---	---	---	---	2,3	2,3
MW16-SB-003	05/17/90	1-1.5	7.6	---	---	---	---	37	2.4	2,3	---	---	---	---	2,3	2,3
MW16-SB-004	05/15/90	5	7.9	---	---	---	---	21	1.8	2,3	---	---	---	---	2,3	2,3
MW16-SB-005	05/15/90	10	8	---	---	---	---	30	2	2,3	---	---	---	---	2,3	2,3
MW16-SB-006	05/15/90	15	8	---	---	---	---	21	1.8	2,3	---	---	---	---	2,3	2,3
MW16-SB-007	05/15/90	20	4.8	---	---	---	---	13	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-008	05/17/90	25	7.5	---	---	---	---	<5.00	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-009	05/17/90	30	7.1	---	---	---	---	<5.00	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-010	05/17/90	35	9.2	---	---	---	---	11	0.9	2,3	---	---	---	---	2,3	2,3
MW16-SB-011	05/17/90	40	9.4	---	---	---	---	17	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-012	05/17/90	45	9.4	---	---	---	---	21	0.6	2,3	---	---	---	---	2,3	2,3
MW16-SB-013	05/17/90	50	10.2	---	---	---	---	15	0.8	2,3	---	---	---	---	2,3	2,3
MW16-SB-014	05/17/90	55	10.1	---	---	---	---	15	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-015	05/17/90	60	9.9	---	---	---	---	17	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-016	05/17/90	65	10	---	---	---	---	17	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-017	05/18/90	70	9.8	---	---	---	---	17	1.5	2,3	---	---	---	---	2,3	2,3
MW16-SB-018	05/18/90	75	9.9	---	---	---	---	23	1.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-019	05/18/90	80	10	---	---	---	---	26	1.7	2,3	---	---	---	---	2,3	2,3
MW-16																
MW16-SB-020	05/18/90	85	10.2	---	---	---	---	23	1	2,3	---	---	---	---	2,3	2,3
MW16-SB-021	05/18/90	90	10.1	---	---	---	---	26	1.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-022	05/18/90	95	10.1	---	---	---	---	21	0.9	2,3	---	---	---	---	2,3	2,3
MW16-SB-023	05/18/90	100	10	---	---	---	---	26	2.6	2,3	---	---	---	---	2,3	2,3
MW16-SB-024	05/18/90	105	9.6	---	---	---	---	21	1.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-025	05/18/90	110	10	---	---	---	---	34	2.9	2,3	---	---	---	---	2,3	2,3
MW16-SB-026	05/18/90	115	10.1	---	---	---	---	17	1	2,3	---	---	---	---	2,3	2,3
MW16-SB-027	05/18/90	120	10.2	---	---	---	---	21	1.9	2,3	---	---	---	---	2,3	2,3
MW16-SB-028	05/18/90	125	10.2	---	---	---	---	6	2	2,3	---	---	---	---	2,3	2,3
MW16-SB-029	05/18/90	130	9.8	---	---	---	---	21	1.7	2,3	---	---	---	---	2,3	2,3
MW16-SB-030	05/18/90	135	9.8	---	---	---	---	23	1.7	2,3	---	---	---	---	2,3	2,3
MW16-SB-031	05/19/90	140	10.1	---	---	---	---	19	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-032	05/19/90	145	10.2	---	---	---	---	17	<0.3	2,3	---	---	---	---	2,3	2,3

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Sample Data										References						
Sample ID	Sample Date	Sample Depth (ft)	pH (pH units)	TPH (mg/kg)	Calcium (mg/kg)	Chloride (mg/kg)	Sulfate (mg/kg)	Lead (mg/kg)	Cadmium (mg/kg)	pH	TPH	Calcium	Chloride	Sulfate	Lead	Cadmium
MW-16																
MW16-SB-033	05/19/90	150	9.8	---	---	---	---	17	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-034	05/19/90	NS	NS	---	---	---	---	NS	NS	3	---	---	---	---	3	3
MW16-SB-035	05/19/90	160	9.6	---	---	---	---	17	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-036	05/19/90	165	10	---	---	---	---	17	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-037	05/19/90	170	10.2	---	---	---	---	15	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-038	05/19/90	175	10.1	---	---	---	---	13	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-039	05/21/90	180	10	---	---	---	---	13	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-040	05/21/90	185	10	---	---	---	---	19	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-041	05/22/90	190	10.2	---	---	---	---	26	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-042	05/22/90	195	10	---	---	---	---	19	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-043	05/22/90	200	9.6	---	---	---	---	17	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-044	05/22/90	205	10.1	---	---	---	---	15	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-045	05/22/90	210	10	---	---	---	---	22	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-046	05/22/90	215	10	---	---	---	---	32	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-047	05/22/90	220	9.7	---	---	---	---	28	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-048	05/22/90	225	10.2	---	---	---	---	25	1.4	2,3	---	---	---	---	2,3	2,3
MW16-SB-049	05/22/90	230	9.9	---	---	---	---	28	1.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-050	05/22/90	235	9.9	---	---	---	---	30	1.5	2,3	---	---	---	---	2,3	2,3
MW16-SB-051	05/23/90	240	10	---	---	---	---	32	1.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-052	05/23/90	245	9.8	---	---	---	---	25	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-053	05/23/90	250	10	---	---	---	---	28	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-054	05/23/90	255	9.8	---	---	---	---	30	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-055	05/23/90	260	10.1	---	---	---	---	25	<0.3	2,3	---	---	---	---	2,3	2,3
MW16-SB-056	05/23/90	265	10.3	---	---	---	---	21	<0.3	2,3	---	---	---	---	2,3	2,3
MW-16S																
MW16S-SB-001	06/06/90	0-0.5	7.9	---	---	---	---	41	2.8	2,3	---	---	---	---	2,3	2,3
MW16S-SB-002	06/06/90	0.5-1	8.4	---	---	---	---	93	3	2,3	---	---	---	---	2,3	2,3
MW16S-SB-003	06/06/90	1-1.5	8.5	---	---	---	---	41	3.3	2,3	---	---	---	---	2,3	2,3
MW16S-SB-004	06/06/90	5	8.4	---	---	---	---	46	2.7	2,3	---	---	---	---	2,3	2,3
MW16S-SB-005	06/06/90	10	7.6	---	---	---	---	41	3	2,3	---	---	---	---	2,3	2,3
MW16S-SB-006	06/06/90	15	8.5	---	---	---	---	37	2.1	2,3	---	---	---	---	2,3	2,3
MW-17																
MW17-SB-001	06/07/90	0-0.5	7.7	---	---	---	---	11500	8.1	2,3	---	---	---	---	2,3	2,3
MW17-SB-002	06/07/90	0.5-1	8.2	---	---	---	---	41	2.4	2,3	---	---	---	---	2,3	2,3
MW17-SB-003	06/07/90	1-1.5	8	---	---	---	---	70	3	2,3	---	---	---	---	2,3	2,3
MW17-SB-004	06/07/90	5	7.8	---	---	---	---	39	3.5	2,3	---	---	---	---	2,3	2,3
MW17-SB-005	06/07/90	10	8	---	---	---	---	37	4	3	---	---	---	---	2,3	2,3
MW17-SB-006	06/07/90	15	3.9	---	---	---	---	28	<0.3	2,3	---	---	---	---	2,3	2,3

Table A17-1
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Sample Data										References						
Sample ID	Sample Date	Sample Depth (ft)	pH (pH units)	TPH (mg/kg)	Calcium (mg/kg)	Chloride (mg/kg)	Sulfate (mg/kg)	Lead (mg/kg)	Cadmium (mg/kg)	pH	TPH	Calcium	Chloride	Sulfate	Lead	Cadmium
MW-18																
MW18-SB-001	06/12/90	0.5	7.4	---	---	---	---	134	1.6	3	---	---	---	---	3	3
MW18-SB-002	06/12/90	1	7.5	---	---	---	---	39	<0.3	3	---	---	---	---	3	3
MW18-SB-003	06/12/90	1.5	7.6	---	---	---	---	37	2.9	3	---	---	---	---	3	3
MW18-SB-004	06/12/90	5	7.9	---	---	---	---	42	1.3	3	---	---	---	---	3	3
MW18-SB-005	06/12/90	10	7.2	---	---	---	---	14	<0.3	3	---	---	---	---	3	3
MW18-SB-006	06/12/90	15	6	---	---	---	---	16	<0.3	3	---	---	---	---	3	3
P1																
P1-SB-001	05/07/90	0-0.5	---	---	---	---	---	95	2.4	---	---	---	---	---	2,3	2,3
P1-SB-001	06/04/90	0-0.5	---	<20	---	---	---	---	---	---	2,3	---	---	---	---	---
P1																
P1-SB-002	05/07/90	0.5-1	---	---	---	---	---	45	1	---	---	---	---	---	2,3	2,3
P1-SB-002	06/04/90	0.5-1	---	<20	---	---	---	---	---	---	2,3	---	---	---	---	---
P1-SB-003	05/07/90	1-1.5	---	---	---	---	---	340	<0.3	---	---	---	---	---	2,3	2,3
P1-SB-003	06/04/90	1-1.5	---	<20	---	---	---	---	---	---	2,3	---	---	---	---	---
P1-SB-004	05/08/90	5	8.1	---	---	---	---	28	2.3	2,3	---	---	---	---	2,3	2,3
P1-SB-005	05/08/90	10	8.5	---	---	---	---	37	3.7	3	---	---	---	---	2,3	2,3
P1-SB-006	05/08/90	15	8.3	---	---	---	---	26	0.9	2,3	---	---	---	---	2,3	2,3
P1-SB-007	05/08/90	20	7.5	---	---	---	---	19	1	2,3	---	---	---	---	2,3	2,3
P1-SB-003B	06/20/90	1-1.5	7.9	---	---	---	---	98	2.6	2,3	---	---	---	---	2,3	2,3
P1-SB-003A	05/07/90	1.5-2	---	---	---	---	---	50	1.1	---	---	---	---	---	2,3	2,3
P2																
P2-SB-001	05/07/90	0-0.5	---	---	---	---	---	122	2.6	---	---	---	---	---	2,3	2,3
P2-SB-001	05/24/90	0-0.5	---	<20	---	---	---	---	---	---	2,3	---	---	---	---	---
P2-SB-001B	06/20/90	0-0.5	7.8	---	---	---	---	137	2.9	2,3	---	---	---	---	2,3	2,3
P2-SB-002	05/07/90	0.5-1	---	---	---	---	---	120	2.9	---	---	---	---	---	2,3	2,3
P2-SB-002	05/24/90	0.5-1	---	<20	---	---	---	---	---	---	2,3	---	---	---	---	---
P2-SB-002B	06/20/90	0.5-1	8.4	---	---	---	---	56	3.3	2,3	---	---	---	---	2,3	2,3
P2-SB-003	05/07/90	1-1.5	---	---	---	---	---	34	2.4	---	---	---	---	---	2,3	2,3
P2-SB-003	05/24/90	1-1.5	---	<20	---	---	---	---	---	---	2,3	---	---	---	---	---
P2-SB-003A	05/07/90	1.5-2	---	---	---	---	---	39	3	---	---	---	---	---	2,3	2,3
P2-SB-004	05/09/90	5	8.6	---	---	---	---	26	2.9	2,3	---	---	---	---	2,3	2,3
P2-SB-005	05/09/90	10	8.2	---	---	---	---	24	0.9	2,3	---	---	---	---	2,3	2,3
P2-SB-006	05/09/90	15	7.4	---	---	---	---	11	<0.3	2,3	---	---	---	---	2,3	2,3
P2-SB-007	05/09/90	20	8.2	---	---	---	---	19	<0.3	2,3	---	---	---	---	2,3	2,3
P2-SB-008	05/09/90	25	8.4	---	---	---	---	22	0.8	2,3	---	---	---	---	2,3	2,3
Detention Pond Transfer Pipe																
SS13293	03/02/93		---	---	---	---	---	655	---	---	---	---	---	---	6	---
SS23293	03/02/93		---	---	---	---	---	1,010	---	---	---	---	---	---	6	---

Table A17-1
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Sample Data										References						
Sample ID	Sample Date	Sample Depth (ft)	pH (pH units)	TPH (mg/kg)	Calcium (mg/kg)	Chloride (mg/kg)	Sulfate (mg/kg)	Lead (mg/kg)	Cadmium (mg/kg)	pH	TPH	Calcium	Chloride	Sulfate	Lead	Cadmium
Micellaneous Stained Soils																
MISOIL #1R	10/12/94		7.5	---	68800	12.4	554	989	27.4	4	---	4	4	4	---	---
MISOIL #1R	10/03/94		7.48	---	78300	334	11700	5,980	97.1	5	---	5	5	5	---	---
MISOIL #2R	10/12/94		7.7	---	72000	16.1	535	822	4.8	4	---	4	4	4	---	---
MISOIL #2R	10/03/94		6.32	---	37000	2350	175000	985	172	5	---	5	5	5	---	---
MISOIL #3R	10/12/94		7.5	---	70500	7.48	57.3	1,010	6.8	4	---	4	4	4	---	---
MISOIL #3R	10/03/94		7.91	---	75300	9.98	727	299	4.6	5	---	5	5	5	---	---
MISOIL #4R	10/12/94		7.8	---	71500	<5	54.2	699	8.1	4	---	4	4	4	---	---
MISOIL #4R	10/03/94		8.84	---	86900	<120	7030	486	6.5	5	---	5	5	5	---	---
Truck Staging Area																
TS-1	06/04/98		---	---	---	---	---	84.6	---	---	---	---	---	---	7	---
TS-2	06/04/98		---	---	---	---	---	53.3	---	---	---	---	---	---	7	---
NTS 1	06/04/98		---	---	---	---	---	381	---	---	---	---	---	---	7	---
NTS 2	06/04/98		---	---	---	---	---	11300	---	---	---	---	---	---	7	---
Railroad Spur																
RRS #1b	06/18/98	0.5-1	---	---	---	---	---	1290	---	---	---	---	---	---	7	---
RRS #1c	06/18/98	1-1.5	---	---	---	---	---	10100	---	---	---	---	---	---	7	---
RRS #1c (dup)	06/18/98	1-1.5	---	---	---	---	---	13300	---	---	---	---	---	---	7	---
RRS #1d	06/18/98	1.5-2	---	---	---	---	---	987	---	---	---	---	---	---	7	---
RRS #1e	06/18/98	2-4	---	---	---	---	---	16.5	---	---	---	---	---	---	7	---
RRS #1e (dup)	06/18/98	2-4	---	---	---	---	---	10.7	---	---	---	---	---	---	7	---
RRS #2a	06/18/98	0-0.5	---	---	---	---	---	8240	---	---	---	---	---	---	7	---
RRS #2b	06/18/98	0.5-1	---	---	---	---	---	4890	---	---	---	---	---	---	7	---
RRS #2c	06/18/98	1-1.5	---	---	---	---	---	1510	---	---	---	---	---	---	7	---
RRS #2d	06/19/98	1.5-2	---	---	---	---	---	74.8	---	---	---	---	---	---	7	---
RRS #2e	06/20/98	2-4	---	---	---	---	---	59.9	---	---	---	---	---	---	7	---
RRS #3b	06/18/98	0.5-1	---	---	---	---	---	30200	---	---	---	---	---	---	7	---
RRS #3c	06/18/98	1-1.5	---	---	---	---	---	657	---	---	---	---	---	---	7	---
RRS #3d	06/18/98	1.5-2	---	---	---	---	---	214	---	---	---	---	---	---	7	---
RRS #3e	06/18/98	2-4	---	---	---	---	---	65.9	---	---	---	---	---	---	7	---
RRS #4c	06/18/98	1-1.5	---	---	---	---	---	8000	---	---	---	---	---	---	7	---
RRS #4d	06/18/98	1.5-2	---	---	---	---	---	1420	---	---	---	---	---	---	7	---
RRS #4e	06/18/98	2-4	---	---	---	---	---	1370	---	---	---	---	---	---	7	---
RRS #4f	06/18/98	2-4	---	---	---	---	---	179	---	---	---	---	---	---	7	---
Area Adjacent to B7R																
NTSB #1e (GNB RFI)	06/18/98	2-4	---	---	---	---	---	57.8	---	---	---	---	---	---	7	---
NTSB #1f	06/18/98	2-4	---	---	---	---	---	85.2	---	---	---	---	---	---	7	---
NTSB #1g	06/18/98	2-4	---	---	---	---	---	93.5	---	---	---	---	---	---	7	---
NTSB #1g (dup)	06/18/98	2-4	---	---	---	---	---	21.9	---	---	---	---	---	---	7	---

Table A17-1
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Sample Data										References						
Sample ID	Sample Date	Sample Depth (ft)	pH (pH units)	TPH (mg/kg)	Calcium (mg/kg)	Chloride (mg/kg)	Sulfate (mg/kg)	Lead (mg/kg)	Cadmium (mg/kg)	pH	TPH	Calcium	Chloride	Sulfate	Lead	Cadmium
South Disposal Area																
SDA #1a	06/18/98	0-0.5	---	---	---	---	---	201	---	---	---	---	---	---	7	---
SDA #1b	06/18/98	0.5-1	---	---	---	---	---	72.5	---	---	---	---	---	---	7	---
SDA #1c	06/18/98	1-1.5	---	---	---	---	---	10.9	---	---	---	---	---	---	7	---
SDA #1d	06/18/98	1.5-2	---	---	---	---	---	21	---	---	---	---	---	---	7	---
SDA #1e	06/18/98	2-4	---	---	---	---	---	14.1	---	---	---	---	---	---	7	---
SDA #2a	06/18/98	0-0.5	---	---	---	---	---	7030	---	---	---	---	---	---	7	---
SDA #2b	06/18/98	0.5-1	---	---	---	---	---	19.1	---	---	---	---	---	---	7	---
SDA #2c	06/18/98	1-1.5	---	---	---	---	---	10.8	---	---	---	---	---	---	7	---
SDA #2d	06/18/98	1.5-2	---	---	---	---	---	17.8	---	---	---	---	---	---	7	---
SDA #2e	06/18/98	2-4	---	---	---	---	---	29.8	---	---	---	---	---	---	7	---
SDA #3a	06/18/98	0-0.5	---	---	---	---	---	6020	---	---	---	---	---	---	7	---
SDA #3b	06/18/98	0.5-1	---	---	---	---	---	42.9	---	---	---	---	---	---	7	---
SDA #3c	06/18/98	1-1.5	---	---	---	---	---	21.8	---	---	---	---	---	---	7	---
SDA #3d	06/18/98	1.5-2	---	---	---	---	---	30.1	---	---	---	---	---	---	7	---
SDA #3e	06/18/98	2-4	---	---	---	---	---	10.8	---	---	---	---	---	---	7	---
SDA #3e (dup)	06/18/98	2-4	---	---	---	---	---	274	---	---	---	---	---	---	7	---
SDA #4a	06/18/98	0-0.5	---	---	---	---	---	17800	---	---	---	---	---	---	7	---
SDA #4b	06/18/98	0.5-1	---	---	---	---	---	61	---	---	---	---	---	---	7	---
SDA #4c	06/18/98	1-1.5	---	---	---	---	---	55.2	---	---	---	---	---	---	7	---
SDA #4d	06/18/98	1.5-2	---	---	---	---	---	24.2	---	---	---	---	---	---	7	---
SDA #4e	06/18/98	2-4	---	---	---	---	---	9.4	---	---	---	---	---	---	7	---
SDA #4e	06/18/98	2-4	---	---	---	---	---	21.7	---	---	---	---	---	---	7	---
SDA #5a	06/18/98	0-0.5	---	---	---	---	---	292	---	---	---	---	---	---	7	---
SDA #5b	06/18/98	0.5-1	---	---	---	---	---	1100	---	---	---	---	---	---	7	---
SDA #5c	06/18/98	1-1.5	---	---	---	---	---	16.1	---	---	---	---	---	---	7	---
SDA #5c (dup)	06/18/98	1-1.5	---	---	---	---	---	23.2	---	---	---	---	---	---	7	---
SDA #5d	06/18/98	1.5-2	---	---	---	---	---	24.9	---	---	---	---	---	---	7	---
SDA #5e	06/18/98	2-4	---	---	---	---	---	5.69	---	---	---	---	---	---	7	---
SDA #6a	06/18/98	0-0.5	---	---	---	---	---	317	---	---	---	---	---	---	7	---
SDA #6b	06/18/98	0.5-1	---	---	---	---	---	25.2	---	---	---	---	---	---	7	---
SDA #6c	06/18/98	1-1.5	---	---	---	---	---	42.6	---	---	---	---	---	---	7	---
SDA #6d	06/18/98	1.5-2	---	---	---	---	---	11.5	---	---	---	---	---	---	7	---
SDA #6e	06/18/98	2-4	---	---	---	---	---	<5	---	---	---	---	---	---	7	---
SDA #7a	06/18/98	0-0.5	---	---	---	---	---	274	---	---	---	---	---	---	7	---
SDA #7b	06/18/98	0.5-1	---	---	---	---	---	17.6	---	---	---	---	---	---	7	---
SDA #7c	06/18/98	1-1.5	---	---	---	---	---	13.2	---	---	---	---	---	---	7	---
SDA #7d	06/18/98	1.5-2	---	---	---	---	---	<5	---	---	---	---	---	---	7	---
SDA #7e	06/18/98	2-4	---	---	---	---	---	12.4	---	---	---	---	---	---	7	---
SDA #7e (dup)	06/18/98	2-4	---	---	---	---	---	7.29	---	---	---	---	---	---	7	---
SDA #8f	06/18/98	2-4	---	---	---	---	---	809	---	---	---	---	---	---	7	---
SDA #8g	06/18/98	2-4	---	---	---	---	---	1240	---	---	---	---	---	---	7	---

Table A17-1
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Sample Data										References						
Sample ID	Sample Date	Sample Depth (ft)	pH (pH units)	TPH (mg/kg)	Calcium (mg/kg)	Chloride (mg/kg)	Sulfate (mg/kg)	Lead (mg/kg)	Cadmium (mg/kg)	pH	TPH	Calcium	Chloride	Sulfate	Lead	Cadmium
South Disposal Area																
SDA #8h	06/18/98	2-4	---	---	---	---	---	78.9	---	---	---	---	---	---	7	---
SDA #8i	06/18/98	2-4	---	---	---	---	---	<5	---	---	---	---	---	---	7	---
SDA #9-1a	06/18/98	0-0.5	---	---	---	---	---	2540	---	---	---	---	---	---	7	---
SDA #9-1b	06/18/98	0.5-1	---	---	---	---	---	28800	---	---	---	---	---	---	7	---
SDA #9-1c	06/18/98	1-1.5	---	---	---	---	---	328	---	---	---	---	---	---	7	---
SDA #9-2a	06/18/98	0-0.5	---	---	---	---	---	20500	---	---	---	---	---	---	7	---
SDA #9-2b	06/18/98	0.5-1	---	---	---	---	---	17800	---	---	---	---	---	---	7	---
SDA #9-2c	06/18/98	1-1.5	---	---	---	---	---	1060	---	---	---	---	---	---	7	---
SDA #9-2d	06/18/98	1.5-2	---	---	---	---	---	784	---	---	---	---	---	---	7	---
SDA #9-2e	06/18/98	2-4	---	---	---	---	---	31.6	---	---	---	---	---	---	7	---
SDA #10a	06/18/98	0-0.5	---	---	---	---	---	114	---	---	---	---	---	---	7	---
SDA #10b	06/18/98	0.5-1	---	---	---	---	---	42.8	---	---	---	---	---	---	7	---
SDA #10c	06/18/98	1-1.5	---	---	---	---	---	36.2	---	---	---	---	---	---	7	---
SDA #10d	06/18/98	1.5-2	---	---	---	---	---	307	---	---	---	---	---	---	7	---
SDA #10e	06/18/98	2-4	---	---	---	---	---	10.8	---	---	---	---	---	---	7	---
SDA #10e (dup)	06/18/98	2-4	---	---	---	---	---	7.18	---	---	---	---	---	---	7	---
Old Drum Storage Area																
1	01/05/87		---	---	---	---	---	1,460	12	---	---	---	---	---	1	1
2	01/05/87		---	---	---	---	---	11,730	58	---	---	---	---	---	1	1
3	01/05/87		---	---	---	---	---	11,070	62	---	---	---	---	---	1	1
4	01/05/87		---	---	---	---	---	52,820	134	---	---	---	---	---	1	1
5	01/05/87		---	---	---	---	---	26,290	184	---	---	---	---	---	1	1
6	01/05/87		---	---	---	---	---	18,640	208	---	---	---	---	---	1	1
7	01/05/87		---	---	---	---	---	22,180	112	---	---	---	---	---	1	1
8	01/05/87		---	---	---	---	---	16,720	42	---	---	---	---	---	1	1
9	01/05/87		---	---	---	---	---	25,200	68	---	---	---	---	---	1	1
10	01/05/87		---	---	---	---	---	25,370	110	---	---	---	---	---	1	1

Reference Summary

Reference Number	Referenced Document
1	GNB Incorporated (GNB), 1987b. Letter to TWC RE: (1) Agreed Order Dated March 23, 1987 Between Water Commission and GNB Incorporated, Frisco, Texas (SWR# 30516), p. 5, Order (2); (2) Report "Soil Clean-Up of Old Drum Storage Area Enclosed (Enclosure 2) in letter dated April 29, 1987 to L. R. Soward from A.H. Larson - Certified Mail # P 649 040 215. June 16.
2	Lake Engineering, Inc. (Lake), 1991. RCRA Facility Investigation for GNB Incorporated, Frisco, Texas. May 8.
3	GNB Incorporated (GNB), 1987a. Interim Status Closure Plan for Battery Case Chip Waste Piles, May.
4	Delta Environmental Consultants (Delta), 1994. Miscellaneous Stained Soil Samples, October 20.
5	Delta Environmental Consultants (Delta), 1994. Miscellaneous Stained Soil Samples, October 6.
6	GNB Incorporated (GNB), 1993. Letter to TWC RE: Soil samples from transfer pipe GNB Incorporated, Frisco, Texas. March 25.
7	JD Consulting, L.P. (JDC), 1998. Phase II RFI Report, GNB Technologies, Inc., Frisco, Texas. August 28.

Notes:
1. Sample locations shown as described in original referenced reports.
2. Data are from historical FRC documents. Not all data could be confirmed through comparison to original laboratory reports.

Table A17-2
Historical Data - Groundwater Samples
Data Tables and Reference Guide

Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
B-1	5/20/1983	8.76	< 0.01	---	0.004	< 0.01	0.022	112	1	1,3		1,3	24	1,3	1
	9/16/1983	---	< 0.01	---	< 0.01	---	---	---		2,3		2,3			
	5/22/1984	9.90	0.02	---	< 0.01	---	< 0.01	258	5	3,5*		3,5		3,5	5
	12/20/1984	10.90	< 0.01	---	< 0.01	---	< 0.01	189	6	3,6		3,6		6	6
	7/23/1985	---	< 0.01	---	< 0.01	---	< 0.01	204		24		24		24	24
	4/25/1986	---	0.01	---	---	---	---	---		3					
	1/26/1987	---	0.03	---	< 0.01	---	---	---		24		24			
	8/17/1987	---	< 0.05	< 0.05	< 0.01	< 0.01	---	---		3	4	3	4		
	12/16/1987	---	< 0.01	---	< 0.01	---	---	---		3		24			
	7/8/1988	---	< 0.05	---	< 0.05	---	---	---		3		24			
	12/19/1988	---	---	< 0.1	---	< 0.05	---	---		24	24		24		
	1/31/1989	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		9	9	9	9		
	2/1/1989	---	< 0.02	< 0.02	< 0.01	< 0.01	---	---		8	8	8	8		
	7/18/1989	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		24	24	24	24		
	2/8/1990	---	0.53	< 0.005	0.11	< 0.01	---	---		24	24	24	24		
	7/17/1990	8.30	0.15	0.001	< 0.005	< 0.005	---	---	24	10	10	10	10		
	7/18/1990	NS	---	---	---	< 0.005	---	---	24	24			24		
	July 1990	8.3	0.15	0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	9/27/1990	---	0.026	0.005	< 0.005	< 0.005	---	---		10, 12*	10, 12*	10	10		
	Sept. 1990	7.5	0.026	0.005	< 0.005	< 0.005	---	---	23	23	23	23	23		
	12/5/1990	NS	---	---	---	---	---	---	24	24					
	12/6/1990	NS	---	---	---	---	---	---	24	24					
	12/12/1990	NS	---	---	---	---	---	---	24	24					
	12/13/1990	NS	NS	---	---	NS	---	---	24	24			24		
	12/20/1990	NS	---	NS	NS	NS	---	---	24	24	24	24	24		
	1/24/1991	NS	DRY	DRY	---	---	---	---	24	12	12				
	1/25/1991	7.50	0.06	---	< 0.005	NS	---	---	24	22		22	24		
	Jan 1991	---	0.06	NS	NS	< 0.005	---	---		23	23	23	23		
	3/7/1991	NS	---	---	---	---	---	---	24	24					
	3/8/1991	NS	NS	NS	---	---	---	---	24	12	12				
	3/9/1991	NS	---	---	NS	---	---	---	24	24		24			
	3/10/1991	NS	---	NS	---	NS	---	---	24	24	24		24		
	March 1991	NS	NS	NS	< 0.005	NS	---	---	23	23	23	23	23		
	6/29/1991	9.30	NS	NS	---	---	---	---	24	12	12				
	6/30/1991	---	0.06	---	< 0.005	NS	---	---		22		22	24		
	8/23/1991	8.90	0.44	0.009	---	---	---	---	24	12	12				
	8/25/1991	---	0.44	0.009	< 0.005	< 0.005	---	---		22	22	22	24		
	11/10/1991	NS	DRY	DRY	DRY	DRY	---	---	24	12, 22	12, 22	22	22		
	2/22/1992	---	0.01	< 0.002	---	---	---	---		12	12				
	2/23/1992	8.20	---	---	< 0.005	<0.005	---	---	24	24		24	24		
	4/11/1992	---	DRY	DRY	---	---	---	---		12	12				
	4/12/1992	NS	---	---	DRY	---	---	---	24	24		24			
	6/12/1992	---	DRY	DRY	---	---	---	---		12	12				
	6/14/1992	7.30	---	---	DRY	---	---	---	24	24		24			
	8/8/1992	---	DRY	---	---	---	---	---		12					

Table A17-2
Historical Data - Groundwater Samples
Data Tables and Reference Guide

Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	8/9/1992	NS	---	---	DRY	---	---	---	24	24		24			
	10/9/1992	---	DRY	---	---	---	---	---		12					
	10/11/1992	NS	---	---	DRY	---	---	---	24	24		24			
	2/21/1993	NS	DRY	DRY	---	---	---	---	24	11	11				
	4/25/1993	NS	DRY	DRY	---	---	---	---	24	11	11				
	6/6/1993	6.30	DRY	DRY	---	---	---	---	24	11	11				
	8/8/1993	NS	DRY	DRY	---	---	---	---	24	11	11				
	10/8/1993	---	DRY	DRY	---	---	---	---		11	11				
	10/10/1993	NS	DRY	DRY	---	---	---	---	24	24	24				
	12/12/1993	NS	DRY	DRY	---	---	---	---	24	11	11				
	2/13/1994	NS	DRY	DRY	---	---	---	---	24	24	24				
	4/17/1994	NS	DRY	DRY	---	---	---	---	24	24	24				
	6/12/1994	NS	DRY	DRY	---	---	---	---	24	24	24				
	8/28/1994	NS	DRY	DRY	---	---	---	---	24	24	24				
	10/30/1994	NS	DRY	DRY	---	---	---	---	24	24	24				
	1/29/1995	NS	DRY	DRY	---	---	---	---	24	15	15				
	3/31/1995	---	DRY	DRY	---	---	---	---		15	15				
	5/21/1995	NS	DRY	DRY	---	---	---	---	24	15	15				
	7/30/1995	---	DRY	DRY	---	---	---	---		15	15				
	9/24/1995	NS	DRY	DRY	---	---	---	---	24	15	15				
	11/19/1995	6.90	DRY	DRY	---	---	---	---	24	15	15				
	1/27/1996	NS	NS	NS	---	---	---	---	24	14	14				
	3/31/1996	NS	DRY	DRY	---	---	---	---	24	14	14				
	5/19/1996	NS	NS	NS	---	---	---	---	24	24	24				
	7/21/1996	NS	NS	NS	---	---	---	---	24	24	24				
	9/8/1996	NS	NS	NS	---	---	---	---	24	14	14				
	11/10/1996	7.20	0.022	0.004	---	---	---	---	24	14	14				
	1/25/1997	NS	NS	NS	---	---	---	---	24	13	13				
	1/27/1997	---	DRY	DRY	---	---	---	---		24	24				
	3/15/1997	NS	---	---	---	---	---	---	24	24					
	3/16/1997	---	NS	NS	---	---	---	---		13	13				
	5/18/1997	NS	DRY	DRY	---	---	---	---	24	13	13				
	8/3/1997	NS	NS	NS	---	---	---	---	24	13	13				
	9/28/1997	NS	NS	NS	---	---	---	---	24	13	13				
	11/16/1997	NS	NS	NS	---	---	---	---	24	13	13				
	3/29/1998	NS	NS	NS	---	---	---	---	24	17	17				
	5/17/1998	NS	NS	NS	---	---	---	---	17	17	17				
	7/26/1998	DRY	DRY	DRY	---	---	---	---	17	17	17				
	9/27/1998	DRY	DRY	DRY	---	---	---	---	17	17	17				
	11/22/1998	6.91	0.049	<0.005	---	---	---	---	17	17	17				
	5/24/1999	NS	NS	NS	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	NS	NS	NS	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	NS	NS	NS	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	---	---	---	---	---	---	---	18	18	18				
	1/16/2000	---	---	---	---	---	---	---	19	19	19				

Table A17-2
Historical Data - Groundwater Samples
Data Tables and Reference Guide

Sample Data																
									References							
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	
	4/9/2000	NS	DRY	DRY	---	---	---	---	24	24	24					
	7/30/2000	NS	NS	NS	---	---	---	---	24	24	24					
	3/23/2001	NS	NS	NS	---	---	---	---	20	20	20					
	7/1/2001	---	---	---	---	---	---	---	20	20	20					
	8/12/2001	NS	NS	NS	---	---	---	---	20	20	20					
	11/4/2001	NS	NS	NS	---	---	---	---	20	20	20					
	3/8/2002	NS	NS	NS	---	---	---	---	21	21	21					
	6/30/2002	NS	NS	NS	---	---	---	---	21	21	21					
	8/18/2002	NS	NS	NS	---	---	---	---	24	24	24					
	11/17/2002	NS	NS	NS	---	---	---	---	24	24	24					
	3/27/2003	NS	DRY	DRY	---	---	---	---	24	24	24					
	6/26/2003	NS	DRY	DRY	---	---	---	---	24	24	24					
	7/18/2003	NS	DRY	DRY	---	---	---	---	24	24	24					
	12/22/2003	NS	DRY	DRY	---	---	---	---	24	24	24					
	3/31/2004	NS	DRY	DRY	---	---	---	---	24	24	24					
	3/20/2005	NS	DRY	DRY	---	---	---	---	24	24	24					
	11/22/2005	NS	DRY	DRY	---	---	---	---	24	24	24					
B1-S	5/20/1983	---	NS	---	NS	< 0.01	---	---		24		24	24			
	9/16/1983	---	< 0.01	---	< 0.01	---	---	---		2		2				
	5/22/1984	7.30	< 0.01	---	< 0.01	---	< 0.01	400	5	3,5		5		5	5	
	12/20/1984	7.40	< 0.01	---	< 0.01	---	< 0.01	244	6	3		3,6*		6	6	
	7/23/1985	---	0.02	---	< 0.01	---	< 0.01	225		24		24		24	24	
	4/25/1986	---	0.01	---	---	---	---	---		3						
	1/26/1987	---	0.02	---	< 0.01	---	---	---		24		24				
	8/17/1987	---	< 0.05	< 0.05	< 0.01	< 0.01	---	---		3	4	3	4			
	12/16/1987	---	< 0.01	---	< 0.01	---	---	---		3		24				
	7/8/1988	---	< 0.05	< 0.1	< 0.05	---	---	---		3	24	24				
	12/19/1988	---	< 0.05	---	---	< 0.05	---	---		24			24			
	1/31/1989	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		9	9	9	9			
	2/1/1989	---	< 0.02	< 0.02	< 0.01	< 0.01	---	---		8	8	8	8			
	7/18/1989	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		24	24	24	24			
	2/8/1990	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		24	24	24	24			
	7/17/1990	NS	NS	NS	NS	---	---	---	24	24	24	24				
	7/18/1990	NS	---	---	---	NS	---	---	24				24			
	9/27/1990	---	NS	NS	NS	NS	---	---		24	24	24	24			
	12/5/1990	NS	---	---	---	---	---	---	24							
	12/6/1990	NS	---	---	---	---	---	---	24							
	12/12/1990	NS	---	---	---	---	---	---	24							
	12/13/1990	NS	NS	---	---	NS	---	---	24	24			24			
	12/20/1990	NS	---	NS	NS	NS	---	---	24		24	24	24			
	1/24/1991	NS	---	NS	---	---	---	---	24		24					
	1/25/1991	NS	NS	---	NS	NS	---	---	24	24		24	24			
	3/7/1991	NS	---	---	---	---	---	---	24							
	3/8/1991	NS	NS	---	---	---	---	---	24	24						
	3/9/1991	NS	---	---	NS	---	---	---	24			24				

Table A17-2
Historical Data - Groundwater Samples
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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	3/10/1991	NS	---	NS	---	NS	---	---	24		24		24		
	6/29/1991	NS	NS	NS	---	---	---	---	24	24	24				
	6/30/1991	---	---	---	NS	NS	---	---				24	24		
	8/23/1991	NS	NS	NS	---	---	---	---	24	24	24				
	8/25/1991	---	---	---	NS	NS	---	---				24	24		
	11/10/1991	NS	NS	NS	NS	NS	---	---	24	24	24	24	24		
	2/22/1992	---	NS	NS	---	---	---	---		24	24				
	2/23/1992	NS	---	---	NS	NS	---	---	24			24	24		
	4/11/1992	---	NS	NS	---	---	---	---		24	24				
	4/12/1992	NS	---	---	NS	---	---	---	24			24			
	6/12/1992	---	NS	NS	---	---	---	---		24	24				
	6/14/1992	NS	---	---	NS	---	---	---	24			24			
	8/8/1992	---	NS	---	---	---	---	---		24					
	8/9/1992	NS	---	---	NS	---	---	---	24			24			
	10/9/1992	---	NS	---	---	---	---	---		24					
	10/11/1992	NS	---	---	NS	---	---	---	24			24			
	2/21/1993	NS	NS	NS	---	---	---	---	24	24	24				
	4/25/1993	NS	NS	NS	---	---	---	---	24	24	24				
	6/6/1993	NS	NS	NS	---	---	---	---	24	24	24				
	8/8/1993	NS	NS	NS	---	---	---	---	24	24	24				
	10/10/1993	NS	NS	NS	---	---	---	---	24	24	24				
	12/12/1993	NS	NS	NS	---	---	---	---	24	24	24				
	2/13/1994	NS	NS	NS	---	---	---	---	24	24	24				
	4/17/1994	NS	NS	NS	---	---	---	---	24	24	24				
	6/12/1994	NS	NS	NS	---	---	---	---	24	24	24				
	8/28/1994	NS	NS	NS	---	---	---	---	24	24	24				
	10/30/1994	NS	NS	NS	---	---	---	---	24	24	24				
	1/29/1995	NS	NS	NS	---	---	---	---	24	24	24				
	5/21/1995	NS	NS	NS	---	---	---	---	24	24	24				
	7/30/1995	---	NS	NS	---	---	---	---		24	24				
	9/24/1995	NS	NS	NS	---	---	---	---	24	24	24				
	11/19/1995	NS	NS	NS	---	---	---	---	24	24	24				
	1/27/1996	NS	NS	NS	---	---	---	---	24	24	24				
	3/31/1996	NS	NS	NS	---	---	---	---	24	24	24				
	5/19/1996	NS	NS	NS	---	---	---	---	24	24	24				
	7/21/1996	NS	NS	NS	---	---	---	---	24	24	24				
	9/8/1996	NS	NS	NS	---	---	---	---	24	24	24				
	11/10/1996	NS	NS	NS	---	---	---	---	24	24	24				
	1/25/1997	NS	---	---	---	---	---	---	24						
	1/27/1997	---	NS	NS	---	---	---	---		24	24				
	3/15/1997	NS	---	---	---	---	---	---	24						
	3/16/1997	---	NS	NS	---	---	---	---		24	24				
	5/18/1997	NS	NS	NS	---	---	---	---	24	24	24				
	8/3/1997	NS	NS	NS	---	---	---	---	24	24	24				
	9/28/1997	NS	NS	NS	---	---	---	---	24	24	24				

Table A17-2
Historical Data - Groundwater Samples
Data Tables and Reference Guide

Sample Data																
									References							
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	11/16/1997	NS	NS	NS	---	---	---	---	24	24	24				
	3/29/1998	NS	NS	NS	---	---	---	---	24	24	24				
	5/17/1998	NS	NS	NS	---	---	---	---	24	24	24				
	7/26/1998	NS	NS	NS	---	---	---	---	24	24	24				
	11/22/1998	NS	NS	NS	---	---	---	---	24	24	24				
	5/24/1999	NS	NS	NS	---	---	---	---	24	24	24				
	7/29/1999	NS	NS	NS	---	---	---	---	24	24	24				
	10/3/1999	NS	NS	NS	---	---	---	---	24	24	24				
	11/14/1999	NS	NS	NS	---	---	---	---	24	24	24				
	1/16/2000	NS	NS	NS	---	---	---	---	24	24	24				
	4/9/2000	NS	NS	NS	---	---	---	---	24	24	24				
	7/30/2000	NS	NS	NS	---	---	---	---	24	24	24				
	3/23/2001	NS	NS	NS	---	---	---	---	24	24	24				
	7/1/2001	NS	NS	NS	---	---	---	---	24	24	24				
	8/12/2001	NS	NS	NS	---	---	---	---	24	24	24				
	11/4/2001	NS	NS	NS	---	---	---	---	24	24	24				
	3/8/2002	NS	NS	NS	---	---	---	---	24	24	24				
	6/30/2002	NS	NS	NS	---	---	---	---	24	24	24				
	8/18/2002	NS	NS	NS	---	---	---	---	24	24	24				
	11/17/2002	NS	NS	NS	---	---	---	---	24	24	24				
	3/27/2003	NS	NS	NS	---	---	---	---	24	24	24				
	6/26/2003	NS	NS	NS	---	---	---	---	24	24	24				
	7/18/2003	NS	NS	NS	---	---	---	---	24	24	24				
	12/22/2003	NS	NS	NS	---	---	---	---	24	24	24				
	3/31/2004	NS	NS	NS	---	---	---	---	24	24	24				
	3/20/2005	NS	NS	NS	---	---	---	---	24	24	24				
	11/22/2005	NS	NS	NS	---	---	---	---	24		24				
B-2	5/20/1983	7.47	0.13	---	0.017	< 0.01	0.002	1,200	1	1,3		1,3		1	1
	9/16/1983	---	< 0.01	---	< 0.01	---	---	---		2,3		2,3			
	5/22/1984	6.30	< 0.01	---	< 0.01	---	0.02	2539	5	3,5		3,5		5	5
	12/20/1984	6.20	< 0.01	---	0.02	---	0.02	5580	6	3,6		3,6		6	6
	7/23/1985	---	< 0.01	---	0.04	---	< 0.01	5500		24		24		24	24
	4/25/1986	---	0.02	---	---	---	---	---		3					
	1/26/1987	---	0.1	---	0.05	---	---	---		24		24			
	8/17/1987	---	< 0.05	< 0.05	< 0.01	< 0.01	---	---		3	4	3	4		
	12/16/1987	---	< 0.01	---	< 0.01	---	---	---		3		24			
	7/8/1988	---	< 0.05	< 0.1	< 0.05	---	---	---		3	24	24			
	12/19/1988	---	< 0.05	---	---	< 0.05	---	---		24			24		
	1/31/1989	---	< 0.005	< 0.005	< 0.01	0.01	---	---		9	9	9	9		
	2/1/1989	---	0.11	0.1	0.03	0.03	---	---		8	8	8	8		
	7/18/1989	---	< 0.005	< 0.005	0.011	< 0.01	---	---		24	24	24	24		
	2/8/1990	---	< 0.005	< 0.005	0.22	0.23	---	---		24	24	24	24		
	7/17/1990	5.30	0.005	0.002	< 0.005	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	NS	---	---	---	< 0.005	---	---					24		
	July 1990	5.3	0.005	0.002	< 0.005	< 0.005	---	---	23	23	23	23	23		

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	9/27/1990	---	0.008	0.008	< 0.005	< 0.005	---	---		10, 12*	10, 12*	10	10		
	Sept. 1990	4.7	0.008	0.008	< 0.005	< 0.005	---	---	23	23	23	23	23		
	12/5/1990	NS	0.006	0.006	---	---	---	---	24	12	12				
	12/6/1990	4.70	0.006	0.006	< 0.005	< 0.005	---	---	24	10, 22	10, 22	10, 22	10, 22		
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	0.006	---	---	< 0.005	---	---	24	24			24		
	12/20/1990	NS	---	0.006	< 0.005	NS	---	---	24		24	24	24		
	1/24/1991	NS	---	NS	---	---	---	---	24		24				
	1/25/1991	NS	NS	---	NS	NS	---	---	24	24			24		
	Jan. 1991	---	0.006	0.006	< 0.005	< 0.005	---	---		23	23	23	23		
	3/7/1991	NS	---	---	---	---	---	---	24						
	3/8/1991	NS	0.009	0.005	---	< 0.005	---	---	24	12	10, 12		10		
	3/9/1991	4.20	0.009	0.005	< 0.005	---	---	---	10	10, 22	22	10, 22			
	3/10/1991	NS	---	0.005	---	< 0.005	---	---	24		24		24		
	March 1991	4.2	0.009	0.005	< 0.005	< 0.006	---	---	23	23	23	23	23		
	6/29/1991	4.70	0.016	0.018	---	---	---	---	24	12	12				
	6/30/1991	---	0.016	0.018	< 0.005	< 0.005	---	---		22	22	22	24		
	8/23/1991	4.50	0.006	0.002	---	---	---	---	24	12	12				
	8/25/1991	---	0.006	0.002	< 0.005	< 0.005	---	---		24	24	22	24		
	11/10/1991	4.40	0.012	0.009	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	24		
	2/22/1992	---	0.001	0.006	---	---	---	---		12	12				
	2/23/1992	4.30	---	---	< 0.005	<0.005	---	---	24			24	24		
	4/11/1992	---	< 0.002	0.003	---	---	---	---		12	12				
	4/12/1992	4.30	---	---	< 0.005	---	---	---	24			24			
	6/12/1992	---	0.004	< 0.002	---	---	---	---		12	12				
	6/14/1992	4.50	---	---	< 0.005	---	---	---	24			24			
	8/8/1992	---	0.005	---	---	---	---	---		12					
	8/9/1992	5.60	---	---	< 0.005	---	---	---	24			24			
	10/9/1992	---	0.007	---	---	---	---	---		12					
	10/11/1992	4.50	---	---	< 0.005	---	---	---	24			24			
	2/21/1993	4.70	0.004	0.004	---	---	---	---	24	11	11				
	4/25/1993	4.50	0.008	0.008	---	---	---	---	24	11	11				
	6/6/1993	5.00	0.007	0.006	---	---	---	---	24	11	11				
	8/8/1993	4.70	0.006	<0.002	---	---	---	---	24	11	11				
	10/8/1993	---	0.006	0.004	---	---	---	---		11	11				
	10/10/1993	3.80	0.006	0.004	---	---	---	---	24	24	24				
	12/12/1993	4.00	0.005	0.005	---	---	---	---	24	11	11				
	2/13/1994	4.80	0.007	0.007	---	---	---	---	24	24	24				
	4/17/1994	4.40	0.006	0.006	---	---	---	---	24	24	24				
	6/12/1994	4.00	0.012	0.003	---	---	---	---	24	24	24				
	8/28/1994	4.70	<0.001	<0.001	---	---	---	---	24	24	24				
	10/30/1994	4.00	0.013	0.008	---	---	---	---	24	24	24				
	1/29/1995	4.30	0.006	0.006	---	---	---	---	24	15	15				
	3/31/1995	---	0.009	0.004	---	---	---	---		15	15				
	5/21/1995	3.50	0.011	0.005	---	---	---	---	24	15	15				

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	7/30/1995	---	0.014	0.008	---	---	---	---		15	15				
	9/24/1995	3.50	0.009	0.018	---	---	---	---	24	15	15				
	11/19/1995	3.20	0.005	0.006	---	---	---	---	24	15	15				
	1/27/1996	4.20	0.004	0.006	---	---	---	---	24	14	14				
	3/31/1996	3.30	0.006	0.006	---	---	---	---	24	14	14				
	5/19/1996	3.20	0.004	0.007	---	---	---	---	24	14	14				
	7/21/1996	4.00	0.009	0.006	---	---	---	---	24	14	14				
	9/8/1996	3.60	0.007	0.005	---	---	---	---	24	14	14				
	11/10/1996	3.90	0.006	0.008	---	---	---	---	24	14	14				
	1/27/1997	3.60	0.008	0.008	---	---	---	---	24	13	13				
	3/15/1997	3.80	---	---	---	---	---	---	24						
	3/16/1997	---	0.006	0.006	---	---	---	---		13	13				
	5/18/1997	3.80	0.007	0.007	---	---	---	---	24	13	13				
	8/3/1997	3.89	0.009	0.003	---	---	---	---	24	13	13				
	9/28/1997	3.90	0.015	0.006	---	---	---	---	24	13	13				
	11/16/1997	3.59	0.007	0.008	---	---	---	---	24	13	13				
	3/29/1998	4.18	0.002	<0.002	---	---	---	---	17	17	17				
	5/17/1998	4.18	NS	NS	---	---	---	---	17	17	17				
	7/26/1998	NS	NS	NS	---	---	---	---	17	17	17				
	9/27/1998	3.81	< 0.001	< 0.001	---	---	---	---	17	17	17				
	11/22/1998	4.05	<0.005	<0.005	---	---	---	---	17	17	17				
	5/24/1999	NS	0.012	< 0.005	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	NS	< 0.005	< 0.005	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	NS	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	---	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	1/16/2000	---	---	---	---	---	---	---	19	19	19				
	4/9/2000	4.00	0.04	0.011	---	---	---	---	24	24	24				
	7/30/2000	3.73	0.028	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	NS	< 0.010	0.011	---	---	---	---	20	20	20				
	7/1/2001	---	< 0.010	< 0.010	---	---	---	---	20	20	20				
	8/12/2001	NS	0.012	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	NS	0.015	0.011	---	---	---	---	20	20	20				
	3/8/2002	NS	NS	NS	---	---	---	---	21	21	21				
	6/30/2002	NS	NS	NS	---	---	---	---	21	21	21				
	8/18/2002	NS	NS	NS	---	---	---	---	24	24	24				
	11/17/2002	3.80	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	4.02	0.008	0.016	---	---	---	---	24	24	24				
	6/26/2003	NS	NS	NS	---	---	---	---	24	24	24				
	7/18/2003	NS	DRY	DRY	---	---	---	---	24	24	24				
	12/22/2003	NS	DRY	DRY	---	---	---	---	24	24	24				
	3/31/2004	NS	DRY	DRY	---	---	---	---	24	24	24				
	3/20/2005	3.87	0.013	< 0.006	---	---	---	---	24	24	24				
	11/22/2005	NS	DRY	DRY	---	---	---	---	24	24	24				
B-3	5/20/1983	8.96	< 0.01	---	0.015	< 0.01	0.013	201	1	1,3		1,3	24	1	1
	9/16/1983	---	< 0.01	---	< 0.01	---	---	---		2,3		2,3			

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	5/22/1984	7.70	< 0.01	---	< 0.01	---	0.02	506	5	3,5		3,5		5	5
	12/20/1984	7.90	< 0.01	---	0.01	---	< 0.01	854	6	3,6		3,6		6	6
	7/23/1985	---	< 0.01	---	< 0.01	---	< 0.01	839		24		24		24	24
	4/25/1986	---	0.02	---	---	---	---	---		3					
	1/26/1987	---	0.07	---	< 0.01	---	---	---		24		24			
	8/17/1987	---	< 0.05	< 0.05	< 0.01	< 0.01	---	---		3	4	3	4		
	12/16/1987	---	< 0.01	---	NS	---	---	---		3		24			
	7/8/1988	---	< 0.05	< 0.1	< 0.05	---	---	---		3	24	24			
	12/19/1988	---	< 0.05	---	---	< 0.05	---	---		24			24		
	1/31/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/1/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/18/1989	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		24	24	24	24		
	9/27/1990	---	0.015	0.002	< 0.005	< 0.005	---	---		10,12*	10,12*	10	10		
	2/8/1990	---	0.19	< 0.005	0.07	< 0.01	---	---		24	24	24	24		
	7/17/1990	6.00	0.038	< 0.001	< 0.005	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	NS	---	---	---	---	---	---	24						
	July 1990	6	0.038	0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	9/27/1990	---	0.038	0.001	< 0.005	< 0.005	---	---		24	24	24	24		
	Sept. 1990	6.2	0.015	0.002	< 0.005	< 0.005	---	---	23	23	23	23	24		
	12/5/1990	NS	0.028	0.028	---	---	---	---	24	12	12				
	12/6/1990	6.20	0.028	0.028	< 0.005	< 0.005	---	---	24	10, 22	22	10, 22	22		
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	0.028	---	---	< 0.005	---	---	24	24			24		
	12/20/1990	NS	---	0.028	< 0.005	NS	---	---	24		24	24	24		
	1/24/1991	NS	---	NS	---	---	---	---	24		24				
	1/25/1991	NS	NS	---	NS	NS	---	---	24	24		24	24		
	Jan. 1991	---	0.028	0.028	< 0.005	< 0.005	---	---		23	23	23	23		
	3/7/1991	NS	0.016	< 0.001	---	---	---	---	24	12	12				
	3/8/1991	5.70	0.016	< 0.001	< 0.005	< 0.005	---	---	10	10, 22	10, 22	10, 22	10		
	3/9/1991	NS	---	---	< 0.005	---	---	---	24						
	3/10/1991	NS	---	< 0.001	---	< 0.005	---	---	24				24		
	March 1991	5.7	0.016	< 0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	6/29/1991	6.00	0.017	0.003	---	---	---	---	24	12	12				
	6/30/1991	---	0.017	0.003	< 0.005	< 0.005	---	---		22	22	22	24		
	8/23/1991	6.30	0.012	< 0.001	---	---	---	---	24	12	12				
	8/25/1991	---	0.012	< 0.001	< 0.005	< 0.005	---	---		22	22	22	24		
	11/10/1991	5.60	0.012	< 0.002	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	24		
	2/22/1992	---	0.007	0.002	---	---	---	---		12	12				
	2/23/1992	5.30	---	---	< 0.005	<0.005	---	---	24			24	24		
	4/11/1992	---	0.005	< 0.002	---	---	---	---		12	12				
	4/12/1992	5.50	---	---	< 0.005	---	---	---	24			24			
	6/12/1992	---	< 0.002	< 0.002	---	---	---	---		12	12				
	6/14/1992	5.90	---	---	< 0.005	---	---	---	24			24			
	8/8/1992	---	< 0.002	---	---	---	---	---		12					
	8/9/1992	6.70	---	---	< 0.005	---	---	---	24			24			

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Sample Data									References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	10/9/1992	---	DRY	---	---	---	---	---		12					
	10/11/1992	6.10	---	---	DRY	---	---	---	24			24			
	2/21/1993	6.40	0.006	< 0.002	---	---	---	---	24	11	11				
	4/25/1993	5.50	0.005	< 0.002	---	---	---	---	24	11	11				
	6/6/1993	6.70	0.004	0.008	---	---	---	---	24	11	11				
	8/8/1993	6.20	0.012	<0.002	---	---	---	---	24	11	11				
	10/8/1993	---	DRY	DRY	---	---	---	---		11	11				
	10/10/1993	NS	DRY	DRY	---	---	---	---	24	24	24				
	12/12/1993	5.30	0.007	<0.002	---	---	---	---	24	11	11				
	2/13/1994	6.20	0.009	0.005	---	---	---	---	24	24	24				
	4/17/1994	5.50	0.007	0.006	---	---	---	---	24	24	24				
	6/12/1994	6.30	0.006	<0.002	---	---	---	---	24	24	24				
	8/28/1994	5.20	0.004	<0.002	---	---	---	---	24	24	24				
	10/30/1994	5.00	0.019	<0.002	---	---	---	---	24	24	24				
	1/29/1995	6.20	0.002	<0.002	---	---	---	---	24	15	15				
	3/31/1995	---	0.002	<0.002	---	---	---	---		15	15				
	5/21/1995	5.80	0.006	<0.002	---	---	---	---	24	15	15				
	7/30/1995	---	0.008	<0.002	---	---	---	---		15	15				
	9/24/1995	4.80	NS	NS	---	---	---	---	24	15	15				
	11/19/1995	NS	NS	NS	---	---	---	---	24	15	15				
	1/27/1996	NS	NS	NS	---	---	---	---	24	14	14				
	3/31/1996	NS	DRY	DRY	---	---	---	---	24	14	14				
	5/19/1996	NS	NS	NS	---	---	---	---	24	24	24				
	7/21/1996	NS	DRY	DRY	---	---	---	---	24	24	24				
	9/8/1996	NS	NS	NS	---	---	---	---	24	14	14				
	11/10/1996	6.80	< 0.002	0.003	---	---	---	---	24	14	14				
	1/25/1997	5.90	< 0.002	< 0.002	---	---	---	---	24	13	13				
	1/27/1997	---	< 0.002	< 0.002	---	---	---	---		24	24				
	3/15/1997	5.70	---	---	---	---	---	---	24						
	3/16/1997	---	< 0.002	< 0.002	---	---	---	---		13	13				
	5/18/1997	5.80	0.003	< 0.002	---	---	---	---	24	13	13				
	8/3/1997	6.06	0.005	0.002	---	---	---	---	24	13	13				
	9/28/1997	6.05	0.003	< 0.002	---	---	---	---	24	13	13				
	11/16/1997	6.03	0.008	< 0.002	---	---	---	---	24	13	13				
	3/29/1998	5.69	0.003	<0.002	---	---	---	---	17	17	17				
	5/17/1998	5.69	< 0.002	< 0.002	---	---	---	---	17	17	17				
	7/26/1998	6.21	0.013	<0.002	---	---	---	---	17	17	17				
	9/27/1998	DRY	DRY	DRY	---	---	---	---	17	17	17				
	11/22/1998	5.74	<0.005	<0.005	---	---	---	---	17	17	17				
	5/24/1999	NS	0.0076	0.0077	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	NS	0.017	< 0.005	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	NS	NS	NS	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	DRY	DRY	DRY	---	---	---	---	18	18	18				
	1/16/2000	DRY	DRY	DRY	---	---	---	---	19	19	19				
	4/9/2000	5.62	< 0.010	< 0.010	---	---	---	---	24	24	24				

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Data Tables and Reference Guide

Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	7/30/2000	5.93	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	DRY	< 0.010	< 0.010	---	---	---	---	20	20	20				
	7/1/2001	DRY	< 0.010	< 0.010	---	---	---	---	20	20	20				
	8/12/2001	DRY	< 0.010	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	DRY	DRY	DRY	---	---	---	---	20	20	20				
	3/8/2002	DRY	0.014	< 0.010	---	---	---	---	21	21	21				
	6/30/2002	DRY	DRY	DRY	---	---	---	---	21	21	21				
	8/18/2002	NS	NS	NS	---	---	---	---	24	24	24				
	11/17/2002	6.10	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	5.79	0.006	0.008	---	---	---	---	24	24	24				
	6/26/2003	6.10	0.006	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	5.87	< 0.006	< 0.006	---	---	---	---	24	24	24				
	12/22/2003	NS	DRY	DRY	---	---	---	---	24	24	24				
	3/31/2004	5.87	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/20/2005	5.72	< 0.006	< 0.006	---	---	---	---	24	24	24				
	11/22/2005	NS	DRY	DRY	---	---	---	---	24	24	24				
B-4	5/20/1983	8.61	< 0.01	---	0.002	---	0.014	137	1	1,3		1,3		1	1
	9/16/1983	---	< 0.01	---	< 0.01	---	---	---		2,3		2,3			
	5/22/1984	8.00	< 0.01	---	0.01	---	< 0.01	410	5	3,5		3,5		5	5
	12/20/1984	8.20	< 0.01	---	< 0.01	---	< 0.01	247	6	3,6		3,6		6	6
	7/23/1985	---	< 0.01	---	< 0.01	---	< 0.01	839		24		24		24	24
	4/25/1986	---	< 0.05	---	---	---	---	---		3					
	1/26/1987	---	0.05	---	< 0.01	---	---	---		24		24			
	8/17/1987	---	< 0.05	< 0.05	< 0.01	< 0.01	---	---		3	4	3	4		
	12/16/1987	---	<0.01	---	< 0.01	---	---	---		3		24			
	7/8/1988	---	< 0.05	< 0.1	< 0.05	---	---	---		3	24	24			
	12/19/1988	---	< 0.05	---	---	< 0.05	---	---		24			24		
	1/31/1989	---	0.006	< 0.005	< 0.01	0.01	---	---		9	9	9	9		
	2/1/1989	---	< 0.02	< 0.02	< 0.01	< 0.01	---	---		8	8	8	8		
	7/18/1989	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		24	24	24	24		
	2/8/1990	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		24	24	24	24		
	7/17/1990	7.30	0.016	< 0.001	< 0.005	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	NS	---	---	---	< 0.005	---	---	24				24		
	July 1990	7.3	0.016	0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	9/27/1990	---	0.016	0.001	NS	NS	---	---		12	12	24	24		
	Sept. 1990	DRY	DRY	DRY	DRY	DRY	---	---	23	23	23	23	23		
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	DRY	DRY	DRY	---	---	---	---	24	12	12	24			
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	DRY	---	---	NS	---	---	24	24					
	12/20/1990	NS	---	DRY	NS	NS	---	---	24			24			
	1/24/1991	NS	---	NS	---	---	---	---	24						
	1/25/1991	NS	DRY	---	NS	NS	---	---	24	24		24			
	Jan. 1991	---	DRY	DRY	DRY	DRY	---	---		23	23	23	23		
	3/7/1991	NS	DRY	DRY	---	---	---	---		12	12	24			

Table A17-2
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Sample Data									References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	3/8/1991	DRY	DRY	---	NS	---	---	---	24	24		24			
	3/9/1991	NS	---	---	---	---	---	---	24						
	3/10/1991	NS	---	DRY	DRY	NS	---	---	24		24	24			
	March 1991	DRY	DRY	DRY	DRY	DRY	---	---	23	23	23	23	23		
	6/29/1991	6.40	DRY	DRY	NS	---	---	---	24	12	12	24			
	6/30/1991	---	---	---	---	DRY	---	---							
	8/23/1991	6.00	DRY	DRY	NS	---	---	---	24	12	12	24			
	8/25/1991	---	DRY	DRY	DRY	DRY	---	---		22	22	22	22		
	11/10/1991	NS	DRY	DRY	DRY	DRY	---	---	24	12, 22	12, 22	22	22		
	2/22/1992	---	DRY	DRY	DRY	---	---	---		12	12	24			
	2/23/1992	6.40	---	---	---	NS	---	---	24				24		
	4/11/1992	---	DRY	DRY	DRY	---	---	---		12	12	24			
	4/12/1992	6.00	---	---	---	---	---	---	24						
	6/12/1992	---	DRY	DRY	DRY	---	---	---		12	12	24			
	6/14/1992	6.30	---	---	---	---	---	---	24						
	8/8/1992	---	DRY	---	DRY	---	---	---		12		24			
	8/9/1992	NS	---	---	---	---	---	---	24						
	10/9/1992	---	DRY	---	---	---	---	---		12					
	10/11/1992	6.20	---	---	---	---	---	---	24						
	2/21/1993	7.80	DRY	DRY	---	---	---	---	24	11	11				
	4/25/1993	5.80	DRY	DRY	---	---	---	---	24	11	11				
	6/6/1993	6.40	DRY	DRY	---	---	---	---	24	11	11				
	8/8/1993	5.90	DRY	DRY	---	---	---	---	24	11	11				
	10/8/1993	NS	DRY	DRY	---	---	---	---	24	11	11				
	12/12/1993	5.50	DRY	DRY	---	---	---	---	24	11	11				
	2/13/1994	6.30	DRY	DRY	---	---	---	---	24	24	24				
	4/17/1994	6.20	DRY	DRY	---	---	---	---	24	24	24				
	6/12/1994	6.40	DRY	DRY	---	---	---	---	24	24	24				
	8/28/1994	NS	DRY	DRY	---	---	---	---	24	24	24				
	10/30/1994	NS	DRY	DRY	---	---	---	---	24	24	24				
	1/29/1995	6.90	NS	NS	---	---	---	---	24	15	15				
	3/31/1995	---	0.01	< 0.002	---	---	---	---		15	15				
	5/21/1995	6.20	0.01	0.004	---	---	---	---	24	15	15				
	7/30/1995	---	NS	NS	---	---	---	---		15	15				
	9/24/1995	NS	NS	NS	---	---	---	---	24	15	15				
	11/19/1995	NS	NS	NS	---	---	---	---	24	15	15				
	1/27/1996	NS	NS	NS	---	---	---	---	24	14	14				
	3/31/1996	NS	DRY	DRY	---	---	---	---	24	14	14				
	5/19/1996	NS	DRY	NS	---	---	---	---	24	24	24				
	7/21/1996	NS	DRY	DRY	---	---	---	---	24	24	24				
	9/8/1996	NS	NS	NS	---	---	---	---	24	14	14				
	11/10/1996	NS	NS	NS	---	---	---	---	24	14	14				
	1/25/1997	NS	NS	NS	---	---	---	---	24	13	13				
	1/27/1997	---	DRY	DRY	---	---	---	---		24	24				
	3/15/1997	6.60	---	---	---	---	---	---	24						

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	3/16/1997	---	0.016	< 0.002	---	---	---	---		13	13				
	5/18/1997	6.60	0.024	0.008	---	---	---	---	24	13	13				
	8/3/1997	NS	NS	NS	---	---	---	---	24	13	13				
	9/28/1997	NS	NS	NS	---	---	---	---	24	13	13				
	11/16/1997	NS	NS	NS	---	---	---	---	24	13	13				
	3/29/1998	7.13	0.009	<0.002	---	---	---	---	17	17	17				
	5/17/1998	7.13	NS	NS	---	---	---	---	17	17	17				
	7/26/1998	NS	NS	NS	---	---	---	---	17	17	17				
	9/27/1998	DRY	DRY	DRY	---	---	---	---	17	17	17				
	11/22/1998	5.55	0.025	0.0064	---	---	---	---	17	17	17				
	5/24/1999	4.13	NS	NS	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	4.10	NS	NS	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	3.10	NS	NS	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	3.96	---	---	---	---	---	---	18	18	18				
	1/16/2000	DRY	DRY	DRY	---	---	---	---	19	19	19				
	4/9/2000	5.86	0.056	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	NS	DRY	NS	---	---	---	---	24	24	24				
	3/23/2001	3.81	< 0.010	0.02	---	---	---	---	20	20	20				
	7/1/2001	4.30	---	---	---	---	---	---	20	20	20				
	8/12/2001	4.00	---	---	---	---	---	---	20	20	20				
	11/4/2001	3.90	---	---	---	---	---	---	20	20	20				
	3/8/2002	DRY	DRY	DRY	---	---	---	---	21	21	21				
	6/30/2002	DRY	DRY	DRY	---	---	---	---	21	21	21				
	8/18/2002	NS	DRY	NS	---	---	---	---	24	24	24				
	11/17/2002	NS	DRY	NS	---	---	---	---	24	24	24				
	3/27/2003	NS	DRY	NS	---	---	---	---	24	24	24				
	6/26/2003	NS	DRY	NS	---	---	---	---	24	24	24				
	7/18/2003	NS	DRY	DRY	---	---	---	---	24	24	24				
	12/22/2003	NS	DRY	DRY	---	---	---	---	24	24	24				
	3/31/2004	6.61	0.034	< 0.006	---	---	---	---	24	24	24				
	3/20/2005	NS	DRY	NS	---	---	---	---	24	24	24				
	11/22/2005	NS	DRY	DRY	---	---	---	---	24	24	24				
B-5	5/20/1983	7.27	< 0.01	---	0.007	---	0.002	214	1	1,3		1,3		1	1
	9/16/1983	---	< 0.01	---	< 0.01	---	---	---		2,3		2,3			
	5/22/1984	6.70	< 0.01	---	0.03	---	< 0.01	874	5	3,5		3,5		5	5
	12/20/1984	6.80	0.02	---	0.01	---	< 0.01	464	6	3,6		3,6		6	6
	7/23/1985	---	< 0.01	---	< 0.01	---	< 0.01	640		24		24		24	24
	4/25/1986	---	0.03	---	---	---	---	---		3					
	1/26/1987	---	0.14	---	< 0.01	---	---	---		24		24			
	8/17/1987	---	< 0.05	< 0.05	< 0.01	< 0.01	---	---		3	4	3	4		
	12/16/1987	---	< 0.01	---	< 0.01	---	---	---		3		24			
	7/8/1988	---	< 0.05	< 0.1	< 0.05	---	---	---		3	24	24			
	12/19/1988	---	< 0.05	---	---	< 0.05	---	---		24			24		
	1/31/1989	---	0.01	< 0.005	0.02	0.01	---	---		9	9	9	9		
	2/1/1989	---	0.03	< 0.02	< 0.01	< 0.01	---	---		8	8	8	8		

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	7/18/1989	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		24	24	24	24		
	2/8/1990	---	0.042	< 0.005	< 0.01	< 0.01	---	---		24	24	24	24		
	7/17/1990	6.80	0.001	0.001	< 0.005	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	NS	---	---	---	< 0.005	---	---	24				24		
	July 1990	6.80	0.001	0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	9/26/1990	---	0.031	0.004	< 0.005	< 0.005	---	---		10, 12*	10, 12*	10	10		
	9/27/1990	---	0.001	0.001	< 0.005	< 0.005	---	---		24	24	24	24		
	Sept. 1990	7.1	0.031	0.004	< 0.005	< 0.005	---	---	23	23	23	23	23		
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	NS	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	NS	---	---	NS	---	---	24	24			24		
	12/20/1990	NS	---	NS	NS	NS	---	---	24				24		
	1/24/1991	7.10	0.01	< 0.001	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	22		
	1/25/1991	NS	0.01	---	< 0.005	< 0.005	---	---	24	24		24	24		
	Jan. 1991	---	0.01	0.01	< 0.005	< 0.005	---	---		23	23	23	23		
	3/7/1991	6.50	0.02	< 0.001	< 0.005	< 0.005	---	---	10	10, 12, 22	10, 12, 22	10, 22	10		
	3/8/1991	NS	0.02	---	---	---	---	---	24	24					
	3/9/1991	NS	---	---	NS	---	---	---	24			24			
	3/10/1991	NS	---	< 0.001	---	< 0.005	---	---	24		24		24		
	March 1991	6.5	0.02	< 0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	6/29/1991	7.10	0.015	0.008	< 0.005	---	---	---		12, 22	12, 22	22			
	6/30/1991	---	---	---	< 0.005	< 0.005	---	---				24	24		
	8/23/1991	6.90	0.023	0.001	---	---	---	---	24	12	12				
	8/24/1991	---	0.023	0.001	< 0.005	< 0.005	---	---		22	22	22	24		
	11/10/1991	7.40	0.037	< 0.002	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	24		
	2/22/1992	---	0.03	< 0.002	---	---	---	---		12	12				
	2/23/1992	6.90	---	---	< 0.005	<0.005	---	---	24			24	24		
	4/11/1992	---	0.003	< 0.002	---	---	---	---		12	12				
	4/12/1992	6.80	---	---	< 0.005	---	---	---	24			24			
	6/12/1992	---	0.004	< 0.002	---	---	---	---		12	12				
	6/14/1992	7.00	---	---	< 0.005	---	---	---	24			24			
	8/8/1992	---	< 0.002	---	---	---	---	---		12					
	8/9/1992	7.20	---	---	< 0.005	---	---	---	24			24			
	10/9/1992	---	< 0.002	---	---	---	---	---		12					
	10/11/1992	6.80	---	---	< 0.005	---	---	---	24			24			
	2/21/1993	6.90	0.008	0.003	---	---	---	---	24	11	11				
	4/25/1993	7.00	0.005	0.005	---	---	---	---	24	11	11				
	6/6/1993	6.30	0.013	0.004	---	---	---	---	24	11	11				
	8/8/1993	6.80	0.011	0.006	---	---	---	---	24	11	11				
	10/8/1993	6.90	0.014	<0.002	---	---	---	---	24	11	11				
	12/12/1993	6.50	0.016	0.003	---	---	---	---	24	11	11				
	2/13/1994	7.30	0.01	<0.002	---	---	---	---	24	24	24				
	4/17/1994	7.80	0.016	0.004	---	---	---	---	24	24	24				
	6/12/1994	6.70	0.027	0.003	---	---	---	---	24	24	24				

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Sample Data									References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	8/28/1994	6.70	0.015	<0.002	---	---	---	---	24	24	24				
	10/30/1994	6.70	0.01	0.004	---	---	---	---	24	24	24				
	1/29/1995	7.00	0.003	<0.002	---	---	---	---	24	15	15				
	3/31/1995	---	0.005	<0.003	---	---	---	---		15	15				
	5/21/1995	6.70	0.004	<0.002	---	---	---	---	24	15	15				
	7/30/1995	---	0.007	0.006	---	---	---	---		15	15				
	9/24/1995	6.20	<0.002	0.008	---	---	---	---	24	15	15				
	11/19/1995	6.70	0.003	<0.002	---	---	---	---	24	15	15				
	1/27/1996	7.30	< 0.002	< 0.002	---	---	---	---	24	14	14				
	3/31/1996	7.10	0.003	< 0.002	---	---	---	---	24	14	14				
	5/19/1996	6.60	< 0.002	0.005	---	---	---	---	24	14	14				
	7/21/1996	6.40	< 0.002	< 0.002	---	---	---	---	24	14	14				
	9/8/1996	6.30	< 0.002	0.002	---	---	---	---	24	14	14				
	11/10/1996	6.90	< 0.002	0.002	---	---	---	---	24	14	14				
	1/25/1997	7.00	< 0.002	< 0.002	---	---	---	---	24	24	24				
	1/27/1997	---	< 0.002	< 0.002	---	---	---	---		13	13				
	3/15/1997	6.60	---	---	---	---	---	---	24						
	3/16/1997	---	< 0.002	< 0.002	---	---	---	---		13	13				
	5/18/1997	6.70	0.002	< 0.002	---	---	---	---	24	13	13				
	8/3/1997	6.74	0.005	0.002	---	---	---	---	24	13	13				
	9/28/1997	6.79	< 0.002	< 0.002	---	---	---	---	24	13	13				
	11/16/1997	6.65	0.005	< 0.002	---	---	---	---	24	13	13				
	3/29/1998	6.68	0.003	<0.002	---	---	---	---	17	17	17				
	5/17/1998	6.68	< 0.002	< 0.002	---	---	---	---	17	17	17				
	7/26/1998	6.71	0.006	< 0.002	---	---	---	---	17	17	17				
	9/27/1998	6.71	< 0.001	< 0.001	---	---	---	---	17	17	17				
	11/22/1998	6.42	0.049	0.0053	---	---	---	---	17	17	17				
	5/24/1999	5.99	0.011	< 0.005	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	6.00	0.016	0.0068	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	NS	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	DRY	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	1/16/2000	DRY	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	6.64	< 0.010	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	6.53	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	6.01	< 0.010	< 0.010	---	---	---	---	20	20	20				
	7/1/2001	6.07	< 0.010	< 0.010	---	---	---	---	20	20	20				
	8/12/2001	6.13	< 0.010	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	DRY	< 0.010	< 0.010	---	---	---	---	20	20	20				
	3/8/2002	5.63	0.01	< 0.010	---	---	---	---	21	21	21				
	6/30/2002	5.93	---	---	---	---	---	---	21	21	21				
	8/18/2002	6.60	< 0.010	< 0.010	---	---	---	---	24	24	24				
	11/17/2002	6.90	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	6.77	< 0.006	0.009	---	---	---	---	24	24	24				
	6/26/2003	6.81	< 0.006	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	6.65	0.006	< 0.006	---	---	---	---	24	24	24				

Table A17-2
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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	12/22/2003	6.77	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/31/2004	6.15	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/20/2005	6.43	< 0.006	< 0.006	---	---	---	---	24	24	24				
	11/22/2005	NS	NS	NS	---	---	---	---	24	24					
B-6	5/20/1983	7	0.07	---	0.006	---	0.004	1010	1	1,3		1,3		1	1
	9/16/1983	---	< 0.01	---	< 0.01	---	---	---		2,3		2,3			
	5/22/1984	6.50	0.02	---	< 0.01	---	0.01	1195	5	3,5		3,5		5	5
	12/20/1984	6.50	0.05	---	0.02	---	0.01	625	6	3,6		3,6		6	6
	7/23/1985	---	< 0.01	---	< 0.01	---	< 0.01	1421		24		24		24	24
	4/25/1986	---	0.07	---	---	---	---	---		3					
	1/26/1987	---	0.11	---	< 0.01	---	---	---		24		24			
	8/17/1987	---	< 0.05	< 0.05	< 0.01	< 0.01	---	---		3	4	3	4		
	12/16/1987	---	< 0.01	---	< 0.01	---	---	---		3		24			
	7/8/1988	---	< 0.05	< 0.1	< 0.05	---	---	---		3	24	24			
	12/19/1988	---	< 0.05	---	---	< 0.05	---	---		24			24		
	1/31/1989	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		9	9	9	9		
	2/1/1989	---	< 0.02	< 0.02	< 0.01	< 0.01	---	---		8	8	8	8		
	7/18/1989	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		24	24	24	24		
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/17/1990	NS	NS	NS	NS	---	---	---	24	24	24	24			
	7/18/1990	NS	---	---	---	NS	---	---	24				24		
	9/27/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	NS	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	NS	---	---	NS	---	---	24	24			24		
	12/20/1990	NS	---	NS	NS	NS	---	---	24		24	24	24		
	1/24/1991	NS	---	NS	---	---	---	---	24		24				
	1/25/1991	NS	NS	---	NS	NS	---	---	24	24		24	24		
	3/7/1991	NS	---	---	---	---	---	---	24						
	3/8/1991	NS	NS	---	---	---	---	---	24	24					
	3/9/1991	NS	---	---	NS	---	---	---	24			24			
	3/10/1991	NS	---	NS	---	NS	---	---	24		24		24		
	6/29/1991	NS	NS	NS	---	---	---	---	24	24	24				
	6/30/1991	---	---	---	NS	NS	---	---				24	24		
	8/23/1991	NS	NS	NS	---	---	---	---	24	24	24				
	8/25/1991	---	---	---	NS	NS	---	---				24	24		
	11/10/1991	NS	NS	NS	NS	NS	---	---	24	24	24	24	24		
	2/22/1992	---	NS	NS	---	---	---	---		24	24				
	2/23/1992	NS	---	---	NS	NS	---	---	24			24	24		
	4/11/1992	---	NS	NS	---	---	---	---		24	24				
	4/12/1992	NS	---	---	NS	---	---	---	24			24			
	6/12/1992	---	NS	NS	---	---	---	---		24	24				
	6/14/1992	NS	---	---	NS	---	---	---	24			24			
	8/8/1992	---	NS	---	---	---	---	---		24					

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	8/9/1992	NS	---	---	NS	---	---	---	24			24			
	10/9/1992	---	NS	---	---	---	---	---		24					
	10/11/1992	NS	---	---	NS	---	---	---	24			24			
	2/21/1993	NS	NS	NS	---	---	---	---	24	24	24				
	4/25/1993	NS	NS	NS	---	---	---	---	24	24	24				
	6/6/1993	NS	NS	NS	---	---	---	---	24	24	24				
	8/8/1993	NS	NS	NS	---	---	---	---	24	24	24				
	10/10/1993	NS	NS	NS	---	---	---	---	24	24	24				
	12/12/1993	NS	NS	NS	---	---	---	---	24	24	24				
	2/13/1994	NS	NS	NS	---	---	---	---	24	24	24				
	4/17/1994	NS	NS	NS	---	---	---	---	24	24	24				
	6/12/1994	NS	NS	NS	---	---	---	---	24	24	24				
	8/28/1994	NS	NS	NS	---	---	---	---	24	24	24				
	10/30/1994	NS	NS	NS	---	---	---	---	24	24	24				
	1/29/1995	NS	NS	NS	---	---	---	---	24	24	24				
	5/21/1995	NS	NS	NS	---	---	---	---	24	24	24				
	7/30/1995	---	NS	NS	---	---	---	---		24	24				
	9/24/1995	NS	NS	NS	---	---	---	---	24	24	24				
	11/19/1995	NS	NS	NS	---	---	---	---	24	24	24				
	1/27/1996	NS	NS	NS	---	---	---	---	24	24	24				
	3/31/1996	NS	NS	NS	---	---	---	---	24	24	24				
	5/19/1996	NS	NS	NS	---	---	---	---	24	24	24				
	7/21/1996	NS	NS	NS	---	---	---	---	24	24	24				
	9/8/1996	NS	NS	NS	---	---	---	---	24	24	24				
	11/10/1996	NS	NS	NS	---	---	---	---	24	24	24				
	1/25/1997	NS	---	---	---	---	---	---	24						
	1/27/1997	---	NS	NS	---	---	---	---		24	24				
	3/15/1997	NS	---	---	---	---	---	---	24						
	3/16/1997	---	NS	NS	---	---	---	---		24	24				
	5/18/1997	NS	NS	NS	---	---	---	---	24	24	24				
	8/3/1997	NS	NS	NS	---	---	---	---	24	24	24				
	9/28/1997	NS	NS	NS	---	---	---	---	24	24	24				
	11/16/1997	NS	NS	NS	---	---	---	---	24	24	24				
	3/29/1998	NS	NS	NS	---	---	---	---	24	24	24				
	5/17/1998	NS	< 0.002	NS	---	---	---	---	24	24	24				
	7/26/1998	NS	NS	NS	---	---	---	---	24	24	24				
	11/22/1998	NS	NS	NS	---	---	---	---	24	24	24				
	5/24/1999	NS	NS	NS	---	---	---	---	24	24	24				
	7/29/1999	NS	NS	NS	---	---	---	---	24	24	24				
	10/3/1999	NS	NS	NS	---	---	---	---	24	24	24				
	11/14/1999	NS	NS	NS	---	---	---	---	24	24	24				
	1/16/2000	NS	NS	NS	---	---	---	---	24	24	24				
	4/9/2000	NS	NS	NS	---	---	---	---	24	24	24				
	7/30/2000	NS	NS	NS	---	---	---	---	24	24	24				
	3/23/2001	NS	NS	NS	---	---	---	---	24	24	24				

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Sample Data																
									References							
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	7/1/2001	NS	NS	NS	---	---	---	---	24	24	24				
	8/12/2001	NS	NS	NS	---	---	---	---	24	24	24				
	11/4/2001	NS	NS	NS	---	---	---	---	24	24	24				
	3/8/2002	NS	NS	NS	---	---	---	---	24	24	24				
	6/30/2002	NS	NS	NS	---	---	---	---	24	24	24				
	8/18/2002	NS	NS	NS	---	---	---	---	24	24	24				
	11/17/2002	NS	NS	NS	---	---	---	---	24	24	24				
	3/27/2003	NS	NS	NS	---	---	---	---	24	24	24				
	6/26/2003	NS	NS	NS	---	---	---	---	24	24	24				
	7/18/2003	NS	NS	NS	---	---	---	---	24	24	24				
	12/22/2003	NS	NS	NS	---	---	---	---	24	24	24				
	3/31/2004	NS	NS	NS	---	---	---	---	24	24	24				
	3/20/2005	NS	NS	NS	---	---	---	---	24	24	24				
	11/22/2005	NS	NS	NS	---	---	---	---	24	24	24				
B-7	5/20/1983	7.48	< 0.01	---	0.004	---	0.002	906	1	1,3		1,3		1	1
	9/16/1983	---	< 0.01	---	< 0.01	---	---	---		2,3		2,3			
	5/22/1984	7.30	< 0.01	---	< 0.01	---	< 0.01	675	5	3,5		3,5		5	5
	12/20/1984	7.10	< 0.01	---	< 0.01	---	< 0.01	412	6	3,6		3,6		6	6
	7/23/1985	---	< 0.01	---	< 0.01	---	< 0.01	262		24		24		24	24
	4/25/1986	---	0.02	---	---	---	---	---		3					
	1/26/1987	---	0.06	---	< 0.01	---	---	---		24		24			
	8/17/1987	---	< 0.05	< 0.05	< 0.01	< 0.01	---	---		3	4	3	4		
	12/16/1987	---	< 0.01	---	< 0.01	---	---	---		3		24			
	7/8/1988	---	< 0.05	< 0.1	< 0.05	---	---	---		3	24	24			
	12/19/1988	---	< 0.05	---	---	< 0.05	---	---		24			24		
	1/31/1989	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		9	9	9	9		
	2/1/1989	---	< 0.02	< 0.02	< 0.01	< 0.01	---	---		8	8	8	8		
	7/18/1989	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		24	24	24	24		
	2/8/1990	---	< 0.005	< 0.005	0.04	< 0.01	---	---		24	24	24	24		
	7/17/1990	NS	0.018	< 0.001	< 0.005	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	7.00	---	---	---	< 0.005	---	---	24				24		
	July 1990	7.00	0.018	0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	9/21/1990	---	0.055	0.003	< 0.005	< 0.005	---	---		10, 12*	10, 12*	10	10		
	9/27/1990	---	0.018	0.001	< 0.005	< 0.005	---	---		24	24	24	24		
	Sept. 1990	7.1	0.065	0.003	< 0.005	< 0.005	---	---	23	23	23	23	23		
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	NS	---	0.002	---	< 0.005	---	---	24		10		10		
	12/12/1990	NS	0.005	0.002	---	---	---	---	24	12	12				
	12/13/1990	7.10	0.005	0.002	< 0.005	< 0.005	---	---	24	22	22	22	22		
	12/20/1990	NS	---	0.002	< 0.005	NS	---	---	24		24	24	24		
	1/24/1991	NS	---	NS	---	---	---	---	24		24				
	1/25/1991	NS	NS	---	NS	NS	---	---	24	24		24	24		
	Jan. 1991	---	0.002	0.005	< 0.005	< 0.005	---	---		23	23	23	23		
	3/7/1991	NS	---	---	---	---	---	---	24						
	3/8/1991	NS	0.006	< 0.001	---	---	---	---	24	12	12				

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	3/9/1991	6.50	0.006	< 0.001	< 0.005	< 0.005	---	---	10	10, 22	10, 22	10, 22	10		
	3/10/1991	NS	---	< 0.001	---	< 0.005	---	---	24		24		24		
	March 1991	6.5	0.006	< 0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	6/29/1991	7.10	0.014	< 0.001	---	---	---	---	24	12	12				
	6/30/1991	---	0.014	< 0.001	< 0.005	< 0.005	---	---		22	22	22	24		
	8/23/1991	NS	NS	NS	---	---	---	---	24	12	12				
	8/25/1991	---	---	---	< 0.005	NS	---	---				22	24		
	11/10/1991	NS	NS	NS	NS	NS	---	---	24	12, 22	12, 22	22	22		
	2/22/1992	---	NS	NS	---	---	---	---		12	12				
	2/23/1992	NS	---	---	NS	NS	---	---	24			24	24		
	4/11/1992	---	NS	NS	---	---	---	---		12	12				
	4/12/1992	NS	---	---	NS	---	---	---	24			24			
	6/12/1992	---	NS	NS	---	---	---	---		12	12				
	6/14/1992	NS	---	---	NS	---	---	---	24			24			
	8/8/1992	---	NS	0.005	---	---	---	---		12	24				
	8/9/1992	NS	---	---	NS	---	---	---	24			24			
	10/9/1992	---	NS	---	---	---	---	---		12					
	10/11/1992	NS	---	---	NS	---	---	---	24			24			
	2/21/1993	6.00	0.005	0.005	---	---	---	---	24	11	11				
	4/25/1993	6.40	0.008	0.003	---	---	---	---	24	11	11				
	6/6/1993	7.60	0.005	0.005	---	---	---	---	24	11	11				
	8/8/1993	6.10	0.008	0.007	---	---	---	---	24	11	11				
	10/8/1993	6.00	0.006	<0.002	---	---	---	---	24	11	11				
	12/12/1993	6.00	0.007	0.004	---	---	---	---	24	11	11				
	2/13/1994	6.30	0.007	0.004	---	---	---	---	24	24	24				
	4/17/1994	6.50	0.005	0.004	---	---	---	---	24	24	24				
	6/12/1994	5.60	0.011	0.004	---	---	---	---	24	24	24				
	8/28/1994	5.90	0.005	<0.002	---	---	---	---	24	24	24				
	10/30/1994	6.10	0.013	0.003	---	---	---	---	24	24	24				
	1/29/1995	6.20	0.028	0.002	---	---	---	---	24	15	15				
	3/31/1995	---	0.005	0.003	---	---	---	---		15	15				
	5/21/1995	6.10	<0.002	0.005	---	---	---	---	24	24	24				
	7/30/1995	---	<0.002	<0.002	---	---	---	---		15	15				
	9/24/1995	6.10	<0.002	0.012	---	---	---	---	24	15	15				
	11/19/1995	6.10	<0.002	<0.002	---	---	---	---	24	15	15				
	1/27/1996	6.40	< 0.002	< 0.002	---	---	---	---	24	14	14				
	3/31/1996	6.70	0.004	0.005	---	---	---	---	24	14	14				
	5/19/1996	6.10	< 0.002	0.004	---	---	---	---	24	14	14				
	7/21/1996	5.60	< 0.002	0.003	---	---	---	---	24	14	14				
	9/8/1996	6.70	0.003	< 0.002	---	---	---	---	24	14	14				
	11/10/1996	6.50	0.004	0.004	---	---	---	---	24	14	14				
	1/25/1997	6.30	0.004	< 0.002	---	---	---	---	24	13	13				
	1/27/1997	---	0.004	< 0.002	---	---	---	---		24	24				
	3/15/1997	5.80	---	---	---	---	---	---	24						
	3/16/1997	---	< 0.002	< 0.002	---	---	---	---		13	13				

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Sample Data									References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	5/18/1997	5.80	0.004	0.003	---	---	---	---	24	13	13				
	8/3/1997	5.65	0.004	0.003	---	---	---	---	24	13	13				
	9/28/1997	5.71	< 0.002	0.003	---	---	---	---	24	13	13				
	11/16/1997	5.85	0.002	< 0.002	---	---	---	---	24	13	13				
	3/29/1998	6.05	<0.002	<0.002	---	---	---	---	17	17	17				
	5/17/1998	6.05	0.002	0.002	---	---	---	---	17	17	17				
	7/26/1998	5.76	<0.002	0.002	---	---	---	---	17	17	17				
	9/27/1998	5.64	< 0.001	< 0.001	---	---	---	---	17	17	17				
	11/22/1998	5.67	0.0054	0.0053	---	---	---	---	17	17	17				
	5/24/1999	NS	0.013	0.01	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	NS	0.012	0.012	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	NS	0.015	< 0.010	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	DRY	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	1/16/2000	DRY	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	6.20	< 0.010	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	5.85	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	5.79	< 0.010	< 0.010	---	---	---	---	20	20	20				
	7/1/2001	NS	< 0.010	< 0.010	---	---	---	---	20	20	20				
	8/12/2001	DRY	< 0.010	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	DRY	< 0.010	< 0.010	---	---	---	---	20	20	20				
	3/8/2002	DRY	< 0.010	< 0.010	---	---	---	---	21	21	21				
	6/30/2002	DRY	DRY	DRY	---	---	---	---	21	21	21				
	8/18/2002	5.57	< 0.010	< 0.010	---	---	---	---		24	24				
	11/17/2002	5.90	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	5.91	< 0.006	0.012	---	---	---	---	24	24	24				
	6/26/2003	5.80	0.006	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	5.75	< 0.006	< 0.006	---	---	---	---	24	24	24				
	12/22/2003	5.93	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/31/2004	6.07	< 0.006	0.008	---	---	---	---	24	24	24				
	3/20/2005	5.59	< 0.006	< 0.006	---	---	---	---	24	24	24				
	11/22/2005	5.67	< 0.006	< 0.006	---	---	---	---	24	24	24				
B-8	5/20/1983	---	NS	---	NS	---	---	---		24		24			
	9/16/1983	---	NS	---	NS	---	---	---		24		24			
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24		24		24	24
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24		24			
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24	24			
	12/16/1987	---	< 0.01	---	< 0.01	---	---	---		3		24			
	7/8/1988	---	< 0.05	< 0.1	NS	---	---	---		3	24	24			
	12/19/1988	---	< 0.05	---	---	< 0.05	---	---					24		
	1/31/1989	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		9	9	9	9		
	2/1/1989	---	0.03	0.02	< 0.01	< 0.01	---	---		8	8	8	8		
	7/18/1989	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		24	24	24	24		

Table A17-2
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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/17/1990	NS	0.005	0.022	< 0.005	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	3.50	---	---	---	< 0.005	---	---	24				24		
	July 1990	3.5	0.005	0.022	< 0.005	< 0.005	---	---	23	23	23	23	23		
	9/27/1990	---	0.012	0.005	< 0.005	< 0.005	---	---		10, 12*	10, 12*	10	10		
	Sept. 1990	6.1	0.012	0.005	< 0.005	< 0.005	---	---	23	23	23	23	23		
	12/5/1990	NS	0.004	0.004	---	---	---	---	24	12	12				
	12/6/1990	6.10	0.004	0.004	< 0.005	< 0.005	---	---	24	10, 22	10, 22	10, 22	10, 22		
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	0.004	---	---	< 0.005	---	---	24	24			24		
	12/20/1990	NS	---	0.004	< 0.005	NS	---	---	24		24	24	24		
	1/24/1991	NS	---	NS	---	---	---	---	24		24				
	1/25/1991	NS	NS	---	NS	NS	---	---	24	24		24	24		
	Jan. 1991	---	0.004	0.004	< 0.005	< 0.005	---	---		23	23	23	23		
	3/7/1991	NS	0.004	0.001	---	---	---	---	24	12	12				
	3/8/1991	6.40	0.004	0.001	< 0.005	< 0.005	---	---	10	10, 22	10, 22	10, 22	10		
	3/9/1991	NS	---	---	< 0.005	---	---	---	24			24			
	3/10/1991	NS	---	0.001	---	< 0.005	---	---	24				24		
	March 1991	6.4	0.004	0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	6/29/1991	6.70	0.002	< 0.001	---	---	---	---	24	12	12				
	6/30/1991	---	0.002	< 0.001	< 0.005	< 0.005	---	---		22	22	22	24		
	8/23/1991	4.80	0.001	< 0.001	---	---	---	---	24	12	12				
	8/25/1991	---	0.001	< 0.001	< 0.005	< 0.005	---	---		22	22	22	24		
	11/10/1991	6.20	0.007	< 0.002	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	24		
	2/22/1992	---	0.006	< 0.002	---	---	---	---		12	12				
	2/23/1992	6.30	---	---	< 0.005	<0.005	---	---	24			24	24		
	4/11/1992	---	< 0.002	< 0.002	---	---	---	---		12	12				
	4/12/1992	6.00	---	---	< 0.005	---	---	---	24			24			
	6/12/1992	---	0.004	< 0.002	---	---	---	---		12	12				
	6/14/1992	6.10	---	---	< 0.005	---	---	---	24			24			
	8/8/1992	---	0.003	---	---	---	---	---		12					
	8/9/1992	6.00	---	---	< 0.005	---	---	---	24			24			
	10/9/1992	---	< 0.002	---	---	---	---	---		12					
	10/11/1992	5.60	---	---	< 0.005	---	---	---	24			24			
	2/21/1993	6.50	0.011	0.008	---	---	---	---	24	11	11				
	4/25/1993	6.90	0.004	< 0.002	---	---	---	---	24	11	11				
	6/6/1993	6.60	0.007	0.003	---	---	---	---	24	11	11				
	8/8/1993	6.00	0.009	0.004	---	---	---	---	24	11	11				
	10/8/1993	6.50	0.004	<0.002	---	---	---	---	24	11	11				
	12/12/1993	7.00	0.009	0.009	---	---	---	---	24	11	11				
	2/13/1994	8.00	0.011	0.004	---	---	---	---	24	24	24				
	4/17/1994	NS	DRY	DRY	---	---	---	---	24	24	24				
	6/12/1994	NS	DRY	DRY	---	---	---	---	24	24	24				
	8/28/1994	NS	DRY	DRY	---	---	---	---	24	24	24				
	10/30/1994	NS	DRY	DRY	---	---	---	---	24	24	24				

Table A17-2
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Sample Data									References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	1/29/1995	NS	NS	NS	---	---	---	---	24	15	15				
	3/31/1995	---	NS	NS	---	---	---	---		15	15				
	5/21/1995	NS	NS	NS	---	---	---	---	24	15	15				
	7/30/1995	---	NS	NS	---	---	---	---		15	15				
	9/24/1995	NS	NS	NS	---	---	---	---	24	15	15				
	11/19/1995	NS	NS	NS	---	---	---	---	24	15	15				
	1/27/1996	NS	NS	NS	---	---	---	---	24	14	14				
	3/31/1996	NS	NS	NS	---	---	---	---	24	14	14				
	5/19/1996	5.10	0.004	0.006	---	---	---	---	24	14	14				
	7/21/1996	4.10	0.005	0.003	---	---	---	---	24	14	14				
	9/8/1996	NS	NS	NS	---	---	---	---	24	14	14				
	11/10/1996	NS	NS	NS	---	---	---	---	24	14	14				
	1/25/1997	NS	NS	NS	---	---	---	---	24	13	13				
	1/27/1997	---	NS	NS	---	---	---	---		24	24				
	3/15/1997	NS	---	---	---	---	---	---	24						
	3/16/1997	---	NS	NS	---	---	---	---		13	13				
	5/18/1997	6.70	NS	NS	---	---	---	---	24	13	13				
	8/3/1997	6.49	0.003	0.002	---	---	---	---	24	13	13				
	9/28/1997	NS	NS	NS	---	---	---	---	24	13	13				
	11/9/1997	5.96	0.003	0.003	---	---	---	---	24	13	13				
	3/29/1998	6.51	<0.002	<0.002	---	---	---	---	17	17	17				
	5/17/1998	6.51	< 0.002	< 0.002	---	---	---	---	17	17	17				
	7/26/1998	NS	NS	NS	---	---	---	---	17	17	17				
	9/27/1998	NS	NS	NS	---	---	---	---	17	17	17				
	11/22/1998	NS	NS	NS	---	---	---	---	17	17	17				
	5/24/1999	6.65	0.0094	0.0061	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	6.60	0.01	0.018	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	6.60	NS	NS	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	6.61	---	---	---	---	---	---	18	18	18				
	1/16/2000	6.60	---	---	---	---	---	---	19	19	19				
	4/9/2000	NS	NS	NS	---	---	---	---	24	24	24				
	7/30/2000	NS	NS	NS	---	---	---	---	24	24	24				
	3/23/2001	6.94	---	---	---	---	---	---	20	20	20				
	7/1/2001	6.63	---	---	---	---	---	---	20	20	20				
	8/12/2001	6.69	---	---	---	---	---	---	20	20	20				
	11/4/2001	6.60	---	---	---	---	---	---	20	20	20				
	3/8/2002	6.73	---	---	---	---	---	---	21	21	21				
	6/30/2002	6.51	---	---	---	---	---	---	21	21	21				
	8/18/2002	NS	NS	NS	---	---	---	---	24	24	24				
	11/17/2002	NS	NS	NS	---	---	---	---	24	24	24				
	3/27/2003	NS	NS	NS	---	---	---	---	24	24	24				
	6/26/2003	NS	NS	NS	---	---	---	---	24	24	24				
	7/18/2003	NS	NS	NS	---	---	---	---	24	24	24				
	12/22/2003	NS	NS	NS	---	---	---	---	24	24	24				
	3/31/2004	NS	NS	NS	---	---	---	---	24	24	24				

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	3/20/2005	NS	NS	NS	---	---	---	---	24	24	24				
	11/22/2005	NS	NS	NS	---	---	---	---	24	24	24				
B-9	5/20/1983	---	NS	---	NS	---	---	---		24		24			
	9/16/1983	---	NS	---	NS	---	---	---		24		24			
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24		24		24	24
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24		24			
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/16/1987	---	< 0.01	---	< 0.01	---	---	---		3		24			
	7/8/1988	---	< 0.05	< 0.1	NS	---	---	---		3	24	24			
	12/19/1988	---	< 0.05	---	---	< 0.05	---	---		24			24		
	1/31/1989	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		9	9	9	9		
	2/1/1989	---	< 0.02	< 0.02	< 0.01	< 0.01	---	---		8	8	8	8		
	7/18/1989	---	< 0.005	< 0.005	< 0.01	< 0.01	---	---		24	24	24	24		
	1/24/1990	---	0.007	0.002	---	---	---	---		12	12				
	2/8/1990	---	0.039	< 0.005	0.04	< 0.01	---	---		24	24	24	24		
	7/17/1990	NS	0.002	< 0.001	< 0.005	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	7.20	---	---	---	< 0.005	---	---	24				24		
	July 1990	7.2	0.002	0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	9/27/1990	---	0.002	NS	< 0.005	< 0.005	---	---		24	24	24	24		
	Sept. 1990	7.8	0.011	0.011	< 0.005	< 0.005	---	---	23	23	23	23	23		
	10/1/1990		0.002	0.001						12	12				
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	NS	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	NS	---	---	NS	---	---	24	24			24		
	12/20/1990	NS	---	0.001	NS	NS	---	---	24		24	24	24		
	1/25/1991	7.80	0.007	0.002	< 0.005	< 0.005	---	---	24	22	22	22	22		
	Jan. 1991	---	0.007	0.002	< 0.005	< 0.005	---	---		23	23	23	23		
	3/7/1991	NS	---	---	---	---	---	---	24						
	3/8/1991	7.10	0.021	< 0.001	< 0.005	< 0.005	---	---	10	10, 22	10, 22	10, 22	10		
	3/9/1991	NS	0.021	< 0.001	< 0.005	---	---	---	24	12	12				
	3/10/1991	NS	---	< 0.001	---	< 0.005	---	---	24		24		24		
	March 1991	7.1	0.021	< 0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	6/29/1991	8.10	0.027	0.01	< 0.005	---	---	---	24	12, 22	12, 22	22			
	6/30/1991	---	---	---	< 0.005	< 0.005	---	---					24		
	8/23/1991	6.30	0.007	0.003	---	---	---	---	24	12	12				
	8/25/1991	---	0.007	0.003	< 0.005	< 0.005	---	---		22	22	22	24		
	11/10/1991	7.30	0.015	< 0.002	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	24		
	2/22/1992	---	0.029	< 0.002	---	---	---	---		12	12				
	2/23/1992	7.60	---	---	< 0.005	<0.005	---	---	24			24	24		
	4/11/1992	---	0.006	< 0.002	---	---	---	---		12	12				
	4/12/1992	7.20	---	---	< 0.005	---	---	---	24			24			

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	6/12/1992	---	< 0.002	< 0.002	---	---	---	---		12	12				
	6/14/1992	7.30	---	---	< 0.005	---	---	---	24			24			
	8/8/1992	---	0.002	0.005	---	---	---	---		12	24				
	8/9/1992	7.40	---	---	< 0.005	---	---	---	24			24			
	10/9/1992	---	< 0.002	---	---	---	---	---		12					
	10/11/1992	7.20	---	---	< 0.005	---	---	---	24			24			
	2/21/1993	7.40	0.008	0.005	---	---	---	---	24	11	11				
	4/25/1993	7.60	0.003	0.003	---	---	---	---	24	11	11				
	6/6/1993	6.60	0.016	0.011	---	---	---	---	24	11	11				
	8/8/1993	7.20	0.004	0.004	---	---	---	---	24	11	11				
	10/8/1993	7.70	0.005	<0.002	---	---	---	---	24	11	11				
	12/12/1993	7.40	0.01	0.01	---	---	---	---	24	11	11				
	2/13/1994	8.40	0.003	0.003	---	---	---	---	24	24	24				
	4/17/1994	8.50	0.009	<0.002	---	---	---	---	24	24	24				
	6/12/1994	7.30	0.013	0.004	---	---	---	---	24	24	24				
	8/28/1994	6.90	0.008	0.002	---	---	---	---	24	24	24				
	10/30/1994	7.10	0.008	0.003	---	---	---	---	24	24	24				
	1/29/1995	7.10	0.008	0.003	---	---	---	---	24	15	15				
	3/31/1995	---	0.007	0.002	---	---	---	---		15	15				
	5/21/1995	6.80	0.004	0.002	---	---	---	---	24	15	15				
	7/30/1995	---	0.014	0.005	---	---	---	---		15	15				
	9/24/1995	6.50	<0.002	<0.002	---	---	---	---	24	15	15				
	11/19/1995	7.00	<0.002	<0.002	---	---	---	---	24	15	15				
	1/27/1996	7.40	0.003	0.003	---	---	---	---	24	14	14				
	3/31/1996	7.40	0.003	< 0.002	---	---	---	---	24	14	14				
	5/19/1996	7.00	0.006	0.005	---	---	---	---	24	14	14				
	7/21/1996	6.50	< 0.002	< 0.002	---	---	---	---	24	14	14				
	9/8/1996	7.20	0.007	< 0.002	---	---	---	---	24	14	14				
	11/10/1996	7.30	< 0.002	< 0.002	---	---	---	---	24	14	14				
	1/25/1997	7.30	< 0.002	< 0.002	---	---	---	---	24	13	13				
	1/27/1997	---	< 0.002	< 0.002	---	---	---	---		24	24				
	3/15/1997	6.70	---	---	---	---	---	---	24						
	3/16/1997	---	0.005	< 0.002	---	---	---	---		13	13				
	5/18/1997	6.80	< 0.002	< 0.002	---	---	---	---	24	13	13				
	8/3/1997	6.92	0.003	0.004	---	---	---	---	24	13	13				
	9/28/1997	7.14	< 0.002	< 0.002	---	---	---	---	24	13	13				
	11/9/1997	7.05	0.006	0.004	---	---	---	---	24	13	13				
	3/29/1998	6.85	<0.002	<0.002	---	---	---	---	17	17	17				
	5/17/1998	6.85	< 0.002	< 0.002	---	---	---	---	17	17	17				
	7/26/1998	6.97	<0.002	< 0.002	---	---	---	---	17	17	17				
	9/27/1998	6.83	< 0.001	< 0.001	---	---	---	---	17	17	17				
	11/22/1998	6.75	<0.005	<0.005	---	---	---	---	17	17	17				
	5/24/1999	5.82	0.0097	< 0.005	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	5.60	0.0073	0.012	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	5.40	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	11/14/1999	5.86	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	1/16/2000	6.06	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	6.85	< 0.010	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	7.04	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	6.13	< 0.010	< 0.010	---	---	---	---	20	20	20				
	7/1/2001	5.61	< 0.010	< 0.010	---	---	---	---	20	20	20				
	8/12/2001	5.60	< 0.010	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	5.90	< 0.010	< 0.010	---	---	---	---	20	20	20				
	3/8/2002	5.94	< 0.010	< 0.010	---	---	---	---	21	21	21				
	6/30/2002	5.58	---	---	---	---	---	---	21	21	21				
	8/18/2002	6.82	< 0.010	< 0.010	---	---	---	---	24	24	24				
	11/17/2002	6.90	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	6.88	< 0.006	0.006	---	---	---	---	24	24	24				
	6/26/2003	6.94	< 0.006	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	7.08	< 0.006	< 0.006	---	---	---	---	24	24	24				
	12/22/2003	7.00	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/31/2004	6.88	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/20/2005	6.47	< 0.006	< 0.006	---	---	---	---	24	24	24				
	11/22/2005	6.69	0.01	< 0.006	---	---	---	---	24	24	24				
MW-10	5/20/1983	---	NS	---	NS	---	---	---		24		24			
	9/16/1983	---	NS	---	NS	---	---	---		24		24			
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24		24		24	24
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24		24			
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/16/1987	---	NS	---	NS	---	---	---		24		24			
	7/8/1988	---	NS	NS	NS	---	---	---		24	24	24			
	12/19/1988	---	NS	---	---	NS	---	---		24			24		
	1/31/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/1/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/18/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/17/1990	NS	0.013	0.009	< 0.005	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	3.40	---	---	---	< 0.005	---	---	24				24		
	July 1990	3.40	0.013	0.009	< 0.005	< 0.005	---	---	23	23	23	23	23		
	9/21/1990	---	0.031	0.009	< 0.005	< 0.005	---	---		10, 12*	10, 12	10	10		
	9/27/1990	---	0.013	0.009	< 0.005	< 0.005	---	---		24	24	24	24		
	Sept. 1990	6	0.031	0.009	< 0.005	< 0.005	---	---	23	23	23	23	23		
	10/1/1990	---	0.011	0.011	< 0.005	< 0.005	---	---		10	10	10	10		
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	NS	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	NS	---	---	NS	---	---	24				24		

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	12/20/1990	NS	---	NS	NS	NS	---	---	24		24	24	24		
	1/24/1991	NS	0.008	0.004	---	---	---	---	24	12	12				
	1/25/1991	6.00	0.008	0.004	< 0.005	< 0.005	---	---	24	22	22	22	22		
	Jan. 1991	---	0.008	0.004	< 0.005	< 0.005	---	---		23	23	23	23		
	3/6/1991	---	0.007	0.004	---	---	---	---		12	12				
	3/7/1991	5.30	0.007	0.004	< 0.005	---	---	---	10	10, 22	10, 22	10, 22	10		
	3/8/1991	NS	0.007	---	---	---	---	---	24	24					
	3/9/1991	NS	---	---	< 0.005	---	---	---	24			24			
	3/10/1991	NS	---	0.004	---	< 0.005	---	---	24				24		
	March 1991	5.3	0.007	0.004	< 0.005	< 0.005	---	---	23	23	23	23	23		
	6/29/1991	4.90	0.014	0.008	< 0.005	---	---	---	24	12, 22	12, 22	22			
	6/30/1991	---	---	---	< 0.005	< 0.005	---	---				24	24		
	8/23/1991	4.40	0.004	0.001	---	---	---	---	24	12	12				
	8/25/1991	---	0.004	0.001	< 0.005	< 0.005	---	---		22	22	22	24		
	11/10/1991	5.00	0.023	0.012	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	24		
	2/22/1992	---	0.01	0.009	---	---	---	---		12	12				
	2/23/1992	5.30	---	---	< 0.005	<0.005	---	---	24			24	24		
	4/11/1992	---	0.021	0.017	---	---	---	---		12	12				
	4/12/1992	5.00	---	---	< 0.005	---	---	---	24			24			
	6/12/1992	---	0.008	0.006	---	---	---	---		12	12				
	6/14/1992	5.00	---	---	< 0.005	---	---	---	24			24			
	8/8/1992	---	0.009	---	---	---	---	---		12					
	8/9/1992	5.00	---	---	< 0.005	---	---	---	24			24			
	10/9/1992	---	0.006	---	---	---	---	---		12					
	10/11/1992	4.60	---	---	< 0.005	---	---	---	24			24			
	2/21/1993	5.00	0.035	0.02	---	---	---	---	24	11	11				
	4/25/1993	5.20	0.065	0.008	---	---	---	---	24	11	11				
	6/6/1993	4.90	0.03	0.03	---	---	---	---	24	11	11				
	8/8/1993	4.60	0.021	0.017	---	---	---	---	24	11	11				
	10/8/1993	4.80	0.007	0.006	---	---	---	---	24	11	11				
	12/12/1993	4.90	0.017	0.01	---	---	---	---	24	11	11				
	2/13/1994	5.00	0.014	0.011	---	---	---	---	24	24	24				
	4/17/1994	4.60	0.012	0.01	---	---	---	---	24	24	24				
	6/12/1994	4.80	0.011	0.01	---	---	---	---	24	24	24				
	8/28/1994	4.70	0.007	0.007	---	---	---	---	24	24	24				
	10/30/1994	4.60	0.021	0.019	---	---	---	---	24	24	24				
	1/29/1995	6.20	0.012	0.008	---	---	---	---	24	15	15				
	3/31/1995	---	0.008	0.007	---	---	---	---		15	15				
	5/21/1995	5.60	0.013	0.006	---	---	---	---	24	15	15				
	7/30/1995	---	0.008	0.005	---	---	---	---		15	15				
	9/24/1995	4.50	0.011	0.026	---	---	---	---	24	15	15				
	11/19/1995	5.20	<0.002	<0.002	---	---	---	---	24	15	15				
	1/27/1996	5.50	< 0.002	0.008	---	---	---	---	24	14	14				
	3/31/1996	4.50	0.007	0.008	---	---	---	---	24	14	14				
	5/19/1996	NS	0.007	0.004	---	---	---	---	24	14	14				

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Sample Data									References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	7/21/1996	4.00	0.007	0.006	---	---	---	---	24	14	14				
	9/8/1996	4.50	0.008	0.006	---	---	---	---	24	14	14				
	11/10/1996	6.40	0.017	0.019	---	---	---	---	24	14	14				
	1/25/1997	6.00	0.008	0.004	---	---	---	---	24	13	13				
	1/27/1997	---	0.008	< 0.002	---	---	---	---		24	24				
	3/15/1997	4.60	---	---	---	---	---	---	24						
	3/16/1997	---	0.009	0.008	---	---	---	---		13	13				
	5/18/1997	4.60	0.009	0.01	---	---	---	---	24	13	13				
	8/3/1997	4.54	0.009	0.007	---	---	---	---	24	13	13				
	9/28/1997	4.48	0.005	0.005	---	---	---	---	24	13	13				
	11/16/1997	4.32	0.009	0.003	---	---	---	---	24	13	13				
	3/29/1998	4.96	0.017	0.006	---	---	---	---	17	17	17				
	5/17/1998	4.96	0.008	0.004	---	---	---	---	17	17	17				
	7/26/1998	4.60	0.005	0.002	---	---	---	---	17	17	17				
	9/27/1998	4.69	< 0.001	< 0.001	---	---	---	---	17	17	17				
	11/22/1998	4.29	0.026	0.0099	---	---	---	---	17	17	17				
	5/24/1999	6.28	0.019	0.019	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	6.20	0.017	0.0064	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	NS	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	DRY	0.018	< 0.010	---	---	---	---	18	16, 18	16, 18				
	1/16/2000	DRY	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	5.05	0.012	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	4.33	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	NS	< 0.010	0.049	---	---	---	---	20	20	20				
	7/1/2001	NS	0.02	< 0.010	---	---	---	---	20	20	20				
	8/12/2001	NS	< 0.010	0.01	---	---	---	---	20	20	20				
	11/4/2001	NS	< 0.010	< 0.010	---	---	---	---	20	20	20				
	3/8/2002	NS	0.039	0.016	---	---	---	---	21	21	21				
	6/30/2002	NS	NS	NS	---	---	---	---	21	21	21				
	8/18/2002	4.97	0.034	< 0.010	---	---	---	---	24	24	24				
	11/17/2002	4.90	0.045	0.01	---	---	---	---	24	24	24				
	3/27/2003	5.23	0.013	0.014	---	---	---	---	24	24	24				
	6/26/2003	5.07	0.007	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	4.99	0.009	< 0.006	---	---	---	---	24	24	24				
	12/22/2003	5.35	0.009	< 0.006	---	---	---	---	24	24	24				
	3/31/2004	5.22	0.023	0.006	---	---	---	---	24	24	24				
	3/20/2005	5.33	0.028	0.012	---	---	---	---	24	24	24				
	11/22/2005	5.40	0.01	< 0.006	---	---	---	---	24	24	24				
MW-11	5/20/1983	---	NS	---	NS	---	---	---		24					
	9/16/1983	---	NS	---	NS	---	---	---		24					
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24				24	24
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24				24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24				24	24
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24					

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24		24		
	12/16/1987	---	NS	---	NS	---	---	---		24					
	7/8/1988	---	NS	NS	NS	---	---	---		24	24				
	12/19/1988	---	NS	---	---	NS	---	---		24			24		
	1/31/1989	---	NS	NS	NS	NS	---	---		24	24		24		
	2/1/1989	---	NS	NS	NS	NS	---	---		24	24		24		
	7/18/1989	---	NS	NS	NS	NS	---	---		24	24		24		
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24		24		
	7/17/1990	6.60	0.01	< 0.001	< 0.005	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	NS	---	---	---	< 0.005	---	---	24				24		
	July 1990	6.6	0.01	0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	9/27/1990	---	0.007	0.002	< 0.005	< 0.005	---	---		10, 12*	10, 12*	10	10		
	Sept. 1990	7	0.007	0.002	< 0.005	< 0.005	---	---	23	23	23	23	23		
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	NS	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	NS	---	---	NS	---	---	24	24			24		
	12/20/1990	NS	---	NS	NS	NS	---	---	24		24	24	24		
	1/24/1991	NS	0.007	0.001	---	---	---	---	24	12	12				
	1/25/1991	7.00	0.007	0.001	< 0.005	< 0.005	---	---	24	22	22	22	22		
	Jan. 1991	---	0.007	0.001	< 0.005	< 0.005	---	---		23	23	23	23		
	3/7/1991	NS	---	---	---	---	---	---	24						
	3/8/1991	NS	0.015	< 0.001	---	---	---	---	24	12	12				
	3/9/1991	NS	---	---	< 0.005	---	---	---	24			24			
	3/10/1991	6.70	0.015	< 0.001	< 0.005	< 0.005	---	---	10	10, 22	10, 22	10, 22	10		
	March 1991	6.70	0.02	< 0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	6/29/1991	6.60	0.029	0.002	---	---	---	---	24	12	12				
	6/30/1991	---	0.029	0.002	< 0.005	< 0.005	---	---		22	22	22	24		
	8/23/1991	6.70	0.003	< 0.001	---	---	---	---	24	12	12				
	8/25/1991	---	0.003	< 0.001	< 0.005	< 0.005	---	---		22	22	22	24		
	11/10/1991	6.90	0.009	< 0.002	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	24		
	2/22/1992	---	0.04	0.002	---	---	---	---		12	12				
	2/23/1992	7.00	---	---	< 0.005	<0.005	---	---	24			24	24		
	4/11/1992	---	< 0.002	< 0.002	---	---	---	---		12	12				
	4/12/1992	6.90	---	---	< 0.005	---	---	---	24			24			
	6/12/1992	---	0.007	< 0.002	---	---	---	---		12	12				
	6/14/1992	7.00	---	---	< 0.005	---	---	---	24			24			
	8/8/1992	---	< 0.002	---	---	---	---	---		12					
	8/9/1992	7.40	---	---	< 0.005	---	---	---	24			24			
	10/9/1992	---	0.002	---	---	---	---	---		12					
	10/11/1992	7.30	---	---	< 0.005	---	---	---	24			24			
	2/21/1993	7.00	0.004	0.002	---	---	---	---	24	11	11				
	4/25/1993	7.00	0.004	< 0.002	---	---	---	---	24	11	11				
	6/6/1993	7.30	0.006	0.003	---	---	---	---	24	11	11				
	8/8/1993	9.30	0.008	0.004	---	---	---	---	24	11	11				

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Sample Data									References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	10/8/1993	6.50	0.003	0.002	---	---	---	---	24	11	11				
	12/12/1993	6.60	0.005	0.002	---	---	---	---	24	11	11				
	2/13/1994	7.00	0.006	0.006	---	---	---	---	24	24	24				
	4/17/1994	7.20	0.012	0.012	---	---	---	---	24	24	24				
	6/12/1994	7.20	0.01	0.002	---	---	---	---	24	24	24				
	8/28/1994	5.70	0.002	<0.002	---	---	---	---	24	24	24				
	10/30/1994	6.70	<0.002	<0.002	---	---	---	---	24	24	24				
	1/29/1995	6.80	<0.002	0.003	---	---	---	---	24	15	15				
	3/31/1995	---	<0.002	<0.002	---	---	---	---		15	15				
	5/21/1995	6.70	0.007	0.003	---	---	---	---	24	15	15				
	7/30/1995	---	0.007	<0.002	---	---	---	---		15	15				
	9/24/1995	5.80	<0.002	<0.002	---	---	---	---	24	15	15				
	11/19/1995	6.70	<0.002	<0.002	---	---	---	---	24	15	15				
	1/27/1996	6.50	0.013	< 0.002	---	---	---	---	24	14	14				
	3/31/1996	6.80	< 0.002	0.003	---	---	---	---	24	14	14				
	5/19/1996	6.40	0.002	0.008	---	---	---	---	24	14	14				
	7/21/1996	6.10	< 0.002	< 0.002	---	---	---	---	24	14	14				
	9/8/1996	6.60	< 0.002	0.003	---	---	---	---	24	14	14				
	11/10/1996	6.60	< 0.002	0.002	---	---	---	---	24	14	14				
	1/25/1997	7.50	< 0.002	< 0.002	---	---	---	---	24	13	13				
	1/27/1997	---	< 0.002	< 0.002	---	---	---	---		24	24				
	3/15/1997	6.50	---	---	---	---	---	---	24						
	3/16/1997	---	< 0.002	< 0.002	---	---	---	---		13	13				
	5/18/1997	NS	NS	NS	---	---	---	---	24	13	13				
	8/3/1997	6.62	0.002	< 0.002	---	---	---	---	24	13	13				
	9/28/1997	6.62	< 0.002	< 0.002	---	---	---	---	24	13	13				
	11/16/1997	6.29	< 0.002	< 0.002	---	---	---	---	24	13	13				
	3/29/1998	6.71	<0.002	<0.002	---	---	---	---	17	17	17				
	5/17/1998	6.71	< 0.002	< 0.002	---	---	---	---	17	17	17				
	7/26/1998	6.58	<0.002	<0.002	---	---	---	---	17	17	17				
	9/27/1998	6.23	< 0.001	< 0.001	---	---	---	---	17	17	17				
	11/22/1998	NS	NS	NS	---	---	---	---	17	17	17				
	5/24/1999	6.90	0.0082	< 0.005	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	6.90	0.023	0.01	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	6.10	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	6.86	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	1/16/2000	6.92	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	6.22	< 0.010	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	6.21	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	7.13	< 0.010	< 0.010	---	---	---	---	20	20	20				
	7/1/2001	6.87	< 0.010	< 0.010	---	---	---	---	20	20	20				
	8/12/2001	6.88	< 0.010	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	6.10	< 0.010	< 0.010	---	---	---	---	20	20	20				
	3/8/2002	6.89	0.01	< 0.010	---	---	---	---	21	21	21				
	6/30/2002	6.87	---	---	---	---	---	---	21	21	21				

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	8/18/2002	6.16	< 0.010	< 0.010	---	---	---	---	24	24	24				
	11/17/2002	6.10	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	6.29	< 0.006	< 0.006	---	---	---	---	24	24	24				
	6/26/2003	6.40	< 0.006	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	6.41	< 0.006	< 0.006	---	---	---	---	24	24	24				
	12/22/2003	6.33	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/31/2004	6.45	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/20/2005	NS	NS	NS	---	---	---	---	24	24	24				
	11/22/2005	6.01	< 0.006	< 0.006	---	---	---	---	24	24	24				
MW-12	5/20/1983	---	NS	---	NS	---	---	---		24		24			
	9/16/1983	---	NS	---	NS	---	---	---		24		24			
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24		24		24	24
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24		24			
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/16/1987	---	NS	---	NS	---	---	---		24		24			
	7/8/1988	---	NS	NS	NS	---	---	---		24	24	24			
	12/19/1988	---	NS	---	---	NS	---	---		24			24		
	1/31/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/1/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/18/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/17/1990	3.90	0.048	0.013	0.04	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	NS	---	---	---	< 0.005	---	---	24				24		
	July 1990	3.9	0.048	0.013	0.04	< 0.005	---	---	23	23	23	23	23		
	9/27/1990	---	0.05	0.017	< 0.005	< 0.005	---	---		10, 12*	10, 12*	10	10		
	Sept. 1990	6.9	0.05	0.017	< 0.005	< 0.005	---	---	23	23	23	23	23		
	12/5/1990	NS	0.003	0.003	---	---	---	---	24	12	12				
	12/6/1990	5.00	0.003	0.003	< 0.005	< 0.005	---	---	24	10, 22	22	10, 22	22		
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	0.003	---	---	< 0.005	---	---	24	24			24		
	12/20/1990	NS	---	0.003	< 0.005	NS	---	---	24		24	24	24		
	1/24/1991	NS	---	NS	---	---	---	---	24		24				
	1/25/1991	NS	NS	---	NS	NS	---	---	24	24		24	24		
	Jan. 1991	---	0.003	0.003	< 0.005	< 0.005	---	---		23	23	23	23		
	3/7/1991	NS	0.011	0.006	---	---	---	---	24	12	12				
	3/8/1991	4.80	0.011	0.006	< 0.005	< 0.005	---	---	10	10, 22	10, 22	10, 22	10		
	3/9/1991	NS	---	---	< 0.005	---	---	---	24			24			
	3/10/1991	NS	---	0.006	---	< 0.005	---	---	24				24		
	March 1991	6.4	0.011	0.006	< 0.005	< 0.005	---	---	23	23	23	23	23		
	6/29/1991	3.90	0.025	0.025	---	---	---	---	24	12	12				
	6/30/1991	---	0.025	0.025	< 0.005	< 0.005	---	---		22	22	22	24		
	8/23/1991	4.70	0.004	0.002	---	---	---	---	24	12	12				

Table A17-2
Historical Data - Groundwater Samples
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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	8/25/1991	---	0.004	0.002	< 0.005	< 0.005	---	---		22	22	22	24		
	11/10/1991	3.90	0.006	0.002	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	24		
	2/22/1992	---	0.053	< 0.002	---	---	---	---		12	12				
	2/23/1992	3.60	---	---	< 0.005	<0.005	---	---	24			24	24		
	4/11/1992	---	< 0.002	0.002	---	---	---	---		12	12				
	4/12/1992	4.10	---	---	< 0.005	---	---	---	24			24			
	6/12/1992	---	0.004	0.005	---	---	---	---		12	12				
	6/14/1992	4.00	---	---	< 0.005	---	---	---	24			24			
	8/8/1992	---	0.002	---	---	---	---	---		12					
	8/9/1992	4.50	---	---	< 0.005	---	---	---	24			24			
	10/9/1992	---	0.005	---	---	---	---	---		12					
	10/11/1992	4.80	---	---	< 0.005	---	---	---	24			24			
	2/21/1993	5.00	0.002	< 0.002	---	---	---	---	24	11	11				
	4/25/1993	4.80	0.005	0.003	---	---	---	---	24	11	11				
	6/6/1993	5.10	0.008	0.006	---	---	---	---	24	11	11				
	8/8/1993	8.50	0.004	< 0.002	---	---	---	---	24	11	11				
	10/8/1993	4.00	0.005	0.005	---	---	---	---	24	11	11				
	12/12/1993	4.40	0.005	0.004	---	---	---	---	24	11	11				
	2/13/1994	5.20	0.011	0.008	---	---	---	---	24	24	24				
	4/17/1994	NS	0.03	0.03	---	---	---	---	24	24	24				
	6/12/1994	7.20	0.006	0.004	---	---	---	---	24	24	24				
	8/28/1994	5.30	<0.002	<0.002	---	---	---	---	24	24	24				
	10/30/1994	3.80	<0.002	<0.002	---	---	---	---	24	24	24				
	1/29/1995	4.40	0.004	0.003	---	---	---	---	24	15	15				
	3/31/1995	---	0.005	0.003	---	---	---	---		15	15				
	5/21/1995	3.30	0.008	0.005	---	---	---	---	24	15	15				
	7/30/1995	---	0.006	<0.002	---	---	---	---		15	15				
	9/24/1995	3.80	0.004	0.003	---	---	---	---	24	15	15				
	11/19/1995	3.60	<0.002	0.003	---	---	---	---	24	15	15				
	1/27/1996	4.20	0.003	0.003	---	---	---	---	24	14	14				
	3/31/1996	3.40	0.003	0.007	---	---	---	---	24	14	14				
	5/19/1996	3.10	0.007	0.007	---	---	---	---	24	14	14				
	7/21/1996	3.30	< 0.002	0.002	---	---	---	---	24	14	14				
	9/8/1996	4.30	0.003	0.002	---	---	---	---	24	14	14				
	11/10/1996	3.70	< 0.002	< 0.002	---	---	---	---	24	14	14				
	1/25/1997	3.50	0.003	< 0.002	---	---	---	---	24	13	13				
	1/27/1997	---	0.003	< 0.002	---	---	---	---		24	24				
	3/15/1997	3.60	---	---	---	---	---	---	24						
	3/16/1997	---	< 0.002	< 0.002	---	---	---	---		13	13				
	5/18/1997	3.80	0.004	0.003	---	---	---	---	24	13	13				
	8/3/1997	3.79	0.003	0.004	---	---	---	---	24	13	13				
	9/28/1997	3.73	< 0.002	< 0.002	---	---	---	---	24	13	13				
	11/16/1997	3.57	0.006	0.003	---	---	---	---	24	13	13				
	3/29/1998	3.72	<0.002	<0.002	---	---	---	---	17	17	17				
	5/17/1998	3.72	0.006	<0.002	---	---	---	---	17	17	17				

Table A17-2
Historical Data - Groundwater Samples
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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	7/26/1998	3.78	<0.002	<0.002	---	---	---	---	17	17	17				
	9/27/1998	4.17	< 0.001	< 0.001	---	---	---	---	17	17	17				
	11/22/1998	3.58	<0.005	<0.005	---	---	---	---	17	17	17				
	5/24/1999	4.79	0.006	0.0062	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	4.60	0.0053	0.0062	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	4.20	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	4.75	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	1/16/2000	4.67	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	3.69	< 0.010	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	3.80	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	4.21	< 0.010	< 0.010	---	---	---	---	20	20	20				
	7/1/2001	5.18	< 0.010	< 0.010	---	---	---	---	20	20	20				
	8/12/2001	4.95	< 0.010	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	5.00	< 0.010	< 0.010	---	---	---	---	20	20	20				
	3/8/2002	4.96	0.012	0.011	---	---	---	---	21	21	21				
	6/30/2002	5.04	---	---	---	---	---	---	21	21	21				
	8/18/2002	4.24	0.013	0.01	---	---	---	---	24	24	24				
	11/17/2002	4.40	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	4.38	0.006	< 0.006	---	---	---	---	24	24	24				
	6/26/2003	4.70	0.006	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	4.01	0.006	< 0.006	---	---	---	---	24	24	24				
	12/22/2003	4.51	0.006	< 0.006	---	---	---	---	24	24	24				
	3/31/2004	4.25	0.008	< 0.006	---	---	---	---	24	24	24				
	3/20/2005	6.34	< 0.006	< 0.006	---	---	---	---	24	24	24				
	11/22/2005	4.30	< 0.006	< 0.006	---	---	---	---	24	24	24				
MW-13	5/20/1983	---	NS	---	NS	---	---	---		24		24			
	9/16/1983	---	NS	---	NS	---	---	---		24		24			
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24		24		24	24
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24		24			
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/16/1987	---	NS	---	NS	---	---	---		24		24			
	7/8/1988	---	NS	NS	NS	---	---	---		24	24	24			
	12/19/1988	---	NS	---	---	NS	---	---		24			24		
	1/31/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/1/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/18/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/17/1990	7.00	0.065	< 0.001	0.03	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	NS	---	---	---	< 0.005	---	---	24				24		
	July 1990	7.00	0.07	0.00	0.03	< 0.005	---	---	23	23	23	23	23		
	9/25/1990	---	0.024	0.004	< 0.005	< 0.005				10, 12*	10, 12*	10	10		
	9/27/1990	---	0.065	0.001	< 0.005	< 0.005	---	---		24	24	24	24		

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	Sept. 1990	5	0.024	0.004	< 0.005	< 0.005	---	---	23	23	23	23	23		
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	NS	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	0.018	---	---	NS	---	---	24	24			24		
	12/20/1990	6.90	0.018	< 0.001	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	22		
	1/24/1991	NS	---	NS	---	---	---	---	24		24				
	1/25/1991	NS	NS	---	NS	NS	---	---	24			24	24		
	Jan. 1991	---	0.018	< 0.001	< 0.005	< 0.005	---	---		23	23	23	23		
	3/7/1991	6.40	0.035	0.001	< 0.005	< 0.005	---	---	10	10, 12, 22	10, 12, 22	10, 22	10		
	3/8/1991	NS	0.035	---	---	---	---	---	24	24					
	3/9/1991	NS	---	---	< 0.005	---	---	---	24			24			
	3/10/1991	NS	---	0.001	---	< 0.005	---	---	24		24		24		
	March 1991	4.80	0.04	0.00	< 0.005	< 0.005	---	---	23	23	23	23	23		
	6/29/1991	7.00	0.03	< 0.001	< 0.005	---	---	---	24	12, 22	12, 22	22			
	6/30/1991	---	---	---	< 0.005	< 0.005	---	---				24	24		
	8/23/1991	6.90	0.016	< 0.001	---	---	---	---	24	12	12				
	8/24/1991	---	0.016	< 0.001	< 0.005	< 0.005	---	---		22	22	22	24		
	11/10/1991	7.00	0.022	< 0.002	< 0.005	< 0.005	---	---	24	12, 22	12, 22*	22	24		
	2/22/1992	---	0.12	< 0.002	---	---	---	---		12	12				
	2/23/1992	6.70	---	---	< 0.005	<0.005	---	---	24			24	24		
	4/11/1992	---	0.014	< 0.002	---	---	---	---		12	12				
	4/12/1992	6.70	---	---	< 0.005	---	---	---	24			24			
	6/12/1992	---	0.008	< 0.002	---	---	---	---		12	12				
	6/14/1992	6.70	---	---	< 0.005	---	---	---	24			24			
	8/8/1992	---	< 0.002	0.002	---	---	---	---		12	24				
	8/9/1992	7.20	---	---	< 0.005	---	---	---	24			24			
	10/9/1992	---	0.004	< 0.002	---	---	---	---		12	24				
	10/11/1992	6.80	---	---	< 0.005	---	---	---	24			24			
	2/21/1993	7.40	0.011	0.002	---	---	---	---	24	11	11				
	4/25/1993	6.60	0.003	<0.002	---	---	---	---	24	11	11				
	6/6/1993	6.70	0.007	0.004	---	---	---	---	24	11	11				
	8/8/1993	7.70	0.005	<0.002	---	---	---	---	24	11	11				
	10/8/1993	5.70	0.004	<0.002	---	---	---	---	24	11	11				
	12/12/1993	5.30	0.01	<0.002	---	---	---	---	24	11	11				
	2/13/1994	7.20	0.015	0.006	---	---	---	---	24	24	24				
	4/17/1994	7.30	0.025	0.004	---	---	---	---	24	24	24				
	6/12/1994	7.40	0.009	0.001	---	---	---	---	24	24	24				
	8/28/1994	5.80	0.003	<0.002	---	---	---	---	24	24	24				
	10/30/1994	6.40	<0.002	<0.002	---	---	---	---	24	24	24				
	1/29/1995	6.70	0.005	< 0.002	---	---	---	---	24	15	15				
	3/31/1995	---	0.004	< 0.003	---	---	---	---		15	15				
	5/21/1995	6.70	0.007	0.005	---	---	---	---	24	15	15				
	7/30/1995	---	0.005	0.004	---	---	---	---		15	15				
	9/24/1995	5.70	<0.002	0.004	---	---	---	---	24	15	15				

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	11/19/1995	6.50	<0.002	< 0.002	---	---	---	---	24	15	15				
	1/27/1996	6.80	< 0.002	< 0.002	---	---	---	---	24	14	14				
	3/31/1996	6.80	0.004	< 0.002	---	---	---	---	24	14	14				
	5/19/1996	6.70	NS	NS	---	---	---	---	24	24					
	7/21/1996	6.40	0.003	< 0.002	---	---	---	---	24	14	14				
	9/8/1996	6.70	< 0.002	< 0.002	---	---	---	---	24	14	14				
	11/10/1996	7.00	0.005	0.006	---	---	---	---	24	14	14				
	1/25/1997	6.80	0.004	0.002	---	---	---	---	24	13	13				
	1/27/1997	---	0.004	0.002	---	---	---	---		24	24				
	3/15/1997	6.50	---	---	---	---	---	---	24		24				
	3/16/1997	---	< 0.002	< 0.002	---	---	---	---		13	13				
	5/18/1997	6.70	< 0.002	0.003	---	---	---	---	24	13	13				
	8/3/1997	6.82	< 0.002	< 0.002	---	---	---	---	24	13	13				
	9/28/1997	6.81	< 0.002	< 0.002	---	---	---	---	24	13	13				
	11/16/1997	6.67	< 0.002	< 0.002	---	---	---	---	24	13	13				
	3/29/1998	6.59	<0.002	<0.002	---	---	---	---	17	17	17				
	5/17/1998	6.59	< 0.002	< 0.002	---	---	---	---	17	17	17				
	7/26/1998	6.67	<0.002	<0.002	---	---	---	---	17	17	17				
	9/27/1998	6.67	< 0.001	< 0.001	---	---	---	---	17	17	17				
	11/22/1998	6.51	0.0053	0.019	---	---	---	---	17	17	17				
	5/24/1999	6.38	0.012	0.0073	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	6.40	0.0054	< 0.005	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	6.00	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	6.18	---	---	---	---	---	---	18	18	18				
	1/16/2000	6.32	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	6.69	< 0.010	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	6.71	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	7.04	< 0.010	< 0.010	---	---	---	---	20	20	20				
	7/1/2001	6.40	---	---	---	---	---	---	20	20	20				
	8/12/2001	6.31	< 0.010	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	6.40	< 0.010	< 0.010	---	---	---	---	20	20	20				
	3/8/2002	6.17	0.012	< 0.010	---	---	---	---	21	21	21				
	6/30/2002	6.28	---	---	---	---	---	---	21	21	21				
	8/18/2002	6.47	0.015	0.011	---	---	---	---	24	24	24				
	11/17/2002	6.50	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	6.61	< 0.006	< 0.006	---	---	---	---	24	24	24				
	6/26/2003	6.65	< 0.006	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	6.59	< 0.006	< 0.006	---	---	---	---	24	24	24				
	12/22/2003	6.62	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/31/2004	6.64	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/20/2005	6.26	< 0.006	< 0.006	---	---	---	---	24	24	24				
	11/22/2005	6.37	< 0.006	< 0.006	---	---	---	---	24	24	24				
MW-14	5/20/1983	---	NS	---	NS	---	---	---		24		24			
	9/16/1983	---	NS	---	NS	---	---	---		24		24			
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24		24		24	24
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24		24			
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/16/1987	---	NS	---	NS	---	---	---		24		24			
	7/8/1988	---	NS	NS	NS	---	---	---		24	24	24			
	12/19/1988	---	NS	---	---	NS	---	---		24			24		
	1/31/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/1/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/18/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/17/1990	6.40	0.01	< 0.001	< 0.005	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	NS	---	---	---	< 0.005	---	---	24				24		
	July 1990	6.4	0.01	0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	9/27/1990	---	0.006	0.003	< 0.005	< 0.005	---	---		10, 12*	10, 12*	10	10		
	Sept. 1990	6.9	0.006	0.003	< 0.005	< 0.005	---	---	23	23	23	23	23		
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	NS	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	NS	---	---	NS	---	---	24	24			24		
	12/20/1990	NS	---	NS	NS	NS	---	---	24		24	24	24		
	1/24/1991	NS	0.005	< 0.001	---	---	---	---	24	12	12				
	1/25/1991	7.00	0.005	< 0.001	< 0.005	< 0.005	---	---	24	22	22	22	22		
	Jan. 1991	---	0.005	< 0.001	< 0.005	< 0.005	---	---		23	23	23	23		
	3/7/1991	NS	---	---	---	---	---	---	24						
	3/8/1991	NS	0.006	0.001	---	---	---	---	24	12	12				
	3/9/1991	6.80	0.006	0.001	< 0.005	---	---	---	10	10, 22	22	10, 22			
	3/10/1991	NS	---	0.001	---	< 0.005	---	---	24		24		24		
	March 1991	6.40	0.01	0.00	< 0.005	< 0.005	---	---	23	23	23	23	23		
	6/29/1991	6.80	0.004	0.001	< 0.005	---	---	---	24	12, 22	12, 22	22			
	6/30/1991	---	---	---	< 0.005	< 0.005	---	---					24		
	8/23/1991	6.40	0.001	< 0.001	---	---	---	---	24	12	12				
	8/25/1991	---	0.001	< 0.001	< 0.005	< 0.005	---	---		22	22	22	24		
	11/10/1991	6.60	0.004	< 0.002	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	24		
	2/22/1992	---	0.038	< 0.002	---	---	---	---		12	12				
	2/23/1992	6.20	---	---	< 0.005	<0.005	---	---	24			24	24		
	4/11/1992	---	< 0.002	< 0.002	---	---	---	---		12	12				
	4/12/1992	6.30	---	---	< 0.005	---	---	---	24			24			
	6/12/1992	---	0.003	< 0.002	---	---	---	---		12	12				
	6/14/1992	6.30	---	---	< 0.005	---	---	---	24			24			
	8/8/1992	---	< 0.002	---	---	---	---	---		12					
	8/9/1992	6.60	---	---	< 0.005	---	---	---	24			24			
	10/9/1992	---	0.006	---	---	---	---	---		12					
	10/11/1992	6.30	---	---	< 0.005	---	---	---	24			24			

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Sample Data									References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	2/21/1993	7.50	0.004	< 0.002	---	---	---	---	24	11	11				
	4/25/1993	5.80	0.006	< 0.002	---	---	---	---	24	11	11				
	6/6/1993	6.00	0.005	0.005	---	---	---	---	24	11	11				
	8/8/1993	7.60	<0.002	<0.002	---	---	---	---	24	11	11				
	10/8/1993	5.30	<0.002	<0.002	---	---	---	---	24	11	11				
	12/12/1993	5.50	0.003	<0.002	---	---	---	---	24	11	11				
	2/13/1994	7.40	0.008	0.008	---	---	---	---	24	24	24				
	4/17/1994	7.40	0.012	<0.002	---	---	---	---	24	24	24				
	6/12/1994	5.70	0.006	0.005	---	---	---	---	24	24	24				
	8/28/1994	6.20	0.002	<0.002	---	---	---	---	24	24	24				
	10/30/1994	6.10	<0.002	<0.002	---	---	---	---	24	24	24				
	1/29/1995	6.90	< 0.002	< 0.002	---	---	---	---	24	15	15				
	3/31/1995	---	0.005	< 0.002	---	---	---	---		15	15				
	5/21/1995	6.70	0.005	0.005	---	---	---	---	24	15	15				
	7/30/1995	---	0.004	< 0.002	---	---	---	---		15	15				
	9/24/1995	5.30	<0.002	<0.002	---	---	---	---	24	15	15				
	11/19/1995	6.10	<0.002	< 0.002	---	---	---	---	24	15	15				
	1/27/1996	6.40	< 0.002	< 0.002	---	---	---	---	24	14	14				
	3/31/1996	6.20	0.002	< 0.002	---	---	---	---	24	14	14				
	5/19/1996	6.30	0.003	< 0.002	---	---	---	---	24	14	14				
	7/21/1996	6.10	< 0.002	< 0.002	---	---	---	---	24	14	14				
	9/8/1996	6.30	< 0.002	< 0.002	---	---	---	---	24	14	14				
	11/10/1996	6.60	0.004	< 0.002	---	---	---	---	24	14	14				
	1/25/1997	6.50	0.002	< 0.002	---	---	---	---	24	13	13				
	1/27/1997	---	0.002	< 0.002	---	---	---	---		24	24				
	3/15/1997	6.40	---	---	---	---	---	---	24						
	3/16/1997	---	< 0.002	< 0.002	---	---	---	---		13	13				
	5/18/1997	6.50	< 0.002	< 0.002	---	---	---	---	24	13	13				
	8/3/1997	6.42	0.004	< 0.002	---	---	---	---	24	13	13				
	9/28/1997	NS	NS	NS	---	---	---	---	24						
	11/16/1997	6.69	< 0.002	< 0.002	---	---	---	---	24	13	13				
	3/29/1998	6.61	<0.002	<0.002	---	---	---	---	17	17	17				
	5/17/1998	6.61	< 0.002	< 0.002	---	---	---	---	24		24				
	7/26/1998	5.86	<0.002	<0.002	---	---	---	---	17	17	17				
	9/27/1998	6.10	< 0.001	< 0.001	---	---	---	---	17	17	17				
	11/22/1998	6.11	<0.005	<0.005	---	---	---	---	17	17	17				
	5/24/1999	3.84	0.0056	0.0056	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	3.90	0.0061	< 0.005	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	3.70	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	3.76	---	---	---	---	---	---	18	18	18				
	1/16/2000	3.79	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	6.58	< 0.010	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	6.32	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	3.94	< 0.010	< 0.010	---	---	---	---	20	20	20				
	7/1/2001	4.36	< 0.010	< 0.010	---	---	---	---	20	20	20				

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	8/12/2001	3.92	< 0.010	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	4.10	< 0.010	< 0.010	---	---	---	---	20	20	20				
	3/8/2002	4.05	0.012	< 0.010	---	---	---	---	21	21	21				
	6/30/2002	4.04	---	---	---	---	---	---	21	21	21				
	8/18/2002	6.26	< 0.010	< 0.010	---	---	---	---	24	24	24				
	11/17/2002	6.20	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	6.64	0.008	< 0.006	---	---	---	---	24	24	24				
	6/26/2003	6.55	< 0.006	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	6.39	< 0.006	< 0.006	---	---	---	---	24	24	24				
	12/22/2003	6.22	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/31/2004	6.84	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/20/2005	6.24	< 0.006	< 0.006	---	---	---	---	24	24	24				
	11/22/2005	5.97	< 0.006	< 0.006	---	---	---	---	24	24	24				
MW-15	5/20/1983	---	NS	---	NS	---	---	---		24		24			
	9/16/1983	---	NS	---	NS	---	---	---		24		24			
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24		24		24	24
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24		24			
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24	24			
	12/16/1987	---	NS	---	NS	---	---	---		24		24			
	7/8/1988	---	NS	NS	NS	---	---	---		24	24	24			
	12/19/1988	---	NS	---	---	NS	---	---		24			24		
	1/31/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/1/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/18/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/17/1990	6.90	0.01	0.003	< 0.005	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	NS	---	---	---	< 0.005	---	---	24				24		
	July 1990	6.90	0.01	0.00	< 0.005	< 0.005	---	---	23	23	23	23	23		
	9/25/1990	---	0.008	0.002	< 0.005	< 0.005	---	---		10, 12*	10, 12*	10	10		
	9/27/1990	---	0.01	0.003	< 0.005	< 0.005	---	---		24	24	24	24		
	Sept. 1990	7	0.008	0.002	< 0.005	< 0.005	---	---	23	23	23	23	23		
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	NS	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	0.007	---	---	NS	---	---	24	24			24		
	12/20/1990	6.90	0.007	0.001	< 0.005	< 0.005	---	---	24	22, 10, 12*	22, 10, 12*	10, 22	22		
	1/24/1991	NS	---	NS	---	---	---	---	24		24				
	1/25/1991	NS	NS	---	NS	NS	---	---	24	24		24	24		
	Jan. 1991	---	0.007	0.001	< 0.005	< 0.005	---	---		23	23	23	23		
	3/7/1991	NS	---	---	---	---	---	---	24						
	3/8/1991	6.80	0.009	0.001	< 0.005	< 0.005	---	---	10	12, 22	10, 12, 22	22	10		
	3/9/1991	NS	---	---	NS	---	---	---	24			24			

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Sample Data									References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	3/10/1991	NS	---	0.001	---	< 0.005	---	---	24						
	March 1991	6.8	0.009	0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	6/29/1991	7.00	0.009	0.001	< 0.005	---	---	---	24	12, 22	12, 22	22			
	6/30/1991	---	---	---	< 0.005	< 0.005	---	---					24		
	8/23/1991	6.80	0.009	< 0.001	---	---	---	---	24	12	12				
	8/24/1991	---	0.009	< 0.001	< 0.005	< 0.005	---	---		22	22	22	24		
	11/10/1991	7.00	0.009	< 0.002	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	24		
	2/22/1992	---	0.048	0.003	---	---	---	---		12	12				
	2/23/1992	6.90	---	---	< 0.005	<0.005	---	---	24			24	24		
	4/11/1992	---	0.002	< 0.002	---	---	---	---		12	12				
	4/12/1992	7.00	---	---	< 0.005	---	---	---	24			24			
	6/12/1992	---	0.003	< 0.002	---	---	---	---		12	12				
	6/14/1992	6.90	---	---	< 0.005	---	---	---	24			24			
	8/8/1992	---	< 0.002	---	---	---	---	---		12					
	8/9/1992	7.30	---	---	< 0.005	---	---	---	24			24			
	10/9/1992	---	< 0.002	---	---	---	---	---		12					
	10/11/1992	7.20	---	---	< 0.005	---	---	---	24			24			
	2/21/1993	7.20	0.003	0.006	---	---	---	---	24	11	11				
	4/25/1993	7.10	0.009	< 0.002	---	---	---	---	24	11	11				
	6/6/1993	7.20	0.008	0.004	---	---	---	---	24	11	11				
	8/8/1993	8.30	0.006	0.006	---	---	---	---	24	11	11				
	10/8/1993	6.40	0.008	0.003	---	---	---	---	24	11	11				
	12/12/1993	6.90	0.004	<0.002	---	---	---	---	24	11	11				
	2/13/1994	7.10	0.015	0.012	---	---	---	---	24	24	24				
	4/17/1994	7.20	0.016	<0.002	---	---	---	---	24	24	24				
	6/12/1994	6.40	0.005	<0.002	---	---	---	---	24	24	24				
	8/28/1994	6.20	0.003	<0.002	---	---	---	---	24	24	24				
	10/30/1994	5.30	0.004	<0.002	---	---	---	---	24	24	24				
	1/29/1995	6.80	0.002	< 0.002	---	---	---	---	24	15	15				
	3/31/1995	---	< 0.002	< 0.003	---	---	---	---		15	15				
	5/21/1995	6.80	0.007	0.002	---	---	---	---	24	15	15				
	7/30/1995	---	0.004	< 0.002	---	---	---	---		15	15				
	9/24/1995	5.80	<0.002	0.003	---	---	---	---	24	15	15				
	11/19/1995	6.60	<0.002	0.003	---	---	---	---	24	15	15				
	1/27/1996	7.00	< 0.002	< 0.002	---	---	---	---	24	14	14				
	3/31/1996	7.00	0.006	0.003	---	---	---	---	24	14	14				
	5/19/1996	6.70	0.003	0.004	---	---	---	---	24	14	14				
	7/21/1996	6.30	0.002	< 0.002	---	---	---	---	24	14	14				
	9/8/1996	6.80	< 0.002	0.002	---	---	---	---	24	14	14				
	11/10/1996	7.00	0.005	0.002	---	---	---	---	24	14	14				
	1/25/1997	6.80	< 0.002	< 0.002	---	---	---	---	24	13	13				
	1/27/1997	---	< 0.002	< 0.002	---	---	---	---		24	24				
	3/15/1997	6.80	---	---	---	---	---	---	24						
	3/16/1997	---	< 0.002	< 0.002	---	---	---	---		13	13				
	5/18/1997	6.80	0.002	< 0.002	---	---	---	---	24	13	13				

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	8/3/1997	6.78	0.002	< 0.002	---	---	---	---	24	13	13				
	9/28/1997	6.82	< 0.002	< 0.002	---	---	---	---	24	13	13				
	11/16/1997	6.70	0.004	0.004	---	---	---	---	24	13	13				
	3/29/1998	6.86	<0.002	<0.002	---	---	---	---	17	17	17				
	5/17/1998	6.86	< 0.002	< 0.002	---	---	---	---	17	17	17				
	7/26/1998	6.69	<0.002	<0.002	---	---	---	---	17	17	17				
	9/27/1998	6.63	< 0.001	< 0.001	---	---	---	---	17	17	17				
	11/22/1998	6.53	<0.005	<0.005	---	---	---	---	17	17	17				
	5/24/1999	6.83	0.013	0.0061	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	6.70	0.0081	0.0087	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	6.40	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	---	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	1/16/2000	6.70	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	6.65	< 0.010	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	6.61	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	6.65	< 0.010	< 0.010	---	---	---	---	20	20	20				
	7/1/2001	NS	< 0.010	< 0.010	---	---	---	---	20	20	20				
	8/12/2001	6.62	---	---	---	---	---	---	20	20	20				
	11/4/2001	6.70	---	---	---	---	---	---	20	20	20				
	3/8/2002	6.65	< 0.010	< 0.010	---	---	---	---	21	21	21				
	6/30/2002	6.56	---	---	---	---	---	---	21	21	21				
	8/18/2002	6.49	< 0.010	< 0.010	---	---	---	---	24	24	24				
	11/17/2002	6.74	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	6.69	0.008	0.009	---	---	---	---	24	24	24				
	6/26/2003	6.73	< 0.006	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	6.78	< 0.006	< 0.006	---	---	---	---	24	24	24				
	12/22/2003	6.70	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/31/2004	6.72	< 0.006	0.007	---	---	---	---	24	24	24				
	3/20/2005	NS	NS	NS	---	---	---	---	24	24	24				
	11/22/2005	6.02	< 0.006	< 0.006	---	---	---	---	24	24	24				
MW-16	5/20/1983	---	NS	---	NS	---	---	---		24		24			
	9/16/1983	---	NS	---	NS	---	---	---		24		24			
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24		24		24	24
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24		24			
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/16/1987	---	NS	---	NS	---	---	---		24		24			
	7/8/1988	---	NS	NS	NS	---	---	---		24	24	24			
	12/19/1988	---	NS	---	---	NS	---	---		24			24		
	1/31/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/1/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/18/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		

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Sample Data									References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	7/17/1990	NS	DRY	NS	NS	---	---	---	24	24	24	24			
	7/18/1990	NS	---	---	---	NS	---	---	24				24		
	July 1990	DRY	DRY	DRY	DRY	DRY	---	---	23	23	23	23	23		
	9/27/1990	---	DRY	DRY	< 0.005	< 0.005	---	---		24	24	24	24		
	Sept. 1990	10.7	0.028	0.008	< 0.005	< 0.005	---	---	23	23	23	23	23		
	10/1/1990	---	0.028	0.008	< 0.005	< 0.005	---	---		10, 12*	10, 12*	10	10		
	12/5/1990	10.70	DRY	DRY	---	---	---	---	24	12	12				
	12/6/1990	DRY	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	DRY	---	---	NS	---	---	24	24			24		
	12/20/1990	NS	---	DRY	NS	NS	---	---	24		24	24	24		
	1/24/1991	NS	---	DRY	---	---	---	---	24		24				
	1/25/1991	NS	DRY	---	NS	NS	---	---	24	24		24	24		
	Jan. 1991	---	DRY	DRY	DRY	DRY	---	---		23	23	23	23		
	3/7/1991	NS	---	---	---	---	---	---	24						
	3/8/1991	NS	DRY	---	---	---	---	---	24	24					
	3/9/1991	DRY	DRY	DRY	NS	---	---	---	10.00	12	12	24			
	3/10/1991	NS	---	DRY	---	NS	---	---	24				24		
	March 1991	DRY	DRY	DRY	DRY	DRY	---	---	23	23	23	23	23		
	6/29/1991	10.40	DRY	DRY	---	---	---	---	24	12	12				
	6/30/1991	---	---	---	DRY	DRY	---	---				24	24		
	8/23/1991	8.60	DRY	DRY	---	---	---	---	24	12	12				
	8/24/1991	---	DRY	DRY	DRY	DRY	---	---		22	22	22	22		
	11/10/1991	NS	DRY	DRY	DRY	DRY	---	---	24	12, 22	12, 22	22	22		
	2/22/1992	---	DRY	DRY	---	---	---	---		12	12				
	2/23/1992	6.90	---	---	NS	NS	---	---	24			24	24		
	4/11/1992	---	DRY	DRY	---	---	---	---		12	12				
	4/12/1992	NS	---	---	DRY	---	---	---	24			24			
	6/12/1992	---	DRY	DRY	---	---	---	---		12	12				
	6/14/1992	NS	---	---	DRY	---	---	---	24			24			
	8/8/1992	---	DRY	---	---	---	---	---		12					
	8/9/1992	NS	---	---	DRY	---	---	---	24			24			
	10/9/1992	---	DRY	---	---	---	---	---		12					
	10/11/1992	NS	---	---	DRY	---	---	---	24			24			
	2/21/1993	NS	DRY	DRY	---	---	---	---	24	11	11				
	4/25/1993	NS	DRY	DRY	---	---	---	---	24	11	11				
	6/6/1993	NS	DRY	DRY	---	---	---	---	24	11	11				
	8/8/1993	NS	DRY	DRY	---	---	---	---	24	11	11				
	10/8/1993	NS	DRY	DRY	---	---	---	---	24	11	11				
	12/12/1993	NS	DRY	DRY	---	---	---	---	24	11	11				
	2/13/1994	NS	DRY	DRY	---	---	---	---	24	24	24				
	4/17/1994	NS	DRY	DRY	---	---	---	---	24	24	24				
	6/12/1994	NS	DRY	DRY	---	---	---	---	24	24	24				
	8/28/1994	NS	DRY	DRY	---	---	---	---	24	24	24				
	10/30/1994	NS	DRY	DRY	---	---	---	---	24	24	24				

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	1/29/1995	NS	NS	NS	---	---	---	---	24	15	15				
	3/31/1995	---	NS	NS	---	---	---	---		15	15				
	5/21/1995	NS	NS	NS	---	---	---	---	24	15	15				
	7/30/1995	---	NS	NS	---	---	---	---		15	15				
	9/24/1995	NS	NS	NS	---	---	---	---	24	15	15				
	11/19/1995	NS	NS	NS	---	---	---	---	24	15	15				
	1/27/1996	NS	NS	NS	---	---	---	---	24	14	14				
	3/31/1996	NS	NS	NS	---	---	---	---	24	14	14				
	5/19/1996	NS	DRY	DRY	---	---	---	---	24	24	24				
	7/21/1996	NS	0.002	< 0.002	---	---	---	---	24	14	14				
	9/8/1996	NS	NS	NS	---	---	---	---	24	14	14				
	11/10/1996	NS	NS	NS	---	---	---	---	24	14	14				
	1/25/1997	NS	NS	NS	---	---	---	---	24	13	13				
	1/27/1997	---	DRY	DRY	---	---	---	---		24	24				
	3/15/1997	NS	---	---	---	---	---	---	24						
	3/16/1997	---	NS	NS	---	---	---	---		13	13				
	5/18/1997	NS	NS	NS	---	---	---	---	24	13	13				
	8/3/1997	NS	NS	NS	---	---	---	---	24	13	13				
	9/28/1997	NS	NS	NS	---	---	---	---	24	13	13				
	11/16/1997	NS	NS	NS	---	---	---	---	24	13	13				
	3/29/1998	NS	NS	NS	---	---	---	---	17	17	17				
	5/17/1998	NS	NS	NS	---	---	---	---	17	17	17				
	7/26/1998	NS	NS	NS	---	---	---	---	17	17	17				
	9/27/1998	NS	NS	NS	---	---	---	---	17	17	17				
	11/22/1998	NS	NS	NS	---	---	---	---	17	17	17				
	5/24/1999	6.60	NS	NS	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	6.40	NS	NS	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	6.10	NS	NS	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	---	---	---	---	---	---	---	18	18	18				
	1/16/2000	6.63	---	---	---	---	---	---	19	19	19				
	4/9/2000	NS	DRY	DRY	---	---	---	---	24	24	24				
	7/30/2000	NS	DRY	DRY	---	---	---	---	24	24	24				
	3/23/2001	6.41	---	---	---	---	---	---	20	20	20				
	7/1/2001	6.27	---	---	---	---	---	---	20	20	20				
	8/12/2001	6.22	---	---	---	---	---	---	20	20	20				
	11/4/2001	6.40	---	---	---	---	---	---	20	20	20				
	3/8/2002	6.49	---	---	---	---	---	---	21	21	21				
	6/30/2002	6.16	---	---	---	---	---	---	21	21	21				
	8/18/2002	NS	DRY	DRY	---	---	---	---	24	24	24				
	11/17/2002	NS	DRY	DRY	---	---	---	---	24	24	24				
	3/27/2003	NS	DRY	DRY	---	---	---	---	24	24	24				
	6/26/2003	NS	DRY	DRY	---	---	---	---	24	24	24				
	7/18/2003	NS	DRY	DRY	---	---	---	---	24	24	24				
	12/22/2003	NS	DRY	DRY	---	---	---	---	24	24	24				
	3/31/2004	NS	DRY	DRY	---	---	---	---	24	24	24				

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	3/20/2005	NS	DRY	DRY	---	---	---	---	24	24	24				
	11/22/2005	NS	DRY	DRY	---	---	---	---	24	24	24				
MW-16S	5/20/1983	---	NS	---	NS	---	---	---		24		24			
	9/16/1983	---	NS	---	NS	---	---	---		24		24			
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24		24		24	24
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24		24			
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/16/1987	---	NS	---	NS	---	---	---		24		24			
	7/8/1988	---	NS	NS	NS	---	---	---		24	24	24			
	12/19/1988	---	NS	---	---	NS	---	---		24			24		
	1/31/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/1/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/18/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/17/1990	6.80	0.003	0.001	< 0.005	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	NS	---	---	---	< 0.005	---	---	24				24		
	July 1990	6.80	0.00	0.00	< 0.005	< 0.005	---	---	23	23	23	23	23		
	9/25/1990	---	0.015	0.004	< 0.005	< 0.005	---	---		10	10	10	10		
	9/26/1990	---	0.003	0.001	< 0.005	< 0.005	---	---		12	12	24	24		
	Sept. 1990	6.9	0.015	0.004	< 0.005	< 0.005	---	---	23	23	23	23	23		
	12/5/1990	6.70	0.007	< 0.001	< 0.005	< 0.005	---	---	24	12, 22	10, 12, 22*	22	10, 22		
	12/6/1990	NS	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	0.007	---	---	< 0.005	---	---	24	24			24		
	12/20/1990	NS	---	< 0.001	< 0.005	NS	---	---	24		24	24	24		
	1/24/1991	NS	---	NS	---	---	---	---	24		24				
	1/25/1991	NS	NS	---	NS	NS	---	---	24	24		24	24		
	Jan. 1991	---	0.007	< 0.001	< 0.005	< 0.005	---	---		23	23	23	23		
	3/7/1991	6.10	0.008	< 0.001	< 0.005	< 0.005	---	---	10	10, 12, 22	10, 12, 22	10, 22	10		
	3/8/1991	NS	0.008	---	---	---	---	---	24	24					
	3/9/1991	NS	---	---	< 0.005	---	---	---	24			24			
	3/10/1991	NS	---	< 0.001	---	< 0.005	---	---	24		24		24		
	March 1991	6.8	0.008	< 0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	6/29/1991	6.90	0.003	0.001	< 0.005	---	---	---	24	12, 22	22	22			
	6/30/1991	---	---	---	< 0.005	< 0.005	---	---				24	24		
	8/23/1991	6.40	0.012	< 0.001	---	---	---	---	24	12	12				
	8/24/1991	---	0.012	< 0.001	< 0.005	< 0.005	---	---		22	22	22	24		
	11/10/1991	6.80	0.01	< 0.002	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	24		
	2/22/1992	---	0.113	< 0.002	---	---	---	---		12	12				
	2/23/1992	6.80	---	---	< 0.005	<0.005	---	---	24			24	24		
	4/11/1992	---	< 0.002	< 0.002	---	---	---	---		12	12				
	4/12/1992	6.30	---	---	< 0.005	---	---	---	24			24			

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	6/12/1992	---	< 0.002	< 0.002	---	---	---	---		12	12				
	6/14/1992	6.50	---	---	< 0.005	---	---	---	24			24			
	8/8/1992	---	< 0.002	---	---	---	---	---		12					
	8/9/1992	6.40	---	---	< 0.005	---	---	---	24			24			
	10/9/1992	---	0.008	---	---	---	---	---		12					
	10/11/1992	6.60	---	---	< 0.005	---	---	---	24			24			
	2/21/1993	6.50	< 0.002	0.003	---	---	---	---	24	11	11				
	4/25/1993	6.60	0.003	0.002	---	---	---	---	24	11	11				
	6/6/1993	5.70	0.02	0.007	---	---	---	---	24	11	11				
	8/8/1993	6.50	0.004	<0.002	---	---	---	---	24	11	11				
	10/8/1993	6.70	0.005	<0.002	---	---	---	---	24	11	11				
	12/12/1993	6.40	0.02	0.003	---	---	---	---	24	11	11				
	2/13/1994	6.70	0.006	0.006	---	---	---	---	24	24	24				
	4/17/1994	7.30	0.015	0.006	---	---	---	---	24	24	24				
	6/12/1994	6.70	0.01	0.004	---	---	---	---	24	24	24				
	8/28/1994	6.50	0.014	<0.002	---	---	---	---	24	24	24				
	10/30/1994	6.40	0.012	0.004	---	---	---	---	24	24	24				
	1/29/1995	6.50	0.004	< 0.002	---	---	---	---	24	15	15				
	3/31/1995	---	0.006	0.004	---	---	---	---		15	15				
	5/21/1995	6.10	0.006	0.002	---	---	---	---	24	15	15				
	7/30/1995	---	0.016	0.005	---	---	---	---		15	15				
	9/24/1995	6.20	0.002	0.006	---	---	---	---	24	15	15				
	11/19/1995	6.70	<0.002	< 0.002	---	---	---	---	24	15	15				
	1/27/1996	6.50	< 0.002	< 0.002	---	---	---	---	24	14	14				
	3/31/1996	6.20	0.003	0.002	---	---	---	---	24	14	14				
	5/19/1996	6.10	< 0.002	0.009	---	---	---	---	24	14	14				
	7/21/1996	5.80	0.003	< 0.002	---	---	---	---	24	14	14				
	9/8/1996	6.70	< 0.002	< 0.002	---	---	---	---	24	14	14				
	11/10/1996	6.70	0.005	0.005	---	---	---	---	24	14	14				
	1/25/1997	6.40	0.003	0.003	---	---	---	---	24	13	13				
	1/27/1997	---	0.003	0.003	---	---	---	---		24					
	3/15/1997	6.10	---	---	---	---	---	---	24						
	3/16/1997	---	0.002	< 0.002	---	---	---	---		13	13				
	5/18/1997	6.20	< 0.002	0.003	---	---	---	---	24	13	13				
	8/3/1997	6.23	0.002	< 0.002	---	---	---	---	24	13	13				
	9/28/1997	6.29	0.024	0.024	---	---	---	---	24	13	13				
	11/9/1997	6.87	< 0.002	< 0.002	---	---	---	---	24	13	13				
	3/29/1998	6.32	<0.002	<0.002	---	---	---	---	17	17	17				
	5/17/1998	6.32	0.005	0.003	---	---	---	---	17	17	17				
	7/26/1998	6.17	0.004	<0.002	---	---	---	---	17	17	17				
	9/27/1998	5.98	< 0.001	< 0.001	---	---	---	---	17	17	17				
	11/22/1998	5.65	0.018	0.0061	---	---	---	---	17	17	17				
	5/24/1999	6.73	0.011	0.011	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	6.60	0.012	0.011	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	6.30	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	11/14/1999	6.60	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	1/16/2000	6.59	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	6.28	< 0.010	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	6.25	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	6.81	< 0.010	< 0.010	---	---	---	---	20	20	20				
	7/1/2001	6.64	---	---	---	---	---	---	20	20	20				
	8/12/2001	NS	0.012	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	NS	0.012	0.01	---	---	---	---	20	20	20				
	3/8/2002	6.64	0.026	0.018	---	---	---	---	21	21	21				
	6/30/2002	6.43	---	---	---	---	---	---	21	21	21				
	8/18/2002	6.10	0.036	0.023	---	---	---	---	24	24	24				
	11/17/2002	6.84	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	6.25	0.01	0.009	---	---	---	---	24	24	24				
	6/26/2003	6.25	0.01	0.006	---	---	---	---	24	24	24				
	7/18/2003	6.36	0.01	0.007	---	---	---	---	24	24	24				
	12/22/2003	6.25	0.006	0.007	---	---	---	---	24	24	24				
	3/31/2004	6.97	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/20/2005	6.62	< 0.006	< 0.006	---	---	---	---	24	24	24				
	11/22/2005	NS	NS	NS	---	---	---	---	24	24	24				
MW-17	5/20/1983	---	NS	---	NS	---	---	---		24		24			
	9/16/1983	---	NS	---	NS	---	---	---		24		24			
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24		24		24	24
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24		24			
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/16/1987	---	NS	---	NS	---	---	---		24		24			
	7/8/1988	---	NS	NS	NS	---	---	---		24	24	24			
	12/19/1988	---	NS	---	---	NS	---	---		24			24		
	1/31/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/1/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/18/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/17/1990	7.10	0.003	< 0.001	< 0.005	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	NS	---	---	---	< 0.005	---	---	24				24		
	July 1990	7.10	0.00	0.00	< 0.005	< 0.005	---	---	23	23	23	23	23		
	9/26/1990	---	0.003	0.034	< 0.005	< 0.005	---	---		10, 12	10, 12*	10	10		
	9/27/1990	---	0.003	0.001	< 0.005	< 0.005	---	---		24	24	24	24		
	Sept. 1990	7.1	0.034	0.003	< 0.005	< 0.005	---	---	23	23	23	23	23		
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	NS	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	NS	---	---	NS	---	---	24	24			24		
	12/20/1990	NS	---	NS	NS	NS	---	---	24		24	24	24		

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Historical Data - Groundwater Samples
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Sample Data									References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	1/24/1991	7.10	0.009	< 0.001	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	22		
	1/25/1991	NS	0.009	---	< 0.005	< 0.005	---	---	24	24		24	24		
	Jan. 1991	---	0.009	< 0.001	< 0.005	< 0.005	---	---		23	23	23	23		
	3/7/1991	6.40	0.016	0.002	< 0.005	---	---	---	10	12, 22	12, 22	22			
	3/8/1991	NS	0.016	0.002	< 0.005	< 0.005	---	---	24	10	10	10	10		
	3/9/1991	NS	---	---	< 0.005	---	---	---	24			24			
	3/10/1991	NS	---	0.002	---	< 0.005	---	---	24		24		24		
	March 1991	6.4	0.016	0.002	< 0.005	< 0.005	---	---	23	23	23	23	23		
	6/29/1991	7.10	0.016	< 0.001	< 0.005	---	---	---	24	12, 22	12, 22	22			
	6/30/1991	---	---	---	< 0.005	< 0.005	---	---				24	24		
	8/23/1991	6.80	0.014	< 0.001	---	---	---	---	24	12	12				
	8/24/1991	---	0.014	< 0.001	< 0.005	< 0.005	---	---		22	22	22	24		
	11/10/1991	6.60	0.047	< 0.002	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	24		
	2/22/1992	---	0.15	< 0.002	---	---	---	---		12	12				
	2/23/1992	7.10	---	---	< 0.005	<0.005	---	---	24			24	24		
	4/11/1992	---	0.004	< 0.002	---	---	---	---		12	12				
	4/12/1992	6.90	---	---	< 0.005	---	---	---	24			24			
	6/12/1992	---	0.007	< 0.002	---	---	---	---		12	12				
	6/14/1992	6.80	---	---	< 0.005	---	---	---	24			24			
	8/8/1992	---	< 0.002	---	---	---	---	---		12					
	8/9/1992	7.00	---	---	< 0.005	---	---	---	24			24			
	10/9/1992	---	< 0.002	---	---	---	---	---		12					
	10/11/1992	7.10	---	---	< 0.005	---	---	---	24			24			
	2/21/1993	7.10	0.003	0.004	---	---	---	---	24	11	11				
	4/25/1993	7.10	< 0.002	< 0.002	---	---	---	---	24	11	11				
	6/6/1993	7.60	0.008	0.004	---	---	---	---	24	11	11				
	8/8/1993	6.90	0.013	0.004	---	---	---	---	24	11	11				
	10/8/1993	7.00	0.006	<0.002	---	---	---	---	24	11	11				
	12/12/1993	6.80	0.014	0.014	---	---	---	---	24	11	11				
	2/13/1994	7.50	0.006	0.002	---	---	---	---	24	24	24				
	4/17/1994	7.60	0.015	0.008	---	---	---	---	24	24	24				
	6/12/1994	7.20	0.01	0.004	---	---	---	---	24	24	24				
	8/28/1994	6.80	0.031	0.007	---	---	---	---	24	24	24				
	10/30/1994	6.80	0.007	0.002	---	---	---	---	24	24	24				
	1/29/1995	7.00	0.006	< 0.002	---	---	---	---	24	15	15				
	5/21/1995	6.70	0.004	<0.002	---	---	---	---	24	15	15				
	7/30/1995	---	0.006	0.005	---	---	---	---		15	15				
	9/24/1995	6.50	<0.002	<0.002	---	---	---	---	24	15	15				
	11/19/1995	6.60	0.006	< 0.002	---	---	---	---	24	15	15				
	1/27/1996	7.20	< 0.002	< 0.002	---	---	---	---	24	14	14				
	3/31/1996	NS	NS	NS	---	---	---	---	24	14	14				
	5/19/1996	6.50	0.003	0.004	---	---	---	---	24	14	14				
	7/21/1996	6.30	0.002	< 0.002	---	---	---	---	24	14	14				
	9/8/1996	6.90	< 0.002	< 0.002	---	---	---	---	24	14	14				
	11/10/1996	6.90	0.002	0.005	---	---	---	---	24	14	14				

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	1/25/1997	7.00	0.002	< 0.002	---	---	---	---	24	13	13				
	1/27/1997	---	0.002	< 0.002	---	---	---	---		24	24				
	3/15/1997	6.50	---	---	---	---	---	---	24						
	3/16/1997	---	< 0.002	< 0.002	---	---	---	---		13	13				
	5/18/1997	6.60	< 0.002	0.002	---	---	---	---	24	13	13				
	8/3/1997	6.58	0.002	0.002	---	---	---	---	24	13	13				
	9/28/1997	6.75	< 0.002	0.003	---	---	---	---	24	13	13				
	11/16/1997	6.72	0.005	0.003	---	---	---	---	24	13	13				
	3/29/1998	6.70	<0.002	<0.002	---	---	---	---	17	17	17				
	5/17/1998	6.70	< 0.002	< 0.002	---	---	---	---	17	17	17				
	7/26/1998	6.65	0.003	<0.002	---	---	---	---	17	17	17				
	9/27/1998	6.57	< 0.001	< 0.001	---	---	---	---	17	17	17				
	11/22/1998	6.21	<0.005	<0.005	---	---	---	---	17	17	17				
	5/24/1999	NS	0.0086	0.0094	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	NS	0.026	< 0.005	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	---	< 0.010	< 0.010	---	---	---	---		16, 18	16, 18				
	11/14/1999	NS	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	1/16/2000	NS	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	6.60	< 0.010	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	6.46	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	NS	< 0.010	< 0.010	---	---	---	---	20	20	20				
	7/1/2001	NS	< 0.010	< 0.010	---	---	---	---	20	20	20				
	8/12/2001	NS	< 0.010	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	NS	0.1	< 0.010	---	---	---	---	20	20	20				
	3/8/2002	NS	NS	NS	---	---	---	---	21	21	21				
	6/30/2002	NS	NS	NS	---	---	---	---	21	21	21				
	8/18/2002	NS	NS	NS	---	---	---	---	24	24	24				
	11/17/2002	6.70	0.012	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	6.70	0.032	0.012	---	---	---	---	24	24	24				
	6/26/2003	6.77	0.01	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	6.75	0.011	0.007	---	---	---	---	24	24	24				
	12/22/2003	6.71	0.008	< 0.006	---	---	---	---	24	24	24				
	3/31/2004	6.72	0.02	< 0.006	---	---	---	---	24	24	24				
	3/20/2005	6.23	< 0.006	< 0.006	---	---	---	---	24	24	24				
	11/22/2005	NS	NS	NS	---	---	---	---	24	24	24				
MW-18	5/20/1983	---	NS	---	NS	---	---	---		24		24			
	9/16/1983	---	NS	---	NS	---	---	---		24		24			
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24		24		24	24
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24		24			
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/16/1987	---	NS	---	NS	---	---	---		24		24			
	7/8/1988	---	NS	NS	NS	---	---	---		24	24	24			

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	12/19/1988	---	NS	---	---	NS	---	---		24			24		
	1/31/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/1/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/18/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/17/1990	NS	0.004	< 0.001	< 0.005	< 0.005	---	---	10	10	10	10	10		
	7/18/1990	7.30	---	---	---	< 0.005	---	---	24				24		
	July 1990	7.3	0.004	0.001	< 0.005	< 0.005	---	---	23	23	23	23	23		
	9/27/1990	---	0.004	0.001	< 0.005	< 0.005	---	---		24	24	24	24		
	Sept. 1990	7.6	0.009	0.006	< 0.005	< 0.005	---	---	23	23	23	23	23		
	10/1/1990	---	0.008	0.006	< 0.005	< 0.005	---	---		10, 12*	10, 12*	10	10		
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	NS	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	NS	---	---	NS	---	---	24	24			24		
	12/20/1990	NS	---	NS	NS	NS	---	---	24		24	24	24		
	1/24/1991	NS	0.004	0.001	---	---	---	---	24	12	12				
	1/25/1991	7.60	0.004	0.001	< 0.005	< 0.005	---	---	24	22	22	22	22		
	Jan. 1991	---	0.004	0.001	< 0.005	< 0.005	---	---		23	23	23	23		
	3/7/1991	NS	0.005	0.002	---	---	---	---	24	12	12				
	3/8/1991	7.00	0.005	0.002	< 0.005	---	---	---	10	22	22	22			
	3/9/1991	NS	---	---	< 0.005	---	---	---	24			24			
	3/10/1991	NS	---	0.002	---	< 0.005	---	---	24		24		24		
	March 1991	7.00	0.01	0.00	< 0.005	< 0.005	---	---	23	23	23	23	23		
	6/29/1991	7.70	0.001	0.001	---	---	---	---	24		24				
	6/30/1991	---	0.001	0.001	< 0.005	< 0.005	---	---		22	22	22	24		
	8/23/1991	NS	0.005	0.001	---	---	---	---	24	12	12				
	8/25/1991	---	0.005	0.001	< 0.005	< 0.005	---	---		22	22	22	24		
	11/10/1991	7.20	0.017	< 0.002	< 0.005	< 0.005	---	---	24	12, 22	12, 22	22	24		
	2/22/1992	---	0.047	0.002	---	---	---	---		12	12				
	2/23/1992	7.20	---	---	< 0.005	<0.005	---	---	24			24	24		
	4/11/1992	---	< 0.002	< 0.002	---	---	---	---		12	12				
	4/12/1992	7.20	---	---	< 0.005	---	---	---	24			24			
	6/12/1992	---	0.002	< 0.002	---	---	---	---		12	12				
	6/14/1992	7.20	---	---	< 0.005	---	---	---	24			24			
	8/8/1992	---	< 0.002	---	---	---	---	---		12					
	8/9/1992	7.00	---	---	< 0.005	---	---	---	24			24			
	10/9/1992	---	< 0.002	---	---	---	---	---		12					
	10/11/1992	7.00	---	---	< 0.005	---	---	---	24			24			
	2/21/1993	7.30	0.003	0.004	---	---	---	---	24	11	11				
	4/25/1993	7.40	0.002	0.002	---	---	---	---	24	11	11				
	6/6/1993	6.60	0.005	0.003	---	---	---	---	24	11	11				
	8/8/1993	7.00	0.008	<0.002	---	---	---	---	24	11	11				
	10/8/1993	7.20	0.006	<0.002	---	---	---	---	24	11	11				
	12/12/1993	7.50	0.013	0.01	---	---	---	---	24	11	11				

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Sample Data									References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	2/13/1994	7.90	0.008	0.002	---	---	---	---	24	24	24				
	4/17/1994	8.80	0.006	0.002	---	---	---	---	24	24	24				
	6/12/1994	7.10	0.021	0.004	---	---	---	---	24	24	24				
	8/28/1994	7.00	0.01	<0.002	---	---	---	---	24	24	24				
	10/30/1994	7.10	0.007	<0.002	---	---	---	---	24	24	24				
	1/29/1995	7.30	0.010	<0.002	---	---	---	---	24	15	15				
	3/31/1995	---	0.005	<0.003	---	---	---	---		15	15				
	5/21/1995	6.90	0.004	0.003	---	---	---	---	24	15	15				
	7/30/1995	---	0.015	0.004	---	---	---	---		15	15				
	9/24/1995	6.10	<0.002	<0.002	---	---	---	---	24	15	15				
	11/19/1995	7.20	0.002	< 0.002	---	---	---	---	24	15	15				
	1/27/1996	6.90	< 0.002	0.005	---	---	---	---	24	14	14				
	3/31/1996	7.60	0.003	0.004	---	---	---	---	24	14	14				
	5/19/1996	7.10	0.002	0.003	---	---	---	---	24	14	14				
	7/21/1996	6.60	0.003	< 0.002	---	---	---	---	24	14	14				
	9/8/1996	6.90	< 0.002	< 0.002	---	---	---	---	24	14	14				
	11/10/1996	7.50	0.002	0.004	---	---	---	---	24	14	14				
	1/25/1997	7.40	0.003	< 0.002	---	---	---	---	24	13	13				
	1/27/1997	---	0.003	< 0.002	---	---	---	---		24	24				
	3/15/1997	6.90	---	---	---	---	---	---	24						
	3/16/1997	---	< 0.002	0.002	---	---	---	---		13	13				
	5/18/1997	6.90	< 0.002	< 0.002	---	---	---	---	24	13	13				
	8/3/1997	6.98	0.003	0.002	---	---	---	---	24	13	13				
	9/28/1997	6.94	< 0.002	< 0.002	---	---	---	---	24	13	13				
	11/9/1997	6.99	0.012	0.005	---	---	---	---	24	13	13				
	3/29/1998	6.87	0.003	<0.002	---	---	---	---	17	17	17				
	5/17/1998	6.87	< 0.002	< 0.002	---	---	---	---	17	17	17				
	7/26/1998	6.91	<0.002	<0.002	---	---	---	---	17	17	17				
	9/27/1998	7.09	0.0019	< 0.001	---	---	---	---	17	17	17				
	11/22/1998	6.76	<0.005	<0.005	---	---	---	---	17	17	17				
	5/24/1999	6.36	< 0.005	< 0.005	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	6.10	0.019	< 0.005	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	5.90	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	6.15	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	1/16/2000	6.24	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	6.86	< 0.010	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	6.94	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	NS	< 0.010	< 0.010	---	---	---	---	20	20	20				
	7/1/2001	---	---	---	---	---	---	---	20	20	20				
	8/12/2001	6.29	< 0.010	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	6.60	< 0.010	< 0.010	---	---	---	---	20	20	20				
	3/8/2002	6.29	< 0.010	< 0.010	---	---	---	---	21	21	21				
	6/30/2002	6.12	---	---	---	---	---	---	21	21	21				
	8/18/2002	6.74	< 0.010	< 0.010	---	---	---	---	24	24	24				
	11/17/2002	NS	NS	NS	---	---	---	---	24		24				

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	3/27/2003	6.87	0.009	0.009	---	---	---	---	24	24	24				
	6/26/2003	6.95	< 0.006	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	7.02	< 0.006	< 0.006	---	---	---	---	24	24	24				
	12/22/2003	6.96	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/31/2004	6.96	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/20/2005	6.62	< 0.006	< 0.006	---	---	---	---	24	24	24				
	11/22/2005	6.79	< 0.006	< 0.006	---	---	---	---	24	24	24				
LMW-5	5/20/1983	---	NS	---	NS	---	---	---		24		24			
	9/16/1983	---	NS	---	NS	---	---	---		24		24			
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24		24		24	24
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24		24			
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/16/1987	---	NS	---	NS	---	---	---		24		24			
	7/8/1988	---	NS	NS	NS	---	---	---		24	24	24			
	12/19/1988	---	NS	---	---	NS	---	---		24			24		
	1/31/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/1/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/18/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/17/1990	NS	NS	NS	NS	---	---	---	24	24	24	24			
	7/18/1990	NS	---	---	---	NS	---	---	24				24		
	9/27/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	NS	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	NS	---	---	NS	---	---	24	24			24		
	12/20/1990	NS	---	NS	NS	NS	---	---	24		24	24	24		
	1/24/1991	NS	---	NS	---	---	---	---	24		24				
	1/25/1991	NS	NS	---	NS	NS	---	---	24	24		24	24		
	3/7/1991	NS	---	---	---	---	---	---	24						
	3/8/1991	NS	NS	---	NS	---	---	---	24	24		24			
	3/9/1991	NS	---	---	---	---	---	---	24						
	3/10/1991	NS	---	NS	---	NS	---	---	24		24		24		
	6/29/1991	NS	NS	NS	---	---	---	---	24	24	24				
	6/30/1991	---	---	---	NS	NS	---	---				24	24		
	8/23/1991	NS	NS	NS	---	---	---	---	24	24	24				
	8/25/1991	---	---	---	NS	NS	---	---				24	24		
	11/10/1991	NS	NS	NS	NS	NS	---	---	24	24	24	24	24		
	2/22/1992	---	NS	NS	---	---	---	---		24	24				
	2/23/1992	NS	---	---	NS	NS	---	---	24			24	24		
	4/11/1992	---	NS	NS	---	---	---	---		24	24				
	4/12/1992	NS	---	---	NS	---	---	---	24			24			

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	6/12/1992	---	NS	NS	---	---	---	---		24	24				
	6/14/1992	NS	---	---	NS	---	---	---	24			24			
	8/8/1992	---	NS	---	---	---	---	---		24					
	8/9/1992	NS	---	---	NS	---	---	---	24			24			
	10/9/1992	---	NS	---	---	---	---	---		24					
	10/11/1992	NS	---	---	NS	---	---	---	24			24			
	2/21/1993	NS	NS	NS	---	---	---	---	24	24	24				
	4/25/1993	NS	NS	NS	---	---	---	---	24	24	24				
	6/6/1993	NS	NS	NS	---	---	---	---	24	24	24				
	8/8/1993	NS	NS	NS	---	---	---	---	24	24	24				
	10/10/1993	NS	NS	NS	---	---	---	---	24	24	24				
	12/12/1993	NS	NS	NS	---	---	---	---	24	24	24				
	2/13/1994	NS	NS	NS	---	---	---	---	24	24	24				
	4/17/1994	NS	NS	NS	---	---	---	---	24	24	24				
	6/12/1994	NS	NS	NS	---	---	---	---	24	24	24				
	8/28/1994	NS	NS	NS	---	---	---	---	24	24	24				
	10/30/1994	NS	NS	NS	---	---	---	---	24	24	24				
	1/29/1995	NS	NS	NS	---	---	---	---	24	24	24				
	5/21/1995	NS	NS	NS	---	---	---	---	24	24	24				
	7/30/1995	---	NS	NS	---	---	---	---		24	24				
	9/24/1995	NS	NS	NS	---	---	---	---	24	24	24				
	11/19/1995	NS	NS	NS	---	---	---	---	24	24	24				
	1/27/1996	NS	NS	NS	---	---	---	---	24	24	24				
	3/31/1996	NS	NS	NS	---	---	---	---	24	24	24				
	5/19/1996	NS	NS	NS	---	---	---	---	24	24	24				
	7/21/1996	NS	NS	NS	---	---	---	---	24	24	24				
	9/8/1996	NS	NS	NS	---	---	---	---	24	24	24				
	11/10/1996	NS	NS	NS	---	---	---	---	24	24	24				
	1/25/1997	7.90	0.005	< 0.002	---	---	---	---	24	13	13				
	1/27/1997	---	0.005	< 0.002	---	---	---	---		24	24				
	3/15/1997	NS	---	---	---	---	---	---	24						
	3/16/1997	---	NS	NS	---	---	---	---		13	13				
	5/18/1997	7.10	0.002	< 0.002	---	---	---	---	24	13	13				
	8/3/1997	7.14	< 0.002	0.002	---	---	---	---	24	13	13				
	9/28/1997	7.22	0.005	< 0.002	---	---	---	---	24	13	13				
	11/9/1997	7.14	0.004	0.004	---	---	---	---	24	13	13				
	3/29/1998	7.03	0.002	<0.002	---	---	---	---	17	17	17				
	5/17/1998	7.03	0.006	< 0.002	---	---	---	---	17	17	17				
	7/26/1998	7.03	0.018	<0.002	---	---	---	---	17	17	17				
	9/27/1998	7.04	0.031	< 0.001	---	---	---	---	17	17	17				
	11/22/1998	6.95	0.0086	<0.005	---	---	---	---	17	17	17				
	5/24/1999	6.60	0.0062	0.0052	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	6.60	< 0.005	< 0.005	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	6.30	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	6.39	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				

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Sample Data																
									References							
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	1/16/2000	6.75	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	7.01	0.038	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	7.06	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	6.49	---	---	---	---	---	---	20	20	20				
	7/1/2001	6.05	< 0.010	< 0.010	---	---	---	---	20	20	20				
	8/12/2001	6.62	< 0.010	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	6.60	0.013	< 0.010	---	---	---	---	20	20	20				
	3/8/2002	---	---	---	---	---	---	---	21	21	21				
	6/30/2002	NS	NS	NS	---	---	---	---	21	21	21				
	8/18/2002	6.84	< 0.010	< 0.010	---	---	---	---	24	24	24				
	11/17/2002	6.37	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	7.10	0.007	0.008	---	---	---	---	24	24	24				
	6/26/2003	7.18	< 0.006	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	7.20	< 0.006	< 0.006	---	---	---	---	24	24	24				
	12/22/2003	NS	NS	NS	---	---	---	---	24	24	24				
	3/31/2004	7.17	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/20/2005	6.75	< 0.006	< 0.006	---	---	---	---	24	24	24				
	11/22/2005	6.80	0.006	< 0.006	---	---	---	---	24	24	24				
LMW-17	5/20/1983	---	NS	---	NS	---	---	---		24		24			
	9/16/1983	---	NS	---	NS	---	---	---		24		24			
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24		24		24	24
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24		24			
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/16/1987	---	NS	---	NS	---	---	---		24		24			
	7/8/1988	---	NS	NS	NS	---	---	---		24	24	24			
	12/19/1988	---	NS	---	---	NS	---	---		24			24		
	1/31/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/1/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/18/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/17/1990	NS	NS	NS	NS	---	---	---	24	24	24	24			
	7/18/1990	NS	---	---	---	NS	---	---	24				24		
	9/27/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	NS	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	NS	---	---	NS	---	---	24	24			24		
	12/20/1990	NS	---	NS	NS	NS	---	---	24		24	24	24		
	1/24/1991	NS	---	NS	---	---	---	---	24		24				
	1/25/1991	NS	NS	---	NS	NS	---	---	24	24		24	24		
	3/7/1991	NS	---	---	---	---	---	---	24						
	3/8/1991	NS	NS	---	---	---	---	---	24	24					

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	3/9/1991	NS	---	---	NS	---	---	---	24			24			
	3/10/1991	NS	---	NS	---	NS	---	---	24		24				
	6/29/1991	NS	NS	NS	---	---	---	---	24	24	24		24		
	6/30/1991	---	---	---	NS	NS	---	---				24	24		
	8/23/1991	NS	NS	NS	---	---	---	---	24	24	24				
	8/25/1991	---	---	---	NS	NS	---	---				24	24		
	11/10/1991	NS	NS	NS	NS	NS	---	---	24	24	24	24	24		
	2/22/1992	---	NS	NS	---	---	---	---		24	24				
	2/23/1992	NS	---	---	NS	NS	---	---	24			24	24		
	4/11/1992	---	NS	NS	---	---	---	---		24	24				
	4/12/1992	NS	---	---	NS	---	---	---	24			24			
	6/12/1992	---	NS	NS	---	---	---	---		24	24				
	6/14/1992	NS	---	---	NS	---	---	---	24			24			
	8/8/1992	---	NS	---	---	---	---	---		24					
	8/9/1992	NS	---	---	NS	---	---	---	24			24			
	10/9/1992	---	NS	---	---	---	---	---		24					
	10/11/1992	NS	---	---	NS	---	---	---	24			24			
	2/21/1993	NS	NS	NS	---	---	---	---	24	24	24				
	4/25/1993	NS	NS	NS	---	---	---	---	24	24	24				
	6/6/1993	NS	NS	NS	---	---	---	---	24	24	24				
	8/8/1993	NS	NS	NS	---	---	---	---	24	24	24				
	10/10/1993	NS	NS	NS	---	---	---	---	24	24	24				
	12/12/1993	NS	NS	NS	---	---	---	---	24	24	24				
	2/13/1994	NS	NS	NS	---	---	---	---	24	24	24				
	4/17/1994	NS	NS	NS	---	---	---	---	24	24	24				
	6/12/1994	NS	NS	NS	---	---	---	---	24	24	24				
	8/28/1994	NS	NS	NS	---	---	---	---	24	24	24				
	10/30/1994	NS	NS	NS	---	---	---	---	24	24	24				
	1/29/1995	NS	NS	NS	---	---	---	---	24	24	24				
	5/21/1995	NS	NS	NS	---	---	---	---	24	24	24				
	7/30/1995	---	NS	NS	---	---	---	---		24	24				
	9/24/1995	NS	NS	NS	---	---	---	---	24	24	24				
	11/19/1995	NS	NS	NS	---	---	---	---	24	24	24				
	1/27/1996	NS	NS	NS	---	---	---	---	24	24	24				
	3/31/1996	NS	NS	NS	---	---	---	---	24	24	24				
	5/19/1996	NS	NS	NS	---	---	---	---	24	24	24				
	7/21/1996	NS	NS	NS	---	---	---	---	24	24	24				
	9/8/1996	NS	NS	NS	---	---	---	---	24	24	24				
	11/10/1996	NS	NS	NS	---	---	---	---	24	24	24				
	1/25/1997	7.40	< 0.002	< 0.002	---	---	---	---	24	13	13				
	1/27/1997	---	< 0.002	< 0.002	---	---	---	---		24	24				
	3/15/1997	NS	---	---	---	---	---	---	24						
	3/16/1997	---	NS	NS	---	---	---	---		13	13				
	5/18/1997	7.00	< 0.002	0.003	---	---	---	---	24	13	13				
	8/3/1997	7.11	< 0.002	< 0.002	---	---	---	---	24	13	13				

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	9/28/1997	7.19	< 0.002	< 0.002	---	---	---	---	24	13	13				
	11/9/1997	7.08	0.006	0.006	---	---	---	---	24	13	13				
	3/29/1998	6.87	<0.002	<0.002	---	---	---	---	17	17	17				
	5/17/1998	6.87	< 0.002	< 0.002	---	---	---	---	17	17	17				
	7/26/1998	6.97	<0.002	<0.002	---	---	---	---	17	17	17				
	9/27/1998	7.07	0.0019	< 0.001	---	---	---	---	17	17	17				
	11/22/1998	6.83	<0.005	<0.005	---	---	---	---	17	17	17				
	5/24/1999	7.02	0.0075	< 0.005	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	6.80	0.012	0.0058	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	6.60	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	8.82	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	1/16/2000	6.89	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	6.88	< 0.010	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	6.92	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	7.06	---	---	---	---	---	---	20	20	20				
	7/1/2001	NS	NS	NS	---	---	---	---	20	20	20				
	8/12/2001	6.86	< 0.010	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	6.90	< 0.010	< 0.010	---	---	---	---	20	20	20				
	3/8/2002	6.79	---	---	---	---	---	---	21	21	21				
	6/30/2002	NS	NS	NS	---	---	---	---	21	21	21				
	8/18/2002	6.70	0.01	< 0.010	---	---	---	---	24	24	24				
	11/17/2002	6.88	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	6.99	0.006	0.006	---	---	---	---	24	24	24				
	6/26/2003	7.06	< 0.006	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	7.03	< 0.006	< 0.006	---	---	---	---	24	24	24				
	12/22/2003	NS	NS	NS	---	---	---	---	24	24	24				
	3/31/2004	7.03	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/20/2005	6.64	< 0.006	< 0.006	---	---	---	---	24	24	24				
	11/22/2005	6.58	< 0.006	< 0.006	---	---	---	---	24	24	24				
LMW-19	5/20/1983	---	NS	---	NS	---	---	---		24		24			
	9/16/1983	---	NS	---	NS	---	---	---		24		24			
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24		24		24	24
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24		24			
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/16/1987	---	NS	---	NS	---	---	---		24		24			
	7/8/1988	---	NS	NS	NS	---	---	---		24	24	24			
	12/19/1988	---	NS	---	---	NS	---	---		24			24		
	1/31/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/1/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/18/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/17/1990	NS	NS	NS	NS	---	---	---	24	24	24	24			

Table A17-2
Historical Data - Groundwater Samples
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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	7/18/1990	NS	---	---	---	NS	---	---	24				24		
	9/27/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	NS	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	NS	---	---	NS	---	---	24	24			24		
	12/20/1990	NS	---	NS	NS	NS	---	---	24		24	24	24		
	1/24/1991	NS	---	NS	---	---	---	---	24		24				
	1/25/1991	NS	NS	---	NS	NS	---	---	24	24		24	24		
	3/7/1991	NS	---	---	---	---	---	---	24						
	3/8/1991	NS	NS	---	---	---	---	---	24	24					
	3/9/1991	NS	---	---	NS	---	---	---	24			24			
	3/10/1991	NS	---	NS	---	NS	---	---	24		24		24		
	6/29/1991	NS	NS	NS	---	---	---	---	24	24	24				
	6/30/1991	---	---	---	NS	NS	---	---				24	24		
	8/23/1991	NS	NS	NS	---	---	---	---	24	24	24				
	8/25/1991	---	---	---	NS	NS	---	---				24	24		
	11/10/1991	NS	NS	NS	NS	NS	---	---	24	24	24	24	24		
	2/22/1992	---	NS	NS	---	---	---	---		24	24				
	2/23/1992	NS	---	---	NS	NS	---	---	24			24	24		
	4/11/1992	---	NS	NS	---	---	---	---		24	24				
	4/12/1992	NS	---	---	NS	---	---	---	24			24			
	6/12/1992	---	NS	NS	---	---	---	---		24	24				
	6/14/1992	NS	---	---	NS	---	---	---	24			24			
	8/8/1992	---	NS	---	---	---	---	---		24					
	8/9/1992	NS	---	---	NS	---	---	---	24			24			
	10/9/1992	---	NS	---	---	---	---	---		24					
	10/11/1992	NS	---	---	NS	---	---	---	24			24			
	2/21/1993	NS	NS	NS	---	---	---	---	24	24	24				
	4/25/1993	NS	NS	NS	---	---	---	---	24	24	24				
	6/6/1993	NS	NS	NS	---	---	---	---	24	24	24				
	8/8/1993	NS	NS	NS	---	---	---	---	24	24	24				
	10/10/1993	NS	NS	NS	---	---	---	---	24	24	24				
	12/12/1993	NS	NS	NS	---	---	---	---	24	24	24				
	2/13/1994	NS	NS	NS	---	---	---	---	24	24	24				
	4/17/1994	NS	NS	NS	---	---	---	---	24	24	24				
	6/12/1994	NS	NS	NS	---	---	---	---	24	24	24				
	8/28/1994	NS	NS	NS	---	---	---	---	24	24	24				
	10/30/1994	NS	NS	NS	---	---	---	---	24	24	24				
	1/29/1995	NS	NS	NS	---	---	---	---	24	24	24				
	5/21/1995	NS	NS	NS	---	---	---	---	24	24	24				
	7/30/1995	---	NS	NS	---	---	---	---		24	24				
	9/24/1995	NS	NS	NS	---	---	---	---	24	24	24				
	11/19/1995	NS	NS	NS	---	---	---	---	24	24	24				
	1/27/1996	NS	NS	NS	---	---	---	---	24	24	24				

Table A17-2
Historical Data - Groundwater Samples
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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	3/31/1996	NS	NS	NS	---	---	---	---	24	24	24				
	5/19/1996	NS	NS	NS	---	---	---	---	24	24	24				
	7/21/1996	NS	NS	NS	---	---	---	---	24	24	24				
	9/8/1996	NS	NS	NS	---	---	---	---	24	24	24				
	11/10/1996	NS	NS	NS	---	---	---	---	24	24	24				
	1/25/1997	NS	NS	NS	---	---	---	---	24	13	13				
	1/27/1997	---	NS	NS	---	---	---	---		24	24				
	3/15/1997	NS	---	---	---	---	---	---	24						
	3/16/1997	---	NS	NS	---	---	---	---		13	13				
	5/18/1997	6.60	< 0.002	0.003	---	---	---	---	24	13	13				
	8/3/1997	6.59	< 0.002	0.002	---	---	---	---	24	13	13				
	9/28/1997	6.65	< 0.002	< 0.002	---	---	---	---	24	13	13				
	11/9/1997	6.67	< 0.002	< 0.002	---	---	---	---	24	13	13				
	3/29/1998	6.62	<0.002	<0.002	---	---	---	---	17	17	17				
	5/17/1998	6.62	< 0.002	< 0.002	---	---	---	---	17	17	17				
	7/26/1998	6.48	0.002	<0.002	---	---	---	---	17	17	17				
	9/27/1998	6.58	0.0038	0.0025	---	---	---	---	17	17	17				
	11/22/1998	6.22	<0.005	<0.005	---	---	---	---	17	17	17				
	5/24/1999	7.10	0.017	0.014	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	7.00	0.014	0.014	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	6.70	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	6.93	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	1/16/2000	6.90	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	6.52	< 0.010	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	6.51	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	NS	< 0.010	< 0.010	---	---	---	---	20	20	20				
	7/1/2001	7.00	< 0.010	< 0.010	---	---	---	---	20	20	20				
	8/12/2001	7.03	< 0.010	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	7.10	< 0.010	< 0.010	---	---	---	---	20	20	20				
	3/8/2002	---	0.024	0.013	---	---	---	---	21	21	21				
	6/30/2002	7.01	---	---	---	---	---	---	21	21	21				
	8/18/2002	6.37	0.018	0.015	---	---	---	---	24	24	24				
	11/17/2002	6.74	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	6.68	0.01	0.009	---	---	---	---	24	24	24				
	6/26/2003	6.67	0.007	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	6.64	0.006	< 0.006	---	---	---	---	24	24	24				
	12/22/2003	7.00	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/31/2004	6.68	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/20/2005	6.31	< 0.006	< 0.006	---	---	---	---	24	24	24				
	11/22/2005	6.26	< 0.006	< 0.006	---	---	---	---	24	24	24				
LMW-20	5/20/1983	---	NS	---	NS	---	---	---		24		24			
	9/16/1983	---	NS	---	NS	---	---	---		24		24			
	5/22/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	12/20/1984	NS	NS	---	NS	---	NS	NS	24	24		24		24	24
	7/23/1985	---	NS	---	NS	---	NS	NS		24		24		24	24

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Sample Data										References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	4/24/1986	---	NS	---	---	---	---	---		24					
	1/26/1987	---	NS	---	NS	---	---	---		24		24			
	8/17/1987	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/16/1987	---	NS	---	NS	---	---	---		24		24			
	7/8/1988	---	NS	NS	NS	---	---	---		24	24	24			
	12/19/1988	---	NS	---	---	NS	---	---		24			24		
	1/31/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/1/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/18/1989	---	NS	NS	NS	NS	---	---		24	24	24	24		
	2/8/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	7/17/1990	NS	NS	NS	NS	---	---	---	24	24	24	24			
	7/18/1990	NS	---	---	---	NS	---	---	24				24		
	9/27/1990	---	NS	NS	NS	NS	---	---		24	24	24	24		
	12/5/1990	NS	---	---	---	---	---	---	24						
	12/6/1990	NS	---	---	---	---	---	---	24						
	12/12/1990	NS	---	---	---	---	---	---	24						
	12/13/1990	NS	NS	---	---	NS	---	---	24	24			24		
	12/20/1990	NS	---	NS	NS	NS	---	---	24		24	24	24		
	1/24/1991	NS	---	NS	---	---	---	---	24		24				
	1/25/1991	NS	NS	---	NS	NS	---	---	24	24		24	24		
	3/7/1991	NS	---	---	---	---	---	---	24						
	3/8/1991	NS	NS	---	---	---	---	---	24	24					
	3/9/1991	NS	---	---	NS	---	---	---	24			24			
	3/10/1991	NS	---	NS	---	NS	---	---	24		24		24		
	6/29/1991	NS	NS	NS	---	---	---	---	24	24	24				
	6/30/1991	---	---	---	NS	NS	---	---				24	24		
	8/23/1991	NS	NS	NS	---	---	---	---	24	24	24				
	8/25/1991	---	---	---	NS	NS	---	---				24	24		
	11/10/1991	NS	NS	NS	NS	NS	---	---	24	24	24	24	24		
	2/22/1992	---	NS	NS	---	---	---	---		24	24				
	2/23/1992	NS	---	---	NS	NS	---	---	24			24	24		
	4/11/1992	---	NS	NS	---	---	---	---		24	24				
	4/12/1992	NS	---	---	NS	---	---	---	24			24			
	6/12/1992	---	NS	NS	---	---	---	---		24	24				
	6/14/1992	NS	---	---	NS	---	---	---	24			24			
	8/8/1992	---	NS	---	---	---	---	---		24					
	8/9/1992	NS	---	---	NS	---	---	---	24			24			
	10/9/1992	---	NS	---	---	---	---	---		24					
	10/11/1992	NS	---	---	NS	---	---	---	24			24			
	2/21/1993	NS	NS	NS	---	---	---	---	24	24	24				
	4/25/1993	NS	NS	NS	---	---	---	---	24	24	24				
	6/6/1993	NS	NS	NS	---	---	---	---	24	24	24				
	8/8/1993	NS	NS	NS	---	---	---	---	24	24	24				
	10/10/1993	NS	NS	NS	---	---	---	---	24	24	24				
	12/12/1993	NS	NS	NS	---	---	---	---	24	24	24				

Table A17-2
Historical Data - Groundwater Samples
Data Tables and Reference Guide

Sample Data									References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	2/13/1994	NS	NS	NS	---	---	---	---	24	24	24				
	4/17/1994	NS	NS	NS	---	---	---	---	24	24	24				
	6/12/1994	NS	NS	NS	---	---	---	---	24	24	24				
	8/28/1994	NS	NS	NS	---	---	---	---	24	24	24				
	10/30/1994	NS	NS	NS	---	---	---	---	24	24	24				
	1/29/1995	NS	NS	NS	---	---	---	---	24	24	24				
	5/21/1995	NS	NS	NS	---	---	---	---	24	24	24				
	7/30/1995	---	NS	NS	---	---	---	---		24	24				
	9/24/1995	NS	NS	NS	---	---	---	---	24	24	24				
	11/19/1995	NS	NS	NS	---	---	---	---	24	24	24				
	1/27/1996	NS	NS	NS	---	---	---	---	24	24	24				
	3/31/1996	NS	NS	NS	---	---	---	---	24	24	24				
	5/19/1996	NS	NS	NS	---	---	---	---	24	24	24				
	7/21/1996	NS	NS	NS	---	---	---	---	24	24	24				
	9/8/1996	NS	NS	NS	---	---	---	---	24	24	24				
	11/10/1996	NS	NS	NS	---	---	---	---	24	24	24				
	1/25/1997	NS	NS	NS	---	---	---	---	24	13	13				
	1/27/1997	---	NS	NS	---	---	---	---		24	24				
	3/15/1997	NS	---	---	---	---	---	---	24						
	3/16/1997	---	NS	NS	---	---	---	---		13	13				
	5/18/1997	7.00	0.003	0.003	---	---	---	---	24	13	13				
	8/3/1997	7.11	< 0.002	< 0.002	---	---	---	---	24	13	13				
	9/28/1997	7.12	0.002	< 0.002	---	---	---	---	24	13	13				
	11/9/1997	7.09	0.003	< 0.002	---	---	---	---	24	13	13				
	3/29/1998	7.04	0.002	<0.002	---	---	---	---	17	17	17				
	5/17/1998	7.04	< 0.002	< 0.002	---	---	---	---	17	17	17				
	7/26/1998	7.00	<0.002	<0.002	---	---	---	---	17	17	17				
	9/27/1998	NS	NS	NS	---	---	---	---	17	17	17				
	11/22/1998	6.86	<0.005	<0.005	---	---	---	---	17	17	17				
	5/24/1999	7.02	0.0083	< 0.005	---	---	---	---	18	16, 18	16, 18				
	7/29/1999	6.90	0.011	< 0.005	---	---	---	---	18	16, 18	16, 18				
	10/3/1999	6.60	< 0.010	< 0.010	---	---	---	---	18	16, 18	16, 18				
	11/14/1999	6.86	---	---	---	---	---	---	18	18	18				
	1/16/2000	6.85	< 0.010	< 0.010	---	---	---	---	19	19	19				
	4/9/2000	6.88	< 0.010	< 0.010	---	---	---	---	24	24	24				
	7/30/2000	7.04	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/23/2001	NS	< 0.010	< 0.010	---	---	---	---	20	20	20				
	7/1/2001	NS	NS	NS	---	---	---	---	20	20	20				
	8/12/2001	6.84	< 0.010	< 0.010	---	---	---	---	20	20	20				
	11/4/2001	6.90	< 0.010	< 0.010	---	---	---	---	20	20	20				
	3/8/2002	---	< 0.010	< 0.010	---	---	---	---	21	21	21				
	6/30/2002	6.86	---	---	---	---	---	---	21	21	21				
	8/18/2002	6.88	< 0.010	< 0.010	---	---	---	---	24	24	24				
	11/17/2002	6.84	< 0.010	< 0.010	---	---	---	---	24	24	24				
	3/27/2003	7.09	0.008	0.008	---	---	---	---	24	24	24				

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Sample Data									References						
Well ID	Sample Date	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)	pH (s.u.)	Total Pb (mg/L)	Dissolved Pb (mg/L)	Total Cd (mg/L)	Dissolved Cd (mg/L)	Arsenic (mg/L)	Sulfate (mg/L)
	6/26/2003	7.00	< 0.006	< 0.006	---	---	---	---	24	24	24				
	7/18/2003	7.19	< 0.006	< 0.006	---	---	---	---	24	24	24				
	12/22/2003	6.60	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/31/2004	7.09	< 0.006	< 0.006	---	---	---	---	24	24	24				
	3/20/2005	6.81	< 0.006	< 0.006	---	---	---	---	24	24	24				
	11/22/2005	6.81	< 0.006	< 0.006	---	---	---	---	24	24	24				

Reference Guide

Reference Number	Reference Document
1	Dames and Moore, 1983. Report – Groundwater Investigation, Frisco, Texas Plant. Prepared for GNB Batteries, Inc. Metals Division. August 29.
2	Southwestern Laboratories (SWL), 1983. Letter to GNB RE: Monitor Well Water Sampling and Analyses. October 4.
3	Lake Engineering, Inc. (Lake), 1989. RCRA Facility Workplan for GNB Incorporated, Frisco, Texas. September 8.
4	Southwest Laboratories (SWL), 1987. Letter to GNB RE: Three Monitor Wells. September 10.
5	Southwestern Laboratories (SWL), 1984. Letter to Seyfarth, Shaw, Fairweather & Geraldson RE: Monitor Well Samples; Earth Samples. June 21.
6	Southwestern Laboratories (SWL), 1985. Letter to Seyfarth, Shaw, Fairweather & Geraldson RE: Monitor Well Samples; Earth Samples. January 7.
7	Lake Engineering, Inc. (Lake), 1991. RCRA Facility Investigation for GNB Incorporated, Frisco, Texas. May 8.
8	NDRC Laboratories, Inc. (NDRC), 1989. Analytical Report. February 1. Obtained from TCEQ records search.
9	Southwestern Laboratories (SWL), 1989. Letter to GNB RE: Monitor Well Sampling. March 8.
10	Resource Consultants (RCI), 1990-1991. Analytical Reports and Summary Tables, September 1990, December 1990, January 1991 and March 1991. groundwater sampling.
11	GNB Incorporated (GNB), 1994. Annual Activity Report for 1993. January 25.
12	GNB Incorporated (GNB), 1993. Annual Activity Report for 1992. May 26.
13	GNB Incorporated (GNB), 1998. Annual Activity Report for 1997. January 25.
14	GNB Incorporated (GNB), 1997. Annual Activity Report for 1996. January 25.
15	GNB Incorporated (GNB), 1996. Annual Activity Report for 1995. January 25.
16	GNB Incorporated (GNB), 2000. Annual Activity Report for 1999. March 20.
17	1998 GW sampling data provided by Exide
18	1999 GW sampling data provided by Exide
19	2000 GW sampling data provided by Exide
20	2001 GW sampling data provided by Exide
21	2002 GW sampling data provided by Exide
22	Monitoring Well Sample Results, December 1990, January 1991, March 1991, June 1991, August 1991, and November 1991; obtained from TCEQ records search
23	Lake Engineering, Inc. (Lake), 1991. RCRA Facility Investigation for GNB Incorporated, Frisco, Texas. May 8.
	Lake Engineering, Inc. (Lake), 1993. Addendum to the RCRA Facility Investigation for GNB Incorporated, Frisco, Texas. December 10.
24	Data provided by Conestoga-Rovers and Associates.

Notes:

1. Sample locations shown as described in original referenced reports.
2. Data are from historical FRC documents. Not all data could be confirmed through comparison to original laboratory reports.

Table A17-3A
Historical Data - Sediment Samples
Lead and Cadmium

Sample/Location Number	Location	Depth	Total Metals		SPLP
			Lead (mg/kg)	Cadmium (mg/kg)	SPLP Cadmium (mg/kg)
Data Source: Southwestern Laboratories (SWL), 1986a. Water and Sediment Tests, GNB Lead Plant. February 21.					
2S	--	--	110	2	--
4S	--	--	2290 ppm	30	--
5S	--	--	970	5	--
6S	--	--	120	12	--
Data Source: Lake Engineering, Inc. (Lake), 1991. RCRA Facility Investigation for GNB Incorporated, Frisco, Texas. May 8.					
1-SS	Stewart Creek at NW property line	0 - 6"	1450	15.7	--
2-SS	Stewart Creek 2400 ft downstream of 5th Street	0 - 6"	784	40.3	--
3-SS	Stewart Creek 1750 ft downstream of 5th Street	0 - 6"	78100	5	--
4-SS	Stewart Creek 1300 ft downstream of 5th Street	0 - 6"	6830	27	--
5-SS	Stewart Creek 750 ft downstream of 5th Street	0 - 6"	34	3.5	--
6-SS	Stewart Creek 450 ft downstream of 5th Street	0 - 6"	334	4.8	--
7-SS	Stewart Creek at 5th Street east side of street	0 - 6"	39	3.4	--
8-SS	North Tributary 1350 ft downstream of 5th Street	0 - 6"	423	4.2	--
9-SS	North Tributary 950 ft downstream of 5th Street	0 - 6"	87	4.4	--
10-SS	Stewart Creek 100 ft upstream of 5th Street	0 - 6"	47	4.5	--
SS-1	Stewart Creek at NW property line	0 - 6"	2740	22.7	--
SS-2	Stewart Creek 2400 ft downstream of 5th Street	0 - 6"	3520	29.7	--
SS-3	Stewart Creek 1750 ft downstream of 5th Street	0 - 6"	1210	97.6	--
SS-4	Stewart Creek 1300 ft downstream of 5th Street	0 - 6"	1740	10.2	--
SS-6	Stewart Creek 450 ft downstream of 5th Street	0 - 6"	60	3.2	--
SS-8	North Tributary 1350 ft downstream of 5th Street	0 - 6"	45	4.8	--
Data Source: Background Sediment Data. Data source: GNB Incorporated (GNB), 1995. Letter to TNRCC RE: Stewart Creek Phase II Implementation. March 20.					
BSED-1	220 ft upstream of 5th Street	--	59	0.15	--
BSED-2	240 ft upstream of 5th Street	--	41	0.15	--
BSED-3	390 ft upstream of 5th Street	--	45	0.15	--
BSED-4	410 ft upstream of 5th Street	--	43	0.15	--
BSED-5	560 ft upstream of 5th Street	--	41	0.15	--
BSED-6	580 ft upstream of 5th Street	--	33	0.15	--
BSED-7	600 ft upstream of 5th Street	--	25	0.15	--
BSED-8	700 ft upstream of 5th Street	--	34	0.15	--
BSED-9	Stewart Creek and Stonebrook	--	46	2.7	--
BSED-10	Stewart Creek and Stonebrook	--	25	2.2	--
BSED-11	Stewart Creek at Preston	--	23	2.1	--
BSED-12	Stewart Creek at Preston	--	21	2	--
BSED-13	North Stewart Creek at 5th Street	--	x	2.6	--
BSED-14	North Stewart Creek at 5th Street	--	55	4	--
BSED-15	North Stewart Creek at 5th Street	--	40	2.3	--
BSED-16	North Stewart Creek at 5th Street	--	15	1.3	--
BSED-17	North Stewart Creek at 5th Street	--	36	2.72	--
BSED-18	North Stewart Creek at 5th Street	--	34	2.18	--
BSED-19	Cottonwood Creek	--	25	1.9	--
BSED-20	Cottonwood Creek	--	23	0.15	--

Table A17-3A
Historical Data - Sediment Samples
Lead and Cadmium

Sample/Location Number	Location	Depth	Total Metals		SPLP
			Lead (mg/kg)	Cadmium (mg/kg)	SPLP Cadmium (mg/kg)
Data Source: GNB Incorporated (GNB), 1995. Letter to TNRCC RE: Stewart Creek Phase II Implementation. March 20.					
41	Stewart Creek 100 ft downstream of 5th Street	0 - 6"	115	0.3	--
41	Stewart Creek 100 ft downstream of 5th Street	6 - 12"	26	0.3	--
39	Stewart Creek 300 ft downstream of 5th Street	0 - 6"	37	3.3	--
37	Stewart Creek 500 ft downstream of 5th Street	0 - 6"	51	3.3	--
33	Stewart Creek 900 ft downstream of 5th Street	0 - 6"	59	0.3	--
32	Stewart Creek 1000 ft downstream of 5th Street	0 - 6"	43	0.3	--
31	Stewart Creek 1100 ft downstream of 5th Street	0 - 6"	10600	33	--
31	Stewart Creek 1100 ft downstream of 5th Street	6 - 12"	39	0.3	--
30	Stewart Creek 1200 ft downstream of 5th Street	0 - 6"	31	0.3	--
30	Stewart Creek 1200 ft downstream of 5th Street	6 - 12"	35	0.3	--
28	Stewart Creek 1400 ft downstream of 5th Street	0 - 6"	102	7	--
28	Stewart Creek 1400 ft downstream of 5th Street	6 - 12"	26	0.3	--
28	Stewart Creek 1400 ft downstream of 5th Street	12 - 18"	30	0.3	--
28	Stewart Creek 1400 ft downstream of 5th Street	18 - 24"	28	0.3	--
27	Stewart Creek 1500 ft downstream of 5th Street	0 - 6"	104	0.3	--
27	Stewart Creek 1500 ft downstream of 5th Street	6 - 12"	31	0.3	--
26	Stewart Creek 1600 ft downstream of 5th Street	0 - 6"	6990	2.2	--
25	Stewart Creek 1700 ft downstream of 5th Street	0 - 6"	276	4.7	--
24	Stewart Creek 1800 ft downstream of 5th Street	0 - 6"	225	0.3	--
24	Stewart Creek 1800 ft downstream of 5th Street	0 - 6"	66	0.3	--
23	Stewart Creek 1900 ft downstream of 5th Street	0 - 6"	272	6.2	--
22	Stewart Creek 2000 ft downstream of 5th Street	0 - 6"	357	5.2	--
22	Stewart Creek 2000 ft downstream of 5th Street	0 - 6"	402	2.3	--
21	Stewart Creek 2100 ft downstream of 5th Street	0 - 6"	313	7.7	--
20	Stewart Creek 2200 ft downstream of 5th Street	0 - 6"	371	10.4	--
19	Stewart Creek 2300 ft downstream of 5th Street	0 - 6"	96	0.3	--
19	Stewart Creek 2300 ft downstream of 5th Street	6 - 12"	20	0.3	--
19	Stewart Creek 2300 ft downstream of 5th Street	12 - 18"		0.3	--
18	Stewart Creek 2400 ft downstream of 5th Street	0 - 6"	106	0.3	--
18	Stewart Creek 2400 ft downstream of 5th Street	6 - 12"	30	0.3	--
17	Stewart Creek 2500 ft downstream of 5th Street	0 - 6"	74	3.7	--
17	Stewart Creek 2500 ft downstream of 5th Street	6 - 12"	63	0.3	--
15	Stewart Creek 2600 ft downstream of 5th Street	0 - 6"	28	0.3	--
15	Stewart Creek 2600 ft downstream of 5th Street	6 - 12"	47	0.3	--
15RR	Stewart Creek 2700 ft downstream of 5th Street	0 - 6"	184	0.3	--
15RR	Stewart Creek 2700 ft downstream of 5th Street	6 - 12"	6630	1	--
15RR	Stewart Creek 2700 ft downstream of 5th Street	12 - 18"	232	0.3	--
15RR	Stewart Creek 2700 ft downstream of 5th Street	18 - 24"	228	4.8	--
14	Stewart Creek 2800 ft downstream of 5th Street	0 - 6"	59	2.9	--
14	Stewart Creek 2800 ft downstream of 5th Street	6 - 12"	33	0.3	--
14	Stewart Creek 2800 ft downstream of 5th Street	12 - 18"	28	0.3	--

Table A17-3A
Historical Data - Sediment Samples
Lead and Cadmium

Sample/Location Number	Location	Depth	Total Metals		SPLP
			Lead (mg/kg)	Cadmium (mg/kg)	SPLP Cadmium (mg/kg)
Data Source: GNB Incorporated (GNB), 1995. Letter to TNRCC RE: Stewart Creek Phase II Implementation. March 20.					
13	Stewart Creek 2900 ft downstream of 5th Street	0 - 6"	199	8.6	--
12	Stewart Creek 3000 ft downstream of 5th Street	0 - 6"	125	0.3	--
11	Stewart Creek 3100 ft downstream of 5th Street	0 - 6"	96	0.3	--
10	Stewart Creek 3200 ft downstream of 5th Street	0 - 6"	150	2.1	--
9	Stewart Creek 3300 ft downstream of 5th Street	0 - 6"	172	6.3	--
8	Stewart Creek 3400 ft downstream of 5th Street	0 - 6"	115	2.2	--
7	Stewart Creek 3500 ft downstream of 5th Street	0 - 6"	152	0.3	--
6	Stewart Creek 3600 ft downstream of 5th Street	0 - 6"	106	5.6	--
5	Stewart Creek 3700 ft downstream of 5th Street	0 - 6"	47	0.3	--
5	Stewart Creek 3700 ft downstream of 5th Street	6 - 12"	5	0.3	--
5	Stewart Creek 3700 ft downstream of 5th Street	12 - 18"	16	0.3	--
4	Stewart Creek 3800 ft downstream of 5th Street	0 - 6"	63	1.6	--
4	Stewart Creek 3800 ft downstream of 5th Street	6 - 12"	51	2.6	--
3	Stewart Creek 3900 ft downstream of 5th Street	0 - 6"	154	1.4	--
3	Stewart Creek 3900 ft downstream of 5th Street	6 - 12"	53	0.3	--
2	Stewart Creek 4000 ft downstream of 5th Street	0 - 6"	196	1.4	--
2	Stewart Creek 4000 ft downstream of 5th Street	6 - 12"	16	0.3	--
2	Stewart Creek 4000 ft downstream of 5th Street	12 - 18"	80	3.7	--
1	Stewart Creek 4100 ft downstream of 5th Street	0 - 6"	5	0.3	--
1	Stewart Creek 4100 ft downstream of 5th Street	6 - 12"	28	0.3	--
48	Stewart Creek 4200 ft downstream of 5th Street	0 - 6"	88	6.6	--
47	Stewart Creek 4300 ft downstream of 5th Street	0 - 6"	104	3	--
46	Stewart Creek 4400 ft downstream of 5th Street	0 - 6"	90	3.3	--
46	Stewart Creek 4400 ft downstream of 5th Street	0 - 6"	74	3.5	--
45	Stewart Creek 4500 ft downstream of 5th Street	0 - 6"	68	4.1	--
44	Stewart Creek 4600 ft downstream of 5th Street	0 - 6"	47	5.2	--
44	Stewart Creek 4600 ft downstream of 5th Street	6 - 12"	96	3.4	--
43	Stewart Creek 4700 ft downstream of 5th Street	0 - 6"	76	4	--
42	Stewart Creek 4800 ft downstream of 5th Street	0 - 6"	112	4.8	--
42	Stewart Creek 4800 ft downstream of 5th Street	6 - 12"	92	7.5	--
49	Stewart Creek 4900 ft downstream of 5th Street	0 - 6"	67	3.1	--
50	Stewart Creek 5000 ft downstream of 5th Street	0 - 6"	96	4.3	--
51	Stewart Creek 5100 ft downstream of 5th Street	0 - 6"	76	5.2	--
51	Stewart Creek 5100 ft downstream of 5th Street	6 - 12"	55	5	--
52	Stewart Creek 5200 ft downstream of 5th Street	0 - 6"	106	3.4	--
53	Stewart Creek 5300 ft downstream of 5th Street	0 - 6"	68	3.3	--
54	Stewart Creek 5400 ft downstream of 5th Street	0 - 6"	100	3.6	--
55	Stewart Creek 5500 ft downstream of 5th Street	0 - 6"	65	3.8	--
71	Stewart Creek 6200 ft downstream of 5th Street	0 - 6"	107	2.9	--
70	Stewart Creek 6300 ft downstream of 5th Street	0 - 6"	93	3	--
69	Stewart Creek 6400 ft downstream of 5th Street	0 - 6"	80	2.8	--
68	Stewart Creek 6500 ft downstream of 5th Street	0 - 6"	303	7.1	--

Table A17-3A
Historical Data - Sediment Samples
Lead and Cadmium

Sample/Location Number	Location	Depth	Total Metals		SPLP
			Lead (mg/kg)	Cadmium (mg/kg)	SPLP Cadmium (mg/kg)
Data Source: GNB Incorporated (GNB), 1995. Letter to TNRCC RE: Stewart Creek Phase II Implementation. March 20.					
67	Stewart Creek 6600 ft downstream of 5th Street	0 - 6"	106	2.7	--
66	Stewart Creek 6700 ft downstream of 5th Street	0 - 6"	158	8.8	--
65	Stewart Creek 6800 ft downstream of 5th Street	0 - 6"	97	3.5	--
64	Stewart Creek 6900 ft downstream of 5th Street	0 - 6"	60	5.7	--
63	Stewart Creek 7000 ft downstream of 5th Street	0 - 6"	442	37	--
62	Stewart Creek 7100 ft downstream of 5th Street	0 - 6"	69	7	--
61	Stewart Creek 7200 ft downstream of 5th Street	0 - 6"	323	13	--
60	Stewart Creek 7300 ft downstream of 5th Street	0 - 6"	80	6.9	--
59	Stewart Creek 7400 ft downstream of 5th Street	0 - 6"	142	10	--
58	Stewart Creek 7500 ft downstream of 5th Street	0 - 6"	88	5.7	--
57	Stewart Creek 7600 ft downstream of 5th Street	0 - 6"	155	18	--
56	Stewart Creek 7700 ft downstream of 5th Street	0 - 6"	91	2.2	--
Data Source: Table A-5, Sediment Sampling Results Lead and Cadmium, RMT - 5/19/1995					
SD-109	Stewart Cr. 1000 ft downstream of Bowan Rd. Bridge	0 - 6"	49	3.3	--
SD-110B	Stewart Creek on west side of Bowan Road Bridge	0 - 6"	56	3.4	--
SB-111	Stewart Cr. due north of Stewart Creek West WWTP	0 - 6"	63	3.7	--
Data Source: RMT/Jones & Neuse, Inc. (RMT/JN), 1996. Stewart Creek Final Phase II Report, GNB Technologies, Frisco, Texas. May.					
SD-01-02	--	--	18	2.9	--
SD-01-02	--	--	14	2.3	--
SD-01-03	--	--	15	2.2	--
SD-01-04	--	--	18	2.5	--
SD-01-05	--	--	16	2.8	--
SD-02-01	--	--	16	2.3	--
SD-02-02	--	--	15	2.6	--
SD-02-03	--	--	16	2.2	--
SD-02-04	--	--	20	3.8	<0.005
SD-02-05	--	--	23	3.2	--
SD-DUP-1	--	--	19	2.5	--
SD-03-01	--	--	15	1.9	--
SD-03-02	--	--	14	2.2	--
SD-03-03	--	--	21	3	--
SD-04-01	--	--	12	1.1	<0.005
SD-04-02	--	--	13	1.2	--
SD-04-03	--	--	11	1	--
SD-04-04	--	--	9	0.91	--
SD-04-05	--	--	10	<0.70	--
SD-05-01	--	--	13	1.2	--
SD-05-02	--	--	14	2.7	--
SD-05-03	--	--	11	1	--
SD-06-01	--	--	23	2.8	--
SD-06-02	--	--	23	4.5	--
SD-06-03	--	--	24	6.9	<0.005
SD-DUP-2	--	--	25	4	--

Table A17-3A
Historical Data - Sediment Samples
Lead and Cadmium

Sample/Location Number	Location	Depth	Total Metals		SPLP
			Lead (mg/kg)	Cadmium (mg/kg)	SPLP Cadmium (mg/kg)
Data Source: JD Consulting, L.P. (JDC), 2000. Stewart Creek Corrective Measures Implementation Report. Report prepared for GNB and submitted to the TNRCC, July 13.					
Downstream 20	Station 1+00 North Side Wall	--	70	0.79	--
Downstream 20	Station 1+00 Centerline	--	32	0.37	--
Downstream 20	Station 1+00 South Side Wall	--	7.4	0.21	--
Downstream 19	Station 2+00 North Side Wall	--	68	0.9	--
Downstream 19	Station 2+00 Centerline	--	4.8	0.28	--
Downstream 19	Station 2+00 South Side Wall	--	58	0.6	--
Downstream 18	Station 3+00 North Side Wall	--	79	0.59	--
Downstream 18	Station 3+00 Centerline	--	6.5	0.3	--
Downstream 18	Station 3+00 South Side Wall	--	10	0.26	--
Downstream 17	Station 4+00 North Side Wall	--	84	2.4	--
Downstream 17	Station 4+00 Centerline	--	11	<0.2	--
Downstream 17	Station 4+00 South Side Wall	--	8.9	0.4	--
Downstream 16	Station 5+00 North Side Wall	--	44	2.1	--
Downstream 16	Station 5+00 Centerline	--	12	BDL	--
Downstream 16	Station 5+00 South Side Wall	--	12	BDL	--
Downstream 15	Station 6+00 North Side Wall	--	6.9	0.2	--
Downstream 15	Station 6+00 Centerline	--	5.9	0.4	--
Downstream 15	Station 6+00 South Side Wall	--	10	BDL	--
Downstream 14	Station 7+00 North Side Wall	--	6.9	0.3	--
Downstream 14	Station 7+00 Centerline	--	6.8	0.3	--
Downstream 14	Station 7+00 South Side Wall	--	8.1	0.3	--
Downstream 13	Station 8+00 North Side Wall	--	6.8	0.4	--
Downstream 13	Station 8+00 Centerline	--	16	0.3	--
Downstream 13	Station 8+00 South Side Wall	--	6.9	0.3	--
Downstream 12	Station 9+00 North Side Wall	--	0.3	10	--
Downstream 12	Station 9+00 Centerline	--	0.8	9.4	--
Downstream 12	Station 9+00 South Side Wall	--	8.7	0.41	--
Downstream 11	Station 10+00 North Side Wall	--	8.2	1.3	--
Downstream 11	Station 10+00 Centerline	--	6.2	0.5	--
Downstream 11	Station 10+00 South Side Wall	--	6.4	0.6	--
Downstream 10	Station 11+00 North Side Wall	--	6	0.3	--
Downstream 10	Station 11+00 Centerline	--	6.3	0.3	--
Downstream 10	Station 11+00 South Side Wall	--	8.8	0.3	--
Downstream 9	Station 12+00 North Side Wall	--	54	0.5	--
Downstream 9	Station 12+00 Centerline	--	6.3	0.3	--
Downstream 9	Station 12+00 South Side Wall	--	6.1	0.3	--
Downstream 8	Station 13+00 North Side Wall	--	6.8	0.4	--
Downstream 8	Station 13+00 Centerline	--	16	0.3	--
Downstream 8	Station 13+00 South Side Wall	--	6.9	0.3	--
Downstream 7	Station 14+00 North Side Wall	--	6.9	0.3	--
Downstream 7	Station 14+00 Centerline	--	6.8	0.3	--
Downstream 7	Station 14+00 South Side Wall	--	8.1	0.3	--

Table A17-3A
Historical Data - Sediment Samples
Lead and Cadmium

Sample/Location Number	Location	Depth	Total Metals		SPLP
			Lead (mg/kg)	Cadmium (mg/kg)	SPLP Cadmium (mg/kg)
Data Source: JD Consulting, L.P. (JDC), 2000. Stewart Creek Corrective Measures Implementation Report. Report prepared for GNB and submitted to the TNRCC, July 13.					
Downstream 6	Station 15+00 North Side Wall	--	6.9	0.2	--
Downstream 6	Station 15+00 Centerline	--	5.9	0.4	--
Downstream 6	Station 15+00 South Side Wall	--	10	BDL	--
Downstream 5	Station 16+00 North Side Wall	--	44	BDL	--
Downstream 5	Station 16+00 Centerline	--	12	BDL	--
Downstream 5	Station 16+00 South Side Wall	--	12	0.2	--
Downstream 4	Station 17+00 North Side Wall	--	84	2.4	--
Downstream 4	Station 17+00 Centerline	--	11	0.2	--
Downstream 4	Station 17+00 South Side Wall	--	8.9	0.4	--
Downstream 3	Station 18+00 North Side Wall	--	79	0.59	--
Downstream 3	Station 18+00 Centerline	--	6.5	0.3	--
Downstream 3	Station 18+00 South Side Wall	--	10	0.26	--
Downstream 2	Station 19+00 North Side Wall	--	68	0.9	--
Downstream 2	Station 19+00 Centerline	--	4.8	0.28	--
Downstream 2	Station 19+00 South Side Wall	--	58	0.6	--
Downstream 1	Station 20+00 North Side Wall	--	70	0.79	--
Downstream 1	Station 20+00 Centerline	--	32	0.37	--
Downstream 1	Station 20+00 South Side Wall	--	7.4	0.21	--
Upstream 1	Station 21+00 North Side Wall	--	7.2	0.4	--
Upstream 1	Station 21+00 Centerline	--	5.1	0.2	--
Upstream 1	Station 21+00 South Side Wall	--	11	0.34	--
Upstream 2	Station 22+00 North Side Wall	--	35	0.5	--
Upstream 2	Station 22+00 Centerline	--	9	0.32	--
Upstream 2	Station 22+00 South Side Wall	--	8.2	0.28	--
Upstream 3	Station 23+00 North Side Wall	--	8	0.31	--
Upstream 3	Station 23+00 Centerline	--	32	0.4	--
Upstream 3	Station 23+00 South Side Wall	--	8.3	0.38	--
Upstream 4	Station 24+00 North Side Wall	--	7.3	0.28	--
Upstream 4	Station 24+00 Centerline	--	15	0.3	--
Upstream 4	Station 24+00 South Side Wall	--	55	0.61	--
Upstream 5	Station 25+00 North Side Wall	--	18	0.32	--
Upstream 5	Station 25+00 Centerline	--	51	0.59	--
Upstream 5	Station 25+00 South Side Wall	--	11	0.29	--
Upstream 6	Station 26+00 North Side Wall	--	15	0.46	--
Upstream 6	Station 26+00 Centerline	--	13	0.46	--
Upstream 6	Station 26+00 South Side Wall	--	5.7	0.2	--
Upstream 7	Station 27+00 North Side Wall	--	13	0.39	--
Upstream 7	Station 27+00 Centerline	--	86	0.65	--
Upstream 7	Station 27+00 South Side Wall	--	5.4	0.21	--

Notes:

1. Data are from historical FRC documents. Not all data could be confirmed through comparison to original laboratory reports.
2. Sample locations shown as described in original referenced reports.
3. Shaded cells indicate samples that were collected within areas that have been remediated since collection of the samples, either in 1986 (SWL, 1986b-1986d) or 2000 (JDC, 2000).
4. BDL = Below Detection Limit

Table A17-3B
Historical Data - Sediment Samples
Lead, Cadmium, and Other Analytes

Analyte	Stewart Creek #1	Stewart Creek #2	Stewart Creek #3
	01/08/91	01/09/91	01/09/91
Data Source: Resource Consultants, Inc. (RCI), 1991. Stream Investigation, Stewart Creek, Collin County, Texas. RCI Project No. 1-3340, February.			
Aluminum	1970	1640	1580
Antimony	<1	<1	<1
Arsenic	0.8	1.3	7.2
Barium	27	190	456
Cadmium	<0.3	22	13
Calcium	25300	144000	220000
Chromium	5	16	10
Copper	5	12	13
Lead	25	28	11
Magnesium	504	1070	1430
Mercury	<0.1	<0.1	<0.1
Selenium	<1	<1	<1
Silver	<0.5	<0.5	<0.5
Sodium	100	1340	709
Zinc	15	48	407
Ammonia	39	210	23.7
Chloride	<100	<100	<100
Sulfate	<500	600	600
Total Phosphorus	930	940	5940
% Total Solids	51.8	55.4	84.6

Notes:

1. Data are from historical FRC documents. Not all data could be confirmed through comparison to original laboratory reports.
2. Sample locations shown as described in original referenced reports.
3. Results in mg/kg.

Table A17-4A
Historical Data - Surface Water Samples
Lead and Cadmium

Sample/Location Number	Total Metals		Dissolved Metals		
	Lead (mg/l)	Cadmium (mg/l)	Lead (mg/l)	Cadmium (mg/l)	pH
Data Source: Lake Engineering, Inc. (Lake), 1991. RCRA Facility Investigation for GNB Incorporated, Frisco, Texas. May 8.					
1SW001	0.014	0.030	0.001	<0.005	8.0
2SW001	0.015	<0.005	0.001	<0.005	7.8
3SW001	0.027	<0.005	0.001	<0.005	8.0
4SW001	0.012	<0.005	0.001	<0.005	7.9
5SW001	<0.001	<0.005	0.001	<0.005	7.9
6SW001	0.002	<0.005	0.001	<0.005	8.1
7SW001	0.002	<0.005	0.001	<0.005	7.8
8SW001	0.004	<0.005	0.001	<0.005	7.7
9SW001	0.017	<0.005	0.001	<0.005	7.8
10SW001	0.001	<0.005	0.001	<0.005	8.0
11SW001	15.4	0.190	0.370	0.030	7.2
Data Source: Southwestern Laboratories (SWL), 1986a. Water and Sediment Tests, GNB Lead Plant. February 21.					
1W	<0.01	<0.01	--	--	--
3W	0.01	<0.01	--	--	--
6W	<0.01	0.01	--	--	--

Notes:

1. Sample locations shown as described in original referenced reports.
2. Data are from historical FRC documents. Not all data could be confirmed through comparison to original laboratory reports.

Table A17-4B
Historical Data - Surface Water Samples
Lead, Cadmium, and Other Analytes

Analyte	Stewart Creek #1	Stewart Creek #2	Stewart Creek #3
	01/08/91	01/09/91	01/09/91
Data Source: Resource Consultants, Inc. (RCI), 1991. Stream Investigation, Stewart Creek, Collin County, Texas. RCI Project No. 1-3340, February.			
Aluminum	<0.01	0.5	0.5
Antimony	<0.005	0.031	0.021
Arsenic	<0.002	0.003	0.004
Barium	<0.1	<0.1	<0.1
Cadmium	<0.005	<0.005	<0.005
Calcium	86.4	79.6	88.3
Chromium	<0.02	<0.02	<0.02
Copper	<0.01	<0.01	<0.01
Lead	0.005	0.019	0.016
Magnesium	2.09	3.81	3.11
Mercury	<0.0002	<0.0002	<0.0002
Selenium	0.01	0.02	0.01
Silver	<0.01	<0.01	<0.01
Sodium	21	729	312
Zinc	0.02	0.04	0.03
Chloride	8	51	52
Ammonia	<0.1	0.98	1
Sulfate	64	1320	880
Total Dissolved Solids (TDS)	0.04	1.3	1.28
Total Phosphorus	320	2390	1890

Notes:

1. Sample locations shown as described in original referenced reports.
2. Data are from historical FRC documents. Not all data could be confirmed through comparison to original laboratory reports.
3. Results in mg/L.

Appendix 18

W&M Slag and Battery Case Chip Survey Report

March 28, 2013

Matt Love, Environmental Manager
Exide Technologies, Inc.
7471 South 5th Street
Frisco, Texas 75034

RE: Inspection of Facility Operating Areas
Exide Facility
7471 South 5th Street
Frisco, Texas
W&M Project No. 112.072

Dear Mr. Love:

This letter summarizes the observations resulting from visual inspections for the presence of exposed slag or plastic battery casings at Exide Technologies' plant located in Frisco, Texas (refer to Location Plan, **Figure 1**). The inspections were completed at various times from May 2009 to March 2013, and focused on portions of the property that have been designated as facility operating areas, as described below.

In May/June 2009, W&M performed a visual assessment for the presence of slag within a segment of Stewart Creek located downstream (west) from the principal operating areas at the Site. In December 2011, W&M conducted a visual inspection for battery case fragments from crushed lead-acid batteries and slag fragments in the two historic disposal areas located on the north and south portions of the main Exide facility in Frisco, Texas In March 2013, W&M completed additional inspections on the remaining Exide facility operating areas including the "RCRA Permitted Area", the area around the operating Class 2 non-hazardous waste landfill in the northern portion of the Site, and a wooded area between the two (refer to Site layout, **Figure 2**). The inspections included recording the Global Positioning System (GPS) coordinates of any such material identified documenting observations regarding each location, and determining the extent of erosion in the disposal areas, if present.

This letter describes the methodology used and results from both the December 2011 and March 2013 inspections. This report includes the findings of the December 2011 inspection (which were previously reported in W&M's report titled "Suspect Slag Sampling Report" dated March 28, 2011 and "North and South Disposal Area Evaluation" dated December 28, 2011).

BACKGROUND AND PROJECT SCOPE

Exide Technologies' predecessors reportedly placed treated and untreated lead slag (slag), battery case fragments from crushed lead-acid batteries, and similar debris in areas located on the north and south portions of the main plant facility. The disposal areas no longer receive waste materials and are capped with soil and vegetative cover. In addition to these two disposal areas, a gun range was formerly operated along the western edge of the south disposal area that utilized an earthen berm as a bullet backstop.

In 1993, an addendum to the 1991 RCRA Facility Investigation (RFI) was completed to delineate the boundaries of each disposal area. **Figure 3** outlines the approximate boundaries of the north disposal area as determined in that report, as well as two "slag landfill" areas located to the northwest. The south disposal area as documented in the 1993 Addendum to the RFI is also depicted on **Figure 3,** along with the west adjacent gun range berm.

In 2011, Exide engaged W&M to assess the condition of the soil cap in each disposal area, note areas of soil erosion and/or exposed waste materials, and note any waste materials located outside of the documented disposal areas. For purposes of this evaluation, the three fill areas in the northern portion of the plant are designated collectively as the north disposal area (NDA) and the fill area south of the main plant is referred to as the south disposal area (SDA). In 2013, Exide engaged W&M to assess the remaining Exide facility operating area. The remaining areas included the area of the operating Class 2 non-hazardous waste landfill, and the densely vegetated area around the northern tributary to Stewart Creek. Stewart Creek was inspected again in 2013. This report summarizes field observations made by W&M while inspecting each area.

Photographs of some of the materials and features observed are provided in **Attachment A**.

CAP INSPECTION

Using figures completed for Exide's predecessor (GNB Incorporated drawing number 495-171 April 9, 1991, and drawing number 494-170, April 9, 1991) and figures from Exide's Storm Water Pollution Prevention Plan (provided by W&M), each disposal area was systematically walked to document evidence of slag or battery case fragments, and make notations as to their location and quantity in each area. The assessment consisted of visual, on the ground observations only and did not include physical digging or intrusive investigations. Features and materials observed were marked with flags and/or documented using a Trimble GeoXT GPS receiver. Each feature has been assigned a unique designation and number along with its geographic coordinates, and the locations are summarized in **Table 1**.

South Disposal Area

Beginning at the northeast extent of the SDA, W&M staff traversed the disposal area along north-south transects spaced at intervals of 75 feet or less. W&M staff observed cracks in the soil caused by drought conditions, principally in the western lobe of the disposal area as well as outside of the disposal area. An area of erosion covering approximately 500 square feet was observed near the northeastern extent of the documented disposal area. Neither slag nor battery case fragments were observed within the eroded area. An area of surface depression was noted in the central portion of the SDA, however no evidence of slag or battery case fragments was noted.

Figure 4 displays the surface features observed while canvassing the SDA. Slag material and battery case fragments were only observed near three small animal burrows within the SDA (as documented in **Photo 3** and **Photo 4**). The slag and battery case fragments observed near the burrowing entrances had an approximate diameter of one to five inches.

North Disposal Area

Using procedures similar to those used while inspecting the SDA, W&M staff inspected the cap within the three filled areas comprising the NDA. As with the SDA, evidence of vegetative heat stress and soil desiccation were noted in the NDA. Exposed slag or battery case fragments were observed in materials storage areas and within areas of heavy vehicular traffic, including a few locations on or north of the

unpaved roadway that mirrors the northern boundary of the NDA, and in the southern portions of the NDA. Materials within the southern area of the NDA area included battery case fragments and 4-inch to 6-inch diameter pieces of untreated slag fragments. Slag fragments were observed near a storm water drainage pipe leading under the paved roadway adjoining the blast furnace building. The mounded section of the NDA (slag landfill area), located just south of the northern tributary to Stewart Creek and west of the paved roadway, was observed to have isolated areas of slag fragments atop the mound and along the western slope. The steeper, south face of the mound was observed to have poor vegetative cover, but no exposed slag or battery case fragments were observed.

Figure 5 depicts the areas where battery case and slag fragments were observed in the NDA.

OBSERVATION OF MATERIALS OUTSIDE OF DISPOSAL AREAS

In addition to noting the conditions within the disposal areas, W&M observed slag or battery case fragments outside of the disposal areas. The following paragraphs document those locations as well as materials exposed within the earthen berm used as a firing range backstop west of the SDA.

South Disposal Area and Gun Range Berm

The firing range berm located west of the SDA was observed to have small to moderate-sized woody vegetation along its crest. Leaves covered much of the slope, obscuring observations in some areas. Fragmented bullets (**Photo 11**) and occasional pieces of battery case fragments (dime-sized) were observed throughout the bare, eastern face of the berm. It is possible that the berm was constructed by scraping and mounding of fill material, and will contain slag and battery case fragments. Large fragments of slag were observed near the southern end of the berm which terminates at the outcrop of weathered limestone located south of the disposal area. As the outcrop extends eastward it was noted to widen from a narrow strip, less than 10 feet wide, to a feature 100 feet wide. Within the corner formed by the berm and limestone, W&M observed multiple clusters of battery case and slag fragments from 4 inches to 18 inches in diameter. Individual, smaller fragments of untreated slag were observed along the northern face of the limestone outcrop, extending from the intersection of the outcrop and the berm eastward 100 feet.

A cluster of 4-inch to 18-inch diameter fragments of slag was noted south of the SDA within the trees located north of the limestone outcrop. Some battery case fragments and dime-sized slag fragments were observed in the broadest portion of the exposed limestone, and appeared to be surficial in nature (note this area may also contain fragments from shooting clays that have the initial appearance of battery case fragments). Additional large slag fragments were observed within the tree line east of the disposal area, while discrete and isolated dime-sized slag and battery case fragments were observed in the dense vegetation further east of the SDA. These smaller fragments may have been transported away from the disposal area through historic erosion, since these areas appear to be topographically lower. Finally, a cluster of 12-inch to 18-inch diameter fragments of slag were observed within the small group of trees immediately north of the SDA.

Figure 4 notes the location of slag, battery case fragments observed within and around the SDA.

North Disposal Area Perimeter

North of the main plant, untreated, exposed slag fragments were observed outside the southeastern end of the mapped disposal area. The slag was observed in a generally linear orientation extending westward between the southern NDA boundary and the rail line, terminating at the driveway leading to the blast furnace building. Individual, 4-inch to 6-inch pieces of slag fragments were observed within and along

the rail line north of the battery receiving/storage building and to the northwest (as documented in **Photo 10**). The dense vegetation located along the northern tributary to Stewart Creek, northwest of the disposal areas was noted to contain a few areas with 12-inch sized fragments of slag. Slightly smaller fragments of slag and battery cases were observed at isolated locations in the dense vegetation northeast of the NDA.

Stewart Creek Area

W&M inspected the entire Stewart Creek area inside the Exide operating area. No slag or battery case fragments were observed in the eastern portion of the creek; however, slag fragments were observed in the west portion of the creek. Several dome shaped 18-inch diameter fragments from kettles used in the smelting process (commonly referred to as "buttons") were observed in the creek bank and bed. Also small 4-inch to 8-inch individual slag fragments were observed in the far northwest extent of the creek, refer to **Figure 6**.

Crystallizer Plant Road

W&M inspected an area along Crystallizer Plant Road west of the Crystallizer Plant where a small quantity of battery case fragments had been noted in a Phase I ESA Report prepared by Southwest Geosciences, Inc. Only one battery case fragment was observed, but the area appeared to be more overgrown then when the fragments were originally observed. This area will be included within the overall plan for addressing casing fragments and slag at the Site.

North Disposal Area Perimeter

North of the NDA, a densely vegetated area was observed around the northern tributary of Stewart Creek. No slag or battery case fragments were observed in this area except in the far southeast portion located near the Frisco Fire training building, refer to **Figure 7**. A few fragments of slag were observed just north of the Frisco Fire training building.

Operating Class 2 Non-Hazardous Waste Landfill Area

The operating Class 2 Non-Hazardous Waste Landfill observations identified very minimal intermittent slag fragments across the southern portion of the landfill area. Slag sizes observed were approximately 3 to 6 inches in diameter. No other slag or battery case fragments were observed in the landfill area; refer to **Figure 7**.

CONCLUSIONS

W&M's inspection has identified minimal areas of slag or battery case fragments in the SDA. Generally that which was observed was associated with material brought to the surface by animal burrowing. Areas to the south and east of the designated SDA contain exposed materials, as does the gun range berm located immediately to the west. Intermittent and isolated observations of battery case fragments and small slag fragments were noted in areas to the north of the SDA and within wooded and overgrown areas east of the SDA. These minor occurrences may be associated, at least in part, to historic erosion from filled areas.

Areas of slag fragments were observed within the surface of the NDA, particularly near materials storage areas and within areas of heavy vehicular traffic in the southern portions of the NDA. Slag fragments were also noted southeast of the NDA boundary and along the rail line

The remaining areas inspected were largely clear of slag fragments except for a few areas. Slag fragments were observed along the bank of Stewart Creek, at discrete locations near the Frisco Fire training building south of the northern tributary to Stewart Creek, along a road west of the Crystallizer Plant, and in the southern portion of the operating Class 2 Non-Hazardous Waste landfill area.

W&M's evaluation was based solely on a visual assessment of exposed material, and the thickness and lateral extent of the slag and battery case fragments at each location identified has not been defined. It is possible that many observations of surficial material represent isolated conditions that can be managed with minimal effort; other areas will warrant some additional intrusive investigations to define the depth and lateral extent of the slag and battery case fragments.

This report was prepared for the sole use of Exide Technologies by employing generally accepted methods and customary practices of the engineering profession. W&M appreciates the opportunity to be of service to you on this project. If you have any questions or need additional information, please contact Frank Clark, P.E. at 972-509-9611.

Very truly yours,
W&M ENVIRONMENTAL GROUP, INC.

Frank W. Clark, P.E., P.G.
Senior Consultant

Brent Vollmar
Environmental Scientist

Michael Whitehead
Senior Reviewer

Figures, Tables, Attachments

FIGURES

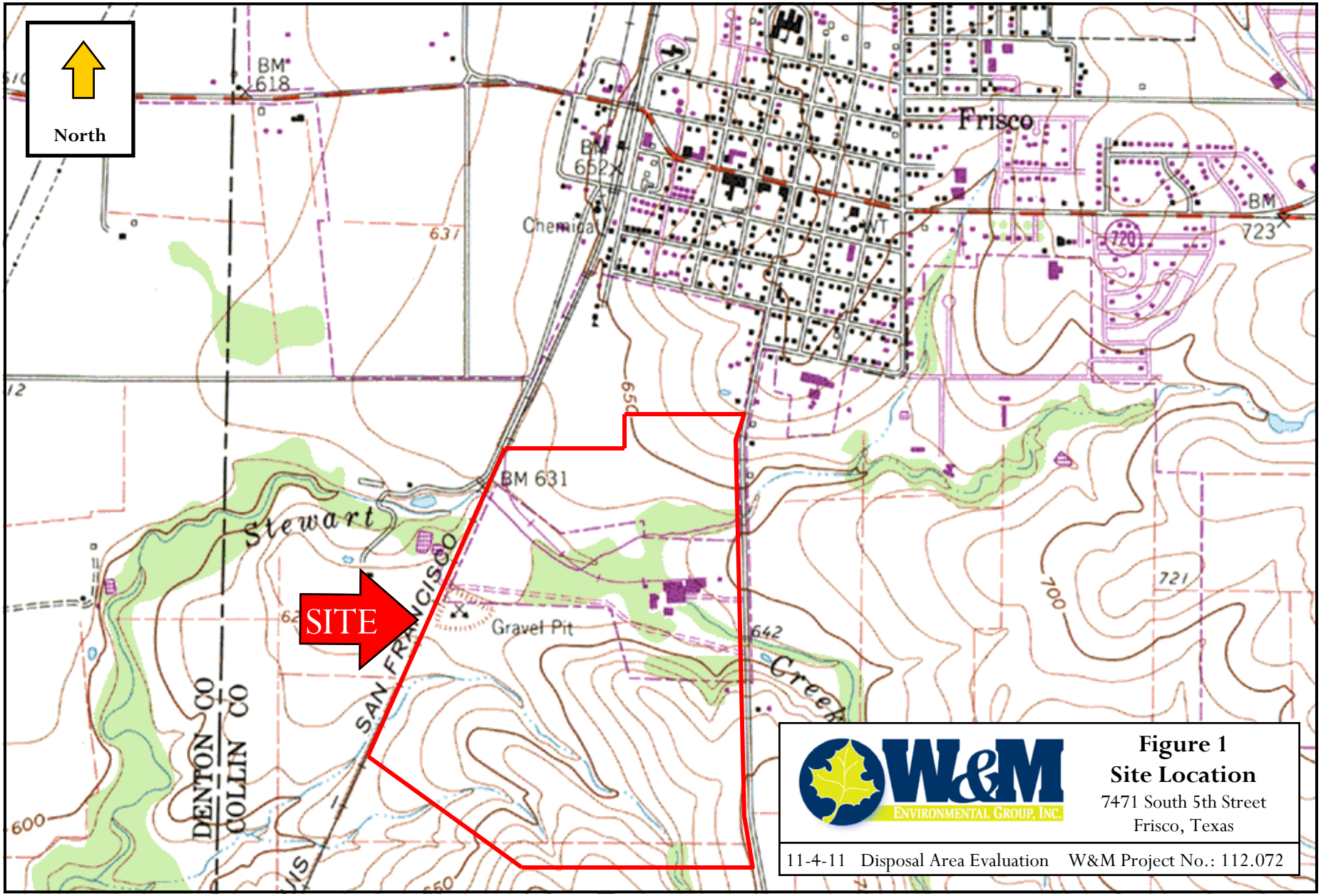


Figure 1
Site Location
7471 South 5th Street
Frisco, Texas

11-4-11 Disposal Area Evaluation W&M Project No.: 112.072



Legend

Interim Action Boundary (Approximate)

N

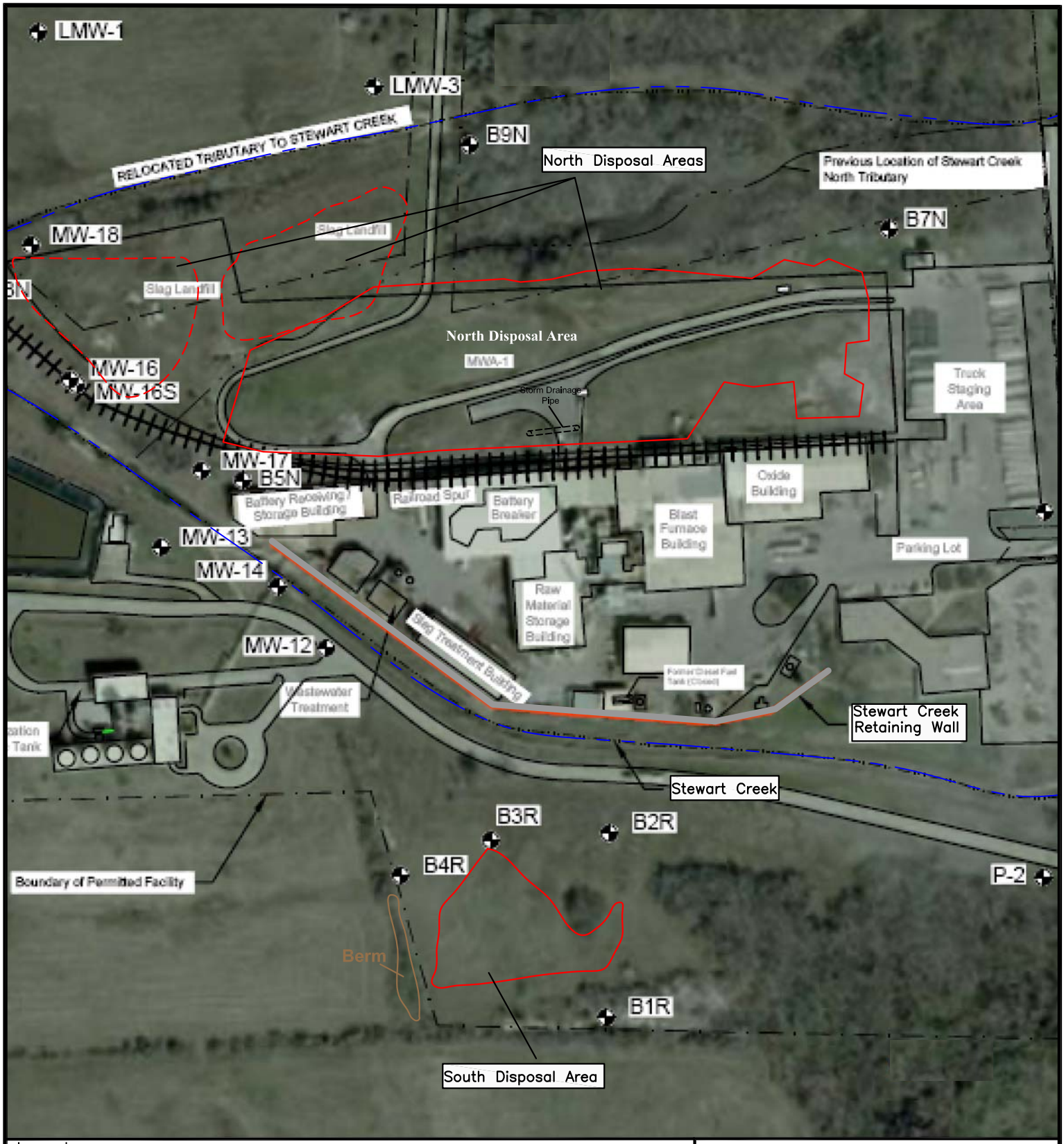
0' 200' 400'

APPROXIMATE SCALE

Figure 2
Site Map
7471 South 5th Street
Frisco, Texas

W&M ENVIRONMENTAL GROUP, INC.
www.wh-m.com

3/22/13	W&M Project No. 112.072		Disposal Area Investigation	Drawn by: BV



Legend

Mapped Disposal Area Boundaries per 1993 RFI

Slag Disposal Areas per Waste Summary of Investigations in Waste Management Areas – July 2011

Monitoring Well/Boring Locations from RFI

0' 100' 200'

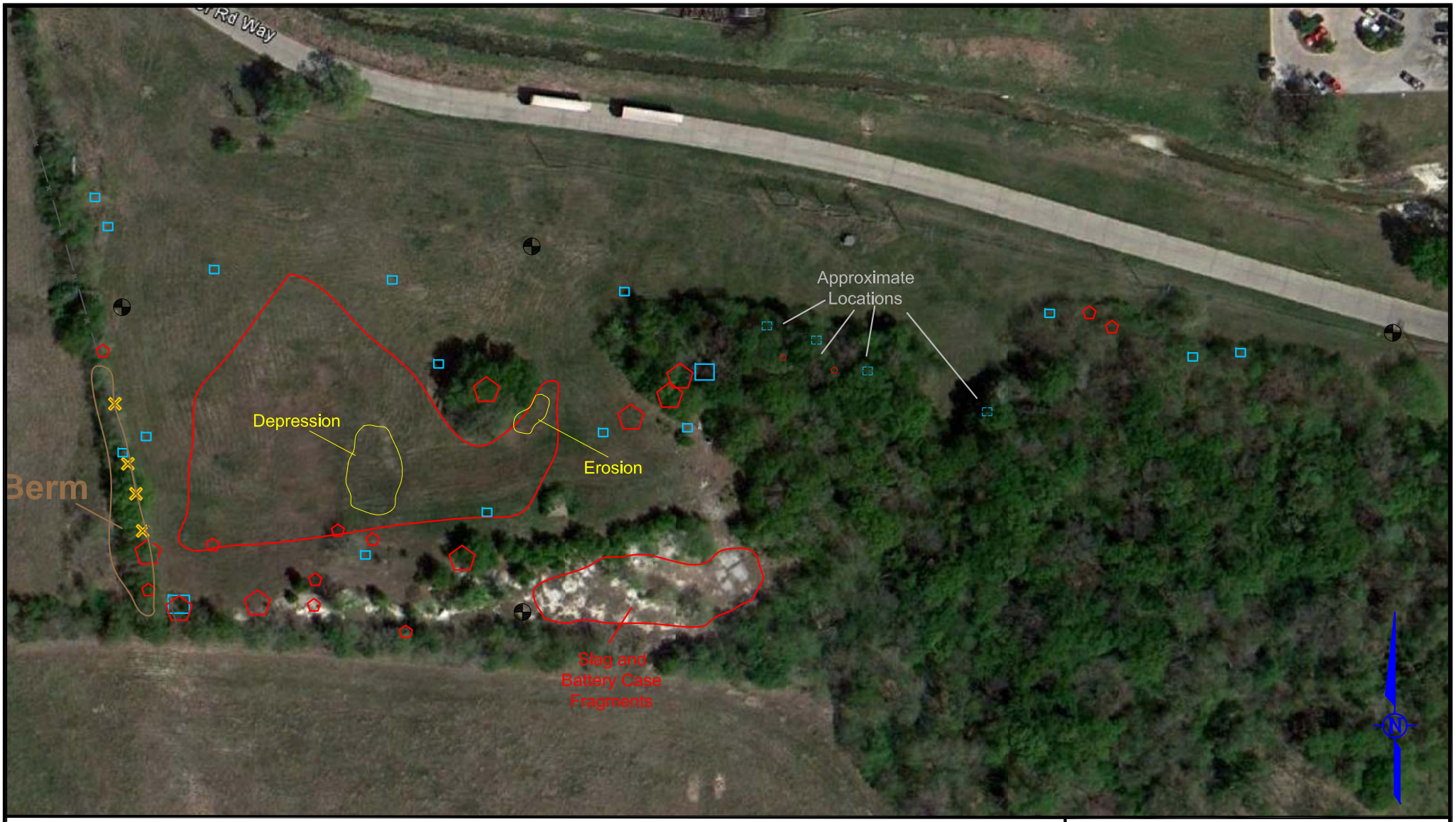
APPROXIMATE SCALE

N

Figure 3
North and South Disposal Areas
7471 South 5th Street
Frisco, Texas

10/25/11	W&M Project No. 112.072	Disposal Area Investigation	Drawn by: SDF

W&M Environmental Group, Inc.
www.wh-m.com



Legend

- Individual Fragments of Slag Material
- Individual/Small Clusters of Battery Case Fragments
- Clusters/Large Fragments of Slag Material
- Battery Case Fragments
- Bullet
- Mapped Disposal Area Boundary per 1993 RFI

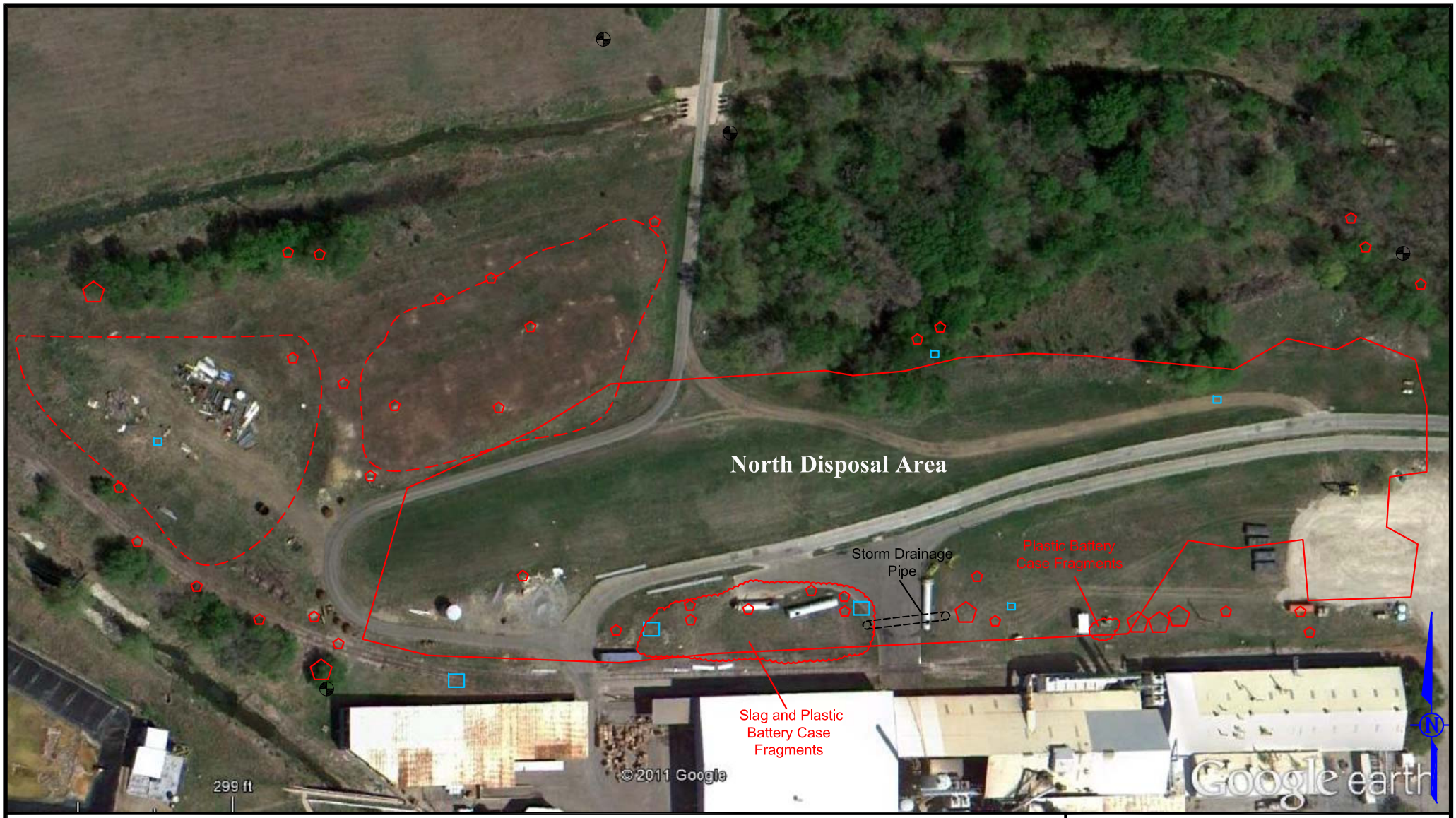
0' 100' 200'

APPROXIMATE SCALE

Figure 4
South Disposal Area
7471 South 5th Street
Frisco, Texas

W&M Environmental Group, Inc.
www.wh-m.com

9/28/11	W&M Project No. 112.072		Drawn by: SF	



Legend

- Individual Fragments of Slag Material
- Individual/Small Clusters of Battery Case Fragments
- Clusters/Large Fragments of Slag Material
- Battery Case Fragments
- Mapped Disposal Area Boundary per 1993 RFI
- Slag Disposal Areas per Waste Summary of Investigations In Waste Management Areas – July 2011

0' 100' 200'

APPROXIMATE SCALE

Figure 5
North Disposal Area
7471 South 5th Street
Frisco, Texas

9/28/11	W&M Project No. 112.072		Drawn by: SF	

W&M Environmental Group, Inc.
www.wh-m.com



Legend

- Individual Fragments of Slag Material
- Individual/Small Clusters of Battery Case Fragments
- Clusters/Large Fragments of Slag Material
- Battery Case Fragments

0' 125' 250'

APPROXIMATE SCALE

N

Figure 6
Stewart Creek
7471 South 5th Street
Frisco, Texas

6/26/13	W&M Project No. 112.072		Drawn by: BV	

W&M ENVIRONMENTAL GROUP, INC.
www.wh-m.com



Legend

- Individual Fragments of Slag Material
- Individual/Small Clusters of Battery Case Fragments
- Clusters/Large Fragments of Slag Material
- Battery Case Fragments

0' 250' 500'

APPROXIMATE SCALE

N

Figure 7
Operating Class 2 Non-Hazardous Waste Landfill Area
7471 South 5th Street
Frisco, Texas

W&M Environmental Group, Inc.
www.wh-m.com

3/22/13	W&M Project No. 112.072	Disposal Area Investigation	Drawn by: BV

TABLES

TABLE 1
Locations of Surface Slag & Battery Case Fragments
Exide Operating Areas

Exide Technologies
7471 South 5th Street
Frisco, Texas

	Material Name	Latitude	Longitude	Description	How to Address	Addressed (Y/N)
	Areas of Observed Surface Slag					
South Disposal Area	Slag-1	33.139033°	-96.829056°	Individual surface slag fragment		
	Slag-2	33.138589°	-96.828904°	Individual surface slag fragment		
	Slag-3	33.138511°	-96.828881°	Individual surface slag fragment		
	Slag-4	33.138499°	-96.828851°	Individual surface slag fragment		
	Slag-5	33.138475°	-96.828783°	Individual surface slag fragment		
	Slag-6	33.138481°	-96.828743°	Individual surface slag fragment		
	Slag-7	33.138488°	-96.828612°	Individual surface slag fragment		
	Slag-8	33.138526°	-96.828473°	Individual surface slag fragment		
	Slag-9	33.138499°	-96.828468°	Individual surface slag fragment		
	Slag-10	33.138431°	-96.828235°	Individual surface slag fragment		
	Slag-11	33.138611°	-96.828736°	Individual surface slag fragment		
	Slag-12	33.138656°	-96.828420°	Individual surface slag fragment		
	Slag-13	33.138618°	-96.828328°	Individual surface slag fragment		
	Slag-14	33.138595°	-96.828208°	Individual surface slag fragment		
	Slag-15	33.138580°	-96.828116°	Individual surface slag fragment		
	Slag-16	33.138585°	-96.828041°	Individual surface slag fragment		
	Slag-17	33.138940°	-96.828070°	Individual surface slag fragment		
	Slag-18	33.138961°	-96.828002°	Individual surface slag fragment		
	Slag-19	33.138882°	-96.827664°	Individual surface slag fragment		
	Slag-20	33.138936°	-96.827553°	Individual surface slag fragment		
	Slag-21	33.138971°	-96.827526°	Individual surface slag fragment		
	Slag-22	33.139102°	-96.826434°	Individual surface slag fragment		
	Slag-23	33.139065°	-96.826381°	Individual surface slag fragment		
	Slag-24	33.138985°	-96.827132°	Individual surface slag fragment		
	Slag-25	33.139022°	-96.827278°	Individual surface slag fragment		
North Disposal Area	Slag-26	33.141034°	-96.826827°	Individual surface slag fragment		
	Slag-27	33.141085°	-96.826856°	Individual surface slag fragment		
	Slag-28	33.141084°	-96.827085°	Individual surface slag fragment		
	Slag-29	33.141092°	-96.827148°	Individual surface slag fragment		
	Slag-30	33.141075°	-96.827229°	Individual surface slag fragment		
	Slag-31	33.141065°	-96.827259°	Individual surface slag fragment		
	Slag-32	33.141055°	-96.827296°	Individual surface slag fragment		
	Slag-33	33.141016°	-96.827307°	Individual surface slag fragment		
	Slag-34	33.141063°	-96.827364°	Individual surface slag fragment		
	Slag-35	33.141001°	-96.827809°	Individual surface slag fragment		
	Slag-36	33.140974°	-96.827894°	Individual surface slag fragment		
	Slag-37	33.141050°	-96.827946°	Individual surface slag fragment		
	Slag-38	33.141109°	-96.827876°	Individual surface slag fragment		
	Slag-39	33.141066°	-96.828216°	Individual surface slag fragment		
	Slag-40	33.141107°	-96.828224°	Individual surface slag fragment		
	Slag-41	33.141120°	-96.828371°	Individual surface slag fragment		
	Slag-42	33.141217°	-96.828494°	Individual surface slag fragment		
	Slag-43	33.141180°	-96.828714°	Individual surface slag fragment		
	Slag-44	33.141103°	-96.828698°	Individual surface slag fragment		
	Slag-45	33.141067°	-96.828925°	Individual surface slag fragment		
	Slag-46	33.140940°	-96.829377°	Individual surface slag fragment		
	Slag-47	33.140933°	-96.829856°	Individual surface slag fragment		
	Slag-48	33.141026°	-96.829806°	Individual surface slag fragment		
	Slag-49	33.141111°	-96.829881°	Individual surface slag fragment		
	Slag-50	33.141100°	-96.830062°	Individual surface slag fragment		

TABLE 1
Locations of Surface Slag & Battery Case Fragments
Exide Operating Areas

Exide Technologies
7471 South 5th Street
Frisco, Texas

	Material Name	Latitude	Longitude	Description	How to Address	Addressed (Y/N)
	Areas of Observed Surface Slag (cont'd)					
North Disposal Area (cont'd.)	Slag-51	33.141191°	-96.830258°	Individual surface slag fragment		
	Slag-52	33.141300°	-96.830455°	Individual surface slag fragment		
	Slag-53	33.141436°	-96.830510°	Individual surface slag fragment		
	Slag-54	33.141960°	-96.830603°	Individual surface slag fragment		
	Slag-55	33.141943°	-96.830564°	Individual surface slag fragment		
	Slag-56	33.141785°	-96.829957°	Individual surface slag fragment		
	Slag-57	33.141710°	-96.829914°	Individual surface slag fragment		
	Slag-58	33.141715°	-96.829803°	Individual surface slag fragment		
	Slag-59	33.141473°	-96.829704°	Individual surface slag fragment		
	Slag-60	33.141654°	-96.829637°	Individual surface slag fragment		
	Slag-61	33.141644°	-96.829306°	Individual surface slag fragment		
	Slag-62	33.141865°	-96.829207°	Individual surface slag fragment		
	Slag-63	33.141984°	-96.829487°	Individual surface slag fragment		
	Slag-64	33.142030°	-96.829328°	Individual surface slag fragment		
	Slag-65	33.142055°	-96.829960°	Individual surface slag fragment		
	Slag-66	33.142055°	-96.829866°	Individual surface slag fragment		
	Slag-67	33.142146°	-96.828804°	Individual surface slag fragment		
	Slag-68	33.141728°	-96.828037°	Individual surface slag fragment		
	Slag-69	33.141752°	-96.827980°	Individual surface slag fragment		
	Slag-70	33.142038°	-96.826681°	Individual surface slag fragment		
	Slag-71	33.141967°	-96.826643°	Individual surface slag fragment		
	Slag-72	33.141874°	-96.826465°	Individual surface slag fragment		
	Slag-73	33.141208°	-96.829222°	Individual surface slag fragment		
	Slag-74	33.141087°	-96.826952°	Individual surface slag fragment		
Stewart Creek	Slag-75	33.139851	-96.830809	Large Fragments in Bank		
	Slag-76	33.140198	-96.829193	Large Fragments in Bank		
	Slag-77	33.140858	-96.830196	Large Fragments in Bank		
	Slag-78	33.140865	-96.830209	Large Fragments in Bank		
	Slag-79	33.141295	-96.830845	Large Fragments in Bank		
	Slag-80	33.141386	-96.830926	Large Fragments in Bank		
	Slag-81	33.141509	-96.831117	Large Fragments in Bank		
	Slag-82	33.141570	-96.831099	Large Fragments in Bank		
	Slag-83	33.142439	-96.832506	Large Fragments in Bank		
	Slag-84	33.142457	-96.832538	Large Fragments in Bank		
	Slag-85	33.142500	-96.832602	Large Fragments in Bank		
	Slag-86	33.142911	-96.832945	Sml Fragment		
Crystalliz er Plant Rd	Plastic-33	33.140698	-96.833515	Single Fragment		
North Landfill Area	Slag-87	33.145460	-96.827074	Small Fragment		
	Slag-88	33.144404	-96.826258	Small Fragment		
	Slag-89	33.144156	-96.827996	Small Fragment		
	Slag-90	33.143626	-96.826234	Small Fragment		
	Slag-91	33.143270	-96.826199	Small Fragment		
	Slag-92	33.143257	-96.826849	Small Fragment		
	Slag-93	33.143260	-96.827165	Small Fragment		
Former Fire Training Area	Slag-94	33.141828	-96.826013	Small Fragment		
	Slag-95	33.141850	-96.826067	Small Fragment		
	Slag-96	33.141836	-96.826031	Small Fragment		
	Slag-97	33.141893	-96.825990	Small Fragment		
	Slag-98	33.141853	-96.825660	Small Fragment		
	Slag-99	33.142338	-96.825668	Small Fragment		

TABLE 1
Locations of Surface Slag & Battery Case Fragments
Exide Operating Areas

Exide Technologies
7471 South 5th Street
Frisco, Texas

	Material Name	Latitude	Longitude	Description	How to Address	Addressed (Y/N)
	Areas of Observed Plastic Battery Case Fragments					
South Disposal Area	Plastic-1	33.139373°	-96.829089°	Small Fragment		
	Plastic-2	33.139306°	-96.829051°	Small Fragment		
	Plastic-3	33.138887°	-96.828926°	Small Fragment		
	Plastic-4	33.138840°	-96.828927°	Small Fragment		
	Plastic-5	33.138807°	-96.828985°	Small Fragment		
	Plastic-6	33.138484°	-96.828728°	Small Fragment		
	Plastic-7	33.138675°	-96.827496°	Small Fragment		
	Plastic-8	33.138678°	-96.828028°	Small Fragment		
	Plastic-9	33.138584°	-96.828346°	Small Fragment		
	Plastic-10	33.139215°	-96.828764°	Small Fragment		
	Plastic-11	33.139185°	-96.828297°	Small Fragment		
	Plastic-12	33.138998°	-96.828163°	Small Fragment		
	Plastic-13	33.138934°	-96.828041°	Small Fragment		
	Plastic-14	33.138856°	-96.827732°	Small Fragment		
	Plastic-15	33.138850°	-96.827504°	Small Fragment		
	Plastic-16	33.138982°	-96.827482°	Small Fragment		
	Plastic-17	33.139159°	-96.827685°	Small Fragment		
	Plastic-18	33.139124°	-96.826543°	Small Fragment		
	Plastic-19	33.139016°	-96.826155°	Small Fragment		
	Plastic-20	33.139023°	-96.826020°	Small Fragment		
	Plastic-21	33.139110°	-96.827351°	Small Fragment		
	Plastic-22	33.139031°	-96.827184°	Small Fragment		
	Plastic-23	33.138985°	-96.827040°	Small Fragment		
	Plastic-24	33.138903°	-96.826752°	Small Fragment		
Operating Class 2 Non-Hazardous Waste Landfill Area	Plastic-25	33.141027°	-96.827761°	3 to 6-inch Slag fragments		
	Plastic-26	33.141035°	-96.828216°	3 to 6-inch Slag fragments		
	Plastic-27	33.141066°	-96.828816°	3 to 6-inch Slag fragments		
	Plastic-28	33.140931°	-96.829423°	3 to 6-inch Slag fragments		
	Plastic-29	33.140961°	-96.829566°	3 to 6-inch Slag fragments		
	Plastic-30	33.141560°	-96.830382°	3 to 6-inch Slag fragments		
	Plastic-31	33.141689°	-96.827991°	3 to 6-inch Slag fragments		
	Plastic-32	33.141656°	-96.827126°	3 to 6-inch Slag fragments		
	Debris Clusters Containing Slag and Battery Chips					
Debris Clusters[1]	DA Debris Field	33.138506°	-96.827612°	Clusters of small chips and slag		
	DA Debris Field	33.141048°	-96.827420°	Clusters of small chips and slag		
	DA Debris Field	33.141024°	-96.828512°	Clusters of small chips and slag		

1 - Coordinates for debris field represent the approximate center of field.

PHOTOGRAPHIC LOG

ATTACHMENT A



Photo 1: View of the South Disposal Area (SDA) from the western boundary facing east.



Photo 2: Cracks in SDA cap caused by drought.

W&M Environmental Group, Inc.	**Attachment A** **Photographic Log** Disposal Area Evaluation Frisco, Texas	
11-4-11	Slag Sampling	W&M Project No.: 112.060



Photo 3: Animal burrow with plastic chips exposed near entrance.



Photo 4: Slag material exposed by animal activity within the SDA.

W&M Environmental Group, Inc.	**Attachment A** **Photographic Log** Disposal Area Evaluation Frisco, Texas	
11-4-11	Slag Sampling	W&M Project No.: 112.060



Photo 5: View of heat-stressed vegetation and evidence of vehicular traffic on the North Disposal Area (NDA).



Photo 6: Debris field of plastic chips and slag in an area of high traffic and equipment storage located within the NDA.

W&M Environmental Group, Inc.

Attachment A
Photographic Log
Disposal Area Evaluation
Frisco, Texas

11-4-11	Slag Sampling	W&M Project No.: 112.060



Photo 7: Slag material exposed at a storm water drainage pipe within the NDA.



Photo 8: Exposed treated slag located in the northern section of the NDA.

W&M Environmental Group, Inc.	**Attachment A** **Photographic Log** Disposal Area Evaluation Frisco, Texas	
11-4-11	Slag Sampling	W&M Project No.: 112.060



Photo 9: Exposed, untreated slag located between the NDA and rail line north of the main plant.

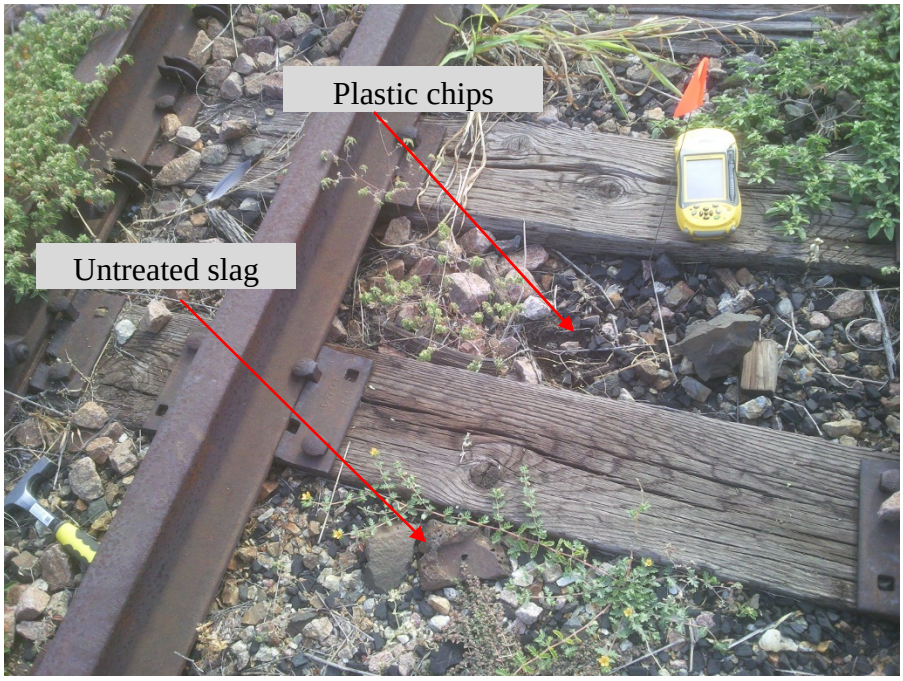


Photo 10: View of GPS data being collected on slag and plastic chips located within the railroad tracks located north of the main plant.

W&M Environmental Group, Inc.

Attachment A
Photographic Log
Disposal Area Evaluation
Frisco, Texas

11-4-11	Slag Sampling	W&M Project No.: 112.060



Photo 11: Fragmented bullets observed under leaves covering the firing range berm.



Photo 12: Exposed slag within the firing range berm.

W&M Environmental Group, Inc.	**Attachment A** **Photographic Log** Disposal Area Evaluation Frisco, Texas	
11-4-11	Slag Sampling	W&M Project No.: 112.060



Photo 13: View of large slag fragments located within the dense vegetation east of the SDA.



Photo 14: Plastic chips located within dense vegetation area east of the SDA.

W&M Environmental Group, Inc.	**Attachment A** **Photographic Log** Disposal Area Evaluation Frisco, Texas	
11-4-11	Slag Sampling	W&M Project No.: 112.060



Photo 15: Lead slag observed along Stewart Creek.



Photo 16: Lead slag observed just north of the Frisco Fire training facility.

Appendix 19

French Drain Construction Report

May 10, 2013

Ms. Vanessa Coleman, Site Manager
Exide Technologies
7471 South 5th Street
Frisco, Texas 75034

RE: Wall Seepage Project
Retaining Wall at Stewart Creek
Exide Frisco Recycling Facility
Frisco, Texas
W&M Project No. 112.052

Dear Ms. Coleman:

W&M Environmental Group, Inc. (W&M) conducted an evaluation of water seepage along the concrete retaining wall located on the south boundary of the main operating portion of Exide's Frisco Recycling Center located in Frisco, Texas. A Site Location Plan depicting the principal operating areas of the Exide facility are depicted in **Figure 1**. Based upon this evaluation, recommendations were provided to improve drainage behind the wall and prevent further seepage.

This report briefly summarized the nature of the seepage, the design of the improvements, and their construction in 2012.

BACKGROUND AND PROJECT SCOPE

A concrete retaining wall, or barrier wall, was constructed along the southern edge of the main Exide plant and adjacent to Stewart Creek in the late 1980s. The location of the barrier wall is shown on **Figure 2**. The wall was designed to retain and collect storm water and other water generated from the facility operating areas, where it is pumped into a storm water detention basin. The facility has a permit to treat the water and discharge treated water to the privately-owned treatment works (POTW), as well as a permit to treat the water and discharge treated water to Stewart Creek. Currently, the facility is discharging treated water to the POTW.

Areas of water seepage have been observed along the concrete retaining wall between the main plant and Stewart Creek over time. The area of the wall where seepage has been observed is between the Slag Treatment Building and the Battery Receiving Building. The seepage appears to occur principally at construction or expansion joints, and in some areas is more pronounced than others. In the past, a significant area of seepage was observed adjacent to a concrete sediment pit near the western end of the wall. Seepage in this area was attributed to a leak from the concrete sediment pit, and the pit was plugged and abandoned. Plugging and abandonment of the pit significantly reduced seepage in this area. Additionally, Exide completed repairs and sealed the exterior face of the wall in a number of locations.

However, seepage continued in some areas and has resulted in spalling and deterioration of the exterior wall face, and localized areas of wet soil and/or small areas of standing water at the exterior base of the wall.

Representatives from the Texas Commission on Environmental Quality (TCEQ) collected soil and water samples during a Site inspection in May 2011 and determined that seepage from the retaining wall may be discharging water containing lead into the soil adjoining Stewart Creek. W&M visited the facility and reviewed plans provided by Exide, and noted that the retaining wall and concrete pavement was designed to convey runoff and other plant water through shallow drainage swales in the concrete pavement, where it is directed to the (now closed) sediment pit. In some areas, the surface of the concrete pavement was deteriorated, cracked or broken, allowing storm water and wash water to potentially infiltrate behind the wall.

W&M reviewed available drawings and plans, and met with facility staff to discuss relevant issues associated with the observed seepage. A subsurface investigation was completed consisting of soil borings and groundwater observation wells behind the wall to document the levels of static groundwater in relation to the elevations of observed seepage. W&M concluded that source(s) of artificial recharge were resulting in saturated fill soils directly behind the retaining wall, including storm water and wash water runoff from operating areas that infiltrates through cracks, joints and areas of deteriorated concrete; and/or leaks from subsurface drains or sumps located within the plant. The layout of the wall and the locations of W&M's observation wells are depicted in **Figure 2.**

W&M recommended that Exide implement the following repairs and upgrades to drainage in the vicinity of the wall:

1. Install a French drain system behind the retaining wall to collect and convey water from the saturated fill away from the wall to a sump or pit, where it can be collected and pumped into the Site's storm water treatment system.
2. The drain should consist of 4-inch diameter perforated pipe surrounded by pervious stone, one at the wall stem and a second at the base of the wall. The pipe and stone should be encased within a porous filter fabric to prevent clayey soils and fines from clogging the drain.
3. The interior face of the retaining wall should be exposed and cleaned, and lined with a heavy duty waterproofing membrane to prevent infiltrating water from reaching the wall, resulting in possible seepage.
4. The concrete paving in areas behind the wall that had deteriorated should be repaired or replaced.

Figures 3 and 4 contain the wall area layout with the proposed design, including the location of the proposed footing drains, location of new drainage sump and manhole, and areas of concrete to be replaced.

IMPLEMENTATION OF WALL DRAINAGE AND CONCRETE IMPROVEMENTS

As part of project design, a test section behind the wall was excavated in September 2011 to observe soil and water conditions and the condition of the inside face of the retaining wall. Photographs from the test section were provided to the contractor to assist with the bidding process.

In January 2012, the contract was awarded to FCS Construction of Frisco, Texas and their subcontractor, Green Scaping, Inc. A Commercial Building Permit Application and a Grading Permit Application were

submitted to the City in early 2012, and Commercial Building Permit B12-0977 was issued on April 30, 2012. However, due to scheduling commitments of the contractor once the authorization was received from the City, work did not begin until August 2012.

The principal tasks completed included the following:

- Removal of approximately 8,200 square feet of 6-inch thick concrete along approximately 430 feet of the barrier wall and up to the edges of adjoining structures (building walls, footers, pipe supports).
- Remove the former filled sediment pit at the west end of the project.
- Provide temporary support for power poles and pipe bridge supports during excavation activities.
- Excavation of a trench for the underdrain installation to a depth from 2.5 feet to 4 feet.
- Stockpiling and covering of excavated soil on polyethylene sheeting pending characterization and off-Site disposal.
- Transport and disposal of soils based upon manifests and waste approvals received by Exide.
- Installation of a 4-inch PVC underdrain adjacent to the retaining wall footing and surrounded by crushed stone as shown on the drawings. Where the footing steps down, a second drain was installed at the base of the stem of the retaining wall. The drain and stone were surrounded by porous filter fabric.
- The exposed interior (north) face of the retaining was cleaned by hand of dirt, and power washed, and then the vertical face and the adjoining 2 feet along the top of the footing were treated with an asphaltic waterproofing sealer.
- A 40 ml HDPE liner was placed on top of the asphaltic waterproofing sealer and across the footing. The liner was affixed to the vertical wall face in conjunction with the concrete waterstop fasteners.
- Two new collection sumps were constructed at the west end of the wall, one for the new underdrain system, and a second for surface runoff.
- Replacement of the removed concrete, including installation of chemical resistant waterstops.

CONSTRUCTION

Work was initiated on August 20, 2012 and was completed in late November 2012. All work was performed in Level C personal protective equipment.

Delays were encountered during the conduct of the project for various reasons, principally after heavy rains which saturated the subgrade and prevented construction equipment from moving about. Extreme care was taken to control surface water and divert it to the existing collection point at the west end of the project and minimize any further infiltration in exposed areas after concrete removal.

The project was completed in four segments to allow for competent concrete working surfaces to remain while other areas were being removed for drain installation.

- The first 160-foot section was completed during weeks 1 through 3
- A second section of 115 feet in length was completed during weeks 4 through 9.
- The third section, 90 feet adjacent to an active acid tank, was completed during week 10.

- The final 60-foot section and installation of the new sumps and manhole were completed during weeks 11 and 12.

A representative of W&M was present on-site during all critical stages of the work, including drain installation, wall cleaning, asphaltic membrane and liner application and final manhole placement. Daily and weekly status reports were prepared and submitted to Exide to document the work progress and any issues that had arisen**. Figure 5** contains an overview of the progress made during each week of the project. Key photographs taken at various stages are provided in **Attachment A.**

Prior to the initiation of construction, observation wells installed as part of the engineering assessment (designated OW-1, OW-2, OW-3A, OW-3B and OW-4) were plugged and abandoned by a Texas licensed water well driller. Copies of the State of Texas Well Plugging Reports are provided in **Attachment B.**

During certain periods of excavation a representative of Pastor, Behling & Wheeler, LLC (PBW) was on-site to recover samples of soil from the excavation sidewalls and base in accordance with a sampling regimen agreed with the US EPA. Those sampling results were not provided to W&M and are not included herein.

SOIL CHARACTERIZATION and MANAGEMENT

Concrete removed from the drain area was broken into manageable sections and pressure washed at Exide's truck wash pit located adjacent to the work area. The concrete was then placed in an area designated by Exide and managed with other debris generated by the facility.

Excavated soil from the trench was stockpiled on polyethylene and covered each night with polyethylene, and sampled at a frequency of 1 sample per 50 cubic yards for waste characterization purposes. The stockpile waste characterizations samples, designated SP-01 through SP-07, were analyzed for Toxicity Characteristic Leaching Procedure (TCLP) metals by EPA Method 6020/7470A, pH by Method 9045, and Total Petroleum Hydrocarbons (TPH) by Texas Method TX1005. Copies of the laboratory analytical reports for the stockpile samples are provided in **Attachment C.**

Based upon the waste characterization results, the material was disposed off-Site under manifest to a hazardous or non-hazardous waste landfill. Approximately 258 cubic yards was manifested to Waste management's DFW Landfill in Lewisville, Texas (Permit No. 1025-B) as a Class 2 waste. Approximately 55 cubic yards was determined to be a characteristic waste based upon TCLP data, and was manifested to Chemical Waste Management's hazardous waste disposal facility in Sulphur, Louisiana (EPA ID No. LA0000147272). Manifests for the disposal of all soils from the drain excavation are provided in **Attachment D.**

POST-CONSTRUCTION OBSERVATIONS

W&M visited the wall project on three occasions since the drain was completed to observe the condition of the wall. On each occasion, the entire perimeter of the wall was walked and observed for evidence of ongoing seepage. No evidence of recent seepage has been observed, and the drain and sumps appear to be functioning as designed.

This report was prepared for the sole use of Exide Technologies by employing generally accepted methods and customary practices of the engineering profession. W&M appreciates the opportunity to be

of service to you on this project. If you have any questions or need additional information, please contact Frank Clark, P.E. at 972-509-9611.

Very truly yours,
W&M ENVIRONMENTAL GROUP, INC.

Frank W. Clark, P.E., P.G.
Senior Consultant

Michael Whitehead
Senior Reviewer

Figures, Tables, Attachments



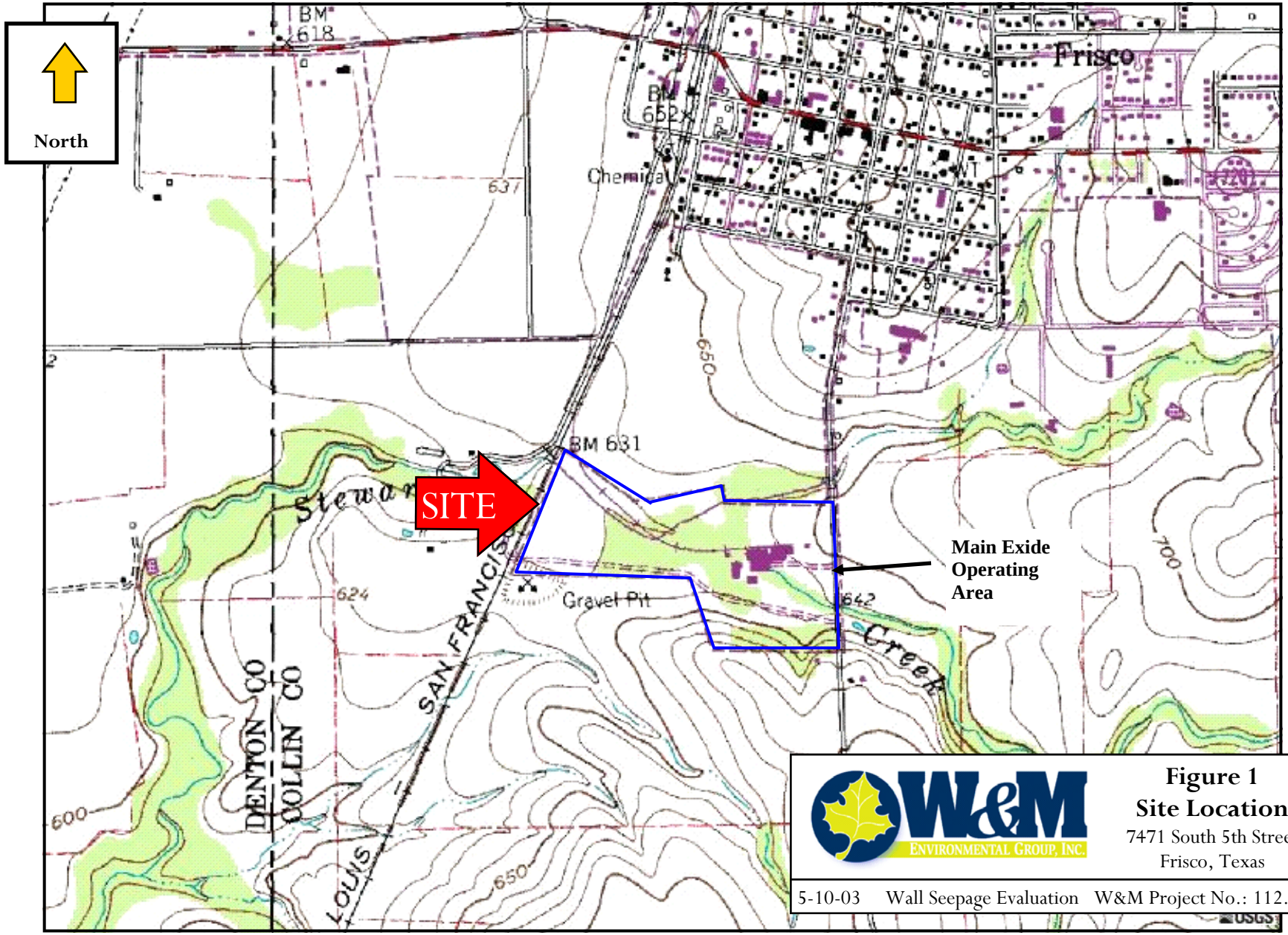
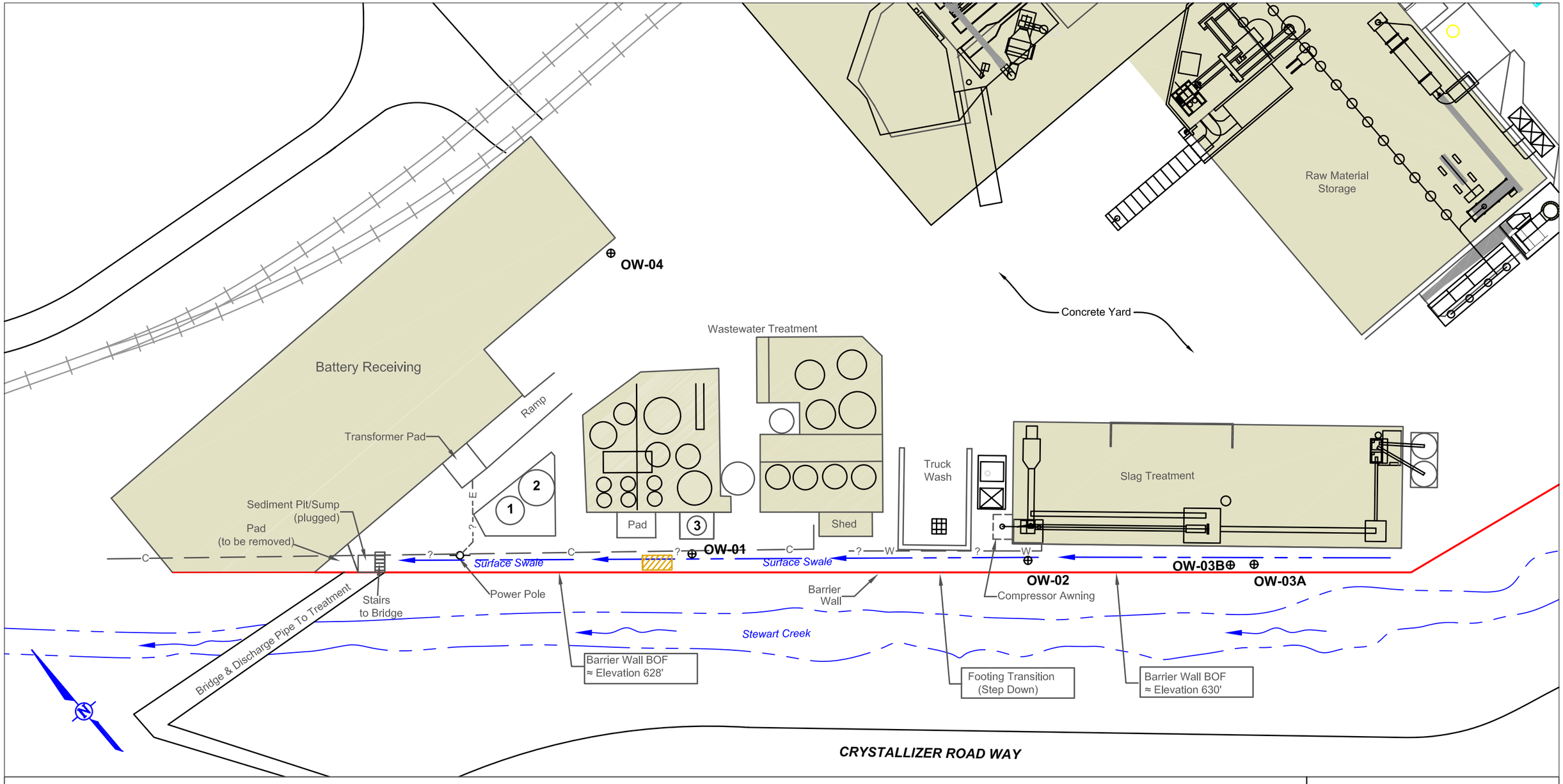


Figure 1
Site Location
7471 South 5th Street
Frisco, Texas

5-10-03 Wall Seepage Evaluation W&M Project No.: 112.052



⊕ Observation Well (to be removed)

Retaining Wall Investigation Area

BOF Bottom of Footing

ASTs In Work Area
1. Crystallizer Feed
2. Liquid Caustic
3. Sufuric Acid

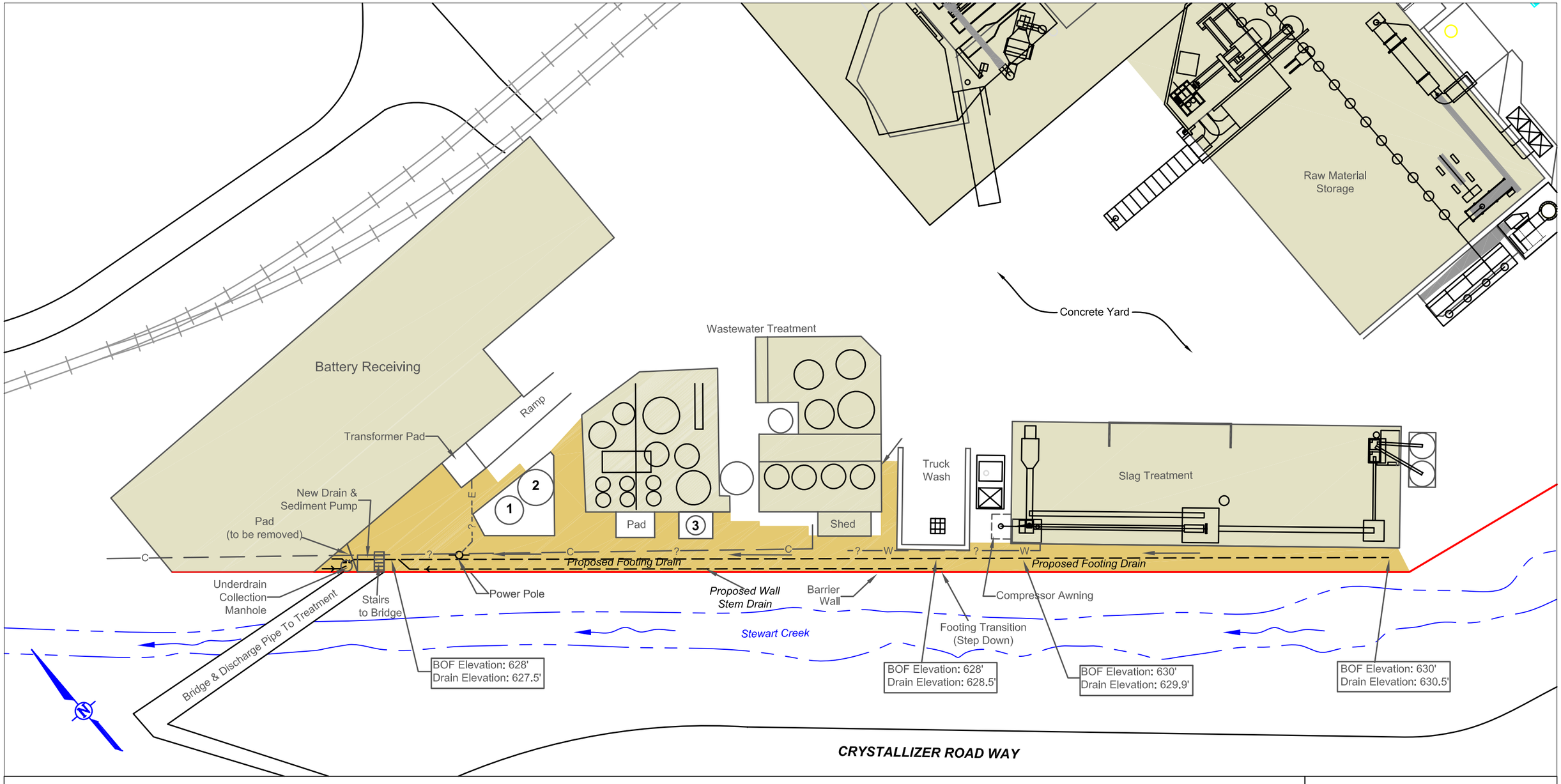
Underground Utilities (Approximate)
- E Electric
- W Water
- C Condensate Liquid

0' 40' 80'
APPROXIMATE SCALE

Figure 2
General Site Layout
7471 South 5th Street
Frisco, Texas

W&M Environmental Group, Inc.
www.wh-m.com

10/27/11	W&M Project No. 112.052.002	Drawn by: SF



Areas of Concrete Removal and Replacement

BOF Bottom of Footing

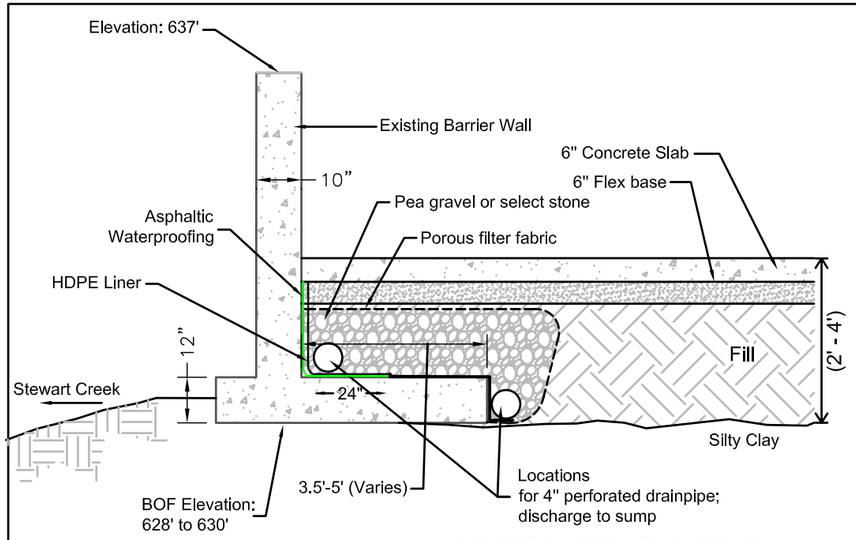
0' 40' 80'

APPROXIMATE SCALE

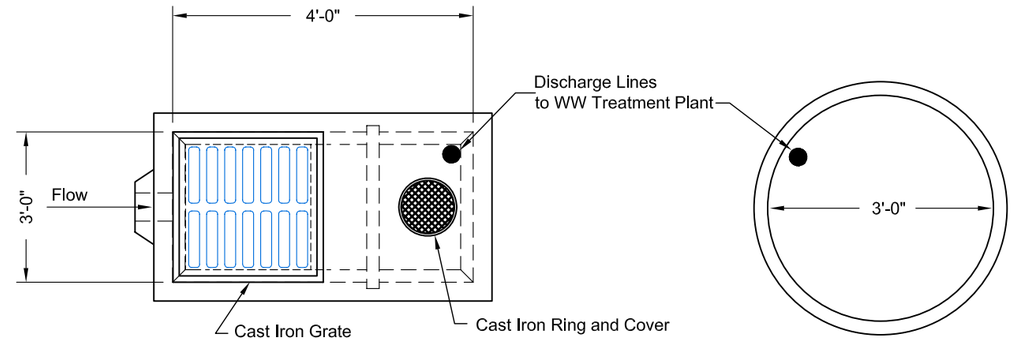
Figure 3
Wall Drain and
Concrete Replacement Areas
7471 South 5th Street
Frisco, Texas

W&M ENVIRONMENTAL GROUP, INC.
www.wh-m.com

10/27/11	W&M Project No. 112.052.002	Drawn by: SF

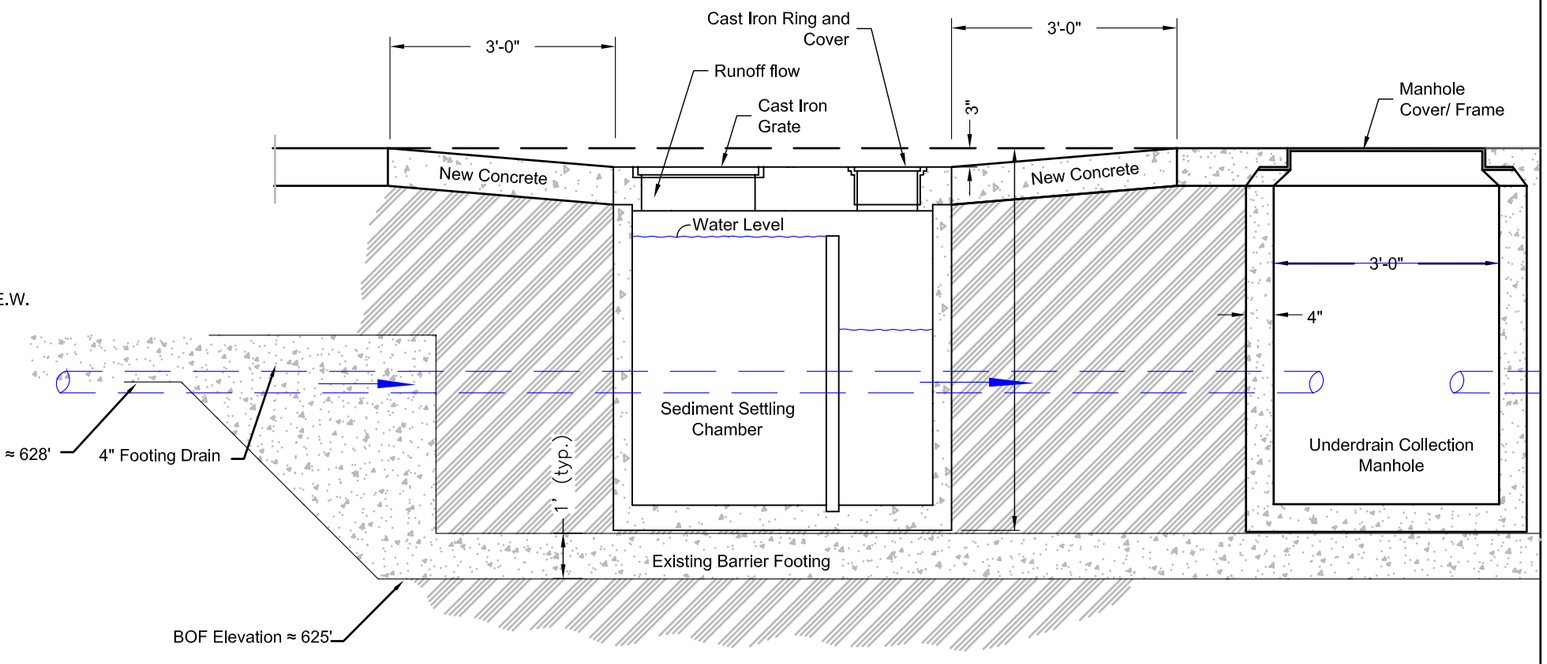


FOOTING DRAIN DETAIL



SUMP DETAIL - PLAN VIEW

DRAINAGE FLUME

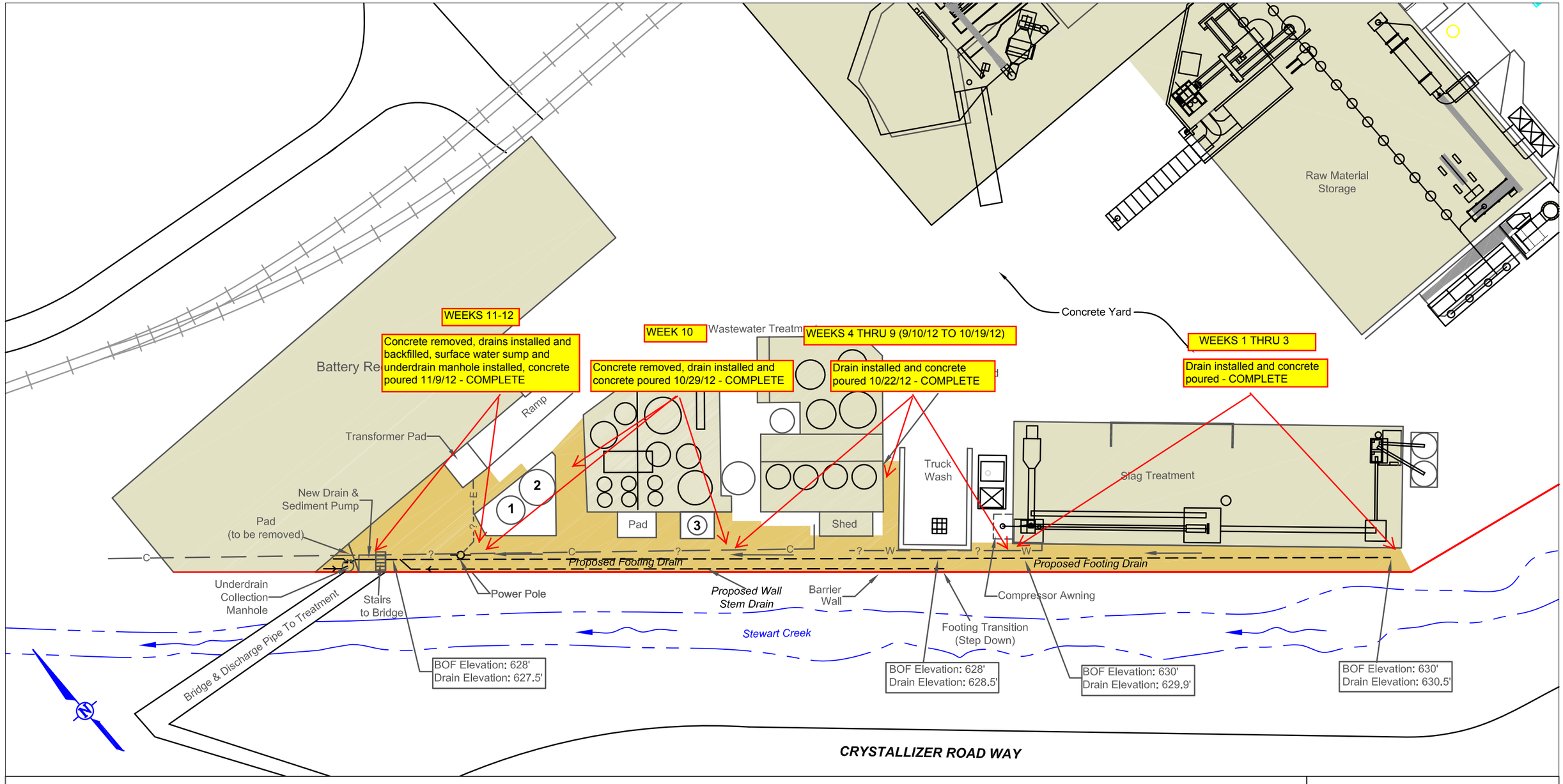


SUMP DETAIL - SIDE VIEW

Figure 4
Detail Sheet
7471 South 5th Street
Frisco, Texas

10/27/11	W&M Project No. 112.052.002	Drawn by: SF

W&M Environmental Group, Inc.
www.wh-m.com



Areas of Concrete Removal and Replacement

BOF Bottom of Footing

0' 40' 80'

APPROXIMATE SCALE

FIGURE 5

Wall Drain and Concrete Replacement Areas

7471 South 5th Street
Frisco, Texas

W&M ENVIRONMENTAL GROUP, INC.
www.wh-m.com

10/27/11	W&M Project No. 112.052.002	Drawn by: SF

PHOTOGRAPHIC LOG

ATTACHMENT A



Photo 1: View of area of seepage along exterior face of retaining wall; note staining of caulking and cracks in concrete wall footing.



Photo 2: Area of moist soils near area of seep in wall.

W&M Environmental Group, Inc.

Attachment A
Photographic Log
Retaining Wall Project
Frisco, Texas

5/1/2013 W&M Project No.: 112.052



Photo 3: Pre-repair—deteriorated concrete pavement and standing water along retaining wall.



Photo 4: Deteriorated concrete and drainage swale that conveys water to sediment pit.

W&M Environmental Group, Inc.	**Attachment A** **Photographic Log** Retaining Wall Seepage Frisco, Texas	
6/23/2009	Slag Sampling	W&M Project No.: 112.052



Photo 5: Breaking of concrete in first section, east end of project area..



Photo 6: Pressure washing of concrete prior to removal and disposal.

W&M Environmental Group, Inc.	**Attachment A** **Photographic Log** Retaining Wall Seepage Frisco, Texas	
6/23/2009	Slag Sampling	W&M Project No.: 112.052



Photo 7: Exposed soil and back of retaining wall footing.



Photo 8: Trench at wall footing prior to installation of drain.

W&M Environmental Group, Inc.	**Attachment A** **Photographic Log** Retaining Wall Seepage Frisco, Texas	
6/23/2009	Slag Sampling	W&M Project No.: 112.052



Photo 9: Applying liquid asphaltic membrane to wall and top of footing.



Photo 10: Installing filter fabric for footing drain.



Photo 11: Re-bar installed on flex base awaiting concrete.



Photo 12: Finishing new concrete paved surface and swale.



Photo 13: Broken concrete from second section .



Photo 14: Exposed footing at step-down section.



Photo 15: Exposed wall and footing near truck wash.



Photo 16: Applying liquid asphaltic membrane to wall stem and footer.



Photo 17: Heat weld of HDPE liner against wall.



Photo 18: Installed liner prior to drain pipe and anchoring to wall.



Photo 19: Detail of water stops.



Photo 20: Second section prior to placement of steel.



Photo 21: Water stop detail at corner.



Photo 22: Excavating third section of drain.



Photo 23: Exposed wall and drain trench prior to membrane and pipe.



Photo 24: Support for power pole near trench, west end of project.



Photo 25: View of stem drain and footing drain installation prior to backfilling.



Photo 26: Stockpiled excavated soil prior to off-site disposal



Photo 27: Finished concrete near acid tank.



Photo 28: Former sump area, infilled with concrete.



Photo 29: Applying liquid asphaltic membrane at far west end of project.



Photo 30: Installation of sump for surface drainage



Photo 31: Sump and underdrain manhole after backfilling



Photo 32: Finishing concrete surfacing at far west end of project.

WATER WELL
PLUGGING REPORTS

ATTACHMENT B

STATE OF TEXAS PLUGGING REPORT for Tracking #79663

Owner:	**EXIDE TECHNOLOGIES**	Owner Well #:	**OW-01,02,03B**
Address:	**7471 SOUTH 5TH FRISCO , TX 75034**	Grid #:	**18-50-8**
Well Location:	**7471 SOUTH 5TH FRISCO , TX 75034**	Latitude:	**33° 08' 29" N**
Well County:	**Collin**	Longitude:	**096° 49' 41" W**
		GPS Brand Used:	**GARMIN**
Well Type:	**Monitor**		

HISTORICAL DATA ON WELL TO BE PLUGGED

Original Well Driller:	**DARRIN S. STARK SR**
Driller's License Number of Original Well Driller:	**54891**
Date Well Drilled:	**6/10/2011**
Well Report Tracking Number:	**258277**
Diameter of Borehole:	**7 inches**
Total Depth of Borehole:	**5 feet**

Date Well Plugged:	**1/20/2012**
Person Actually Performing Plugging Operation:	**DARRIN S. STARK SR.**
License Number of Plugging Operator:	**54891**
Plugging Method:	**Pour in 3/8 bentonite chips when standing water in well is less than 100 feet in depth, cement top 2 feet.**
Plugging Variance #:	**No Data**
Casing Left Data:	1st Interval: **No Data** 2nd Interval: **No Data** 3rd Interval: **No Data**
Cement/Bentonite Plugs Placed in Well:	1st Interval: **From 5 ft to 2 ft; Sack(s)/type of cement used: 1-BENTONITE** 2nd Interval: **From 2 ft to 0 ft; Sack(s)/type of cement used: 1-CEMENT** 3rd Interval: **No Data** 4th Interval: **No Data** 5th Interval: **No Data**

Certification Data:	The plug installer certified that the plug installer plugged this well (or the well was plugged under the plug installer's direct supervision) and that each and all of the statements herein are true and correct. The plug installer understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**RIOMAR ENVIRONMENTAL DRILLING 9213 MONTANA STREET**

	JOSHUA , TX 76058
Plug Installer License Number:	**54891**
Licensed Plug Installer Signature:	**DARRIN S. STARK SR.**
Registered Plug Installer Apprentice Signature:	**DERRICK DAMERON**
Apprentice Registration Number:	**57146**
Plugging Method Comments:	**No Data**

Please include the plugging report's tracking number (Tracking **#79663**) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

STATE OF TEXAS PLUGGING REPORT for Tracking #79664

Owner:	**EXIDE TECHNOLOGIES**	Owner Well #:	**OW-04**
Address:	**7471 SOUTH 5TH FRISCO , TX 75034**	Grid #:	**18-50-8**
Well Location:	**7471 SOUTH 5TH FRISCO , TX 75034**	Latitude:	**33° 08' 29" N**
Well County:	**Collin**	Longitude:	**096° 49' 41" W**
		GPS Brand Used:	**GARMIN**
Well Type:	**Monitor**		

HISTORICAL DATA ON WELL TO BE PLUGGED

Original Well Driller:	**DARRIN S. STARK SR**
Driller's License Number of Original Well Driller:	**54891**
Date Well Drilled:	**6/10/2011**
Well Report Tracking Number:	**258279**
Diameter of Borehole:	**7 inches**
Total Depth of Borehole:	**8 feet**

Date Well Plugged:	**1/20/2012**
Person Actually Performing Plugging Operation:	**DARRIN S. STARK SR.**
License Number of Plugging Operator:	**54891**
Plugging Method:	**Pour in 3/8 bentonite chips when standing water in well is less than 100 feet in depth, cement top 2 feet.**
Plugging Variance #:	**No Data**
Casing Left Data:	1st Interval: **No Data** 2nd Interval: **No Data** 3rd Interval: **No Data**
Cement/Bentonite Plugs Placed in Well:	1st Interval: **From 8 ft to 2 ft; Sack(s)/type of cement used: 1-BENTONITE** 2nd Interval: **From 2 ft to 0 ft; Sack(s)/type of cement used: 1-CEMENT** 3rd Interval: **No Data** 4th Interval: **No Data** 5th Interval: **No Data**

Certification Data:	The plug installer certified that the plug installer plugged this well (or the well was plugged under the plug installer's direct supervision) and that each and all of the statements herein are true and correct. The plug installer understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**RIOMAR ENVIRONMENTAL DRILLING 9213 MONTANA STREET**

	JOSHUA , TX 76058
Plug Installer License Number:	**54891**
Licensed Plug Installer Signature:	**DARRIN S. STARK SR.**
Registered Plug Installer Apprentice Signature:	**DERRICK DAMERON**
Apprentice Registration Number:	**57146**
Plugging Method Comments:	**No Data**

Please include the plugging report's tracking number (Tracking **#79664**) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

STATE OF TEXAS PLUGGING REPORT for Tracking #79665

Owner:	**EXIDE TECHNOLOGIES**	Owner Well #:	**OW-03A**
Address:	**7471 SOUTH 5TH FRISCO , TX 75034**	Grid #:	**18-50-8**
Well Location:	**7471 SOUTH 5TH FRISCO , TX 75034**	Latitude:	**33° 08' 29" N**
Well County:	**Collin**	Longitude:	**096° 49' 41" W**
		GPS Brand Used:	**GARMIN**
Well Type:	**Monitor**		

HISTORICAL DATA ON WELL TO BE PLUGGED

Original Well Driller:	**DARRIN S. STARK SR**
Driller's License Number of Original Well Driller:	**54891**
Date Well Drilled:	**6/10/2011**
Well Report Tracking Number:	**258282**
Diameter of Borehole:	**7 inches**
Total Depth of Borehole:	**20 feet**

Date Well Plugged:	**1/20/2012**
Person Actually Performing Plugging Operation:	**DARRIN S. STARK SR.**
License Number of Plugging Operator:	**54891**
Plugging Method:	**Pour in 3/8 bentonite chips when standing water in well is less than 100 feet in depth, cement top 2 feet.**
Plugging Variance #:	**No Data**
Casing Left Data:	1st Interval: **No Data** 2nd Interval: **No Data** 3rd Interval: **No Data**
Cement/Bentonite Plugs Placed in Well:	1st Interval: **From 20 ft to 2 ft; Sack(s)/type of cement used: 1-BENTONITE** 2nd Interval: **From 2 ft to 0 ft; Sack(s)/type of cement used: 1-CEMENT** 3rd Interval: **No Data** 4th Interval: **No Data** 5th Interval: **No Data**

Certification Data:	The plug installer certified that the plug installer plugged this well (or the well was plugged under the plug installer's direct supervision) and that each and all of the statements herein are true and correct. The plug installer understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**RIOMAR ENVIRONMENTAL DRILLING 9213 MONTANA STREET**

	JOSHUA , TX 76058
Plug Installer License Number:	**54891**
Licensed Plug Installer Signature:	**DARRIN S. STARK SR.**
Registered Plug Installer Apprentice Signature:	**DERRICK DAMERON**
Apprentice Registration Number:	**57146**
Plugging Method Comments:	**No Data**

Please include the plugging report's tracking number (Tracking **#79665**) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

LABORATORY ANALYTICAL REPORTS – STOCKPILE SAMPLES

ATTACHMENT C

OXIDOR Laboratories, LLC

OXIDOR Laboratory Review Checklist Cover Page

Project Name: 112.052.003 Retaining Wall Project
Frisco
OXIDOR Job Number: 12080639 Exide Technologies

This data package consists of:

[X] This signature page, the laboratory review checklist, and the following reportable data:

[X] **R1** Field chain-of-custody documentation;
[X] **R2** Sample identification cross-reference;
[X] **R3** Test reports (analytical data sheets) for each environmental sample that includes:
a) Items consistent with TNI Standard Module 2, Section 5.10
b) dilution factors,
c) preparation methods,
d) cleanup methods, and
e) if required for the project, tentatively identified compounds (TICs);
[X] **R4** Surrogate recovery data including:
a) Calculated recovery (%R), and
b) The laboratory's surrogate QC limits;
[X] **R5** Test reports/summary forms for blank samples;
[X] **R6** Test reports/summary forms for laboratory control samples (LCSs) including:
a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c) The laboratory's LCS QC limits;
[X] **R7** Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
a) Samples associated with the MS/MSD clearly identified,
b) MS/MSD spiking amounts,
c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
d) Calculated %Rs and relative percent differences (RPDs), and
e) The laboratory's MS/MSD QC limits;
[X] **R8** Laboratory analytical duplicate (if applicable) recovery and precision:
a) the amount of analyte measured in the duplicate,
b) the calculated RPD, and
c) the laboratory's QC limits for analytical duplicates;
[X] **R9** List of method quantitation limits (MQLs) for each analyte for each method and matrix;
[X] **R10** Other problems or anomalies.

[X] The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Charles Brungardt		President	September 4, 2012
Name	Signature	Official Title	Date

OXIDOR Laboratories, LLC

Laboratory Review Checklist: Reportable Data

Laboratory Name: OXIDOR Laboratories, LLC	LRC Date: September 4, 2012
Project Name: 112.052.003 Retaining Wall Project	Laboratory Job Number: 12080639 Exide Technologies
Reviewer Name: James A. Narens, III	QC Batch Number(s): See Cross-reference List

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample Quality Control (QC) and identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MDL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample quantitation limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the required frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS)**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs)**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs included in the laboratory data package?	X				
		Does the detectability check sample (DCS) data document the laboratory's capability to detect the COCs at the MQL used to calculate the SQLs?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for all analytes, matrices, and methods associated with this LRC?	X				
		Was applicable and available technology used to lower the SQL to minimize any matrix interference effects on the sample results?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "No" or "NR" is checked).

OXIDOR Laboratories, LLC

Laboratory Review Checklist: Supporting Data

Laboratory Name: OXIDOR Laboratories, LLC	LRC Date: September 4, 2012
Project Name: 112.052.003 Retaining Wall Project	Laboratory Job Number: 12080639 Exide Technologies
Reviewer Name: James A. Narens, III	QC Batch Number(s): See Cross-reference List

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial / continuing calibration verification (ICV / CCV) and continuing calibration blanks (CCB)**					
		Was the CCV analyzed at the method required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal Standards (IS)**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (TNI Standard Module 2, Section 5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results - Metals**					
		Were percent recoveries within the method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions - Metals**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analysis NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Capability (DOC)**					
		Was DOC conducted consistent with TNI Standard Module 4, Section 1.6?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (TNI Standard Module 4, Section 1.5)**					
		Are all methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs)**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "No" or "NR" is checked).

OXIDOR Laboratories, LLC

Laboratory Review Checklist: Exception Reports

Laboratory Name: OXIDOR Laboratories, LLC	LRC Date: September 4, 2012
Project Name: 112.052.003 Retaining Wall Project	Laboratory Job Number: 12080639 Exide Technologies
Reviewer Name: James A. Narens, III	QC Batch Number(s): See Cross-reference List

ER#[1]	DESCRIPTION

1. ER# = Exception Report identification number (an Exception Report should be completed for an item if "No" or "NR" is checked on the LRC)

OXIDOR Laboratories, LLC

T104704227-12-7

Order ID: 12080639
Date: 9/4/2012

Tuesday, September 04, 2012

W&M Environmental Group, Inc.
Frank Clark
906 E. 18th, Suite 100
Plano, TX 75074
Tel: (972) 516-0300 Fax: (972) 516-4145

Re: Project Name: Retaining Wall Project
Project Number: 112.052.003
Project Location: Frisco

Oxidor received 1 solid sample(s). The analysis performed were as follows:

Sample	Sample ID	Matrix	Collected	Analysis
12080639-001	SP-01	Solid	8/30/2012 08:30	TCLP Antimony, TCLP Arsenic, TCLP Barium, TCLP Berylium, TCLP Cadmium, TCLP Chromium, TCLP Lead, TCLP Mercury, TCLP Metals Extraction, TCLP Nickel, TCLP Selenium, TCLP Silver

Respectfully submitted,

Charles Brungardt
President

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

W&M Environmental Group, Inc.
Frank Clark

Analytical Report

Project Name: **Retaining Wall Project**

Customer Sample ID: **SP-01**
Oxidor Sample ID: 12080639-001 Matrix: **Solid**
Sample Received: 8/30/2012 Sample Collected: **8/30/2012 08:30**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Sample Prep								
TCLP Metals Extraction								
TCLP Extraction					08/30/12 16:00	1311	T.C.	
Metals								
Digested by method 3005A on 08/31/12 at 09:20								
TCLP Antimony	0.05	0.050	**0.065**	mg/L	08/31/12 13:08	6020	K.O.	
TCLP Arsenic	0.05	0.050	ND	mg/L	08/31/12 13:08	6020	K.O.	
TCLP Barium	0.05	0.050	**0.153**	mg/L	08/31/12 13:08	6020	K.O.	
TCLP Berylium	0.05	0.050	ND	mg/L	08/31/12 13:08	6020	K.O.	
TCLP Cadmium	0.01	0.010	**0.073**	mg/L	08/31/12 13:08	6020	K.O.	
TCLP Chromium	0.05	0.050	ND	mg/L	08/31/12 13:08	6020	K.O.	
TCLP Lead	0.05	0.050	ND	mg/L	08/31/12 13:08	6020	K.O.	
TCLP Nickel	0.05	0.050	ND	mg/L	08/31/12 13:08	6020	K.O.	
TCLP Selenium	0.05	0.050	ND	mg/L	08/31/12 13:08	6020	K.O.	
TCLP Silver	0.01	0.010	ND	mg/L	08/31/12 13:08	6020	K.O.	
Digested by method 7470A on 08/31/12 at 09:00								
TCLP Mercury	0.001	0.001	ND	mg/L	08/31/12 16:33	7470A	T.C.	

OXIDOR Laboratories, LLC

T104704227-12-7

W&M Environmental Group, Inc.
Frank Clark

Sample Cross Reference

Project Name: **Retaining Wall Project**

Customer ID:	Lab ID:	Test	Method	QCBatchID:
SP-01	12080639-001	TCLP Mercury	7470A	MERC_06623_L
		TCLP Silver	6020	META_05545_L
		TCLP Selenium	6020	META_05545_L
		TCLP Nickel	6020	META_05545_L
		TCLP Lead	6020	META_05545_L
		TCLP Chromium	6020	META_05545_L
		TCLP Cadmium	6020	META_05545_L
		TCLP Berylium	6020	META_05545_L
		TCLP Barium	6020	META_05545_L
		TCLP Arsenic	6020	META_05545_L
		TCLP Antimony	6020	META_05545_L

OXIDOR Laboratories, LLC

T104704227-12-7

W&M Environmental Group, Inc.
Frank Clark

QC Summary

Project Name: **Retaining Wall Project**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID MERC_06623_L									
Blank	TCLP Mercury	ND mg/L							
LCS	TCLP Mercury	0.005 mg/L		0.005 mg/L	104%	85-115%			
LCSD	TCLP Mercury	0.005 mg/L		0.005 mg/L	101%	85-115%	0.5%	0-25%	
MS	TCLP Mercury	0.020 mg/L	ND	0.02 mg/L	99%	80-120%			
MSD	TCLP Mercury	0.021 mg/L	ND	0.02 mg/L	103%	80-120%	2.6%	0-25%	
QCBatchID META_05545_L									
Blank	TCLP Antimony	ND mg/L							
	TCLP Arsenic	ND mg/L							
	TCLP Barium	ND mg/L							
	TCLP Berylium	ND mg/L							
	TCLP Cadmium	ND mg/L							
	TCLP Chromium	ND mg/L							
	TCLP Lead	ND mg/L							
	TCLP Nickel	ND mg/L							
	TCLP Selenium	ND mg/L							
	TCLP Silver	ND mg/L							
LCS	TCLP Antimony	0.101 mg/L		0.1 mg/L	101%	85-115%			
	TCLP Arsenic	0.103 mg/L		0.1 mg/L	103%	85-115%			
	TCLP Barium	0.102 mg/L		0.1 mg/L	102%	85-115%			
	TCLP Berylium	0.105 mg/L		0.1 mg/L	105%	85-115%			
	TCLP Cadmium	0.101 mg/L		0.1 mg/L	101%	85-115%			
	TCLP Chromium	0.102 mg/L		0.1 mg/L	102%	85-115%			
	TCLP Lead	0.099 mg/L		0.1 mg/L	99%	85-115%			
	TCLP Nickel	0.104 mg/L		0.1 mg/L	104%	85-115%			
	TCLP Selenium	0.104 mg/L		0.1 mg/L	104%	85-115%			
	TCLP Silver	0.101 mg/L		0.1 mg/L	101%	85-115%			
LCSD	TCLP Antimony	0.101 mg/L		0.1 mg/L	101%	85-115%	0.4%	0-20%	
	TCLP Arsenic	0.102 mg/L		0.1 mg/L	102%	85-115%	1.0%	0-20%	
	TCLP Barium	0.101 mg/L		0.1 mg/L	101%	85-115%	0.6%	0-20%	
	TCLP Berylium	0.104 mg/L		0.1 mg/L	104%	85-115%	0.9%	0-20%	
	TCLP Cadmium	0.101 mg/L		0.1 mg/L	101%	85-115%	0.5%	0-20%	
	TCLP Chromium	0.102 mg/L		0.1 mg/L	102%	85-115%	0.1%	0-20%	
	TCLP Lead	0.098 mg/L		0.1 mg/L	98%	85-115%	1.5%	0-20%	
	TCLP Nickel	0.103 mg/L		0.1 mg/L	103%	85-115%	1.1%	0-20%	
	TCLP Selenium	0.102 mg/L		0.1 mg/L	102%	85-115%	1.9%	0-20%	
	TCLP Silver	0.100 mg/L		0.1 mg/L	100%	85-115%	0.8%	0-20%	
MS	TCLP Antimony	0.572 mg/L	0.065 mg/L	0.5 mg/L	101%	80-120%			
	TCLP Arsenic	0.515 mg/L	ND	0.5 mg/L	103%	80-120%			
	TCLP Barium	0.656 mg/L	0.153 mg/L	0.5 mg/L	101%	80-120%			
	TCLP Berylium	0.516 mg/L	ND	0.5 mg/L	103%	80-120%			
	TCLP Cadmium	0.579 mg/L	0.073 mg/L	0.5 mg/L	101%	80-120%			
	TCLP Chromium	0.475 mg/L	ND	0.5 mg/L	95%	80-120%			
	TCLP Lead	0.479 mg/L	ND	0.5 mg/L	96%	80-120%			

W&M Environmental Group, Inc.
Frank Clark

QC Summary

Project Name: **Retaining Wall Project**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID	**META_05545_L**								
	TCLP Nickel	0.534 mg/L	ND	0.5 mg/L	107%	80-120%			
	TCLP Selenium	0.538 mg/L	ND	0.5 mg/L	108%	80-120%			
	TCLP Silver	0.502 mg/L	ND	0.5 mg/L	101%	80-120%			
MSD	TCLP Antimony	0.568 mg/L	0.065 mg/L	0.5 mg/L	101%	80-120%	0.7%	0-20%	
	TCLP Arsenic	0.511 mg/L	ND	0.5 mg/L	102%	80-120%	0.7%	0-20%	
	TCLP Barium	0.653 mg/L	0.153 mg/L	0.5 mg/L	100%	80-120%	0.5%	0-20%	
	TCLP Berylium	0.502 mg/L	ND	0.5 mg/L	101%	80-120%	2.7%	0-20%	
	TCLP Cadmium	0.573 mg/L	0.073 mg/L	0.5 mg/L	100%	80-120%	1.1%	0-20%	
	TCLP Chromium	0.468 mg/L	ND	0.5 mg/L	94%	80-120%	1.4%	0-20%	
	TCLP Lead	0.474 mg/L	ND	0.5 mg/L	95%	80-120%	0.9%	0-20%	
	TCLP Nickel	0.536 mg/L	ND	0.5 mg/L	107%	80-120%	0.4%	0-20%	
	TCLP Selenium	0.517 mg/L	ND	0.5 mg/L	104%	80-120%	3.9%	0-20%	
	TCLP Silver	0.495 mg/L	ND	0.5 mg/L	99%	80-120%	1.4%	0-20%	

W&M Environmental Group, Inc.
Frank Clark

Case Narrative

Project Name: **Retaining Wall Project**

ppm	Parts per million = mg/Kg or mg/L
ppb	Parts per billion = ug/Kg or ug/L
MQL	Method quantitation limit
SDL	Sample detection limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilutions)
SQL	Sample quantitation limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilution
ND	Analyte not detected at or above SQL
LCS/LCSD	Laboratory control spike / Laboratory control spike duplicate
MS/MSD	Matrix spike / Matrix spike duplicate
RPD	Relative percent difference
Sub	Analysis performed by subcontract laboratory
*	Refer to QC section

Solid sample results reported on a dry weight basis for all applicable analysis, unless otherwise noted. Dry weight calculations based upon % solids obtained as outlined in EPA method 5035 section 7.5

This report is intended only for the use of W&M Environmental Group, Inc. and may contain information that is privileged and confidential. It may not be reproduced in full (or in part) without the expressed written permission of W&M Environmental Group, Inc. and Oxidor Laboratories, LLC.

Oxidor Laboratories, LLC certifies to the best of its knowledge that all results contained in this report are consistent with the National Environmental Laboratory Accreditation Program, except where otherwise noted.

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

W&M Environmental Group, Inc.
Frank Clark

Sample Preservation Verification

Project Name: **Retaining Wall Project**

Receipt temp: **1.3 °C on Ice**
Receipt method: **Client**
Custody seal intact: **Not Present**

All applicable VOA's received free of headspace: **N/A**
All samples / labels received intact: **Yes**

Customer Sample ID: **SP-01**
Oxidor Sample ID: **12080639-001**
Collected: **08/30/12 08:30**

Collected By: **Nick Foreman**
Collector Affiliation: **W&M Environmental Group, Inc.**
Matrix: **Solid**

Bottle Type	Count	Collection Method	Parts / Interval	Indicated Preservation	pH
4 oz Glass Jar	2	Composite		Temp	-

Sample conditions at time of receipt at laboratory verified in part or in whole by:

A.B.

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

Order ID: 12080639
Date: 9/4/2012

Chain of Custody

PROJECT DESCRIPTION: **Retaining Wall Project**

OXIDOR Laboratories, LLC
1825 East Plano Parkway #160
Plano, TX 75074-8570
P: 972.424.6422 F: 972.424.6508
customerservice@oxidor.com

ACCREDITED IN ACCORDANCE WITH nelac

Chain of Custody Record

Page ____ of ____

Report Information
Company Name: W4M Environmental Group
Address: 905 E 18th
City: Plano State: TX Zip: 75074
Contact Name: Frank Clark, Vanessa Coleman
Contact Email: fclark@w4m.com, VanessaColeman@na.exide.com
Phone: 972-516-0300 Fax: 972-516-4145

Billing Information (Only if Different from above)
Company Name: Exide
Address: 7471 South 5th Street
City: Frisco State: TX Zip: 75034
Contact Name: Vanessa Coleman
Phone: 972-335-2121 Fax: 972-377-2707

Project Information
Circle Requested Turn Around Time (1 Day and ASAP must be verified with lab)
7-10 Days 5-7 Days 3 Days 2 Days 1 Day ASAP
Project Name: Retaining Wall Project
Project Location: Frisco, TX
Project #: 112.052003 Quote # PO #
Sampler Name: Nick Foreman Affiliation / Company: W4M
Sampler Signature:

Matrix Codes: L - Liquid S - Solid W - Wipes A - Air
Preservation Codes: 1 - None 4 - HCl 2 - HNO_3 5 - NaOH 3 - H_2SO_4 6 - Ice 7 - Other
Container Codes: P - Plastic G - Glass O - Other

Special Instructions *
200% Rush
LRL for TARP report

*Please confirm conditional requests prior to additional analysis

Requested Analysis

OXIDOR Order ID		Customer Sample ID	Sample Info Date	Sample Info Time	Matrix	# of Containers	Container Type	Pres Code	(C)omp / (G)rab	Parts / Interval	Hold	TCLP (RCRA 8, 25, Ni, Be)	%Solids for Dry Wt Reporting	Laboratory Review Checklist	Chromatograms / Data Pages
12080639	1	SP01	8/30/12	0850	S	2	G	6	C				X	X	
001	2														
	3														
	4														
	5														
	6														
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														

Relinquished by x: Affiliation W4M Date 8/30/12 Time 1139
Relinquished by x: Affiliation Date Time
Relinquished by x: Affiliation Date Time

Received by x: Affiliation Date Time
Received by x: Affiliation Date Time
Received by OXIDOR by x: Date 8/30/12 Time 1139

08/28/06 - Rev 3.3

Submittal of samples signifies acceptance of OXIDOR's Standard Terms and Conditions.
OXIDOR cannot accept verbal changes to this document. Please fax or email written modifications.

Temp at Reciept 1.3 °C
OX-48

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

Order ID: 12080639
Date: 9/4/2012

Chain of Custody

PROJECT DESCRIPTION: **Retaining Wall Project**

Ashley Bishop 12080639

From: Nick Foreman [nforeman@wh-m.com]
Sent: Thursday, August 30, 2012 12:12 PM
To: CustomerService
Cc: Charles Brungardt
Subject: Exide Sample

It appears I forgot to actually "x" the box for analysis but please analyze the sample collected 8/30/12 (today) for TCLP Metals (RCRA-8, Sb, Ni, and Be).

Thanks.

Nick Foreman
Environmental Scientist II

W&M Environmental Group, Inc.
906 East 18th Street, Plano, Texas 75074
(o) 972.509.9609 (f) 972.516.4145
(c) 817.680.1417

Please don't print this e-mail unless you really need to.

1

OXIDOR Laboratories, LLC

OXIDOR Laboratory Review Checklist Cover Page

Project Name: 112.052.003 Retaining Wall
7174 South Fifth Street, Frisco, TX
OXIDOR Job Number: 12090435 W&M Environmental Group, Inc.

This data package consists of:

[X] This signature page, the laboratory review checklist, and the following reportable data:

- [X] **R1** Field chain-of-custody documentation;
- [X] **R2** Sample identification cross-reference;
- [X] **R3** Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with TNI Standard Module 2, Section 5.10
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs);
- [X] **R4** Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits;
- [X] **R5** Test reports/summary forms for blank samples;
- [X] **R6** Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits;
- [X] **R7** Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits;
- [X] **R8** Laboratory analytical duplicate (if applicable) recovery and precision:
  a) the amount of analyte measured in the duplicate,
  b) the calculated RPD, and
  c) the laboratory's QC limits for analytical duplicates;
- [X] **R9** List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- [X] **R10** Other problems or anomalies.

[X] The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Charles Brungardt		President	September 24, 2012
Name	Signature	Official Title	Date

OXIDOR Laboratories, LLC

Laboratory Review Checklist: Reportable Data

Laboratory Name: OXIDOR Laboratories, LLC	LRC Date: September 24, 2012
Project Name: 112.052.003 Retaining Wall	Laboratory Job Number: 12090435 W&M Environmental Group, Inc.
Reviewer Name: James A. Narens, III	QC Batch Number(s): See Cross-reference List

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample Quality Control (QC) and identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MDL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample quantitation limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the required frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS)**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs)**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs included in the laboratory data package?	X				
		Does the detectability check sample (DCS) data document the laboratory's capability to detect the COCs at the MQL used to calculate the SQLs?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?		X			**ER#1**
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for all analytes, matrices, and methods associated with this LRC?	X				
		Was applicable and available technology used to lower the SQL to minimize any matrix interference effects on the sample results?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "No" or "NR" is checked).

OXIDOR Laboratories, LLC

Laboratory Review Checklist: Supporting Data

Laboratory Name: OXIDOR Laboratories, LLC	LRC Date: September 24, 2012
Project Name: 112.052.003 Retaining Wall	Laboratory Job Number: 12090435 W&M Environmental Group, Inc.
Reviewer Name: James A. Narens, III	QC Batch Number(s): See Cross-reference List

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial / continuing calibration verification (ICV / CCV) and continuing calibration blanks (CCB)**					
		Was the CCV analyzed at the method required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS)**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (TNI Standard Module 2, Section 5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results - Metals**					
		Were percent recoveries within the method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions - Metals**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analysis NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Capability (DOC)**					
		Was DOC conducted consistent with TNI Standard Module 4, Section 1.6?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (TNI Standard Module 4, Section 1.5)**					
		Are all methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs)**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "No" or "NR" is checked).

OXIDOR Laboratories, LLC

Laboratory Review Checklist: Exception Reports

Laboratory Name: OXIDOR Laboratories, LLC	LRC Date: September 24, 2012
Project Name: 112.052.003 Retaining Wall	Laboratory Job Number: 12090435 W&M Environmental Group, Inc.
Reviewer Name: James A. Narens, III	QC Batch Number(s): See Cross-reference List

ER#[1]	DESCRIPTION
ER#1	For pH, samples should be analyzed as soon as possible and preferably at the time of collection for Oxidor Sample ID's 12090435-001 and -002.

1. ER# = Exception Report identification number (an Exception Report should be completed for an item if "No" or "NR" is checked on the LRC)

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

Order ID: 12090435
Date: 9/24/2012

Monday, September 24, 2012

W&M Environmental Group, Inc.
Frank Clark
906 E. 18th, Suite 100
Plano, TX 75074
Tel: (972) 516-0300 Fax: (972) 516-4145

Re: Project Name: Retaining Wall
Project Number: 112.052.003
Project Location: 7174 South Fifth Street, Frisco, TX

Oxidor received 2 solid sample(s). The analysis performed were as follows:

Sample	Sample ID	Matrix	Collected	Analysis
12090435-001	SP-02	Solid	9/21/2012 10:45	Dry Weight, pH, TCLP Antimony, TCLP Arsenic, TCLP Barium, TCLP Berylium, TCLP Cadmium, TCLP Chromium, TCLP Lead, TCLP Mercury, TCLP Metals Extraction, TCLP Nickel, TCLP Selenium, TCLP Silver, Total Petroleum Hydrocarbons
12090435-002	SP-03	Solid	9/21/2012 10:52	Dry Weight, pH, TCLP Antimony, TCLP Arsenic, TCLP Barium, TCLP Berylium, TCLP Cadmium, TCLP Chromium, TCLP Lead, TCLP Mercury, TCLP Metals Extraction, TCLP Nickel, TCLP Selenium, TCLP Silver, Total Petroleum Hydrocarbons

Respectfully submitted,

Charles Brungardt
President

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

Order ID: 12090435
Date: 9/24/2012

W&M Environmental Group, Inc.
Frank Clark

Analytical Report

Project Name: **Retaining Wall**

Customer Sample ID: **SP-02**
Oxidor Sample ID: 12090435-001 Matrix: **Solid**
Sample Received: 9/21/2012 Sample Collected: **9/21/2012 10:45**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
% Solids	0.1	0.1	**76.0**	%	09/24/12 09:00	Dry Weight	L.J.	
pH	0.1	0.1	**7.6**	pH Units	09/21/12 16:21	9045	E.R.	S-12
Metals								
Digested by method 3005A on 09/24/12 at 09:50								
TCLP Antimony	0.05	0.050	ND	mg/L	09/24/12 13:51	6020	K.O.	
TCLP Arsenic	0.05	0.050	ND	mg/L	09/24/12 13:51	6020	K.O.	
TCLP Barium	0.05	0.050	**0.113**	mg/L	09/24/12 13:51	6020	K.O.	
TCLP Berylium	0.05	0.050	ND	mg/L	09/24/12 13:51	6020	K.O.	
TCLP Cadmium	0.01	0.010	**0.011**	mg/L	09/24/12 13:51	6020	K.O.	
TCLP Chromium	0.05	0.050	ND	mg/L	09/24/12 13:51	6020	K.O.	
TCLP Lead	0.05	0.050	ND	mg/L	09/24/12 13:51	6020	K.O.	
TCLP Nickel	0.05	0.050	ND	mg/L	09/24/12 13:51	6020	K.O.	
TCLP Selenium	0.05	0.050	ND	mg/L	09/24/12 13:51	6020	K.O.	
TCLP Silver	0.01	0.010	ND	mg/L	09/24/12 13:51	6020	K.O.	
Digested by method 7470A on 09/24/12 at 09:30								
TCLP Mercury	0.001	0.001	ND	mg/L	09/24/12 15:01	7470A	T.C.	
Total Petroleum Hydrocarbons								
Prepared by method TX 1005 on 09/21/12 at 11:00								
TPH (C 6 to C12)	25	32.9	ND	mg/Kg	09/21/12 22:14	TX 1005	K.J.	
TPH (C12 to C28)	25	32.9	ND	mg/Kg	09/21/12 22:14	TX 1005	K.J.	
TPH (C28 to C35)	25	32.9	ND	mg/Kg	09/21/12 22:14	TX 1005	K.J.	
TPH (C6 to C35)	25	32.9	ND	mg/Kg	09/21/12 22:14	TX 1005	K.J.	

Surrogate	Result	Units	Spike Conc	Recovery	Rec Limits
1-chlorooctane	100	mg/Kg	100 mg/Kg	100%	70-130%
o-Terphenyl	107	mg/Kg	100 mg/Kg	107%	70-130%

Sample Prep

TCLP Metals Extraction

TCLP Extraction					09/23/12 15:30	1311	T.C.	

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

W&M Environmental Group, Inc.
Frank Clark

Analytical Report

Project Name: **Retaining Wall**

Customer Sample ID: **SP-03**
Oxidor Sample ID: 12090435-002 Matrix: **Solid**
Sample Received: 9/21/2012 Sample Collected: **9/21/2012 10:52**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
% Solids	0.1	0.1	**81.0**	%	09/24/12 09:00	Dry Weight	L.J.	
pH	0.1	0.1	**7.7**	pH Units	09/21/12 16:21	9045	E.R.	S-12
Metals								
Digested by method 3005A on 09/24/12 at 09:50								
TCLP Antimony	0.05	0.050	**0.131**	mg/L	09/24/12 13:57	6020	K.O.	
TCLP Arsenic	0.05	0.050	ND	mg/L	09/24/12 13:57	6020	K.O.	
TCLP Barium	0.05	0.050	**0.086**	mg/L	09/24/12 13:57	6020	K.O.	
TCLP Berylium	0.05	0.050	ND	mg/L	09/24/12 13:57	6020	K.O.	
TCLP Cadmium	0.01	0.010	**0.014**	mg/L	09/24/12 13:57	6020	K.O.	
TCLP Chromium	0.05	0.050	ND	mg/L	09/24/12 13:57	6020	K.O.	
TCLP Lead	0.05	0.050	ND	mg/L	09/24/12 13:57	6020	K.O.	
TCLP Nickel	0.05	0.050	ND	mg/L	09/24/12 13:57	6020	K.O.	
TCLP Selenium	0.05	0.050	ND	mg/L	09/24/12 13:57	6020	K.O.	
TCLP Silver	0.01	0.010	ND	mg/L	09/24/12 13:57	6020	K.O.	
Digested by method 7470A on 09/24/12 at 09:30								
TCLP Mercury	0.001	0.001	ND	mg/L	09/24/12 15:02	7470A	T.C.	
Total Petroleum Hydrocarbons								
Prepared by method TX 1005 on 09/21/12 at 11:00								
TPH (C 6 to C12)	25	30.9	ND	mg/Kg	09/21/12 23:02	TX 1005	K.J.	
TPH (C12 to C28)	25	30.9	ND	mg/Kg	09/21/12 23:02	TX 1005	K.J.	
TPH (C28 to C35)	25	30.9	ND	mg/Kg	09/21/12 23:02	TX 1005	K.J.	
TPH (C6 to C35)	25	30.9	ND	mg/Kg	09/21/12 23:02	TX 1005	K.J.	

Surrogate	Result	Units	Spike Conc	Recovery	Rec Limits
1-chlorooctane	100	mg/Kg	100 mg/Kg	100%	70-130%
o-Terphenyl	109	mg/Kg	100 mg/Kg	109%	70-130%

Sample Prep

TCLP Metals Extraction

TCLP Extraction					09/23/12 15:30	1311	T.C.	

W&M Environmental Group, Inc.
Frank Clark

Sample Cross Reference

Project Name: **Retaining Wall**

Customer ID:	Lab ID:	Test	Method	QCBatchID:
SP-02	12090435-001	Total Petroleum Hydrocarbons	TX 1005	1005_03629AS
		Dry Weight	Dry Weight	DW___05226_S
		TCLP Mercury	7470A	MERC_08123_L
		TCLP Antimony	6020	META_09445_L
		TCLP Arsenic	6020	META_09445_L
		TCLP Barium	6020	META_09445_L
		TCLP Berylium	6020	META_09445_L
		TCLP Cadmium	6020	META_09445_L
		TCLP Chromium	6020	META_09445_L
		TCLP Lead	6020	META_09445_L
		TCLP Nickel	6020	META_09445_L
		TCLP Selenium	6020	META_09445_L
		TCLP Silver	6020	META_09445_L
		pH	9045	PH___03115_S
SP-03	12090435-002	Total Petroleum Hydrocarbons	TX 1005	1005_03629AS
		Dry Weight	Dry Weight	DW___05226_S
		TCLP Mercury	7470A	MERC_08123_L
		TCLP Antimony	6020	META_09445_L
		TCLP Arsenic	6020	META_09445_L
		TCLP Barium	6020	META_09445_L
		TCLP Berylium	6020	META_09445_L
		TCLP Cadmium	6020	META_09445_L
		TCLP Chromium	6020	META_09445_L
		TCLP Lead	6020	META_09445_L
		TCLP Nickel	6020	META_09445_L
		TCLP Selenium	6020	META_09445_L
		TCLP Silver	6020	META_09445_L
		pH	9045	PH___03115_S

W&M Environmental Group, Inc.
Frank Clark

QC Summary

Project Name: **Retaining Wall**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID	**DW___05226_S**								
Replicate	% Solids	78.2 %	76.0 %				2.9%	0-20%	
QCBatchID	**PH___03115_S**								
LCS	pH	7.0 pH Units		7 pH Units	100%	99-102%			
LCSD	pH	7.0 pH Units		7 pH Units	101%	99-102%	0.6%	0-25%	
Replicate	pH	7.3 pH Units	7.0 pH Units				4.2%	0-10%	
QCBatchID	**MERC_08123_L**								
Blank	TCLP Mercury	ND mg/L							
LCS	TCLP Mercury	0.005 mg/L		0.005 mg/L	96%	85-115%			
LCSD	TCLP Mercury	0.005 mg/L		0.005 mg/L	101%	85-115%	1.4%	0-25%	
MS	TCLP Mercury	0.021 mg/L	ND	0.02 mg/L	103%	80-120%			
MSD	TCLP Mercury	0.019 mg/L	ND	0.02 mg/L	96%	80-120%	9.5%	0-25%	
QCBatchID	**META_09445_L**								
Blank	TCLP Antimony	ND mg/L							
	TCLP Arsenic	ND mg/L							
	TCLP Barium	ND mg/L							
	TCLP Berylium	ND mg/L							
	TCLP Cadmium	ND mg/L							
	TCLP Chromium	ND mg/L							
	TCLP Lead	ND mg/L							
	TCLP Nickel	ND mg/L							
	TCLP Selenium	ND mg/L							
	TCLP Silver	ND mg/L							
LCS	TCLP Antimony	0.101 mg/L		0.1 mg/L	101%	85-115%			
	TCLP Arsenic	0.103 mg/L		0.1 mg/L	103%	85-115%			
	TCLP Barium	0.103 mg/L		0.1 mg/L	103%	85-115%			
	TCLP Berylium	0.097 mg/L		0.1 mg/L	97%	85-115%			
	TCLP Cadmium	0.101 mg/L		0.1 mg/L	101%	85-115%			
	TCLP Chromium	0.102 mg/L		0.1 mg/L	102%	85-115%			
	TCLP Lead	0.100 mg/L		0.1 mg/L	100%	85-115%			
	TCLP Nickel	0.103 mg/L		0.1 mg/L	104%	85-115%			
	TCLP Selenium	0.102 mg/L		0.1 mg/L	102%	85-115%			
	TCLP Silver	0.102 mg/L		0.1 mg/L	102%	85-115%			
LCSD	TCLP Antimony	0.101 mg/L		0.1 mg/L	101%	85-115%	0.2%	0-20%	
	TCLP Arsenic	0.103 mg/L		0.1 mg/L	103%	85-115%	0.4%	0-20%	
	TCLP Barium	0.102 mg/L		0.1 mg/L	102%	85-115%	0.8%	0-20%	
	TCLP Berylium	0.099 mg/L		0.1 mg/L	99%	85-115%	2.1%	0-20%	
	TCLP Cadmium	0.101 mg/L		0.1 mg/L	101%	85-115%	0.2%	0-20%	
	TCLP Chromium	0.102 mg/L		0.1 mg/L	103%	85-115%	0.5%	0-20%	
	TCLP Lead	0.100 mg/L		0.1 mg/L	100%	85-115%	0.1%	0-20%	
	TCLP Nickel	0.104 mg/L		0.1 mg/L	104%	85-115%	0.6%	0-20%	
	TCLP Selenium	0.102 mg/L		0.1 mg/L	102%	85-115%	0.2%	0-20%	
	TCLP Silver	0.102 mg/L		0.1 mg/L	102%	85-115%	0.0%	0-20%	

W&M Environmental Group, Inc.
Frank Clark

QC Summary

Project Name: **Retaining Wall**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID	**META_09445_L**								
MS	TCLP Antimony	0.507 mg/L	ND	0.5 mg/L	101%	80-120%			
	TCLP Arsenic	0.516 mg/L	ND	0.5 mg/L	103%	80-120%			
	TCLP Barium	0.561 mg/L	0.049 mg/L	0.5 mg/L	102%	80-120%			
	TCLP Berylium	0.506 mg/L	ND	0.5 mg/L	101%	80-120%			
	TCLP Cadmium	0.496 mg/L	ND	0.5 mg/L	99%	80-120%			
	TCLP Chromium	0.509 mg/L	ND	0.5 mg/L	102%	80-120%			
	TCLP Lead	0.495 mg/L	ND	0.5 mg/L	99%	80-120%			
	TCLP Nickel	0.580 mg/L	0.052 mg/L	0.5 mg/L	106%	80-120%			
	TCLP Selenium	0.528 mg/L	ND	0.5 mg/L	106%	80-120%			
	TCLP Silver	0.508 mg/L	ND	0.5 mg/L	102%	80-120%			
MSD	TCLP Antimony	0.501 mg/L	ND	0.5 mg/L	100%	80-120%	1.2%	0-20%	
	TCLP Arsenic	0.498 mg/L	ND	0.5 mg/L	100%	80-120%	3.6%	0-20%	
	TCLP Barium	0.545 mg/L	0.049 mg/L	0.5 mg/L	99%	80-120%	2.8%	0-20%	
	TCLP Berylium	0.504 mg/L	ND	0.5 mg/L	101%	80-120%	0.3%	0-20%	
	TCLP Cadmium	0.504 mg/L	ND	0.5 mg/L	101%	80-120%	1.6%	0-20%	
	TCLP Chromium	0.499 mg/L	ND	0.5 mg/L	100%	80-120%	2.1%	0-20%	
	TCLP Lead	0.490 mg/L	ND	0.5 mg/L	98%	80-120%	1.0%	0-20%	
	TCLP Nickel	0.570 mg/L	0.052 mg/L	0.5 mg/L	104%	80-120%	1.7%	0-20%	
	TCLP Selenium	0.512 mg/L	ND	0.5 mg/L	102%	80-120%	3.1%	0-20%	
	TCLP Silver	0.508 mg/L	ND	0.5 mg/L	102%	80-120%	0.1%	0-20%	
QCBatchID	**1005_03629AS**								
Blank	TPH (C 6 to C12)	ND mg/Kg							
	TPH (C12 to C28)	ND mg/Kg							
	TPH (C28 to C35)	ND mg/Kg							
	TPH (C6 to C35)	ND mg/Kg							
Surrogate		**Result**		**Spike Conc**	**Recovery**	**Rec Limits**			
	1-chlorooctane	111 mg/Kg		100 mg/Kg	111%	70-130%			
	o-Terphenyl	121 mg/Kg		100 mg/Kg	121%	70-130%			
LCS	TPH (C6 to C35)	110 mg/Kg		100 mg/Kg	110%	75-125%			
Surrogate		**Result**		**Spike Conc**	**Recovery**	**Rec Limits**			
	1-chlorooctane	96.9 mg/Kg		100 mg/Kg	97%	70-130%			
	o-Terphenyl	105 mg/Kg		100 mg/Kg	105%	70-130%			
LCSD	TPH (C6 to C35)	117 mg/Kg		100 mg/Kg	117%	75-125%	6.2%	0-20%	
Surrogate		**Result**		**Spike Conc**	**Recovery**	**Rec Limits**			
	1-chlorooctane	102 mg/Kg		100 mg/Kg	102%	70-130%			
	o-Terphenyl	112 mg/Kg		100 mg/Kg	112%	70-130%			
MS	TPH (C6 to C35)	116 mg/Kg	ND	100 mg/Kg	116%	75-125%			
Surrogate		**Result**		**Spike Conc**	**Recovery**	**Rec Limits**			
	1-chlorooctane	107 mg/Kg		100 mg/Kg	107%	70-130%			
	o-Terphenyl	116 mg/Kg		100 mg/Kg	116%	70-130%			
MSD	TPH (C6 to C35)	120 mg/Kg	ND	100 mg/Kg	120%	75-125%	3.4%	0-20%	

W&M Environmental Group, Inc.
Frank Clark

QC Summary

Project Name: **Retaining Wall**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID	**1005_03629AS**								
Surrogate		**Result**		**Spike Conc**	**Recovery**	**Rec Limits**			
	1-chlorooctane	109 mg/Kg		100 mg/Kg	109%	70-130%			
	o-Terphenyl	117 mg/Kg		100 mg/Kg	117%	70-130%			

OXIDOR Laboratories, LLC

T104704227-12-7

W&M Environmental Group, Inc.
Frank Clark

Case Narrative

Project Name: **Retaining Wall**

S-12	Sample should be analyzed as soon as possible and preferably at the time of collection.
ppm	Parts per million = mg/Kg or mg/L
ppb	Parts per billion = ug/Kg or ug/L
MQL	Method quantitation limit
SDL	Sample detection limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilutions)
SQL	Sample quantitation limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilution
ND	Analyte not detected at or above SQL
LCS/LCSD	Laboratory control spike / Laboratory control spike duplicate
MS/MSD	Matrix spike / Matrix spike duplicate
RPD	Relative percent difference
Sub	Analysis performed by subcontract laboratory
*	Refer to QC section

Solid sample results reported on a dry weight basis for all applicable analysis, unless otherwise noted. Dry weight calculations based upon % solids obtained as outlined in EPA method 5035 section 7.5

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Oxidor Laboratories, LLC certifies to the best of its knowledge that all results contained in this report are consistent with the National Environmental Laboratory Accreditation Program, except where otherwise noted.

OXIDOR Laboratories, LLC

T104704227-12-7

Order ID: 12090435
Date: 9/24/2012

W&M Environmental Group, Inc.
Frank Clark

Sample Preservation Verification

Project Name: **Retaining Wall**

Receipt temp: **1.3 °C on Ice**
Receipt method: **Client**
Custody seal intact: **Not Present**
All samples / labels received intact: **Yes**

Customer Sample ID: **SP-02**
Oxidor Sample ID: **12090435-001**
Collected: **09/21/12 10:45**
Collected By: **Brent Vollmar**
Collector Affiliation: **W&M Environmental Group, Inc.**
Matrix: **Solid**

Bottle Type	Count	Collection Method	Parts / Interval	Indicated Preservation	pH
4 oz Glass Jar	3	Composite		Temp	-

Customer Sample ID: **SP-03**
Oxidor Sample ID: **12090435-002**
Collected: **09/21/12 10:52**
Collected By: **Brent Vollmar**
Collector Affiliation: **W&M Environmental Group, Inc.**
Matrix: **Solid**

Bottle Type	Count	Collection Method	Parts / Interval	Indicated Preservation	pH
4 oz Glass Jar	3	Composite		Temp	-

Sample conditions at time of receipt at laboratory verified in part or in whole by:

A.B.

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

Order ID: 12090435
Date: 9/24/2012
Page 10 of 11

Chain of Custody

PROJECT DESCRIPTION: **Retaining Wall**

OXIDOR Laboratories, LLC
1825 East Plano Parkway, #160
Plano, TX 75074-8570
P: 972.424.6422 F: 972.424.6508
customerservice@oxidor.com

Chain of Custody Record

Page 1 of 1

Send Report To

Company Name: W&M Environmental Group
Address: 906 E. 18th St.
City: PLANO State: TX Zip: 75074
Contact Name: FRANK CLARK
Contact Email: fclark@wh-m.com
Phone: (972) 509-9611 Fax:

Project / Report Information

Circle Requested Turn Around Time (Less than 2 Days must be verified with lab)
7-10 Days 5-7 Days RUSH 3-4 Days 2 Days ASAP

Project Name: Retaining Wall
Project Location: 7174 South Fifth street, Frisco, TX
Project #: 112.052.003 PO #:
Sampler Name: B. VOLLMAR Sampler Company: W&M
Sampler Signature: Brent Vollmar

Send Invoice To (Only if Different from above)

Company Name:
Address:
City: State: Zip:
Contact Name:
Phone: Fax:

Matrix Codes
L - Liquid S - Solid
W - Wipes A - Air

Presevation Codes
1 - None 4 - HCl
2 - HNO_3 5 - NaOH
3 - H_2SO_4 6 - Ice
7 - Other

Container Codes
P - Plastic G - Glass
O - Other

Special Instructions *

*Please confirm conditional requests prior to additional analysis

Requested Analysis

OXIDOR Order ID		Customer Sample ID	Sample Info Date	Sample Info Time	Matrix	# of Containers	Container Type	Pres Code	(C)omp / (G)rab	Parts / Interval	Hold	TCLP Metals 8	Sb, Ni, Be			TPH	pH				Total Solids / Dry Weight	Laboratory Review Checklist	Chromatograms / Data Pages
12090435																							
001	1	SP-02	9/21/12	10:45	S	3	G	6	G			X	X			X	X				X	X	
002	2	SP-03	9/21/12	10:52	S	3	G	6	G			X	X			X	X				X	X	
	3																						
	4																						
	5																						
	6																						
	7																						
	8																						
	9																						
	10																						
	11																						
	12																						
	13																						
	14																						
	15																						

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
x Brent Vollmar		9/21/12	1153	x			
x				x			
x				Received for OXIDOR by: [signature]		9/21/12	1153

Submittal of samples signifies acceptance of OXIDOR's Standard Terms and Conditions
OXIDOR cannot accept verbal changes to this document. Please fax or email written modifications

5/22/2008 - Rev 4.0

Temp at Reciept 1.3 °C
OX-48

Chain of Custody

PROJECT DESCRIPTION: **Retaining Wall**

Page 1 of 1

Ashley Bishop 12090435

From: Brent Vollmar [bvollmar@wh-m.com]
Sent: Friday, September 21, 2012 12:08 PM
To: CustomerService
Subject: samples dropped off at 11:53 9-21-12 (112.052.003)

Samples dropped off at 11:53 9-21-12 for project #: 112.053.003.... Just wanted to make sure you know that all metals samples are TCLP metals.... I did not mark it for Sb, Ni, or Be.... samples are ASAP TAT..

Thanks,

Brent Vollmar
972.509.9600

9/21/2012

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

Order ID: 12100625
Date: 10/24/2012

Wednesday, October 24, 2012

W&M Environmental Group, Inc.
Frank Clark
906 E. 18th, Suite 100
Plano, TX 75074
Tel: (972) 516-0300 Fax: (972) 516-4145

Re: Project Name: Retaining Wall
Project Number: 112.052.003
Project Location: 7471 South Fifth Street, Frisco, TX

Oxidor received 3 solid sample(s). The analysis performed were as follows:

Sample	Sample ID	Matrix	Collected	Analysis
12100625-001	SP-04	Solid	10/22/2012 12:20	Dry Weight, pH, TCLP Antimony, TCLP Arsenic, TCLP Barium, TCLP Berylium, TCLP Cadmium, TCLP Chromium, TCLP Lead, TCLP Mercury, TCLP Metals Extraction, TCLP Nickel, TCLP Selenium, TCLP Silver, Total Petroleum Hydrocarbons
12100625-002	SP-05	Solid	10/22/2012 12:25	Dry Weight, pH, TCLP Antimony, TCLP Arsenic, TCLP Barium, TCLP Berylium, TCLP Cadmium, TCLP Chromium, TCLP Lead, TCLP Mercury, TCLP Metals Extraction, TCLP Nickel, TCLP Selenium, TCLP Silver, Total Petroleum Hydrocarbons
12100625-003	SP-06	Solid	10/22/2012 12:30	Dry Weight, pH, TCLP Antimony, TCLP Arsenic, TCLP Barium, TCLP Berylium, TCLP Cadmium, TCLP Chromium, TCLP Lead, TCLP Mercury, TCLP Metals Extraction, TCLP Nickel, TCLP Selenium, TCLP Silver, Total Petroleum Hydrocarbons

Respectfully submitted,



Charles Brungardt
President

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

W&M Environmental Group, Inc.
Frank Clark

Analytical Report

Project Name: **Retaining Wall**

Customer Sample ID: **SP-04**
Oxidor Sample ID: 12100625-001 Matrix: **Solid**
Sample Received: 10/22/2012 Sample Collected: **10/22/2012 12:20**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
% Solids	0.1	0.1	**84.0**	%	10/22/12 20:00	Dry Weight	M.B.	
pH	0.1	0.1	**8.2**	pH Units	10/22/12 21:00	9045	M.B.	S-12
Metals								
Digested by method 3005A on 10/23/12 at 10:55								
TCLP Antimony	0.05	0.050	**0.116**	mg/L	10/23/12 15:15	6020	K.O.	
TCLP Arsenic	0.05	0.050	ND	mg/L	10/23/12 15:15	6020	K.O.	
TCLP Barium	0.05	0.050	**0.137**	mg/L	10/23/12 15:15	6020	K.O.	
TCLP Berylium	0.05	0.050	ND	mg/L	10/23/12 15:15	6020	K.O.	
TCLP Cadmium	0.01	0.010	**0.267**	mg/L	10/23/12 15:15	6020	K.O.	
TCLP Chromium	0.05	0.050	ND	mg/L	10/23/12 15:15	6020	K.O.	
TCLP Lead	0.05	0.487	**12.5**	mg/L	10/23/12 15:21	6020	K.O.	D-1
TCLP Nickel	0.05	0.050	ND	mg/L	10/23/12 15:15	6020	K.O.	
TCLP Selenium	0.05	0.050	ND	mg/L	10/23/12 15:15	6020	K.O.	
TCLP Silver	0.01	0.010	ND	mg/L	10/23/12 15:15	6020	K.O.	
Digested by method 7470A on 10/23/12 at 10:15								
TCLP Mercury	0.001	0.001	ND	mg/L	10/23/12 17:11	7470A	T.C.	
Total Petroleum Hydrocarbons								
Prepared by method TX 1005 on 10/22/12 at 11:00								
TPH (C 6 to C12)	25	29.8	ND	mg/Kg	10/23/12 01:04	TX 1005	K.J.	
TPH (C12 to C28)	25	29.8	ND	mg/Kg	10/23/12 01:04	TX 1005	K.J.	
TPH (C28 to C35)	25	29.8	ND	mg/Kg	10/23/12 01:04	TX 1005	K.J.	
TPH (C6 to C35)	25	29.8	ND	mg/Kg	10/23/12 01:04	TX 1005	K.J.	

Surrogate	Result	Units	Spike Conc	Recovery	Rec Limits
1-chlorooctane	115	mg/Kg	100 mg/Kg	115%	70-130%
o-Terphenyl	107	mg/Kg	100 mg/Kg	107%	70-130%

Sample Prep

TCLP Metals Extraction

TCLP Extraction					10/22/12 17:40	1311	K.O.	

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

W&M Environmental Group, Inc.
Frank Clark

Analytical Report

Project Name: **Retaining Wall**

Customer Sample ID: **SP-05**
Oxidor Sample ID: 12100625-002 Matrix: **Solid**
Sample Received: 10/22/2012 Sample Collected: **10/22/2012 12:25**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
% Solids	0.1	0.1	**88.2**	%	10/22/12 20:00	Dry Weight	M.B.	
pH	0.1	0.1	**8.2**	pH Units	10/22/12 21:00	9045	M.B.	S-12
Metals								
Digested by method 3005A on 10/23/12 at 10:55								
TCLP Antimony	0.05	0.050	**0.082**	mg/L	10/23/12 15:27	6020	K.O.	
TCLP Arsenic	0.05	0.050	ND	mg/L	10/23/12 15:27	6020	K.O.	
TCLP Barium	0.05	0.050	**0.072**	mg/L	10/23/12 15:27	6020	K.O.	
TCLP Berylium	0.05	0.050	ND	mg/L	10/23/12 15:27	6020	K.O.	
TCLP Cadmium	0.01	0.010	**0.039**	mg/L	10/23/12 15:27	6020	K.O.	
TCLP Chromium	0.05	0.050	ND	mg/L	10/23/12 15:27	6020	K.O.	
TCLP Lead	0.05	0.050	**0.079**	mg/L	10/23/12 15:27	6020	K.O.	
TCLP Nickel	0.05	0.050	ND	mg/L	10/23/12 15:27	6020	K.O.	
TCLP Selenium	0.05	0.050	ND	mg/L	10/23/12 15:27	6020	K.O.	
TCLP Silver	0.01	0.010	ND	mg/L	10/23/12 15:27	6020	K.O.	
Digested by method 7470A on 10/23/12 at 10:15								
TCLP Mercury	0.001	0.001	ND	mg/L	10/23/12 17:11	7470A	T.C.	
Total Petroleum Hydrocarbons								
Prepared by method TX 1005 on 10/22/12 at 11:00								
TPH (C 6 to C12)	25	28.3	ND	mg/Kg	10/23/12 02:48	TX 1005	K.J.	
TPH (C12 to C28)	**25**	**28.3**	**110**	**mg/Kg**	10/23/12 02:48	TX 1005	K.J.	
TPH (C28 to C35)	**25**	**28.3**	**33.8**	**mg/Kg**	10/23/12 02:48	TX 1005	K.J.	
TPH (C6 to C35)	**25**	**28.3**	**143.8**	**mg/Kg**	10/23/12 02:48	TX 1005	K.J.	

Surrogate	Result	Units	Spike Conc	Recovery	Rec Limits
1-chlorooctane	119	mg/Kg	100 mg/Kg	119%	70-130%
o-Terphenyl	121	mg/Kg	100 mg/Kg	121%	70-130%

Sample Prep

TCLP Metals Extraction

TCLP Extraction					10/22/12 17:40	1311	K.O.	

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

W&M Environmental Group, Inc.
Frank Clark

Analytical Report

Project Name: **Retaining Wall**

Customer Sample ID: **SP-06**
Oxidor Sample ID: 12100625-003 Matrix: **Solid**
Sample Received: 10/22/2012 Sample Collected: **10/22/2012 12:30**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
% Solids	0.1	0.1	**81.7**	%	10/22/12 20:00	Dry Weight	M.B.	
pH	0.1	0.1	**8.3**	pH Units	10/22/12 21:00	9045	M.B.	S-12
Metals								
Digested by method 3005A on 10/23/12 at 10:55								
TCLP Antimony	0.05	0.050	**0.083**	mg/L	10/23/12 15:46	6020	K.O.	
TCLP Arsenic	0.05	0.050	ND	mg/L	10/23/12 15:46	6020	K.O.	
TCLP Barium	0.05	0.050	**0.083**	mg/L	10/23/12 15:46	6020	K.O.	
TCLP Berylium	0.05	0.050	ND	mg/L	10/23/12 15:46	6020	K.O.	
TCLP Cadmium	0.01	0.010	**0.052**	mg/L	10/23/12 15:46	6020	K.O.	
TCLP Chromium	0.05	0.050	ND	mg/L	10/23/12 15:46	6020	K.O.	
TCLP Lead	0.05	0.050	**0.287**	mg/L	10/23/12 15:46	6020	K.O.	
TCLP Nickel	0.05	0.050	ND	mg/L	10/23/12 15:46	6020	K.O.	
TCLP Selenium	0.05	0.050	ND	mg/L	10/23/12 15:46	6020	K.O.	
TCLP Silver	0.01	0.010	ND	mg/L	10/23/12 15:46	6020	K.O.	
Digested by method 7470A on 10/23/12 at 10:15								
TCLP Mercury	0.001	0.001	ND	mg/L	10/23/12 17:12	7470A	T.C.	
Total Petroleum Hydrocarbons								
Prepared by method TX 1005 on 10/22/12 at 11:00								
TPH (C 6 to C12)	25	30.6	ND	mg/Kg	10/23/12 01:57	TX 1005	K.J.	
TPH (C12 to C28)	25	30.6	ND	mg/Kg	10/23/12 01:57	TX 1005	K.J.	
TPH (C28 to C35)	25	30.6	ND	mg/Kg	10/23/12 01:57	TX 1005	K.J.	
TPH (C6 to C35)	25	30.6	ND	mg/Kg	10/23/12 01:57	TX 1005	K.J.	

Surrogate	Result	Units	Spike Conc	Recovery	Rec Limits
1-chlorooctane	116	mg/Kg	100 mg/Kg	116%	70-130%
o-Terphenyl	106	mg/Kg	100 mg/Kg	106%	70-130%

Sample Prep

TCLP Metals Extraction

TCLP Extraction					10/22/12 17:40	1311	K.O.	

W&M Environmental Group, Inc.
Frank Clark

Sample Cross Reference

Project Name: **Retaining Wall**

Customer ID:	Lab ID:	Test	Method	QCBatchID:
SP-04	12100625-001	Total Petroleum Hydrocarbons	TX 1005	1005_05129BS
		Dry Weight	Dry Weight	DW___08326_S
		TCLP Mercury	7470A	MERC_10723_L
		TCLP Silver	6020	META_01046_L
		TCLP Nickel	6020	META_01046_L
		TCLP Lead	6020	META_01046_L
		TCLP Chromium	6020	META_01046_L
		TCLP Cadmium	6020	META_01046_L
		TCLP Berylium	6020	META_01046_L
		TCLP Barium	6020	META_01046_L
		TCLP Arsenic	6020	META_01046_L
		TCLP Antimony	6020	META_01046_L
		TCLP Selenium	6020	META_01046_L
		pH	9045	PH___07315_S
SP-05	12100625-002	Total Petroleum Hydrocarbons	TX 1005	1005_05129BS
		Dry Weight	Dry Weight	DW___08326_S
		TCLP Mercury	7470A	MERC_10723_L
		TCLP Chromium	6020	META_01046_L
		TCLP Antimony	6020	META_01046_L
		TCLP Arsenic	6020	META_01046_L
		TCLP Barium	6020	META_01046_L
		TCLP Lead	6020	META_01046_L
		TCLP Nickel	6020	META_01046_L
		TCLP Selenium	6020	META_01046_L
		TCLP Silver	6020	META_01046_L
		TCLP Cadmium	6020	META_01046_L
		TCLP Berylium	6020	META_01046_L
		pH	9045	PH___07315_S
SP-06	12100625-003	Total Petroleum Hydrocarbons	TX 1005	1005_05129BS
		Dry Weight	Dry Weight	DW___08326_S
		TCLP Mercury	7470A	MERC_10723_L
		TCLP Antimony	6020	META_01046_L
		TCLP Silver	6020	META_01046_L
		TCLP Selenium	6020	META_01046_L
		TCLP Nickel	6020	META_01046_L
		TCLP Lead	6020	META_01046_L
		TCLP Chromium	6020	META_01046_L
		TCLP Cadmium	6020	META_01046_L
		TCLP Berylium	6020	META_01046_L
		TCLP Arsenic	6020	META_01046_L
		TCLP Barium	6020	META_01046_L
		pH	9045	PH___07315_S

W&M Environmental Group, Inc.
Frank Clark

QC Summary

Project Name: **Retaining Wall**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID DW___08326_S									
Replicate	% Solids	84.8 %	84.0 %				0.9%	0-20%	
QCBatchID PH___07315_S									
LCS	pH	7.0 pH Units		7 pH Units	100%	99-102%			
LCSD	pH	7.0 pH Units		7 pH Units	100%	99-102%	0.3%	0-25%	
Replicate	pH	8.2 pH Units	8.2 pH Units				0.1%	0-10%	
QCBatchID MERC_10723_L									
Blank	TCLP Mercury	ND mg/L							
LCS	TCLP Mercury	0.005 mg/L		0.005 mg/L	98%	85-115%			
LCSD	TCLP Mercury	0.005 mg/L		0.005 mg/L	105%	85-115%	4.6%	0-25%	
MS	TCLP Mercury	0.021 mg/L	ND	0.02 mg/L	103%	80-120%			
MSD	TCLP Mercury	0.022 mg/L	ND	0.02 mg/L	109%	80-120%	4.1%	0-25%	
QCBatchID META_01046_L									
Blank	TCLP Antimony	ND mg/L							
	TCLP Arsenic	ND mg/L							
	TCLP Barium	ND mg/L							
	TCLP Berylium	ND mg/L							
	TCLP Cadmium	ND mg/L							
	TCLP Chromium	ND mg/L							
	TCLP Lead	ND mg/L							
	TCLP Nickel	ND mg/L							
	TCLP Selenium	ND mg/L							
	TCLP Silver	ND mg/L							
LCS	TCLP Antimony	0.098 mg/L		0.1 mg/L	98%	85-115%			
	TCLP Arsenic	0.101 mg/L		0.1 mg/L	101%	85-115%			
	TCLP Barium	0.100 mg/L		0.1 mg/L	100%	85-115%			
	TCLP Berylium	0.100 mg/L		0.1 mg/L	100%	85-115%			
	TCLP Cadmium	0.100 mg/L		0.1 mg/L	100%	85-115%			
	TCLP Chromium	0.099 mg/L		0.1 mg/L	99%	85-115%			
	TCLP Lead	0.096 mg/L		0.1 mg/L	96%	85-115%			
	TCLP Nickel	0.101 mg/L		0.1 mg/L	101%	85-115%			
	TCLP Selenium	0.100 mg/L		0.1 mg/L	100%	85-115%			
	TCLP Silver	0.099 mg/L		0.1 mg/L	99%	85-115%			
LCSD	TCLP Antimony	0.100 mg/L		0.1 mg/L	100%	85-115%	2.1%	0-20%	
	TCLP Arsenic	0.102 mg/L		0.1 mg/L	102%	85-115%	1.3%	0-20%	
	TCLP Barium	0.102 mg/L		0.1 mg/L	102%	85-115%	2.1%	0-20%	
	TCLP Berylium	0.098 mg/L		0.1 mg/L	98%	85-115%	2.5%	0-20%	
	TCLP Cadmium	0.102 mg/L		0.1 mg/L	102%	85-115%	1.5%	0-20%	
	TCLP Chromium	0.100 mg/L		0.1 mg/L	100%	85-115%	0.8%	0-20%	
	TCLP Lead	0.099 mg/L		0.1 mg/L	99%	85-115%	2.6%	0-20%	
	TCLP Nickel	0.102 mg/L		0.1 mg/L	102%	85-115%	1.2%	0-20%	
	TCLP Selenium	0.101 mg/L		0.1 mg/L	101%	85-115%	1.2%	0-20%	
	TCLP Silver	0.101 mg/L		0.1 mg/L	101%	85-115%	2.1%	0-20%	

W&M Environmental Group, Inc.
Frank Clark

QC Summary

Project Name: **Retaining Wall**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID	**META_01046_L**								
MS	TCLP Antimony	0.622 mg/L	0.116 mg/L	0.5 mg/L	101%	80-120%			
	TCLP Arsenic	0.543 mg/L	ND	0.5 mg/L	109%	80-120%			
	TCLP Barium	0.652 mg/L	0.137 mg/L	0.5 mg/L	103%	80-120%			
	TCLP Berylium	0.497 mg/L	ND	0.5 mg/L	99%	80-120%			
	TCLP Cadmium	0.761 mg/L	0.267 mg/L	0.5 mg/L	99%	80-120%			
	TCLP Chromium	0.510 mg/L	ND	0.5 mg/L	102%	80-120%			
	TCLP Lead	13.1 mg/L	12.5 mg/L	0.5 mg/L	120%	80-120%			
	TCLP Nickel	0.564 mg/L	ND	0.5 mg/L	113%	80-120%			
	TCLP Selenium	0.501 mg/L	ND	0.5 mg/L	100%	80-120%			
	TCLP Silver	0.491 mg/L	ND	0.5 mg/L	98%	80-120%			
MSD	TCLP Antimony	0.615 mg/L	0.116 mg/L	0.5 mg/L	100%	80-120%	1.2%	0-20%	
	TCLP Arsenic	0.547 mg/L	ND	0.5 mg/L	109%	80-120%	0.7%	0-20%	
	TCLP Barium	0.652 mg/L	0.137 mg/L	0.5 mg/L	103%	80-120%	0.1%	0-20%	
	TCLP Berylium	0.494 mg/L	ND	0.5 mg/L	99%	80-120%	0.7%	0-20%	
	TCLP Cadmium	0.756 mg/L	0.267 mg/L	0.5 mg/L	98%	80-120%	0.6%	0-20%	
	TCLP Chromium	0.495 mg/L	ND	0.5 mg/L	99%	80-120%	2.9%	0-20%	
	TCLP Lead	13.1 mg/L	12.5 mg/L	0.5 mg/L	115%	80-120%	0.2%	0-20%	
	TCLP Nickel	0.546 mg/L	ND	0.5 mg/L	109%	80-120%	3.2%	0-20%	
	TCLP Selenium	0.509 mg/L	ND	0.5 mg/L	102%	80-120%	1.6%	0-20%	
	TCLP Silver	0.491 mg/L	ND	0.5 mg/L	98%	80-120%	0.0%	0-20%	
QCBatchID	**1005_05129BS**								
Blank	TPH (C 6 to C12)	ND mg/Kg							
	TPH (C12 to C28)	ND mg/Kg							
	TPH (C28 to C35)	ND mg/Kg							
	TPH (C6 to C35)	ND mg/Kg							
Surrogate		**Result**		**Spike Conc**	**Recovery**	**Rec Limits**			
	1-chlorooctane	123 mg/Kg		100 mg/Kg	123%	70-130%			
	o-Terphenyl	112 mg/Kg		100 mg/Kg	112%	70-130%			
LCS	TPH (C6 to C35)	115 mg/Kg		100 mg/Kg	115%	75-125%			
Surrogate		**Result**		**Spike Conc**	**Recovery**	**Rec Limits**			
	1-chlorooctane	120 mg/Kg		100 mg/Kg	120%	70-130%			
	o-Terphenyl	108 mg/Kg		100 mg/Kg	108%	70-130%			
LCSD	TPH (C6 to C35)	120 mg/Kg		100 mg/Kg	120%	75-125%	4.3%	0-20%	
Surrogate		**Result**		**Spike Conc**	**Recovery**	**Rec Limits**			
	1-chlorooctane	122 mg/Kg		100 mg/Kg	122%	70-130%			
	o-Terphenyl	114 mg/Kg		100 mg/Kg	114%	70-130%			
MS	TPH (C6 to C35)	119 mg/Kg	ND	100 mg/Kg	119%	75-125%			
Surrogate		**Result**		**Spike Conc**	**Recovery**	**Rec Limits**			
	1-chlorooctane	121 mg/Kg		100 mg/Kg	121%	70-130%			
	o-Terphenyl	115 mg/Kg		100 mg/Kg	115%	70-130%			
MSD	TPH (C6 to C35)	121 mg/Kg	ND	100 mg/Kg	121%	75-125%	1.7%	0-20%	

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

W&M Environmental Group, Inc.
Frank Clark

QC Summary

Project Name: **Retaining Wall**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID	**1005_05129BS**								
Surrogate		**Result**		**Spike Conc**	**Recovery**	**Rec Limits**			
	1-chlorooctane	122 mg/Kg		100 mg/Kg	122%	70-130%			
	o-Terphenyl	106 mg/Kg		100 mg/Kg	106%	70-130%			

W&M Environmental Group, Inc.
Frank Clark

Case Narrative

Project Name: **Retaining Wall**

D-1	Elevated reporting limit(s) due to dilution. Dilution resulted from sample matrix interference, high target analyte(s), high non-target analyte(s) or a combination thereof.
S-12	Sample should be analyzed as soon as possible and preferably at the time of collection.
ppm	Parts per million = mg/Kg or mg/L
ppb	Parts per billion = ug/Kg or ug/L
MQL	Method quantitation limit
SDL	Sample detection limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilutions)
SQL	Sample quantitation limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilution
ND	Analyte not detected at or above SQL
LCS/LCSD	Laboratory control spike / Laboratory control spike duplicate
MS/MSD	Matrix spike / Matrix spike duplicate
RPD	Relative percent difference
Sub	Analysis performed by subcontract laboratory
*	Refer to QC section

Solid sample results reported on a dry weight basis for all applicable analysis, unless otherwise noted. Dry weight calculations based upon % solids obtained as outlined in EPA method 5035 section 7.5

This report is intended only for the use of W&M Environmental Group, Inc. and may contain information that is privileged and confidential. It may not be reproduced in full (or in part) without the expressed written permission of W&M Environmental Group, Inc. and Oxidor Laboratories, LLC.

Oxidor Laboratories, LLC certifies to the best of its knowledge that all results contained in this report are consistent with the National Environmental Laboratory Accreditation Program, except where otherwise noted.

OXIDOR Laboratories, LLC

T104704227-12-7

Order ID: 12100625
Date: 10/24/2012

W&M Environmental Group, Inc.
Frank Clark

Sample Preservation Verification

Project Name: **Retaining Wall**

Receipt temp: **2.7 °C on Ice**
Receipt method: **Client**
Custody seal intact: **Not Present**
All samples / labels received intact: **Yes**

Customer Sample ID: **SP-04**
Oxidor Sample ID: **12100625-001**
Collected: **10/22/12 12:20**
Collected By: **Nick Foreman**
Collector Affiliation: **W&M Environmental Group, Inc.**
Matrix: **Solid**

Bottle Type	Count	Collection Method	Parts / Interval	Indicated Preservation	pH
4 oz Glass Jar	3	Composite		Temp	-

Customer Sample ID: **SP-05**
Oxidor Sample ID: **12100625-002**
Collected: **10/22/12 12:25**
Collected By: **Nick Foreman**
Collector Affiliation: **W&M Environmental Group, Inc.**
Matrix: **Solid**

Bottle Type	Count	Collection Method	Parts / Interval	Indicated Preservation	pH
4 oz Glass Jar	3	Composite		Temp	-

Customer Sample ID: **SP-06**
Oxidor Sample ID: **12100625-003**
Collected: **10/22/12 12:30**
Collected By: **Nick Foreman**
Collector Affiliation: **W&M Environmental Group, Inc.**
Matrix: **Solid**

Bottle Type	Count	Collection Method	Parts / Interval	Indicated Preservation	pH
4 oz Glass Jar	3	Composite		Temp	-

Sample conditions at time of receipt at laboratory verified in part or in whole by:

L.J.

OXIDOR Laboratories, LLC

T104704227-12-7

Order ID: 12100625
Date: 10/24/2012

Chain of Custody

PROJECT DESCRIPTION: **Retaining Wall**

OXIDOR Laboratories, LLC
1825 East Plano Parkway. #160
Plano, TX 75074-8570
P: 972.424.6422 F: 972.424.6508
customerservice@oxidor.com

Chain of Custody Record

Page 1 of 1

Send Report To
Company Name: WAM Environmental Group, Inc.
Address: 606 E 18th Street
City: Plano State: TX Zip: 75074
Contact Name: Frank Clark
Contact Email: fclark@wh-m.com
Phone: 972-509-9611 Fax:

Send Invoice To (Only if Different from above)
Company Name: Exide
Address: 7471 South Fifth Street
City: Frisco State: TX Zip: 75034
Contact Name: Vanessa Coleman
Phone: 972-335-2121 Fax: 972-377-2707

Project / Report Information
Circle Requested Turn Around Time (Less than 2 Days must be verified with lab)
7-10 Days 5-7 Days RUSH 3-4 Days 2 Days (ASAP)
Project Name: Retaining Wall
Project Location: 7471 South 5th Street, Frisco, TX
Project # 112.052.003 PO #
Sampler Name: Nick Ramsey Sampler Company: WAM
Sampler Signature:

Matrix Codes: L - Liquid S - Solid W - Wipes A - Air
Preservation Codes: 1 - None 4 - HCl 2 - HNO_3 5 - NaOH 3 - H_2SO_4 6 - Ice 7 - Other
Container Codes: P - Plastic G - Glass O - Other

Special Instructions: 200% rush LRL for TRRP report

*Please confirm conditional requests prior to additional analysis

Requested Analysis

OXIDOR Order ID		Customer Sample ID	Sample Info Date	Sample Info Time	Matrix	# of Containers	Container Type	Pres Code	(C)omp / (G)rab	Parts / Interval	Hold	TCLP As,Ba,Cr	TCLP Sb,Ni,Pb	TPH	Hg						Total Solids / Dry Weight	Laboratory Review Checklist	Chromatograms / Data Pages
12100625																							
-001	1	SP-04	10/22/12	1220	S	3	G	6	C			X	X	X	X						X	X	
-002	2	SP-05	10/22/12	1225	S	3	G	6	C			X	X	X	X						X	X	
-003	3	SP-06	10/22/12	1230	S	3	G	6	C			X	X	X	X						X	X	
	4																						
	5																						
	6																						
	7																						
	8																						
	9																						
	10																						
	11																						
	12																						
	13																						
	14																						
	15																						

Relinquished by X	Affiliation WAM	Date 10/22/12	Time 1637	Received by X	Affiliation	Date	Time
Relinquished by X	Affiliation	Date	Time	Received by X	Affiliation	Date	Time
Relinquished by X	Affiliation	Date	Time	Received for OXIDOR by X		Date 10-22-12	Time 16.37

Submittal of samples signifies acceptance of OXIDOR's Standard Terms and Conditions.
OXIDOR cannot accept verbal changes to this document. Please fax or email written modifications.

5/22/2008 - Rev. 4.0

Temp at Reciept 2.7 °C

OXIDOR Laboratories, LLC

OXIDOR Laboratory Review Checklist Cover Page

Project Name: 112.052.003 Retaining Wall
7471 South Fifth Street, Frisco, TX
OXIDOR Job Number: 12110104 W&M Environmental Group, Inc.

This data package consists of:

[X] This signature page, the laboratory review checklist, and the following reportable data:

- [X] **R1** Field chain-of-custody documentation;
- [X] **R2** Sample identification cross-reference;
- [X] **R3** Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with TNI Standard Module 2, Section 5.10
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs);
- [X] **R4** Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits;
- [X] **R5** Test reports/summary forms for blank samples;
- [X] **R6** Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits;
- [X] **R7** Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits;
- [X] **R8** Laboratory analytical duplicate (if applicable) recovery and precision:
  a) the amount of analyte measured in the duplicate,
  b) the calculated RPD, and
  c) the laboratory's QC limits for analytical duplicates;
- [X] **R9** List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- [X] **R10** Other problems or anomalies.

[X] The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Charles Brungardt		President	November 7, 2012
Name	Signature	Official Title	Date

OXIDOR Laboratories, LLC

Laboratory Review Checklist: Reportable Data

Laboratory Name: OXIDOR Laboratories, LLC	LRC Date: November 7, 2012
Project Name: 112.052.003 Retaining Wall	Laboratory Job Number: 12110104 W&M Environmental Group, Inc.
Reviewer Name: James A. Narens, III	QC Batch Number(s): See Cross-reference List

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample Quality Control (QC) and identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?		X			**ER#1**
		Other than those results < MDL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample quantitation limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the required frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS)**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			**ER#2**
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs)**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs included in the laboratory data package?	X				
		Does the detectability check sample (DCS) data document the laboratory's capability to detect the COCs at the MQL used to calculate the SQLs?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for all analytes, matrices, and methods associated with this LRC?	X				
		Was applicable and available technology used to lower the SQL to minimize any matrix interference effects on the sample results?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "No" or "NR" is checked).

OXIDOR Laboratories, LLC

Laboratory Review Checklist: Supporting Data

Laboratory Name: OXIDOR Laboratories, LLC	LRC Date: November 7, 2012
Project Name: 112.052.003 Retaining Wall	Laboratory Job Number: 12110104 W&M Environmental Group, Inc.
Reviewer Name: James A. Narens, III	QC Batch Number(s): See Cross-reference List

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial / continuing calibration verification (ICV / CCV) and continuing calibration blanks (CCB)**					
		Was the CCV analyzed at the method required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS)**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (TNI Standard Module 2, Section 5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results - Metals**					
		Were percent recoveries within the method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions - Metals**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analysis NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Capability (DOC)**					
		Was DOC conducted consistent with TNI Standard Module 4, Section 1.6?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (TNI Standard Module 4, Section 1.5)**					
		Are all methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs)**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "No" or "NR" is checked).

OXIDOR Laboratories, LLC

Laboratory Review Checklist: Exception Reports

Laboratory Name: OXIDOR Laboratories, LLC	LRC Date: November 7, 2012
Project Name: 112.052.003 Retaining Wall	Laboratory Job Number: 12110104 W&M Environmental Group, Inc.
Reviewer Name: James A. Narens, III	QC Batch Number(s): See Cross-reference List

ER#[1]	DESCRIPTION
ER#1	For pH, samples should be analyzed as soon as possible and preferably at the time of collection for Oxidor Sample ID's 12110104-001 and -002.
ER#2	Metals MS and MSD percent recoveries of Selenium for QC Batch ID META_04546_L (Oxidor Sample ID 12110105-001) were below Oxidor QC limits.

1. ER# = Exception Report identification number (an Exception Report should be completed for an item if "No" or "NR" is checked on the LRC)

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

Order ID: 12110104
Date: 11/7/2012

Wednesday, November 07, 2012

W&M Environmental Group, Inc.
Frank Clark
906 E. 18th, Suite 100
Plano, TX 75074
Tel: (972) 516-0300 Fax: (972) 516-4145

Re: Project Name: Retaining Wall
Project Number: 112.052.003
Project Location: 7471 South Fifth Street, Frisco, TX

Oxidor received 2 solid sample(s). The analysis performed were as follows:

Sample	Sample ID	Matrix	Collected	Analysis
12110104-001	SP-07	Solid	11/5/2012 09:00	Dry Weight, pH, TCLP Antimony, TCLP Arsenic, TCLP Barium, TCLP Berylium, TCLP Cadmium, TCLP Chromium, TCLP Lead, TCLP Mercury, TCLP Metals Extraction, TCLP Nickel, TCLP Selenium, TCLP Silver, Total Petroleum Hydrocarbons
12110104-002	SP-08	Solid	11/5/2012 09:00	Dry Weight, pH, TCLP Antimony, TCLP Arsenic, TCLP Barium, TCLP Berylium, TCLP Cadmium, TCLP Chromium, TCLP Lead, TCLP Mercury, TCLP Metals Extraction, TCLP Nickel, TCLP Selenium, TCLP Silver, Total Petroleum Hydrocarbons

Respectfully submitted,

Charles Brungardt
President

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

W&M Environmental Group, Inc.
Frank Clark

Analytical Report

Project Name: **Retaining Wall**

Customer Sample ID: **SP-07**
Oxidor Sample ID: 12110104-001 Matrix: **Solid**
Sample Received: 11/5/2012 Sample Collected: **11/5/2012 09:00**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
% Solids	0.1	0.1	**84.8**	%	11/05/12 15:25	Dry Weight	J.H.	
pH	0.1	0.1	**9.3**	pH Units	11/05/12 18:00	9045	M.B.	S-12
Metals								
Digested by method 3005A on 11/06/12 at 09:45								
TCLP Antimony	0.05	0.050	**0.122**	mg/L	11/06/12 14:34	6020	K.O.	
TCLP Arsenic	0.05	0.050	ND	mg/L	11/06/12 14:34	6020	K.O.	
TCLP Barium	0.05	0.050	**0.454**	mg/L	11/06/12 14:34	6020	K.O.	
TCLP Berylium	0.05	0.050	ND	mg/L	11/06/12 14:34	6020	K.O.	
TCLP Cadmium	0.01	0.010	**0.496**	mg/L	11/06/12 14:34	6020	K.O.	
TCLP Chromium	0.05	0.050	ND	mg/L	11/06/12 14:34	6020	K.O.	
TCLP Lead	0.05	0.050	**1.21**	mg/L	11/06/12 14:34	6020	K.O.	
TCLP Nickel	0.05	0.050	ND	mg/L	11/06/12 14:34	6020	K.O.	
TCLP Selenium	0.05	0.050	ND	mg/L	11/06/12 14:34	6020	K.O.	*
TCLP Silver	0.01	0.010	ND	mg/L	11/06/12 14:34	6020	K.O.	
Digested by method 7470A on 11/06/12 at 09:35								
TCLP Mercury	0.001	0.001	ND	mg/L	11/06/12 17:02	7470A	T.C.	
Total Petroleum Hydrocarbons								
Prepared by method TX 1005 on 11/05/12 at 10:00								
TPH (C 6 to C12)	25	29.5	ND	mg/Kg	11/05/12 14:57	TX 1005	K.J.	
TPH (C12 to C28)	25	29.5	ND	mg/Kg	11/05/12 14:57	TX 1005	K.J.	
TPH (C28 to C35)	25	29.5	ND	mg/Kg	11/05/12 14:57	TX 1005	K.J.	
TPH (C6 to C35)	25	29.5	ND	mg/Kg	11/05/12 14:57	TX 1005	K.J.	

Surrogate	Result	Units	Spike Conc	Recovery	Rec Limits
1-chlorooctane	88.7	mg/Kg	100 mg/Kg	89%	70-130%
o-Terphenyl	87.4	mg/Kg	100 mg/Kg	87%	70-130%

Sample Prep

TCLP Metals Extraction

TCLP Extraction					11/05/12 15:45	1311	H.B.	

OXIDOR Laboratories, LLC

T104704227-12-7

Order ID: 12110104
Date: 11/7/2012

W&M Environmental Group, Inc.
Frank Clark

Analytical Report

Project Name: **Retaining Wall**

Customer Sample ID: **SP-08**
Oxidor Sample ID: 12110104-002 Matrix: **Solid**
Sample Received: 11/5/2012 Sample Collected: **11/5/2012 09:00**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
% Solids	0.1	0.1	**85.0**	%	11/05/12 15:25	Dry Weight	J.H.	
pH	0.1	0.1	**9.3**	pH Units	11/05/12 18:00	9045	M.B.	S-12
Metals								
Digested by method 3005A on 11/06/12 at 09:45								
TCLP Antimony	0.05	0.050	**0.126**	mg/L	11/06/12 14:40	6020	K.O.	
TCLP Arsenic	0.05	0.050	ND	mg/L	11/06/12 14:40	6020	K.O.	
TCLP Barium	0.05	0.050	**0.434**	mg/L	11/06/12 14:40	6020	K.O.	
TCLP Berylium	0.05	0.050	ND	mg/L	11/06/12 14:40	6020	K.O.	
TCLP Cadmium	0.01	0.010	**0.468**	mg/L	11/06/12 14:40	6020	K.O.	
TCLP Chromium	0.05	0.050	ND	mg/L	11/06/12 14:40	6020	K.O.	
TCLP Lead	0.05	0.050	**0.635**	mg/L	11/06/12 14:40	6020	K.O.	
TCLP Nickel	0.05	0.050	ND	mg/L	11/06/12 14:40	6020	K.O.	
TCLP Selenium	0.05	0.050	ND	mg/L	11/06/12 14:40	6020	K.O.	*
TCLP Silver	0.01	0.010	ND	mg/L	11/06/12 14:40	6020	K.O.	
Digested by method 7470A on 11/06/12 at 09:35								
TCLP Mercury	0.001	0.001	ND	mg/L	11/06/12 17:04	7470A	T.C.	
Total Petroleum Hydrocarbons								
Prepared by method TX 1005 on 11/05/12 at 10:00								
TPH (C 6 to C12)	25	29.4	ND	mg/Kg	11/05/12 15:52	TX 1005	K.J.	
TPH (C12 to C28)	25	29.4	ND	mg/Kg	11/05/12 15:52	TX 1005	K.J.	
TPH (C28 to C35)	25	29.4	ND	mg/Kg	11/05/12 15:52	TX 1005	K.J.	
TPH (C6 to C35)	25	29.4	ND	mg/Kg	11/05/12 15:52	TX 1005	K.J.	

Surrogate	Result	Units	Spike Conc	Recovery	Rec Limits
1-chlorooctane	88.3	mg/Kg	100 mg/Kg	88%	70-130%
o-Terphenyl	87.5	mg/Kg	100 mg/Kg	88%	70-130%

Sample Prep

TCLP Metals Extraction

TCLP Extraction					11/05/12 15:45	1311	H.B.	

W&M Environmental Group, Inc.
Frank Clark

Sample Cross Reference

Project Name: **Retaining Wall**

Customer ID:	Lab ID:	Test	Method	QCBatchID:
SP-07	12110104-001	Total Petroleum Hydrocarbons	TX 1005	1005_05729AS
		Dry Weight	Dry Weight	DW___09726_S
		TCLP Mercury	7470A	MERC_13023_L
		TCLP Antimony	6020	META_04546_L
		TCLP Arsenic	6020	META_04546_L
		TCLP Barium	6020	META_04546_L
		TCLP Berylium	6020	META_04546_L
		TCLP Cadmium	6020	META_04546_L
		TCLP Chromium	6020	META_04546_L
		TCLP Lead	6020	META_04546_L
		TCLP Nickel	6020	META_04546_L
		TCLP Selenium	6020	META_04546_L
		TCLP Silver	6020	META_04546_L
		pH	9045	PH___08615_S
SP-08	12110104-002	Total Petroleum Hydrocarbons	TX 1005	1005_05729AS
		Dry Weight	Dry Weight	DW___09726_S
		TCLP Mercury	7470A	MERC_13023_L
		TCLP Antimony	6020	META_04546_L
		TCLP Arsenic	6020	META_04546_L
		TCLP Barium	6020	META_04546_L
		TCLP Berylium	6020	META_04546_L
		TCLP Cadmium	6020	META_04546_L
		TCLP Chromium	6020	META_04546_L
		TCLP Lead	6020	META_04546_L
		TCLP Nickel	6020	META_04546_L
		TCLP Selenium	6020	META_04546_L
		TCLP Silver	6020	META_04546_L
		pH	9045	PH___08615_S

W&M Environmental Group, Inc.
Frank Clark

QC Summary

Project Name: **Retaining Wall**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID	**DW___09726_S**								
Replicate	% Solids	84.3 %	84.8 %				0.6%	0-20%	
QCBatchID	**PH___08615_S**								
LCS	pH	7.0 pH Units		7 pH Units	100%	99-102%			
LCSD	pH	7.0 pH Units		7 pH Units	100%	99-102%	0.0%	0-25%	
Replicate	pH	9.3 pH Units	9.3 pH Units				0.0%	0-10%	
QCBatchID	**MERC_13023_L**								
Blank	TCLP Mercury	ND mg/L							
LCS	TCLP Mercury	0.005 mg/L		0.005 mg/L	103%	85-115%			
LCSD	TCLP Mercury	0.005 mg/L		0.005 mg/L	106%	85-115%	6.2%	0-25%	
MS	TCLP Mercury	0.022 mg/L	ND	0.02 mg/L	110%	80-120%			
MSD	TCLP Mercury	0.022 mg/L	ND	0.02 mg/L	110%	80-120%	0.1%	0-25%	
QCBatchID	**META_04546_L**								
Blank	TCLP Antimony	ND mg/L							
	TCLP Arsenic	ND mg/L							
	TCLP Barium	ND mg/L							
	TCLP Berylium	ND mg/L							
	TCLP Cadmium	ND mg/L							
	TCLP Chromium	ND mg/L							
	TCLP Lead	ND mg/L							
	TCLP Nickel	ND mg/L							
	TCLP Selenium	ND mg/L							
	TCLP Silver	ND mg/L							
LCS	TCLP Antimony	0.103 mg/L		0.1 mg/L	103%	85-115%			
	TCLP Arsenic	0.104 mg/L		0.1 mg/L	104%	85-115%			
	TCLP Barium	0.100 mg/L		0.1 mg/L	100%	85-115%			
	TCLP Berylium	0.101 mg/L		0.1 mg/L	101%	85-115%			
	TCLP Cadmium	0.105 mg/L		0.1 mg/L	105%	85-115%			
	TCLP Chromium	0.104 mg/L		0.1 mg/L	104%	85-115%			
	TCLP Lead	0.103 mg/L		0.1 mg/L	103%	85-115%			
	TCLP Nickel	0.103 mg/L		0.1 mg/L	103%	85-115%			
	TCLP Selenium	0.104 mg/L		0.1 mg/L	104%	85-115%			
	TCLP Silver	0.104 mg/L		0.1 mg/L	104%	85-115%			
LCSD	TCLP Antimony	0.099 mg/L		0.1 mg/L	99%	85-115%	4.1%	0-20%	
	TCLP Arsenic	0.102 mg/L		0.1 mg/L	102%	85-115%	2.1%	0-20%	
	TCLP Barium	0.096 mg/L		0.1 mg/L	96%	85-115%	3.7%	0-20%	
	TCLP Berylium	0.098 mg/L		0.1 mg/L	98%	85-115%	3.4%	0-20%	
	TCLP Cadmium	0.101 mg/L		0.1 mg/L	101%	85-115%	4.2%	0-20%	
	TCLP Chromium	0.100 mg/L		0.1 mg/L	100%	85-115%	4.0%	0-20%	
	TCLP Lead	0.099 mg/L		0.1 mg/L	99%	85-115%	4.3%	0-20%	
	TCLP Nickel	0.101 mg/L		0.1 mg/L	101%	85-115%	1.8%	0-20%	
	TCLP Selenium	0.101 mg/L		0.1 mg/L	101%	85-115%	2.5%	0-20%	
	TCLP Silver	0.100 mg/L		0.1 mg/L	100%	85-115%	3.5%	0-20%	

W&M Environmental Group, Inc.
Frank Clark

QC Summary

Project Name: **Retaining Wall**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID META_04546_L									
MS	TCLP Antimony	0.530 mg/L	ND	0.5 mg/L	106%	80-120%			
	TCLP Arsenic	0.527 mg/L	ND	0.5 mg/L	106%	80-120%			
	TCLP Barium	0.848 mg/L	0.368 mg/L	0.5 mg/L	96%	80-120%			
	TCLP Berylium	0.487 mg/L	ND	0.5 mg/L	98%	80-120%			
	TCLP Cadmium	0.506 mg/L	ND	0.5 mg/L	101%	80-120%			
	TCLP Chromium	0.496 mg/L	ND	0.5 mg/L	99%	80-120%			
	TCLP Lead	0.480 mg/L	ND	0.5 mg/L	96%	80-120%			
	TCLP Nickel	0.540 mg/L	ND	0.5 mg/L	108%	80-120%			
	TCLP Selenium	0.347 mg/L	0.078 mg/L	0.5 mg/L	54%	80-120%			Q-7
	TCLP Silver	0.495 mg/L	ND	0.5 mg/L	99%	80-120%			
MSD	TCLP Antimony	0.521 mg/L	ND	0.5 mg/L	104%	80-120%	1.6%	0-20%	
	TCLP Arsenic	0.526 mg/L	ND	0.5 mg/L	105%	80-120%	0.2%	0-20%	
	TCLP Barium	0.845 mg/L	0.368 mg/L	0.5 mg/L	95%	80-120%	0.4%	0-20%	
	TCLP Berylium	0.480 mg/L	ND	0.5 mg/L	96%	80-120%	1.4%	0-20%	
	TCLP Cadmium	0.500 mg/L	ND	0.5 mg/L	100%	80-120%	1.1%	0-20%	
	TCLP Chromium	0.480 mg/L	ND	0.5 mg/L	96%	80-120%	3.4%	0-20%	
	TCLP Lead	0.480 mg/L	ND	0.5 mg/L	96%	80-120%	0.0%	0-20%	
	TCLP Nickel	0.538 mg/L	ND	0.5 mg/L	108%	80-120%	0.3%	0-20%	
	TCLP Selenium	0.316 mg/L	0.078 mg/L	0.5 mg/L	48%	80-120%	9.4%	0-20%	Q-7
	TCLP Silver	0.492 mg/L	ND	0.5 mg/L	98%	80-120%	0.7%	0-20%	
QCBatchID 1005_05729AS									
Blank	TPH (C 6 to C12)	ND mg/Kg							
	TPH (C12 to C28)	ND mg/Kg							
	TPH (C28 to C35)	ND mg/Kg							
	TPH (C6 to C35)	ND mg/Kg							
Surrogate		**Result**		**Spike Conc**	**Recovery**	**Rec Limits**			
	1-chlorooctane	90.6 mg/Kg		100 mg/Kg	91%	70-130%			
	o-Terphenyl	89.1 mg/Kg		100 mg/Kg	89%	70-130%			
LCS	TPH (C6 to C35)	89.9 mg/Kg		100 mg/Kg	90%	75-125%			
Surrogate		**Result**		**Spike Conc**	**Recovery**	**Rec Limits**			
	1-chlorooctane	89.2 mg/Kg		100 mg/Kg	89%	70-130%			
	o-Terphenyl	88.3 mg/Kg		100 mg/Kg	88%	70-130%			
LCSD	TPH (C6 to C35)	92.9 mg/Kg		100 mg/Kg	93%	75-125%	3.3%	0-20%	
Surrogate		**Result**		**Spike Conc**	**Recovery**	**Rec Limits**			
	1-chlorooctane	89.6 mg/Kg		100 mg/Kg	90%	70-130%			
	o-Terphenyl	88.2 mg/Kg		100 mg/Kg	88%	70-130%			
MS	TPH (C6 to C35)	98.6 mg/Kg	ND	100 mg/Kg	99%	75-125%			
Surrogate		**Result**		**Spike Conc**	**Recovery**	**Rec Limits**			
	1-chlorooctane	92.3 mg/Kg		100 mg/Kg	92%	70-130%			
	o-Terphenyl	90.8 mg/Kg		100 mg/Kg	91%	70-130%			
MSD	TPH (C6 to C35)	99.0 mg/Kg	ND	100 mg/Kg	99%	75-125%	0.4%	0-20%	

OXIDOR Laboratories, LLC

T104704227-12-7

Order ID: 12110104
Date: 11/7/2012

W&M Environmental Group, Inc.
Frank Clark

QC Summary

Project Name: **Retaining Wall**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID	**1005_05729AS**								
Surrogate		**Result**		**Spike Conc**	**Recovery**	**Rec Limits**			
	1-chlorooctane	93.4 mg/Kg		100 mg/Kg	93%	70-130%			
	o-Terphenyl	93.7 mg/Kg		100 mg/Kg	94%	70-130%			

W&M Environmental Group, Inc.
Frank Clark

Case Narrative

Project Name: **Retaining Wall**

Q-7	Recovery and/or RPD outside desirable limits.
S-12	Sample should be analyzed as soon as possible and preferably at the time of collection.
ppm	Parts per million = mg/Kg or mg/L
ppb	Parts per billion = ug/Kg or ug/L
MQL	Method quantitation limit
SDL	Sample detection limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilutions)
SQL	Sample quantitation limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilution
ND	Analyte not detected at or above SQL
LCS/LCSD	Laboratory control spike / Laboratory control spike duplicate
MS/MSD	Matrix spike / Matrix spike duplicate
RPD	Relative percent difference
Sub	Analysis performed by subcontract laboratory
*	Refer to QC section and / or Case Narrative

Solid sample results reported on a dry weight basis for all applicable analysis, unless otherwise noted. Dry weight calculations based upon % solids obtained as outlined in EPA method 5035 section 7.5

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Oxidor Laboratories, LLC certifies to the best of its knowledge that all results contained in this report are consistent with the National Environmental Laboratory Accreditation Program, except where otherwise noted.

OXIDOR Laboratories, LLC

T104704227-12-7

Order ID: 12110104
Date: 11/7/2012

W&M Environmental Group, Inc.
Frank Clark

Sample Preservation Verification

Project Name: **Retaining Wall**

Receipt temp: **3.8 °C on Ice**
Receipt method: **Client**
Custody seal intact: **Not Present**
All samples / labels received intact: **Yes**

Customer Sample ID: **SP-07**
Oxidor Sample ID: **12110104-001**
Collected: **11/05/12 09:00**
Collected By: **Nick Foreman**
Collector Affiliation: **W&M Environmental Group, Inc.**
Matrix: **Solid**

Bottle Type	Count	Collection Method	Parts / Interval	Indicated Preservation	pH
4 oz Glass Jar	3	Composite		Temp	-

Customer Sample ID: **SP-08**
Oxidor Sample ID: **12110104-002**
Collected: **11/05/12 09:00**
Collected By: **Nick Foreman**
Collector Affiliation: **W&M Environmental Group, Inc.**
Matrix: **Solid**

Bottle Type	Count	Collection Method	Parts / Interval	Indicated Preservation	pH
4 oz Glass Jar	3	Composite		Temp	-

Sample conditions at time of receipt at laboratory verified in part or in whole by:

A.B.

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

Order ID: 12110104
Date: 11/7/2012

Chain of Custody

PROJECT DESCRIPTION: **Retaining Wall**

OXIDOR Laboratories, LLC
1825 East Plano Parkway, #160
Plano, TX 75074-8570
P: 972.424.6422 F: 972.424.6508
customerservice@oxidor.com

ACCREDITED IN ACCORDANCE WITH nelac

Chain of Custody Record

Page ____ of ____

Send Report To

Company Name: W&M Environmental Group, Inc
Address: 906 E 18th Street
City: Plano | State: TX | Zip: 75074
Contact Name: Frank Clark
Contact Email: Fclark@wmenv.com
Phone: 972-509-9611 | Fax: 972-516-4145

Send Invoice To (Only if Different from above)

Company Name: Exide Technologies
Address: 7471 South Fifth Street
City: Frisco | State: TX | Zip: 75034
Contact Name: Vanessa Coleman
Phone: 972-335-2121 | Fax: 972-377-2707

Project / Report Information

Circle Requested Turn Around Time (Less than 2 Days must be verified with lab)
7-10 Days | 5-7 Days | RUSH | 3-4 Days | 2 Days | (ASAP)

Project Name: Retaining Wall
Project Location: 7471 South 5th Street, Frisco TX
Project #: 112052.003 | PO #:
Sampler Name: Nick Foreman | Sampler Company: W&M
Sampler Signature:

Matrix Codes
L - Liquid S - Solid
W - Wipes A - Air

Presevation Codes
1 - None 4 - HCl
2 - HNO_3 5 - NaOH
3 - H_2SO_4 6 - Ice
7 - Other ____

Container Codes
P - Plastic G - Glass
O - Other ____

Special Instructions *
Exide will pay Directly ★
200% rush
LRC for TRRP report

*Please confirm conditional requests prior to additional analysis

OXIDOR Order ID		Customer Sample ID	Sample Info Date	Sample Info Time	Matrix	# of Containers	Container Type	Pres Code	(C)omp / (G)rab	Parts / Interval	Hold	Requested Analysis: TCLP (RCRA-8)	TCLP (SVOC), Pb	TPH	pH	Total Solids / Dry Weight	Laboratory Review Checklist	Chromatograms / Data Pages
12110104	1	SP-07	11/5/12	0900	S	3	6	6	C			X	X	X	X	X	X	
002	2	SP-08	11/5/12	0900	S	3	6	6	C			X	X	X	X	X	X	
	3																	
	4																	
	5																	
	6																	
	7																	
	8																	
	9																	
	10																	
	11																	
	12																	
	13																	
	14																	
	15																	

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
X	W&M	11/5/12	1157	X			
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
X				X			
Relinquished by	Affiliation	Date	Time	Received for OXIDOR by		Date	Time
X				X		11/5/12	1157

Submittal of samples signifies acceptance of OXIDOR's Standard Terms and Conditions.
OXIDOR cannot accept verbal changes to this document. Please fax or email written modifications.

5/22/2008 - Rev. 4.0

Temp at Reciept 3.9 °C
OX-48

OXIDOR Laboratories, LLC

OXIDOR Laboratory Review Checklist Cover Page

Project Name: 112.052.003 Retaining Wall
7471 South Fifth Street, Frisco, TX
OXIDOR Job Number: 12110274 W&M Environmental Group, Inc.

This data package consists of:

[X] This signature page, the laboratory review checklist, and the following reportable data:

- [X] **R1** Field chain-of-custody documentation;
- [X] **R2** Sample identification cross-reference;
- [X] **R3** Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with TNI Standard Module 2, Section 5.10
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs);
- [X] **R4** Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits;
- [X] **R5** Test reports/summary forms for blank samples;
- [X] **R6** Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits;
- [X] **R7** Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits;
- [X] **R8** Laboratory analytical duplicate (if applicable) recovery and precision:
  a) the amount of analyte measured in the duplicate,
  b) the calculated RPD, and
  c) the laboratory's QC limits for analytical duplicates;
- [X] **R9** List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- [X] **R10** Other problems or anomalies.

[X] The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Charles Brungardt		President	November 12, 2012
Name	Signature	Official Title	Date

OXIDOR Laboratories, LLC

Laboratory Review Checklist: Reportable Data

Laboratory Name: OXIDOR Laboratories, LLC	LRC Date: November 12, 2012
Project Name: 112.052.003 Retaining Wall	Laboratory Job Number: 12110274 W&M Environmental Group, Inc.
Reviewer Name: James A. Narens, III	QC Batch Number(s): See Cross-reference List

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample Quality Control (QC) and identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MDL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample quantitation limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the required frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS)**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs)**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs included in the laboratory data package?	X				
		Does the detectability check sample (DCS) data document the laboratory's capability to detect the COCs at the MQL used to calculate the SQLs?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for all analytes, matrices, and methods associated with this LRC?	X				
		Was applicable and available technology used to lower the SQL to minimize any matrix interference effects on the sample results?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "No" or "NR" is checked).

OXIDOR Laboratories, LLC

Laboratory Review Checklist: Supporting Data

Laboratory Name: OXIDOR Laboratories, LLC	LRC Date: November 12, 2012
Project Name: 112.052.003 Retaining Wall	Laboratory Job Number: 12110274 W&M Environmental Group, Inc.
Reviewer Name: James A. Narens, III	QC Batch Number(s): See Cross-reference List

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial / continuing calibration verification (ICV / CCV) and continuing calibration blanks (CCB)**					
		Was the CCV analyzed at the method required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal Standards (IS)**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (TNI Standard Module 2, Section 5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results - Metals**					
		Were percent recoveries within the method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions - Metals**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analysis NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Capability (DOC)**					
		Was DOC conducted consistent with TNI Standard Module 4, Section 1.6?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (TNI Standard Module 4, Section 1.5)**					
		Are all methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs)**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "No" or "NR" is checked).

OXIDOR Laboratories, LLC

Laboratory Review Checklist: Exception Reports

Laboratory Name: OXIDOR Laboratories, LLC	LRC Date: November 12, 2012
Project Name: 112.052.003 Retaining Wall	Laboratory Job Number: 12110274 W&M Environmental Group, Inc.
Reviewer Name: James A. Narens, III	QC Batch Number(s): See Cross-reference List

ER#[1]	DESCRIPTION

1. ER# = Exception Report identification number (an Exception Report should be completed for an item if "No" or "NR" is checked on the LRC)

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

Order ID: 12110274
Date: 11/12/2012

Monday, November 12, 2012

W&M Environmental Group, Inc.
Frank Clark
906 E. 18th, Suite 100
Plano, TX 75074
Tel: (972) 516-0300 Fax: (972) 516-4145

Re: Project Name: Retaining Wall
Project Number: 112.052.003
Project Location: 7471 South Fifth Street, Frisco, TX

Oxidor received 1 solid sample(s). The analysis performed were as follows:

Sample	Sample ID	Matrix	Collected	Analysis
12110274-001	SP-07	Solid	11/5/2012 09:00	TCLP Cadmium, TCLP Metals Extraction

Respectfully submitted,

Charles Brungardt
President

OXIDOR Laboratories, LLC

T104704227-12-7

W&M Environmental Group, Inc.
Frank Clark

Analytical Report

Project Name: **Retaining Wall**

Customer Sample ID: **SP-07**
Oxidor Sample ID: 12110274-001 Matrix: **Solid**
Sample Received: 11/8/2012 Sample Collected: **11/5/2012 09:00**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Sample Prep								
TCLP Metals Extraction								
TCLP Extraction					11/08/12 16:40	1311	H.B.	
Metals								
Digested by method 3005A on 11/09/12 at 09:40								
TCLP Cadmium	0.01	0.010	**0.335**	mg/L	11/09/12 16:17	6020	K.O.	

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

W&M Environmental Group, Inc.
Frank Clark

Sample Cross Reference

Project Name: **Retaining Wall**

Customer ID:	Lab ID:	Test	Method	QCBatchID:
SP-07	12110274-001	TCLP Cadmium	6020	META_06046_L

W&M Environmental Group, Inc.
Frank Clark

QC Summary

Project Name: **Retaining Wall**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID	**META_06046_L**								
Blank	TCLP Cadmium	ND mg/L							
LCS	TCLP Cadmium	0.103 mg/L		0.1 mg/L	103%	85-115%			
LCSD	TCLP Cadmium	0.102 mg/L		0.1 mg/L	102%	85-115%	1.1%	0-20%	
MS	TCLP Cadmium	0.850 mg/L	0.335 mg/L	0.5 mg/L	103%	80-120%			
MSD	TCLP Cadmium	0.833 mg/L	0.335 mg/L	0.5 mg/L	100%	80-120%	2.0%	0-20%	

W&M Environmental Group, Inc.
Frank Clark

Case Narrative

Project Name: **Retaining Wall**

ppm	Parts per million = mg/Kg or mg/L
ppb	Parts per billion = ug/Kg or ug/L
MQL	Method quantitation limit
SDL	Sample detection limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilutions)
SQL	Sample quantitation limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilution
ND	Analyte not detected at or above SQL
LCS/LCSD	Laboratory control spike / Laboratory control spike duplicate
MS/MSD	Matrix spike / Matrix spike duplicate
RPD	Relative percent difference
Sub	Analysis performed by subcontract laboratory
*	Refer to QC section and / or Case Narrative

Solid sample results reported on a dry weight basis for all applicable analysis, unless otherwise noted. Dry weight calculations based upon % solids obtained as outlined in EPA method 5035 section 7.5

This report is intended only for the use of W&M Environmental Group, Inc. and may contain information that is privileged and confidential. It may not be reproduced in full (or in part) without the expressed written permission of W&M Environmental Group, Inc. and Oxidor Laboratories, LLC.

Oxidor Laboratories, LLC certifies to the best of its knowledge that all results contained in this report are consistent with the National Environmental Laboratory Accreditation Program, except where otherwise noted.

OXIDOR Laboratories, LLC

T104704227-12-7

Order ID: 12110274
Date: 11/12/2012

W&M Environmental Group, Inc.
Frank Clark

Sample Preservation Verification

Project Name: **Retaining Wall**

Receipt temp: **3.8 °C on Ice**
Receipt method: **Additional Analysis**
Custody seal intact: **Not Present**
All samples / labels received intact: **Yes**

Customer Sample ID: **SP-07**
Oxidor Sample ID: **12110274-001**
Collected: **11/05/12 09:00**
Collected By: **Nick Foreman**
Collector Affiliation: **W&M Environmental Group, Inc.**
Matrix: **Solid**

Bottle Type	Count	Collection Method	Parts / Interval	Indicated Preservation	pH
4 oz Glass Jar	3	Composite		Temp	-

Sample conditions at time of receipt at laboratory verified in part or in whole by:

A.B.

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

Order ID: 12110274
Date: 11/12/2012
Page 7 of 8

Chain of Custody

PROJECT DESCRIPTION: **Retaining Wall**

OXIDOR Laboratories, LLC
1825 East Plano Parkway, #160
Plano, TX 75074-8570
P: 972.424.6422 F: 972.424.6508
customerservice@oxidor.com

ACCREDITED IN ACCORDANCE WITH nelac

Chain of Custody Record

Page ____ of ____

Send Report To

Company Name: W&M Environmental Group, Inc
Address: 906 E 18th Street
City: Plano State: TX Zip: 75074
Contact Name: Frank Clark
Contact Email: Fclark@wtm.com
Phone: 972-509-9611 Fax: 972-516-4145

Send Invoice To (Only if Different from above)

Company Name: Exide Technologies
Address: 7471 South Fifth Street
City: Frisco State: TX Zip: 75034
Contact Name: Vanessa Coleman
Phone: 972-335-2121 Fax: 972-377-2707

Project / Report Information

Circle Requested Turn Around Time (Less than 2 Days must be verified with lab)
7-10 Days 5-7 Days RUSH 3-4 Days 2 Days ASAP

Project Name: Retaining Wall
Project Location: 7471 South 5th Street, Frisco TX
Project #: 112.052.003 PO #:
Sampler Name: Nick Foreman Sampler Company: W&M
Sampler Signature: [signature]

Matrix Codes: L - Liquid S - Solid W - Wipes A - Air
Presevation Codes: 1 - None 4 - HCl 2 - HNO_3 5 - NaOH 3 - H_2SO_4 6 - Ice 7 - Other ____
Container Codes: P - Plastic G - Glass O - Other ____

Special Instructions: Exide will pay Directly ☆ 200% rush LRC for TRRP report

*Please confirm conditional requests prior to additional analysis

Requested Analysis

OXIDOR Order ID 12110274 ~~12110404~~		Customer Sample ID	Sample Info Date	Sample Info Time	Matrix	# of Containers	Container Type	Pres Code	(C)omp / (G)rab	Parts / Interval	Hold	~~TCLP (RCRA-S)~~	~~TCLP (SLN, Pb)~~	~~TPH~~	~~PH~~		TCLPCd			Total Solids / Dry Weight	Laboratory Review Checklist	Chromatograms / Data Pages
001	1	SP-07	11/5/12	0900	S	3	6	6	C			X	X	X	X		X			X	X	
~~002~~	2	~~SP-08~~	~~11/5/12~~	~~0900~~	S	3	6	6	C			X	X	X	X					X	X	
	3																					
	4																					
	5																					
	6																					
	7																					
	8																					
	9																					
	10																					
	11																					
	12																					
	13																					
	14																					
	15																					

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
X [signature]	W&M	11/5/12	1157	X			
X				X			
X				Received for OXIDOR by: [signature]		11/5/12	1157

Submittal of samples signifies acceptance of OXIDOR's Standard Terms and Conditions.
OXIDOR cannot accept verbal changes to this document. Please fax or email written modifications.

5/22/2008 - Rev. 4.0

Temp at Reciept 3.9 °C
OX-48

OXIDOR Laboratories, LLC

ACCREDITED IN ACCORDANCE WITH nelac
T104704227-12-7

Chain of Custody

PROJECT DESCRIPTION: **Retaining Wall**

Ashley Bishop 12110274

From: Nick Foreman [nforeman@wh-m.com]
Sent: Thursday, November 08, 2012 2:45 PM
To: Homer Youngblood; Charles Brungardt; CustomerService
Cc: Frank Clark; COLEMAN, Vanessa (Frisco, TX) (Vanessa.Coleman@na.exide.com)
Subject: Exide sample SP-07 (12110104-001)

Hi Charles and Homer,

Can you please re-run the SP-07 sample collected on 11/5/12 for TCLP Cadmium. We are having issues with the 0.496 being so close to the 0.5 cut-off.

We will need this ASAP and Exide should be billed directly.

Thanks.

Nick Foreman
Environmental Scientist II

W&M Environmental Group, Inc.
906 East 18th Street, Plano, Texas 75074
(o) 972.509.9609 (f) 972.516.4145
(c) 817.680.1417

Please don't print this e-mail unless you really need to.

WASTE DISPOSAL MANIFESTS – STOCKPILED SOILS FROM TRENCH EXCAVATION

ATTACHMENT D

643915

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: TXD006451090
2. Page 1 of 1
3. Emergency Response Phone: (800)424-9300
4. Manifest Tracking Number: 009996407 JJK

5. Generator's Name and Mailing Address
EXIDE TECHNOLOGIES
7471 S 5TH ST
FRISCO TX 75034-0005
Generator's Phone: (972)335-2121

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: SET Environmental Inc
U.S. EPA ID Number: ILD981957236 ~~LA0000147272~~ GH

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT
7170 JOHN BRANNON RD.
SULPHUR LA 70665
Facility's Phone: (337)583-2169
U.S. EPA ID Number: LAD000777201

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID NOS, 9, 111, (D008) ~~9561036A~~ LB5576	001	CM	25 ~~020~~	GH ~~20~~ Y	D008 D006
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
ERG# 171 Box 114
IN CASE OF EMERGENCY CONTACT CHEMTREC 800-424-9300. (WM CONTRACT #:CCN4557)
DISCREPANCIES CONTACT (972) 786-5446

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: CARLILE, WENDELL D.
Signature: Wendell D. Carlile
Month 11 Day 14 Year 12

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Gary Holcomb
Signature: Gary Holcomb
Month 11 Day 14 Year 12
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
11-15-12
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 (W) 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Leigh Anne Cech
Signature:
Month 11 Day 15 Year 12

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Date 11/15/
Time 11:40:

WASTE MANAGEMENT

Chemical Waste Management
Data Error/Discrepancy Report

Page . . :
Program name

CHEMICAL WASTE MANAGEMENT, INC.
7179 John Brannon Road
Sulphur, LA 70665
(337) 583-2169

Report Initiation Date: 11/15/12
Five Day Resolution Period Begin Date: 11/16/12

Initiated By: [illegible]

Receiving Ticket: 000643915 Line # 1
Profile Number : 956103LA
Generator Name : EXIDE TECHNOLOGIES
City : FRISCO State: TX

Manifest : 009996407JJK
Federal EPA ID#: TXD006451090
Zip Code : 75034-0005

TYPE OF DISCREPANCY

Manifest* :	Weight* :	Analytical* :
Drum Count* :	LDR Form* :	Physical St* : X

Problem (be specific): Physical State SD

BULK WASTE MANIFESTED AS PROFILE 956103LA, SOIL
FROM RETAINING WALL PROJECT FOR TREATMENT AT
STABILIZATION. THE LOAD RECEIVED CONTAINS LARGE
PIECES OF CUT UP THICK PLASTIC. WE CANNOT
TREAT DEBRIS. WE CAN MACRO DEBRIS.
* IS THIS THE RIGHT PROFILE FOR THIS WASTE?

Efforts to resolve discrepancy: PER VANESSA COLEMAN/RICK CONNOR THE CORRECT
PROFILE NUMBER IS LB5576. CHANGE THE PAPERWORK
TO REFLECT THE CORRECTION.

Resolved: X
Time In : 0:08:36

Unresolved:
Time Out : 0:11:33

Pandora Nunez
Authorized Signature

Date Resolved: 11/15/12

** END OF REPORT **

Date 11/16/
Time 10:56:

WASTE MANAGEMENT

Chemical Waste Management
Data Error/Discrepancy Report

Page . . :
Program name

CHEMICAL WASTE MANAGEMENT, INC.
7170 John Brannon Road
Sulphur, LA 70665
(337) 583-2169

Report Initiation Date: 11/15/12
Five Day Resolution Period Begin Date: 11/16/12

Initiated By : WM0348DR1

Receiving Ticket: 000643915 Line # 1
Profile Number : LB5576
Generator Name : EXIDE TECHNOLOGIES
City : FRISCO State: TX

Manifest : 009996407JJK

Federal EPA ID#: TXD006451090
Zip Code : 75034-0005

TYPE OF DISCREPANCY

Manifest* :	Weight* : X	Analytical* :
Drum Count* :	LDR Form* :	Physical St* :

Problem (be specific): Total Quantity

PTHERE IS A GREATER THAN 10% VOLUME DISCREPANCY.
MANIFESTED FOR 20 YARDS; CWM'S VOLUME IS
25 YARDS.

Efforts to resolve discrepancy: PER VANESSA COLEMAN OK TO USE CWM'S VOLUME OF
25 YARDS AND CHANGE THE PAPERWORK TO REFLECT THE
CORRECTION.

Resolved: Y
Time In : 0:16:40

Unresolved:
Time Out : 0:08:40

Authorized Signature

Date Resolved: 11/16/12

** END OF REPORT **

L043508 SR# 992200 CWMI

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	TXD006451090	1	(800)424-9300	009996497 JJK

GENERATOR

5. Generator's Name and Mailing Address
EXIDE TECHNOLOGIES
7471 S 5TH ST
FRISCO TX 75034-0005
Generator's Phone: (972)335-2121

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Chemical waste management Inc — U.S. EPA ID Number: LAD000147272

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT
7170 JOHN BRANNON RD.
SULPHUR LA 70665
Facility's Phone: (337)583-2169
U.S. EPA ID Number: LAD000777201

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ,NA3077,HAZARDOUS WASTE,SOLID,NOS,9,III, (D008) 956103LA	1	DT	46180	P	D008
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
ERG# 01/171.
IN CASE OF EMERGENCY CONTACT CHEMTREC 800-424-9300. (WM CONTRACT #:CCN4557)
DISCREPANCIES CONTACT (972) 786 - 5446

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: CARLILE, WENDELL S. — Signature: Wendell S. Carlile — Month 11 Day 06 Year 12

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Randy Smith — Signature: Randy Smith — Month 11 Day 6 Year 12

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month 11 Day 7 Year 12

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

44461 SR# 983510 CWMI

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: TXD006451090
2. Page 1 of: 1
3. Emergency Response Phone: (800)424-9300
4. Manifest Tracking Number: 009996826 JJK

5. Generator's Name and Mailing Address
EXIDE TECHNOLOGIES
7471 S 5TH ST
FRISCO TX 75034-0005
Generator's Phone: (972)335-2121

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Chemical Waste Management Inc.
U.S. EPA ID Number: LA0000147222

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT
7170 JOHN BRANNON RD.
SULPHUR LA 70665
Facility's Phone: (337)583-2169
U.S. EPA ID Number: LAD000777201

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ,NA3077,HAZARDOUS WASTE,SOLID,NOS,9,III,(D008) 956103LA	1	DT	26,660	P	D008
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
ERG# 01/171.
IN CASE OF EMERGENCY CONTACT CHEMTREC 800-424-9300. (WM CONTRACT #:CCN4557)
DISCREPANCIES CONTACT CARLILE (972) 738-5446

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: CARLILE, WENDELL L.
Signature: Wendell L. Carlile
Month: 11 Day: 29 Year: 12

16. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Transporter signature (for exports only):
Port of entry/exit:
Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: George Ford
Signature:
Month: 11 Day: 29 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

18b. Alternate Facility (or Generator)
Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month: 11 Day: 29 Year: 12

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1250879

Name Exide Technologies
Address P.O Box 260
Frisco TX 75034
Phone No. 972 335-2121

Generating Location Exide Technologies
7471 South 5th St Frisco, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
~~[illegible]~~	~~[illegible]~~	~~Soil, Concrete & Debris~~		Y
~~[illegible]~~	~~[illegible]~~			
D102713102	958041 TX	SOIL FROM RETAINING WALL	20/25	Y

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL JR (PRINT) — AUTHORIZED AGENT'S NAME
9/11/12 — DATE
Wendell S. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name GREEN SCAPING
Address ~~[illegible]~~ 2401 HANDLEY EDERVILLE RD.
~~[illegible]~~ FORT WORTH, TX 76118
Phone No. ~~[illegible]~~ (817) 577-9299
Driver's name Travis Orr
Vehicle No. 866/865

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

9-11-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
9-11-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name DFW RDF
Address 1600 S Railroad Street
1025 E
Permit No. _____
Phone No. (972)462-1213
Lewisville, TX 75067
Time 2:24PM

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

Reed — NAME (PRINT)
9/11/12 — DATE
SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1250878

Name Exide Technologies
Address PO Box 350
Frisco TX 75034
Phone No. 972 335 2121

Generating Location Exide Technologies
7471 South 5th St. Frisco, TX 75034
State Gen. ID No. 30510
Gen. US EPA ID No. TXD000451060

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~		Y
~~[illegible]~~	~~[illegible]~~			
101273102	958041TX	SOIL FROM RETAINING WALL	20yds	Y

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL S. (PRINT) — AUTHORIZED AGENT'S NAME
9/11/12 — DATE
W. S. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name GREEN SCAPING
Address 2401 HANDLEY EDERVILLE RD.
FORT WORTH, TX 76118
Phone No. (817) 577-9299
Driver's name TRAVIS OAK
Vehicle No. 846 / 2005

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

9-11-12 — SHIPMENT DATE
Travis Oak — DRIVER'S SIGNATURE
9-11-12 — DELIVERY DATE
Travis Oak — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name TFVTRF
Address 4700 S Richland Street
Permit No. 2365
Phone No. (972)459-1612
Lewisville TX 75057
Time 2:03pm

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

[illegible] (PRINT) — NAME
9/11/12 — DATE
[illegible] — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1250880

Name Exide Technologies
Address PO Box 250
Frisco TX 75034
Phone No. 972 335-2121

Generating Location Exide Technologies
7471 South 5th St; Frisco, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD008451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
~~D 0 0 8 4 5 1~~	~~[illegible]~~	~~Soil Contaminated Debris~~		Y
~~D 0 0 2 5 3 9 0 2~~	~~95784 ITX~~			
D 0 0 2 7 3 0 2 2	95804 ITX	SOIL FROM RETAINING WALL	20 yds	Y

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL D. (PRINT) — AUTHORIZED AGENT'S NAME
9/11/12 — DATE
Wendell D. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name GREEN SCAPING
Address ~~125 W State Hwy 22~~ 2401 HAMLEY ESTATE RD
~~Ennis TX 75119~~ FORT WORTH, TX 76118
Phone No. ~~(972) 878-2944~~ (817) 577-9299
Driver's name TRAVIS ORR
Vehicle No. 846

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

9-11-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
9-11-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name LFW ROF
Address 1600 S. Railroad Street
Lewisville TX 75067
Permit No. 2025 C
Phone No. (972) 455-1213
Time 4:59 pm

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

Troy Turner — NAME (PRINT)
9/11/12 — DATE
SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252654

Name EXIDE TECHNOLOGIES
Address PO BOX 250
FRISCO TX 75034
Phone No. 972 [illegible]

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006451039

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8 yds	Y
0027302 2	958041TX	SOIL FROM RETAING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL J. (PRINT) — AUTHORIZED AGENT'S NAME
10-1-12 — DATE
Wendell J. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaping [redacted]
Address [redacted] 2401 Handley Edenville
[redacted] Ft. Worth Tx. 76118
Phone No. [redacted] 817-577-9299
Driver's name Travis Orr
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

10-1-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
10-1-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name [illegible]
Address [illegible]
Permit No. _____
Phone No. [illegible]
Time 4:03 pm

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

K Boxley (PRINT) — NAME
10-1-12 — DATE
K Boxley — SIGNATURE

White - Original · Canary - Transporter · Pink - Disposal Facility · Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252655

Name EXIDE TECHNOLOGIES
Address PO BOX 35E
FRISCO TX 75034
Phone No. 972 335-2121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET; FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006451040

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]		[redacted]	8 yds	Y
0102730212	458041TX	SOIL FROM RETAING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL A. — AUTHORIZED AGENT'S NAME (PRINT)
10-1-12 — DATE
SIGNATURE

TRANSPORTER

Transporter's Name Green Sibling
Address [redacted] 2401 Handley Ederville Rd
[redacted] Ft Worth Tx. 76118
Phone No. [redacted] 817-577-9299
Driver's name Travis ORR
Vehicle No. 816

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

10-1-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
10-1-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name SPRADLEY
Address 600 STALLINGS DR STE B
Permit No. 1026
Phone No. (972) 459-1711
LEWISVILLE TX 75057
Time 2:46PM

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

NAME (PRINT)
10/01/12 — DATE
SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252656

Name EXIDE TECHNOLOGIES
Address PO BOX 250
FRISCO TX 75034
Phone No. 972 335-2121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET; FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8 yds	Y
002730222	958041 TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL L. (PRINT) — AUTHORIZED AGENT'S NAME
10-2-12 — DATE
Wendell L Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaping [redacted]
Address [redacted] 2401 Handley Edenville
[redacted] Ft. Worth Tx. 76118

Phone No. [redacted] 817-577-9299
Driver's name Travis Ou
Vehicle No. 864

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

10-2-12 — SHIPMENT DATE
Travis Ou — DRIVER'S SIGNATURE
10-2-12 — DELIVERY DATE
Travis Ou — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name DFW EDF
Address 1600 E RAILROAD STREET
Permit No. [illegible]

Phone No. (972)459-4213
LEWISVILLE TX 75067
Time 9.17 AM

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

R. Reed (PRINT) — NAME
10/02/12 — DATE
R. Reed — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252657

Name EXIDE TECHNOLOGIES
Address PO BOX 252
FRISCO TX 75034
Phone No. 972 335-2121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD000451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	10	Y
00273022	958041 TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL A. (PRINT) AUTHORIZED AGENT'S NAME — 10-2-12 DATE — Wendell A. Carlile SIGNATURE

TRANSPORTER

Transporter's Name Green Scaping [redacted]
Address [redacted] 2401 Handley Edenville
[redacted] Ft. Worth Tx 76118

Phone No. [redacted] 817-577-9299
Driver's name Travis Orr
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

10-2-12 SHIPMENT DATE — Travis Orr DRIVER'S SIGNATURE — 10-2-12 DELIVERY DATE — Travis Orr DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name [illegible]
Address 1800 S RAILROAD STREET
Permit No. [illegible]

Phone No. (972)459-1213
LEWISVILLE TX 75067
Time 1040 AM

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

Troy [illegible] NAME (PRINT) — 10/2/12 DATE — [illegible] SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252658

Name EXIDE TECHNOLOGIES
Address PO BOX 250
FRISCO TX 75034
Phone No. 972 335-2121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006451080

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8 yds	Y
00273022	958041TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL B. — AUTHORIZED AGENT'S NAME (PRINT)
10-2-12 — DATE
Wendell B. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaping [redacted]
Address [redacted] 2401 Handley Edenville
[redacted] Ft. Worth Tx 76118
Phone No. [redacted] 817-577-9299
Driver's name Travis Orr
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

10-2-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
10-2-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name DFW RDF
Address 1800 S RAILROAD STREET
Permit No. 1925 B
Phone No. (972)459-1213
LEWISVILLE TX 75067
Time 12:11PM

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

R Reed — NAME (PRINT)
10/2/12 — DATE
R Reed — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

WMI 1252659

GENERATOR

Name EXIDE TECHNOLOGIES
Address P.O. BOX 250
FRISCO TX 75034
Phone No. 972 335 2121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006455 090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8 yds	
0102700212	958041TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL S. (PRINT) — AUTHORIZED AGENT'S NAME
10-2-12 — DATE
Wendell S. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaping
Address [redacted] 2401 Hardley Edenville
[redacted] Ft Worth Tx 76118
Phone No. [redacted] 817-577-9299
Driver's name Travis Orr
Vehicle No. 816

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

10-2-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
10-2-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name TFM FSF
Address 11600 E. ARAPAHO STREET
RICHARDSON
Permit No: [illegible]
Phone No. (972) 669-1213
LEWISVILLE TX 75067
Time 3:49 PM

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

TONY [illegible] — NAME (PRINT)
10/2/12 — DATE
SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252660

Name EXIDE TECHNOLOGIES
Address PO BOX 250
FRISCO TX 75034
Phone No. 972 335-2121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET; FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8 yds	Y
00223022	958041TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL A. (PRINT) — AUTHORIZED AGENT'S NAME
10-2-12 — DATE
Wendell A. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Seaping [redacted]
Address [redacted] 2401 Handley Edenville
[redacted] Ft. Worth Tx 76118
Phone No. [redacted] 817-577-9299
Driver's name Travis Orr
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

10-2-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
10-2-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name DFW RDF
Address 1500 S RAILROAD STREET
Permit No. 1025-B
Phone No. (972)459 1213
LEWISVILLE TX 75067
Time 1:56PM

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

R. Reed — NAME (PRINT)
10/02/12 — DATE
R. Reed — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252661

Name EXIDE TECHNOLOGIES
Address PO BOX 250
FRISCO TX 75034
Phone No. 972 335-2121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD008451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8 yds	Y
00273022	958041TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL A. (PRINT) — AUTHORIZED AGENT'S NAME
10-3-12 — DATE
Wendell A. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaping [redacted]
Address [redacted] 2401 Handley Edgeville Rd
[redacted] Ft. Worth Tx. 76118
Phone No. [redacted] 817-577-9299
Driver's name Travis Orr
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

10-3-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
10-3-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name DFW SDF
Address 1600 S RAILROAD STREET
Permit No. [illegible]
Phone No. (972)459-1213
LEWISVILLE TX 75067
Time 9:46 AM

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

[signature] — NAME (PRINT)
10/3/12 — DATE
[signature] — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252662

Name EXIDE TECHNOLOGIES
Address PO BOX 250
FRISCO TX 75034
Phone No. 972 335 2121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	4 yds	Y
00273022	958041TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL D. (PRINT) — AUTHORIZED AGENT'S NAME
10-3-12 — DATE
Wendell D. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaping
Address [redacted] 2401 Hardley Edenville Rd
[redacted] Ft. Worth Tx: 76118
Phone No. [redacted]
Driver's name Travis Orr
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

10-3-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
10-3-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name DFW EDF
Address 1000 D RAY ROAD STREET
Permit No. 1026 P
Phone No. (972)459 1210
LEWISVILLE TX 75067
Time 1201 pm

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

[signature] (PRINT) — NAME
10/3/12 — DATE
[signature] — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252663

Name EXIDE TECHNOLOGIES
Address PO BOX 269
FRISCO TX 75034
Phone No. 972 335 2112

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006451096

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8	Y
D018 D027 D030 D22	958041 TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL A. — AUTHORIZED AGENT'S NAME (PRINT)
10-5-12 — DATE
Wendell A. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaping
Address [redacted] 2461 Handley Ederville Rd
[redacted] Ft. Worth Tx. 76118
Phone No. [redacted] 817-577-9259
Driver's name Travis Ow
Vehicle No. 8CC

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

10-5-12 — SHIPMENT DATE
Travis Ow — DRIVER'S SIGNATURE
10-5-12 — DELIVERY DATE
Travis Ow — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name DFW Fix
Address 6565 FAIRWAY STREET
IRVING TX 75061
Phone No. (972) 438-1211
Permit No. _____
Time 12:21 PM

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

K. Reed — NAME (PRINT)
10/5/12 — DATE
K. Reed — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252664

Name EXIDE TECHNOLOGIES
Address PO BOX 250
FRISCO TX 75034
Phone No. 972 335-3131

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD003451095

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8 yds	
00273022	958041TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL B. (PRINT) — AUTHORIZED AGENT'S NAME
24 OCT 2012 — DATE
Wendell B. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Scapper [redacted]
Address [redacted] 2401 Handley Ederville Rd
[redacted] Ft. Worth Tx. 76118
Phone No. [redacted] 817-577-9299
Driver's name Travis Orr
Vehicle No. 866/865

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

10-24-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
10-24-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name [illegible]
Address [illegible]
Permit No. [illegible]
Phone No. [illegible]
Time 120pm

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

Troy Tow — NAME (PRINT)
10/24/12 — DATE
[signature] — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252670

Name EXIDE TECHNOLOGIES
Address PO BOX 250
FRISCO TX 75034
Phone No. 972 335 2121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET; FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD008451050

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8 yds	Y
101227310212	958041TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLISLE, WENDELL S. (PRINT) — AUTHORIZED AGENT'S NAME
10-31-12 — DATE
Wendell S. Carlisle — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaping
Address [redacted] 2401 Hwy 67 Cedar Hill
Ft. Worth Tx. 76118
Phone No. [redacted] 817 577-9294
Driver's name Travis Ott
Vehicle No. 846

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

10-31-12 — SHIPMENT DATE
Travis Ott — DRIVER'S SIGNATURE
10-31-12 — DELIVERY DATE
Travis Ott — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name BFI #57
Address 6325 FM 407 ROAD STREET
LEWISVILLE TX 75067
Phone No. (972) 459-1213
Permit No. _____
Time 1:04 pm

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

Tony Lee — NAME (PRINT)
10/31/12 — DATE
SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252671

Name EXIDE TECHNOLOGIES
Address PO BOX 250
FRISCO TX 75034
Phone No. 972 335-2121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006451030

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8 yds	
0027 3022	958041 TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL B. (PRINT) — AUTHORIZED AGENT'S NAME
10-31-12 — DATE
Wendell B. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaping [redacted]
Address [redacted] 2401 Handley Edenville
[redacted] Ft. Worth Tx 76118
Phone No. [redacted] 817-577-9299
Driver's name Travis Orr
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

10-31-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
10-31-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name CFW PDF
Address 1600 S FAIRROAD STREET
Permit No. 1026-B
Phone No. (972)459-1216
LEWISVILLE TX 75067
Time 3:05 pm

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

K Bodey (PRINT) — NAME
10-31-12 — DATE
K Bodey — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252672

Name EXIDE TECHNOLOGIES
Address PO BOX 250
FRISCO TX 75034
Phone No. 972 335 2121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	4/05	Y
D001 D002	258041TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLISLE WENDELL S. (PRINT) — AUTHORIZED AGENT'S NAME
11-1-12 — DATE
Wendell S. Carlisle — SIGNATURE

TRANSPORTER

Transporter's Name GreenScapes Inc
Address [redacted] 2401 Handley Edgemille Ft. Worth Tx. 76118
Phone No. [redacted] 817-577-9299
Driver's name Travis Orr
Vehicle No. 8066

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11-1-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
11-1-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name DFW FDF
Address 1550 E RANKIN ROAD DFW AIRPORT
Permit No. 1225 T
Phone No. (972)456-1211
LEWISVILLE TX 75067
Time 1146 AM

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

[illegible] — NAME (PRINT)
11/1/12 — DATE
[signature] — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252673

Name EXIDE TECHNOLOGIES
Address PO BOX 269
FRISCO TX 75034
Phone No. 972 335 3121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET; FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD980845060

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8 yds	Y
0102 730122	958041TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL JR — AUTHORIZED AGENT'S NAME (PRINT)
11-1-12 — DATE
W. Wendell Jr. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaping
Address [redacted] 2401 Hardy Lakeville
[redacted] Ft Worth Tx. 76118
Phone No. [redacted] 817-577-9299
Driver's name Travis Orr
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11-1-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
11-1-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name TRN PDF
Address 700 S FM 1387 STREET
Permit No. 1226
Phone No. (972) 453 1213
LEWISVILLE TX 75067
Time 3:00pm

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

TONY ORR — NAME (PRINT)
11/1/12 — DATE
SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252674

Name EXIDE TECHNOLOGIES
Address PO BOX 250
FRISCO TX 75034
Phone No. 972 335-9121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8.05	Y
D002 D018	958011X	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL D. (PRINT) — AUTHORIZED AGENT'S NAME
11-1-12 — DATE
Wendell D. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaling
Address [redacted] 2401 Handley Ederville Rd
[redacted] Ft. Worth Tx 76118
Phone No. [redacted] 817-577-9299
Driver's name Travis Ord
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11-1-12 — SHIPMENT DATE
Travis Ord — DRIVER'S SIGNATURE
11-1-12 — DELIVERY DATE
Travis Ord — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name EWRC
Address 1605 E. KINGSMILL STREET
SUITE B
Permit No. _____
Phone No. (972)450-1211
LEWISVILLE TX 75057
Time 1:09 Am

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

Travis Ord (PRINT) — NAME
11/1/12 — DATE
SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252675

Name EXIDE TECHNOLOGIES
Address PO BOX 260
FRISCO TX 75034
Phone No. 972 335 2111

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO, TX 75034
State Gen. ID No. 39516
Gen. US EPA ID No. TXD006451080

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8	YDS
ODR2130122	958041TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL B. (PRINT) — AUTHORIZED AGENT'S NAME
11-9-12 — DATE
Wendell B. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name GreenScaping
Address [redacted] 2401 Handley Ederville
[redacted] Ft. Worth Tx 76118
Phone No. [redacted] 817-577-9299
Driver's name Travis Orr
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11-9-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
11-9-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name [illegible]
Address [illegible]
Permit No. _____
Phone No. [illegible]
Time _____

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

K Bordey — NAME (PRINT)
11-9-12 — DATE
K Bordey — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252676

Name EXIDE TECHNOLOGIES
Address PO BOX 25[illegible]
FRISCO TX 7503[illegible]
Phone No. 972 335-[illegible]

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO, TX 7503[illegible]
State Gen. ID No. 3051[illegible]
Gen. US EPA ID No. TXD0064510[illegible]

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	2	Y
0102731012	258041 TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL D. (AUTHORIZED AGENT'S NAME (PRINT)) 11-9-12 (DATE) Wendell D. Carlile (SIGNATURE)

TRANSPORTER

Transporter's Name Green Scapes
Address [redacted] 2401 Handley Ederville Rd
Ft. Worth Tx. 7611[illegible]
Phone No. [redacted] 817-577-9259
Driver's name Travis Orr
Vehicle No. 846

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11-9-12 (SHIPMENT DATE) Travis Orr (DRIVER'S SIGNATURE) 11-9-12 (DELIVERY DATE) Travis Orr (DRIVER'S SIGNATURE)

DISPOSAL FACILITY

Site Name SKW EDS
Address [illegible] SHADY OAK STREET
[illegible]
Permit No. _____
Phone No. (972/469-[illegible])
[illegible] EWISVILLE TX 7506[illegible]
Time 1:53 PM

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

K Boxley (NAME (PRINT)) 11-9-12 (DATE) K Boxley (SIGNATURE)

White - Original · Canary - Transporter · Pink - Disposal Facility · Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252677

Name EXIDE TECHNOLOGIES
Address PO BOX 660
FRISCO TX 75034
Phone No. 972 335 3121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET; FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8 yds	Y
D002 D018	258041 TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL S. — AUTHORIZED AGENT'S NAME (PRINT)
11-9-12 — DATE
Wendell S. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaping
Address [redacted] 2401 Handley Ederville
[redacted] Ft. Worth Tx. 76118
Phone No. [redacted] 817-577-9299
Driver's name Travis Orr
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11-9-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
11-9-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name [illegible]
Address [illegible]
Permit No. [illegible]
Phone No. [illegible]
Time 12:45 pm

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

K Bexley — NAME (PRINT)
11-9-12 — DATE
K Bexley — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252678

Name EXIDE TECHNOLOGIES
Address PO BOX 250
FRISCO TX 75034
Phone No. 972 335-2121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8 yds	Y
0027 30 22	958041 TX	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL A. (PRINT) — AUTHORIZED AGENT'S NAME
10-31-12 — DATE
Wendell A. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaling [redacted]
Address [redacted] 2401 Handley Edensville
[redacted] Ft. Worth Tx. 76118
Phone No. [redacted] 817-577-9299
Driver's name Travis Orr
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

10-31-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
10-31-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name DFW FCC
Address 1600 S RAILROAD STREET
Permit No. 1025 T
Phone No. (972)459 1213
LEWISVILLE TX 75067
Time 1009 AM

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

Troy Turner — NAME (PRINT)
10/31/12 — DATE
[signature] — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252679

Name EXIDE TECHNOLOGIES
Address PO BOX 250
FRISCO TX 75034
Phone No. 972 618 2161

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO, TX 75034
State Gen. ID No. 30515
Gen. US EPA ID No. TXD006451096

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8	Y
D002 D007 D010	958041	SOIL FROM RETAINING WALL		

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLISLE, WENDELL S.
AUTHORIZED AGENT'S NAME (PRINT)

10-31-12
DATE

Wendell S. Carlisle
SIGNATURE

TRANSPORTER

Transporter's Name Green Scaping
Address [redacted] 2401 Handley Ederville Rd
[redacted] Ft. Worth Tx 76118

Phone No. [redacted] 817-577-5297
Driver's name Travis Orr
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

10-31-12
SHIPMENT DATE

Travis Orr
DRIVER'S SIGNATURE

10-31-12
DELIVERY DATE

Travis Orr
DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name [illegible]
Address 2500 E. FM 2920 STREET
[illegible]

Phone No. [illegible]
[illegible] TX 77377

Permit No. [illegible]

Time 1148 AM

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

Travis Orr
NAME (PRINT)

10/31/12
DATE

SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252681

Name EXIDE TECHNOLOGIES
Address PO BOX 250
FRISCO TX 75034
Phone No. 972 335-2121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO, TX 75034
State Gen. ID No. 30516
Gen. US EPA ID No. TXD006451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	8 yds	[redacted]
0027302 2	958041TX	SOIL FROM RETAINING WALL		Y

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE, WENDELL D. (PRINT) — AUTHORIZED AGENT'S NAME
19 NOV. 2012 — DATE
Wendell D. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaping [redacted]
Address [redacted] 2401 Handley Ederville
[redacted] Ft. Worth 76118
Phone No. [redacted] 817-577-9299
Driver's name Travis Old
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11-19-12 — SHIPMENT DATE
Travis Old — DRIVER'S SIGNATURE
11-19-12 — DELIVERY DATE
Travis Old — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name DFW RDF
Address 1600 S RAILROAD STREET
Permit No. [illegible]
Phone No. (972)459-1010
LEWISVILLE TX 7500
Time 1009 AM

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

Troy Tum — NAME (PRINT)
11/19/12 — DATE
[signature] — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1252682

Name EXIDE TECHNOLOGIES
Address PO BOX 250
FRISCO TX 75034
Phone No. 972 335-2121

Generating Location EXIDE TECHNOLOGIES
7471 SOUTH FIFTH STREET, FRISCO, TX 75034
State Gen. ID No. 30510
Gen. US EPA ID No. TXD006451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]		[redacted]
0022310222	958041TX	SOIL FROM RETAINING WALL	8 yds	Y

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

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CARLILE, WENDELL A. (PRINT) — AUTHORIZED AGENT'S NAME
19 NOV. 2012 — DATE
Wendell A. Carlile — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaping [redacted]
Address [redacted] 2401 Handley Ederville
[redacted] Ft. Worth Tx. 76116
Phone No. [redacted] 817-577-9299
Driver's name Travis Old
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11-19-12 — SHIPMENT DATE
Travis Old — DRIVER'S SIGNATURE
11-19-12 — DELIVERY DATE
Travis Old — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name DFW RDF
Address 1600 S RAILROAD STREET
Permit No. 1025-B
Phone No. (972)459 1213
LEWISVILLE TX 75067
Time 12:53

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

Debbie — NAME (PRINT)
11-19-12 — DATE
SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

WMI 1252683

GENERATOR

Name [redacted]
Address [redacted]
Phone No. [redacted]
Generating Location [redacted]
State Gen. ID No. [redacted]
Gen. US EPA ID No. [redacted]

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
102773922	95804/TX	Soil From Retaining Wall	6 yds	Y

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

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CARLTON WENDELL B. — AUTHORIZED AGENT'S NAME (PRINT)
19 NOV. 2012 — DATE
Wendell B. Carlton — SIGNATURE

TRANSPORTER

Transporter's Name Green Scaling
Phone No. [redacted] 817-577-9255
Address [redacted] 2401 Handley Ederville Rd
[redacted] Ft. Worth 76118
Driver's name Travis ORR
Vehicle No. 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11-19-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
11-19-20 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name [redacted]
Phone No. [redacted]
Address [redacted]
Permit No. [redacted]
Time 2:05p

I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

[redacted] — NAME (PRINT)
11-19-12 — DATE
[redacted] — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

WASTE MANAGEMENT

NON-HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acc. No. _____
Ticket No. _____

GENERATOR

WMI 1312048

Name: Exide Technologies
Address: PO Box 250
Frisco TX 75034
Phone No.: 972 335-2121

Generating Location: Exide Technologies
7471 South 5th St; Frisco, TX 75034
State Gen. ID No.: 30516
Gen. US EPA ID No.: TXD006451090

WASTE CODE	PROFILE NUMBER	WASTE DESCRIPTION	QUANTITY	UNITS
[redacted]	[redacted]	[redacted]		[redacted]
0027302	958041TX	SOIL FROM RETAINING WALL	8 yds	Y

CODES: D = DRUM; B = BAG; C = CARTON; P = POUND; Y = YARDS; 0 = OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

CARLILE WENDELL D. (PRINT) — AUTHORIZED AGENT'S NAME
19 NOV. 2012 — DATE
[signature] — SIGNATURE

TRANSPORTER

Transporter's Name: Green Scaping
Address: 2401 Handley Ederville Rd.
Ft. Worth TX. 76118
Phone No.: 817-577-9299
Driver's name: Travis Orr
Vehicle No.: 866

I hereby certify that the above listed material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

11-19-12 — SHIPMENT DATE
Travis Orr — DRIVER'S SIGNATURE
11-19-12 — DELIVERY DATE
Travis Orr — DRIVER'S SIGNATURE

DISPOSAL FACILITY

Site Name: DFW RDF
Address: 1600 S Railroad Street
Permit No.: 1025-B
Phone No.: (972)316-2223
Lewisville TX 75067
Time: 11:23 AM

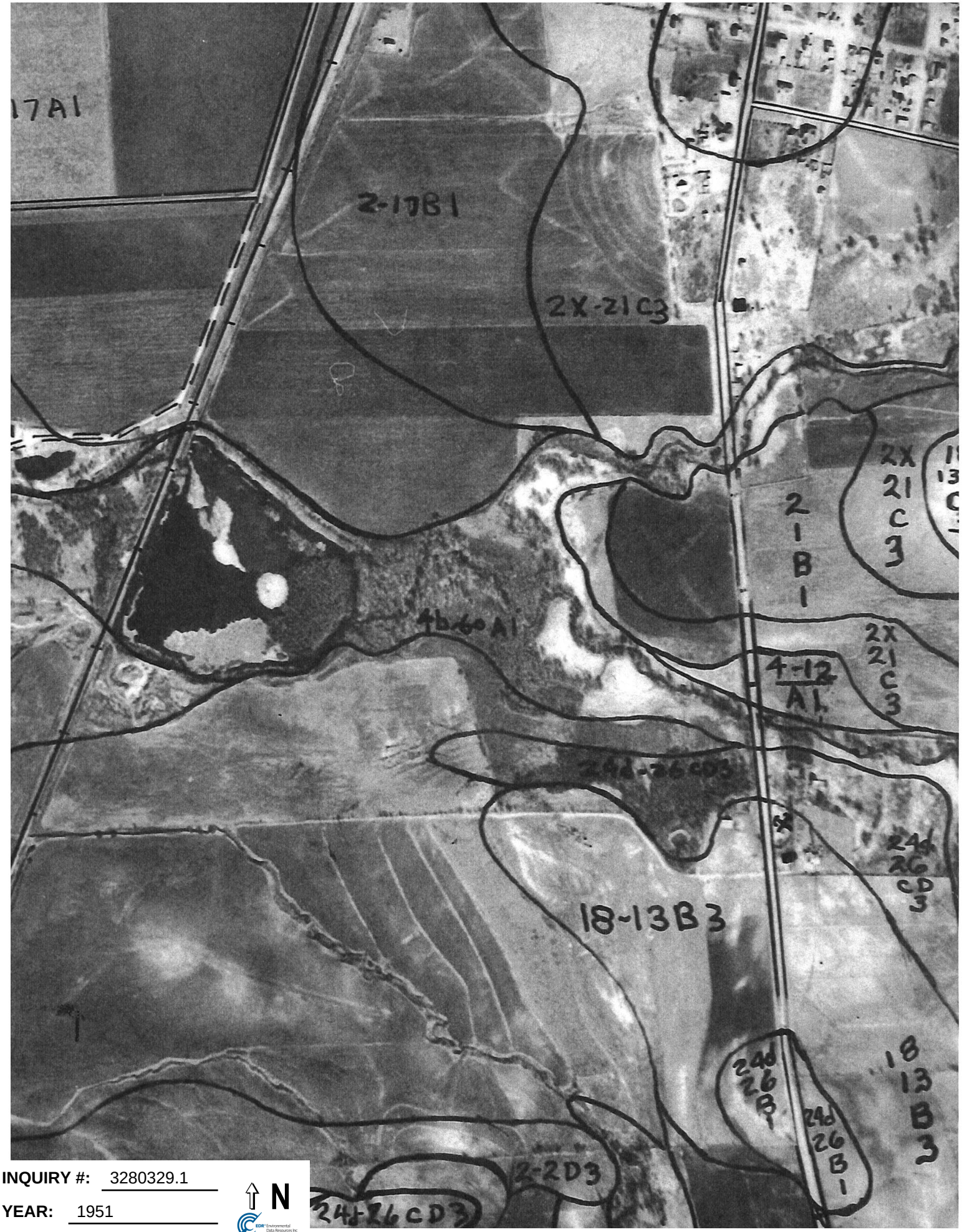
I hereby certify that the above listed material has been accepted and that information presented on this document is true and accurate.

[signature] — NAME (PRINT)
11-19-12 — DATE
[signature] — SIGNATURE

White - Original • Canary - Transporter • Pink - Disposal Facility • Goldenrod - Generator

Appendix 20

Historical Aerial Photographs

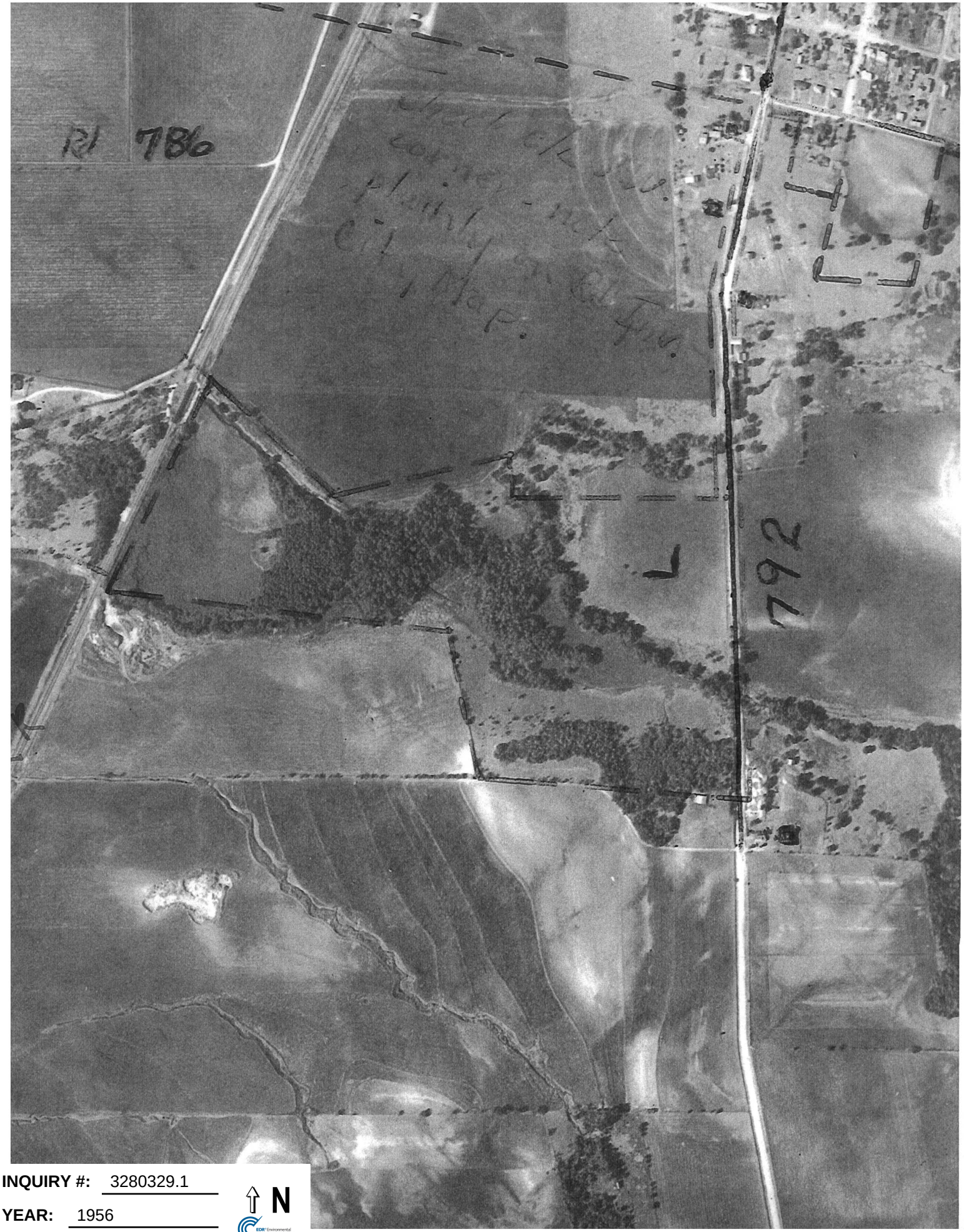


INQUIRY #: 3280329.1

YEAR: 1951

N

= 500'



INQUIRY #: 3280329.1

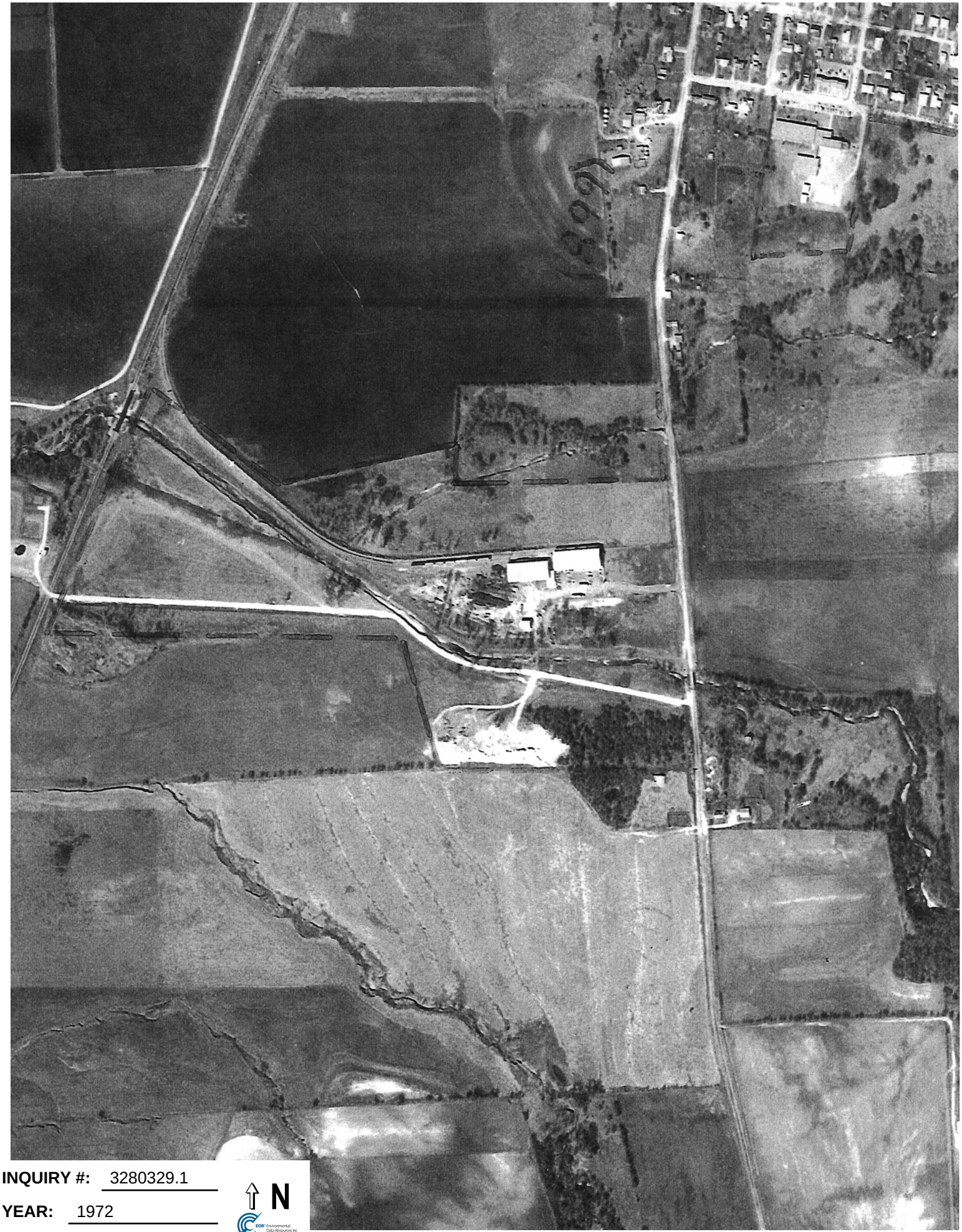
YEAR: 1956

= 500'

N

EDR Environmental Data Resources Inc


INQUIRY #: 3280329.1
YEAR: 1968
= 500'
N



INQUIRY #: 3280329.1

YEAR: 1972

= 500'

N

EDR Environmental Data Resources Inc


INQUIRY #: 3280329.1
YEAR: 1984
= 500'
N
EDR Environmental Data Resources Inc


INQUIRY #: 3280329.1
YEAR: 1995
= 500'
N
EDR Environmental Data Resources Inc



INQUIRY #: 3280329.1

YEAR: 2004

= 500'

N

EDR Environmental Data Resources Inc


INQUIRY #: 3280329.1
YEAR: 2005
= 500'
N
EDR Environmental Data Resources Inc


INQUIRY #: 3280329.1
YEAR: 2006
= 500'
N


INQUIRY #: 3280329.1
YEAR: 2008
= 500'
N

Appendix 21

FRC Feed Documentation

Table A21-1
2011 Feed Materials
Frisco Recycling Center
Frisco, Texas

Description of Feed Material	Weight (lbs.)	Overall Percentage of Feed Material
Scrap junk batteries	627,718,280	88.27%
Industrial plates	17,414,916	2.45%
Reverb slag	16,180,560	2.28%
Remelt lead/ingot	10,407,857	1.46%
Scrap oxide wet	9,565,285	1.35%
Scrap plates & separators	4,021,011	0.57%
Industrial cells/ D	3,991,684	0.56%
Pot dross	3,766,945	0.53%
Scrap acid tank sump	3,625,269	0.51%
Gel cell plastic batteries	2,753,386	0.39%
Industrial batteries	2,394,622	0.34%
Scrap lead	1,639,791	0.23%
Scrap pasted grids	1,574,896	0.22%
Wheel weights	1,535,492	0.22%
Baghouse dust	891,582	0.13%
Battery tops/top lead	721,216	0.10%
Scrap dross	671,024	0.09%
Scrap oxide dry	549,425	0.08%
Industrial cells/ W	545,396	0.08%
Telephone batteries	413,760	0.06%
Golf cart batteries	256,042	0.04%
Scrap junks drained	237,052	0.03%
Scrap lead shot	143,169	0.02%
Antimonial skim	40,980	0.01%
Floor sweepings	28,720	0.00%
Expanded metal punch	11,386	0.00%
Miscellaneous non-auto lead-A	10,040	0.00%
Scrap cable strips/ S	9,790	0.00%
Scrap plates dry	9,412	0.00%
Scrap lead anodes	3,420	0.00%
TOTAL	711,132,408	1

Notes:
1. Information provided by Exide February 13, 2013.

EXIDE TECHNOLOGIES

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

MANUFACTURER
Exide Technologies
13000 Deerfield Parkway, Bldg. 200
Milton, GA 30004

FOR INFORMATION
Primary: MACTEC Engineering and Consulting, Inc.
Telephone: (770) 421-3485
Secondary: Environmental, Safety & Health
Attention: Eric Murray (800) 523-4622
Fred Ganster (610) 921-4052

FOR EMERGENCY
CHEMTREC (800) 424-9300
24-hour Emergency Response Contact
Ask for Environmental Coordinator

CHEMICAL/TRADE NAME (as used on label): Lead-Acid Battery

CHEMICAL FAMILY/ CLASSIFICATION: Electric Storage Battery

DATE ISSUED: February 1, 2011

Page 1 of 5

CHEMTREC INTERNATIONAL (703) 527-3887 – Collect

II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

			Approximate Air Exposure Limits (µg/m^3)		
Components	CAS Number	% by Wt.	OSHA	ACGIH	NIOSH
Inorganic compounds of:					
Lead	7439-92-1	54-62	50	50	50
Antimony	7440-36-0	0.4	500	500	500
Tin	7440-31-5	0.16	2000	2000	2000
Calcium	7440-70-2	0.02	-	-	-
Arsenic	7440-38-2	0.01	10	10	2
Electrolyte (sulfuric acid/water/solution)	7664-93-9	26-40	1000	200	1000
Case Material: Polypropylene Hard Rubber	9003-07-0 --	5-12	N/A	N/A	N/A
Plate separator material: Polyethylene	9002-88-4	1-2	N/A	N/A	N/A

NOTE: Inorganic lead and electrolyte (water and sulfuric acid solution) are the primary components of every battery manufactured by Exide Technologies or its subsidiaries. Other ingredients may be present dependent upon battery type. Polypropylene is the principal case material of automotive and commercial batteries.

III. PHYSICAL DATA - ELECTROLYTE

Boiling Point	203° F-240° F (for S.G. range)	Specific Gravity (H_2O=1)	1.230 to 1.350
Melting Point	Not Applicable	Vapor Pressure (mm Hg) 77° F	17 to 11 (for S.G. range)
Solubility in Water	100%		
Evaporation Rate (Butyl acetate=1)	Less Than 1	Vapor Density (AIR=1)	Greater than 1
Appearance and Odor	A clear liquid with a sharp, penetrating, pungent odor. A battery is a manufactured article; no apparent odor.	% Volatiles by Weight	Not Applicable

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Not Applicable
Flammable Limits:	LEL = 4.1% (Hydrogen Gas in air) ; UEL = 74.2%
Extinguishing media:	CO_2; foam; dry chemical

Special Fire Fighting Procedures: Use positive pressure, self-contained breathing apparatus. Beware of acid splatter during water application and wear acid-resistant clothing, gloves, face and eye protection. If batteries are on charge, shut off power to the charging equipment, but, note that strings of series connected batteries may still pose risk of electric shock even when charging equipment is shut down.

IV. FIRE AND EXPLOSION HAZARD DATA (CONTINUED)

Unusual Fire and Explosion Hazards: In operation, batteries generate and release flammable hydrogen gas. They must always be assumed to contain this gas which, if ignited by burning cigarette, naked flame or spark, may cause battery explosion with dispersion of casing fragments and corrosive liquid electrolyte. Carefully follow manufacturer's instructions for installation and service. Keep away all sources of gas ignition and do not allow metallic articles to simultaneously contact the negative and positive terminals of a battery.

V. REACTIVITY DATA

Stability: Stable X
Unstable ___

Conditions to Avoid: Prolonged overcharge at high current; sources of ignition.

Incompatibility: (materials to avoid)

Electrolyte: Contact with combustibles and organic materials may cause fire and explosion. Also reacts violently with strong reducing agents, metals, sulfur trioxide gas, strong oxidizers, and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammable hydrogen gas.

Lead compounds: Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen, and reducing agents.

Hazardous Decomposition Products:

Electrolyte: Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, hydrogen sulfide.

Lead compounds: Temperatures above the melting point are likely to produce toxic metal fume, vapor, or dust; contact with strong acid or base or presence of nascent hydrogen may generate highly toxic arsine gas.

VI. HEALTH HAZARD DATA

Routes of Entry:

Electrolyte: Harmful by all routes of entry.

Lead compounds: Hazardous exposure can occur only when product is heated above the melting point, oxidized or otherwise processed or damaged to create dust, vapor, or fume.

Inhalation:

Electrolyte: Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation.

Lead compounds: Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs.

Ingestion:

Electrolyte: May cause severe irritation of mouth, throat, esophagus, and stomach.

Lead compounds: Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea, and severe cramping. This may lead rapidly to systemic toxicity.

Skin Contact:

Electrolyte: Severe irritation, burns, and ulceration.

Lead compounds: Not absorbed through the skin.

Eye Contact:

Electrolyte: Severe irritation, burns, cornea damage, blindness.

Lead compounds: May cause eye irritation.

Effects of Overexposure - Acute:

Electrolyte: Severe skin irritation, damage to cornea may cause blindness, upper respiratory irritation.

Lead compounds: Symptoms of toxicity include headache, fatigue, abdominal pain, loss of appetite, muscular aches and weakness, sleep disturbances, and irritability.

Effects of Overexposure - Chronic:

Electrolyte: Possible erosion of tooth enamel; inflammation of nose, throat, and bronchial tubes.

VI. HEALTH HAZARD DATA (CONTINUED)

Lead compounds: Anemia; neuropathy, particularly of the motor nerves, with wrist drop; kidney damage; reproductive changes in both males and females.

Carcinogenicity:

Electrolyte: The National Toxicology Program (NTP) and the International Agency for Research on Cancer (IARC) have classified "strong inorganic acid mist containing sulfuric acid" as a substance that is carcinogenic to humans. This classification does not apply to sulfuric acid solutions in static liquid state or to electrolyte in batteries. Batteries subjected to abusive charging at excessively high currents for prolonged periods of time without vent caps in place may create a surrounding atmosphere of the offensive strong inorganic acid mist containing sulfuric acid.

Lead compounds: Listed as a 2B carcinogen, likely in animals at extreme doses. Proof of carcinogenicity in humans is lacking at present.

Arsenic: Listed by International Agency for Research on Cancer (IARC), OSHA and NIOSH as a carcinogen only after prolonged exposure at high levels.

Medical Conditions Generally Aggravated by Exposure:

Overexposure to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions. Contact of electrolyte (water and sulfuric acid solution) with skin may aggravate skin diseases such as eczema and contact dermatitis. Contact of electrolyte (water and sulfuric acid solution) with eyes may damage cornea and/or cause blindness. Lead and its compounds can aggravate some forms of kidney, liver, and neurologic diseases.

Emergency and First Aid Procedures

Inhalation: Electrolyte: Remove to fresh air immediately. If breathing is difficult, give oxygen.

Lead compounds: Remove from exposure, gargle, wash nose and lips; consult physician.

Ingestion: Electrolyte: Give large quantities of water; **do not** induce vomiting; consult physician.

Lead compounds: Consult physician immediately.

Skin: Electrolyte: Flush with large amounts of water for at least 15 minutes; remove contaminated clothing completely, including shoes.

Lead compounds: Wash immediately with soap and water.

Eyes: Electrolyte and Lead compounds: Flush immediately with large amounts of water for at least 15 minutes; consult physician immediately.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storage:

Store batteries under roof in cool, dry, well-ventilated areas that are separated from incompatible materials and from activities that may create flames, spark, or heat. Store on smooth, impervious surfaces that are provided with measures for liquid containment in the event of electrolyte spills. Keep away from metallic objects that could bridge the terminals on a battery and create a dangerous short-circuit. Handle carefully and avoid tipping, which may allow electrolyte leakage. Single batteries pose no risk of electric shock but there may be increasing risk of electric shock from strings of connected batteries exceeding three 12-volt units.

Charging:

There is a possible risk of electric shock from charging equipment and from strings of series connected batteries, whether or not being charged. Shut-off power to chargers whenever not in use and before detachment of any circuit connections. Batteries being charged will generate and release flammable hydrogen gas. Charging space should be ventilated. Keep battery vent caps in position. Prohibit smoking and avoid creation of flames and sparks nearby. Wear face and eye protection when near batteries being charged.

Spill or Leak Procedures:

Stop flow of material, contain/absorb small spills with dry sand, earth, and vermiculite. Do not use combustible materials. If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc. Wear acid-resistant clothing, boots, gloves, and face shield. ***Do not allow discharge of un-neutralized acid to sewer.*** Neutralized acid must be managed in accordance with approved local, state, and federal requirements. Consult state environmental agency and/or federal EPA.

Waste Disposal Methods:

Spent batteries: Send to secondary lead smelter for recycling.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE (CONTINUED)

Electrolyte: Place neutralized slurry into sealed acid resistant containers and dispose of as hazardous waste, as applicable. Large water diluted spills, after neutralization and testing, should be managed in accordance with approved local, state, and federal requirements. Consult state environmental agency and/or federal EPA.

Precautionary Labeling:

POISON - CAUSES SEVERE BURNS
CORROSIVE - CONTAINS SULFURIC ACID
DANGER - EXPLOSIVE GASES
KEEP AWAY FROM CHILDREN

VIII. CONTROL MEASURES

Engineering Controls and Work Practices:

Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant.
Handle batteries cautiously, do not tip to avoid spills. Make certain vent caps are on securely. If battery case is damaged, avoid bodily contact with internal components. Wear protective clothing, eye and face protection, when filling, charging, or handling batteries.

Respiratory Protection:

None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed PEL, use NIOSH or MSHA-approved respiratory protection.

Protective gloves:

Rubber or plastic acid-resistant gloves with elbow-length gauntlet.

Eye Protection:

Chemical goggles or face shield.

Other Protection:

Acid-resistant apron. Under severe exposure or emergency conditions, wear acid-resistant clothing, gloves, and boots.

Emergency Flushing:

In areas where water and sulfuric acid solutions are handled in concentrations greater than 1%, emergency eyewash stations and showers should be provided, with unlimited water supply.

IX. OTHER REGULATORY INFORMATION

NFPA Hazard Rating for sulfuric acid:

Flammability (Red)	=	0
Health (Blue)	=	3
Reactivity (Yellow)	=	2

Sulfuric acid is water-reactive if concentrated.

TRANSPORTATION: Wet (filled with electrolyte) batteries are regulated by U.S. DOT as a hazardous material, as provided in 49 CFR 173.159

Proper Shipping Name:	Battery, wet, filled with acid
Hazard Class/Division:	8
ID Number:	UN2794
Packing Group:	III
Label Required:	Corrosive

RCRA: Spent lead-acid batteries are not regulated as hazardous waste when recycled. Spilled sulfuric acid is a characteristic hazardous waste; EPA hazardous waste number D002 (corrosivity).

CERCLA (Superfund) and EPCRA:

(a) Reportable Quantity (RQ) for spilled 100% sulfuric acid under CERCLA (Superfund) and EPCRA (Emergency Planning and Community Right to Know Act) is **1,000 lbs**. State and local reportable quantities for spilled sulfuric acid may vary.

(b) Sulfuric acid is a listed "Extremely Hazardous Substance" under EPCRA, with a Threshold Planning Quantity (TPQ) of **1,000 lbs.**

(c) EPCRA Section 302 notification is required if **1,000 lbs** or more of sulfuric acid is present at one site. An average automotive/commercial battery contains approximately 5 lbs of sulfuric acid. Contact your Exide representative for additional information.

(d) EPCRA Section 312 Tier Two reporting is required for non-automotive batteries if sulfuric acid is present in quantities of **500 lbs** or more and/or if lead is present in quantities of **10,000 lbs** or more.

IX. OTHER REGULATORY INFORMATION (CONTINUED)

(e) **Supplier Notification:** This product contains toxic chemicals that may be reportable under EPCRA Section 313 Toxic Chemical Release Inventory (Form R) requirements. For a manufacturing facility under SIC codes 20 through 39, the following information is provided to enable you to complete the required reports:

Toxic Chemical	CAS Number	Approximate % by Weight
Lead	7439-92-1	54-62
Sulfuric Acid/Water Solution	7664-93-9	26-40
*Antimony	7440-36-0	0.4
*Arsenic	7440-38-2	0.01

*Not present in all battery types. Contact your Exide representative for additional information.

If you distribute this product to other manufacturers in SIC Codes 20 through 39, this information must be provided with the first shipment of each calendar year.

Note: The Section 313 supplier notification requirement does not apply to batteries that are "consumer products".

CAA:

Exide Technologies supports preventative actions concerning ozone depletion in the atmosphere due to emissions of CFC's and other ozone depleting chemicals (ODC's), defined by the USEPA as Class I substances. Pursuant to Section 611 of the Clean Air Act Amendments (CAAA) of 1990, finalized on January 19, 1993, Exide established a policy to eliminate the use of Class I ODC's prior to the May 15, 1993 deadline.

TSCA:

Ingredients in Exide's batteries are listed in the TSCA Registry as follows:

	CAS NO.	TSCA Status
Electrolyte: Sulfuric acid (H_2SO_4)	7664-93-9	Listed
Inorganic Lead Compound		
Lead (Pb)	7439-92-1	Listed
Lead Oxide (PbO)	1317-36-8	Listed
Lead Sulfate ($PbSO_4$)	7446-14-2	Listed
Antimony (Sb)	7440-36-0	Listed
Arsenic (As)	7440-38-2	Listed
Calcium (Ca)	7440-70-2	Listed
Tin (Sn)	7440-31-5	Listed

CANADIAN REGULATIONS:

All chemical substances in this product are listed on the CEPA DSL/NDSL or are exempt from list requirements.

CALIFORNIA PROPOSITION 65: "WARNING: This product contains lead, a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm."

PREPARED BY: ENVIRONMENTAL, SAFETY AND HEALTH DEPARTMENT
EXIDE TECHNOLOGIES
13000 DEERFIELD PKWY., BLDG. 200
MILTON, GA 30004

VENDEE AND THIRD PERSONS ASSUME THE RISK OF INJURY PROXIMATELY CAUSED BY THE MATERIAL IF REASONABLE SAFETY PROCEDURES ARE NOT FOLLOWED AS PROVIDED FOR IN THE DATA SHEET, AND VENDOR SHALL NOT BE LIABLE FOR INJURY TO VENDEE OR THIRD PERSONS PROXIMATELY CAUSED BY ABNORMAL USE OF THE MATERIAL EVEN IF REASONABLE PROCEDURES ARE FOLLOWED.

ALL PERSONS USING THIS PRODUCT, ALL PERSONS WORKING IN AN AREA WHERE THIS PRODUCT IS USED, AND ALL PERSONS HANDLING THIS PRODUCT SHOULD BE FAMILIAR WITH THE CONTENTS OF THIS DATA SHEET. THIS INFORMATION SHOULD BE EFFECTIVELY COMMUNICATED TO EMPLOYEES AND OTHERS WHO MIGHT COME IN CONTACT WITH THE PRODUCT.

WHILE THE INFORMATION ACCUMULATED AND SET FORTH HEREIN IS BELIEVED TO BE ACCURATE AS OF THE DATE HEREOF, EXIDE TECHNOLOGIES MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE FOR THEIR PARTICULAR CIRCUMSTANCES.

ANY PHOTOCOPY MUST BE OF THIS ENTIRE DOCUMENT

From:	Larry Eagan
To:	Eric Pastor
Cc:	"Love, Matt"; Roberta Russell; Will Vienne
Subject:	RE: Frisco Feed Material
Date:	Wednesday, June 05, 2013 12:41:14 PM

Eric, Broken automotive batteries were the main feed source for the secondary lead industry. The list looks fine for the Plant. The Reverb Furnace would have received the majority of the feed materials listed. Some of the items were generated in-house i.e. the reverb slag, which was the main source of feed for the Blast Furnace plus the industrials cells and some drosses. Most of the remelt items such as scrap lead: ingots, wheel weights, lead shot, expanded grid and punch-outs, cable strips and lead anodes would be recycled in the refining kettles, but could be fed to one of the furnaces also.

If you have any questions call me 214-215-5011. Larry

From: Eric Pastor [mailto:eric.pastor@pbwllc.com]
Sent: Tuesday, June 04, 2013 6:14 PM
To: Larry Eagan (lgeagan@verizon.net)
Cc: Love, Matt; Roberta Russell; Will Vienne
Subject: Frisco Feed Material

Hi Larry –

Attached is a table listing the composition of Frisco feed materials in 2011. Could you look it over and let me know if this general composition is historically true for the Frisco operation – i.e., were scrap batteries pretty much always the primary feed material? If not, what was?

Thanks.

Eric Pastor
Pastor, Behling & Wheeler, LLC
2201 Double Creek Drive, Suite 4004
Round Rock, Texas 78664
512-671-3434

Appendix 22

SPLP Data Summary

Table A22-1
SPLP Data Summary

Sample ID	Sample Date	Sample Depth (feet bgs)	SPLP Results	
			Cadmium (mg/L)	Lead (mg/L)
2012-BSA-3A(0-2')	3/23/2012	0-2	0.0125	--
2012-BSA-4a(0-1')	3/29/2012	0-1	0.0018 U	0.354
2012-BSA-4c(0-1')	3/29/2012	0-1	0.0041 U	0.706
2012-BSA-4d(0-1')	3/29/2012	0-1	0.0068	1.54

Notes:

1. "--" - not analyzed.
1. Data Qualifiers (see Section 3.5): U - blank contamination.

Appendix 23

SIR and APAR Sample Coordinates

Table A23-1

Coordinate Data Summary
SIR and APAR Soil Sample and Surface Water/Sediment Sample Locations

Location ID	Northing	Easting
Soil Sample Locations		
2012-BSA-1	7102274	2480624
2012-BSA-1A	7102276	2480629
2012-BSA-2	7102274	2480735
2012-BSA-3	7102224	2480672
2012-BSA-3A	7102220	2480676
2012-BSA-4	7102173	2480639
2012-BSA-5	7102165	2480739
2012-BY-1	7102377	2479501
2012-BY-2	7102343	2479613
2012-BY-3	7102239	2479660
2012-BY-4	7102231	2479579
2012-BY-5	7102282	2479516
2012-CUFT-1	7101786	2479394
2012-CUFT-2	7101783	2479434
2012-FWCS-1	7102032	2479676
2012-FWCS-11	7102055	2479651
2012-FWCS-12	7102060	2479678
2012-FWCS-2	7101912	2479827
2012-FWCS-3	7101904	2479837
2012-FWCS-4	7101886	2479859
2012-FWCS-5	7101863	2479891
2012-FWCS-6	7101824	2479945
2012-FWCS-7	7101805	2479966
2012-FWCS-8	7101746	2480046
2012-FWCS-9	7101706	2480100
2012-FWFS-1	7101960	2479788
2012-FWFS-2	7101918	2479841
2012-FWFS-3	7101888	2479880
2012-FWFS-4	7101873	2479898
2012-FWFS-5	7101843	2479937
2012-FWFS-6	7101812	2479976
2012-FWFS-7	7101780	2480015
2012-FWFS-7A	7101767	2480012
2012-FWFS-7B	7101757	2480012
2012-FWFS-8	7101749	2480054
2012-FWFS-9	7101720	2480095
2012-NDA-1	7102386	2480119
2012-NDA-2	7102390	2480412
2012-NDA-3	7102444	2480662
2012-NDA-4	7102396	2480119
2012-NDA-5	7102460	2480666
2012-NDA-6	7102503	2480666

Table A23-1

Coordinate Data Summary
SIR and APAR Soil Sample and Surface Water/Sediment Sample Locations

Location ID	Northing	Easting
2012-RMSA-1	7101962	2480182
2012/2013-RMSA-2	7101817	2480247
2012-RMSA-3	7101783	2480191
2012-RMSA-4	7101861	2480123
2012-SDA-1	7101559	2480089
2012-SDA-2	7101558	2480185
2012-SDA-3	7101553	2480292
2012-SDA-4	7101174	2479971
2012-SDA-5	7101170	2480098
2012-SL-1	7102344	2479384
2012-SL-2	7102486	2479521
2012-SL-3	7102515	2479698
2013-AD-1	7101896	2480808
2013-AD-2	7101914	2480990
2013-AD-2A	7101931	2481017
2013-B4R-A	7101415	2479943
2013-BB-1	7102007	2480117
2013-BSA-6	7102201	2480652
2013-BSA-7	7102251	2480716
2013-BSB-1	7102047	2479712
2013-BSB-2	7102035	2479771
2013-BSB-3	7102030	2479798
2013-BSB-4	7102020	2479815
2013-BSB-5	7102021	2479781
2013-BSB-6	7102031	2479850
2013-BSB-7	7102021	2479830
2013-BSB-8	7102045	2479812
2013-BSB-9	7102065	2479812
2013-BSB-10	7102050	2479884
2013-CUFT-10	7101931	2478954
2013-CUFT-3	7101738	2479345
2013-CUFT-4	7101889	2479303
2013-CUFT-5	7101906	2479178
2013-CUFT-6	7101911	2479083
2013-CUFT-7	7101923	2478975
2013-CUFT-7A	7101908	2478965
2013-CUFT-8	7101684	2479346
2013-CUFT-9	7101762	2479324
2013-FOP-1	7101872	2480549
2012-FWCS-1A	7102026	2479671
2013-FWCS-1B	7102016	2479669
2013-FWFS-1A	7101951	2479776
2013-MB-1	7101769	2480379

Table A23-1

Coordinate Data Summary
SIR and APAR Soil Sample and Surface Water/Sediment Sample Locations

Location ID	Northing	Easting
2013-MB-2	7101790	2480309
2013-MW10-1	7101995	2480989
2013-MW10-2	7101953	2480966
2013-MW10-3	7101989	2480897
2013-MW-17A	7102073	2479607
2013-RMSA-5	7101857	2480261
2013-RMSA-6	7101796	2480248
2013-RMSA-7	7101813	2480272
2013-RMSB-1	7101910	2480143
2013-RMSB-2	7101911	2480173
2013-RMSB-3	7101921	2480185
2013-RMSB-4	7101919	2480206
2013-RMSB-5	7101878	2480144
2013-RMSB-6	7101880	2480175
2013-RMSB-7	7101881	2480206
2013-RMSB-8	7101841	2480147
2013-RMSB-9	7101851	2480176
2013-RMSB-10	7101844	2480209
2013-RO-1	7102104	2479578
2013-RO-2	7102126	2479562
2013-RO-3	7102105	2479557
2013-RRS-3A	7102074	2480071
2013-RRS-4A	7102061	2480184
2013-SDA-3A	7101577	2480331
2013-SDA-4A	7101588	2480228
2013-SL-4	7102264	2479415
2013-STB-1	7101857	2480007
2013-STB-2	7101810	2480060
2013-STB-3	7101843	2480095
2013-STB-4	7101764	2480125
2013-STB-5	7101810	2480039
2013-STB-6	7101799	2480031
2013-STB-7	7101819	2480034
2013-STB-8	7101853	2479990
2013-STB-9	7101812	2479996
2013-STB-10	7101832	2479972
2013-STB-11	7101768	2480095
2013-STB-12	7101781	2480016
2013-TS-1	7102097	2480985
2013-TS-2	7102253	2480977
2013-WMU14-1	7101992	2479881
2013-WMU14-2	7101826	2480109
2013-WMU14-3	7102021	2480631
2013-WMU16-1	7101886	2480415
2013-WMU17-1	7102328	2479645

Table A23-1

Coordinate Data Summary
SIR and APAR Soil Sample and Surface Water/Sediment Sample Locations

Location ID	Northing	Easting
2013-WMU17-2	7102359	2479608
2013-WMU6-1	7101955	2479994
BS2/BS-2	7101513	2480178
BS3/BS-3	7101491	2480215
BS5/BS-5	7101472	2480114
D-11	7102885	2480148
D-12	7102903	2480324
D-13	7102912	2480533
D-14	7102922	2480738
D-15	7102934	2480891
E-11	7102766	2480144
E-11A	7102808	2480069
E-11B	7102810	2480025
E-12	7102779	2480324
E-13	7102785	2480532
E-14	7102785	2480740
E-15	7102789	2480893
E-15A	7102787	2480940
ECO-1	7101378	2481004
ECO-2	7101283	2481006
ECO-3	7101296	2480817
ECO-4	7101170	2480822
ECO-5	7101456	2480753
ECO-6	7101325	2480601
ECO-7	7101179	2480616
ECO-7A	7101171	2480616
ECO-7B	7101169	2480617
ECO-8	7101519	2480460
ECO-9	7101336	2480436
ECO-10	7101188	2480411
ECO-11	7102588	2480248
ECO-12	7102509	2480907
F-4	7102498	2478704
F-5	7102506	2478851
G-4	7102306	2478654
G4-2	7102306	2478726
G-5	7102314	2478858
G-6	7102321	2479003
H-3	7102091	2478502
H-4	7102117	2478642
H4-2	7102190	2478643
H-5	7102108	2478861

Table A23-1

Coordinate Data Summary
SIR and APAR Soil Sample and Surface Water/Sediment Sample Locations

Location ID	Northing	Easting
H5-2	7102190	2478829
SB-VS-1	7101204	2480012
SB-VS-2	7101204	2480038
SCC-1	7101615	2480808
SCC-2	7101587	2480643
SCC-3	7101667	2480461
SCC-3A	7101642	2480461
SCC-4	7101635	2480261
SCC-5	7101681	2480057
SCC-6	7101806	2479940
SCC-7	7101888	2479772
SCC-8	7102032	2479666
SCC-9	7102060	2479550
SCC-10	7102157	2479519
SCC-10A	7102143	2479513
SCC-11	7102320	2479302
SCC-11A	7102284	2479298
SCC-12	7102415	2479175
SCC-13	7102540	2479020
SCC-14	7102630	2478907
SCC-15	7102753	2478750
SRB-VS-1	7101345	2479944
SRB-VS-2	7101305	2479958
SRB-VS-3	7101268	2479965
SRB-VS-4	7101231	2479973
SRB-VS-5	7101342	2479922
SRB-VS-6	7101302	2479921
SRB-VS-7	7101265	2479928
SRB-VS-8	7101228	2479938
SRB-VS-9	7101362	2479938
SRB-VS-9A	7101374	2479937
SRB-VS-9B	7101360	2479915
SRB-VS-9C	7101389	2479912
SRB-VS-10	7101301	2479913
SRB-VS-11	7101212	2479934
Sediment and Surface Water Sample Locations		
2012-SED/SW-1	7102703	2478733
2012-SED/SW-2	7102611	2478876
2012-SED/SW-3	7102438	2479073

Table A23-1

Coordinate Data Summary
SIR and APAR Soil Sample and Surface Water/Sediment Sample Locations

Location ID	Northing	Easting
2012-SED/SW-4	7102268	2479293
2012-SED/SW-5	7102120	2479505
2012-SED/SW-6	7101898	2479807
2012-SED/SW-7	7101823	2479899
2012-SED/SW-8	7101716	2480025
2012-SED/SW-9	7101656	2480206
2012-SED/SW-10	7101633	2480422
2012-SED/SW-11	7101623	2480599
2012-SED/SW-12	7101570	2480832
2012-SED/SW-13	7101526	2481023
2012-SED/SW-14	7101533	2481101
2012-SED/SW-15	7101496	2481175
2012-SED-16/SW-NT-1	7102485	2479310
2012-SED-17/SW-NT-2	7102524	2479437
2012-SED-18/SW-NT-3	7102552	2479564
2012-SED-19/SW-NT-4	7102605	2479764
2012-SED-20/SW-NT-5	7102644	2479998
2012-SED-21/SW-NT-6	7102681	2480214
2012-SED-22/SW-NT-7	7102676	2480365
2012-SED-23/SW-NT-8	7102653	2480575
2012-SED-24/SW-NT-9	7102611	2480779
2012-SED-25/SW-NT-10	7102634	2480926

Notes:
1. Coordinate System: Texas State Plane North Central Zone, NAD 83, units in feet.

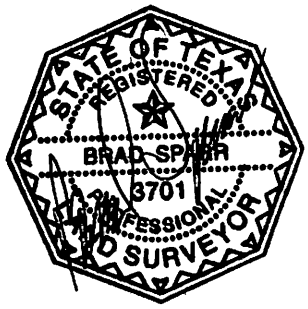
EXIDE FRISCO
MONITORING WELL LOCATIONS

Pt N	NORTHING	EASTING	ELEV	DESCRIPTION
768	7103357.922	2480030.327	645.20	C/L PMW 20-R
769	7103357.924	2480030.208	648.09	TOP PIPE PMW 20-R
770	7103204.288	2480099.741	645.11	GROUND LMW-21
771	7103205.976	2480099.796	648.28	TOP PIPE LMW-21
772	7102925.899	2480000.561	640.80	CL VCP-MW-5
773	7102925.859	2480000.584	643.97	T/P VCP-MW-5
774	7102974.822	2479831.621	639.47	GROUND MW-28
775	7102977.699	2479831.956	642.91	TOP PIPE MW-28
776	7102521.052	2479285.077	632.18	C/L VCP-MW-4
777	7102521.104	2479285.024	635.43	TOP PIPE VCP-MW-4
778	7102743.490	2478984.765	631.34	C/L VCP-MW-3
779	7102743.574	2478984.514	634.06	TOP PIPE VCP-MW-3
780	7102132.894	2479613.608	639.62	C/L MW-24
781	7102133.032	2479613.431	642.96	TOP PIPE MW-24
782	7102440.929	2480045.001	633.29	GROUND MW-22
783	7102440.565	2480046.673	636.89	TOP PIPE MW-22
784	7102888.799	2480355.078	643.32	GROUND LMW-22
785	7102891.283	2480355.466	646.99	TOP PIPE LMW-22
786	7103664.230	2480920.355	678.45	C/L PMW-19R
787	7103664.081	2480920.374	681.79	TOP PIPE PMW-19R
788	7103251.861	2479834.924	641.10	GROUND VPC-MW-6
789	7103251.552	2479837.080	644.71	TOP PIPE VPC-MW-6
790	7102517.106	2480489.998	633.66	GROUND MW-21
791	7102518.898	2480490.825	635.99	TOP PIPE MW-21
792	7102124.925	2480769.472	644.32	C/L MW-23
793	7102124.843	2480769.439	644.15	TOP PIPE MW-23
794	7101502.004	2479866.950	652.99	C/L VCP MW-1
795	7101501.958	2479866.984	655.88	TOP PIPE VCP MW-1
796	7101872.478	2479265.912	627.74	C/L VCP MW-2
797	7101872.309	2479265.877	631.16	TOP PIPE VCP MW-2
798	7101675.234	2480260.288	633.42	TOP PIPE MW 27
799	7101740.888	2480041.214	629.39	GROUND MW 29
800	7101741.683	2480041.870	633.51	TOP PIPEMW 29

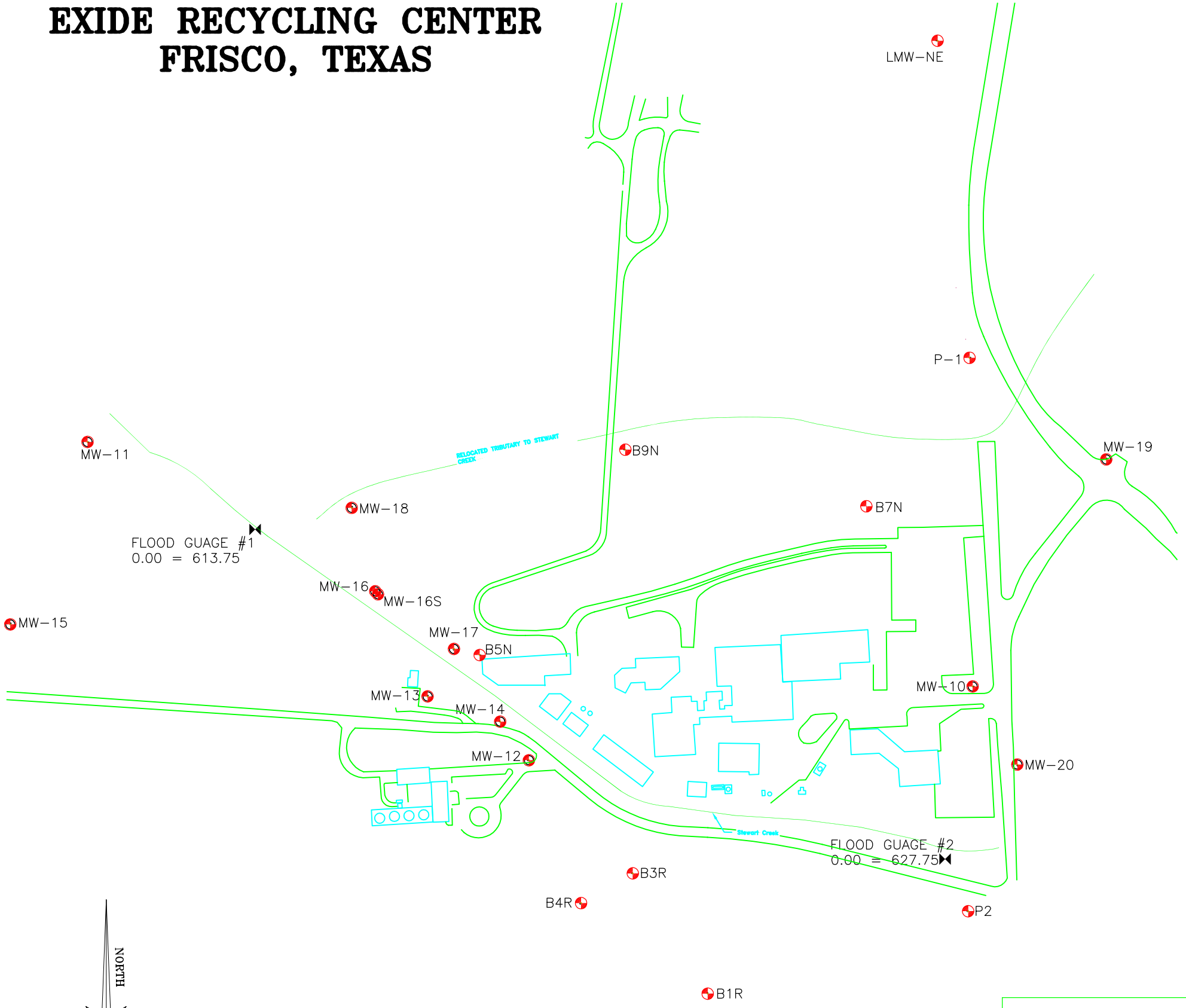
EXIDE FRISCO
MONITORING WELL LOCATIONS

801	7101864.272	2479875.018	628.34	GROUND MW 26
802	7101865.003	2479876.330	631.93	TOP PIPE MW 26
803	7101674.139	2480259.450	629.89	GROUND MW 27
804	7101782.637	2479376.745	633.36	C/L MW 25
805	7101782.199	2479376.889	635.85	TOP PIPE MW 25
806	7102884.405	2481077.477	648.10	C/L VCP-MW-8
807	7102884.374	2481077.573	651.02	T/P VCP-MW-8
808	7103297.437	2481042.574	664.31	C/L VCP-MW-9
809	7103297.519	2481042.415	666.96	T/P VCP-MW-9
810	7103274.841	2481266.033	667.11	C/L VCP-MW-10
811	7103274.856	2481265.991	669.74	T/P VCP-MW-10
812	7103365.104	2481418.387	670.15	C/L VCP-MW-11
813	7103365.270	2481418.215	672.73	T/P VCP-MW-11
814	7100967.289	2481078.800	683.12	C/L VCP-MW-7
815	7100967.046	2481078.613	685.18	T/P VCP-MW-7
816	7102086.254	2480011.038	645.48	C/L MW 30
817	7102086.189	2480011.057	645.15	T/P MW 30
818	7102002.161	2479800.308	637.17	C/L MW 31
819	7102001.982	2479800.401	636.71	T/P MW 31
820	7101544.778	2480891.580	627.62	STAFF GUAGE 1 @ 0
821	7102407.027	2479088.298	613.53	STAFF GUAGE 2 @ 0

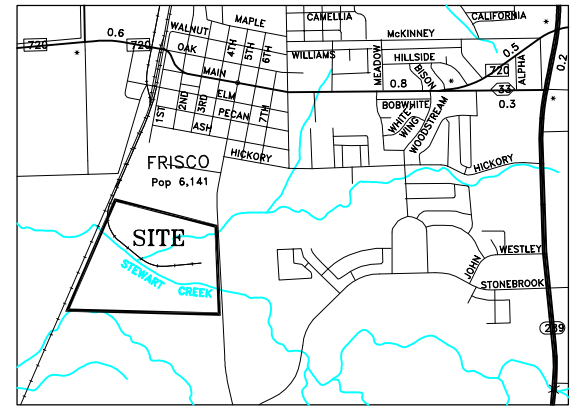
The information shown hereon represents the findings of field surveys performed on March 11, 2013, April 19, 2013 and May 16, 2013. All data is based on Texas State Plane Coordinates, North Central Zone, NAD 83, NAVD 88. The northing and eastings are displayed as grid vales and can be adjusted to surface values by applying a scale factor of 1.000152710.



EXIDE RECYCLING CENTER
FRISCO, TEXAS



LOCATION MAP
NOT TO SCALE



LATITUDE, LONGITUDE AND ELEVATION TABLE FOR MONITOR WELLS WGS 84, NAD 83, NAVD 88

WELL #	LATITUDE (N)	LONGITUDE (W)	VAULT RIM	CASING (PVC)	GROUND ELEV.	NORTHING	EASTING
P-1	33°08'34.774319"	96°49'32.221834"	648.00	647.24	646.17	7102854.56	2480957.13
P2	33°08'20.466562"	96°49'32.531961"	644.67	643.55	642.47	7101408.36	2480953.81
B1R	33°08'18.442320"	96°49'40.583006"	683.13	682.72	682.47	7101192.92	2480272.63
B3R	33°08'21.581970"	96°49'42.824255"	650.94	650.23	648.82	7101507.14	2480077.05
B4R	33°08'20.834694"	96°49'44.427021"	665.11	664.58	661.19	7101429.46	2479941.99
B5N	33°08'27.290308"	96°49'47.426341"	631.57	631.43	629.61	7102077.74	2479676.64
B7N	33°08'30.978022"	96°49'35.465398"	646.02	645.60	643.57	7102466.56	2480687.51
B9N	33°08'32.540611"	96°49'42.847212"	641.25	640.69	636.83	7102614.47	2480057.47
LMW-NE	33°08'42.987876"	96°49'33.051357"	679.38	678.74	677.22	7103683.41	2480873.39
MW-10	33°08'26.275290"	96°49'32.287366"	645.50	644.82	645.31	7101995.66	2480965.25
MW-11	33°08'32.960168"	96°49'59.376183"	626.98	626.54	623.89	7102634.53	2478651.68
MW-12	33°08'24.552146"	96°49'45.961447"	635.94	635.16	633.89	7101803.03	2479805.57
MW-13	33°08'26.238529"	96°49'49.045363"	638.09	637.08	635.85	7101969.27	2479540.70
MW-14	33°08'25.560244"	96°49'46.824500"	632.23	631.01	629.72	7101903.73	2479730.58
MW-15	33°08'28.274428"	96°50'01.840328"	626.80	626.58	624.50	7102157.72	2478449.72
MW-16	33°08'28.983849"	96°49'50.604292"	629.12	628.88	626.68	7102244.57	2479403.76
MW-16S	33°08'28.903521"	96°49'50.521322"	628.65	628.00	626.69	7102236.57	2479410.94
MW-17	33°08'27.456435"	96°49'48.212288"	630.10	629.00	627.66	7102093.46	2479609.56
MW-18	33°08'31.148356"	96°49'51.285772"	633.83	633.00	631.49	7102462.37	2479342.35
MW-19	33°08'32.090926"	96°49'28.067120"	653.91	653.34	650.33	7102589.04	2481314.64
MW-20	33°08'24.238104"	96°49'30.950185"	645.22	644.70	641.73	7101791.62	2481082.21

FLOOD GAUGE TABLE NAD 83 GRID COORDINATES TEXAS NORTH CENTRAL ZONE No. 4204

GAUGE #	LATITUDE (N)	LONGITUDE (W)	ELEVATION OF 0.00'	NORTHING	EASTING
GAUGE#1	33°08'30.631162"	96°49'54.264392"	613.75	7102406.09	2479089.97
GAUGE#2	33°08'21.822437"	96°49'33.217825"	627.75	7101544.44	2480893.32

NORTH

SCALE 1" = 300'

0 300' 600'

LEGEND
- MONITOR WELL
- CHAIN LINK FENCE
- BARB WIRE FENCE
- BUILDINGS

PREPARED JANUARY 18, 2012

NOTE: ROADS, BUILDINGS AND CREEKS ON THIS MAP WERE LOCATED BY OTHERS AND NOT A PART OF THIS SURVEY. THESE ITEMS ARE FOR REFERENCE ONLY.

NOTE: ALL COORDINATES ARE GRID COORDINATES BASED ON NAD 83, TEXAS NORTH CENTRAL ZONE No. 4204, NAVD 88 WITH LATITUDE AND LONGITUDE BEING WGS 84

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EXHIBIT MAP OF

MONITOR WELL LOCATIONS EXIDE RECYCLING CENTER

NORTH

SCALE 1"=300'

(PRB) EXIDE\EXIDE.DWG

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