



December 2, 2005

Mr. Todd Fryzek  
SEH, Inc.  
3535 Vadnais Center Drive  
St. Paul, Minnesota 55110

Dear Mr. Fryzek:

Please find enclosed field sampling parameters, List C, and List D laboratory and Quality Control reports for sampling conducted at Cliffs Erie pits, Hill Annex, Canisteo and Lind-Greenway mine pits, Holman and Upper Penasa lakes, and below the Praire River Dam.

The field work was completed between Monday November 7<sup>th</sup> and Friday November 11<sup>th</sup>. Monday was spent finding access to the pits at Cliffs Erie and sampling Pit 2. On Tuesday the field sampling was completed at Cliffs Erie Pit 6 and Praire River. Wednesday sampling was called off due to high winds. Sampling resumed on Thursday with the Hill Annex and Canisteo mine pits completed. The Lind-Greenway pits, Holman and Upper Penasa lakes were completed on Friday. The weather was 35°F and breezy Monday and Tuesday, turning very cold and windy Wednesday, then warm and sunny Thursday and Friday with temperatures in the mid 50s°F.

The sampling was accomplished with a portable whale pump and 50 feet of polyethylene hose. At each location requiring two samples, a depth/ dissolved oxygen (DO) profile was performed first using an In-Situ Troll 9000 Professional XP Water Quality Monitor to determine the depth of the thermocline, with the sampling event taking place shortly thereafter starting with the 2 foot sample and then the 50 foot, or subthermocline, sample. Field data collection, decontamination and chain of custody procedures followed our SOPs. The Low Level Mercury (LLHg) samples were collected using EPA Method 1669 and were field filtered for dissolved metals. It should be noted that chlorophyll a tests were put on hold as per SEH request, however, we still maintain the samples if you desire these tests run.

If you have any questions please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Rick Crum", is written over a white background.

Rick Crum, PG  
Division Manager  
NTS, Inc.

Enclosures  
Cc w/enc:

Bob Evans, Excelsior Energy  
Ward Swanson, Barr Engineering

CE Pit 6A

Date	Time	ET (sec)	Chan[1] Temperatu Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH	Chan[25] Clark DO milligrams/ microStem- feet	Chan[45] Conductivil Depth	Reading
11/8/2005	12:05:37	0	5.84	28.601	9.3	2.941	-34	8.65	3.87	598.95	48
11/8/2005	12:05:47	10	5.84	28.601	2.1	2.941	-33	8.66	3.77	599.1	48
11/8/2005	12:05:57	20	5.83	28.602	11.6	2.941	-32	8.67	3.67	597.6	49
11/8/2005	12:06:07	30	5.87	28.603	0.1	2.915	-32	8.68	3.5	598.95	50
11/8/2005	12:06:17	40	5.9	28.602	0.1	2.915	-33	8.78	3.43	599.25	49
11/8/2005	12:06:27	50	5.98	28.601	0.1	2.915	-32	8.79	3.45	607.33	48
11/8/2005	12:06:37	60	6.14	28.601	0.1	2.915	-32	8.82	3.57	602.88	48
11/8/2005	12:06:47	70	6.42	28.598	0.1	2.915	-32	8.86	3.78	608.73	45
11/8/2005	12:06:57	80	7.02	28.597	0.1	2.915	-32	8.9	4.27	613.9	44
11/8/2005	12:07:07	90	7.3	28.596	0.1	2.941	-31	8.93	4.87	620.77	43
11/8/2005	12:07:17	100	8.73	28.596	0	2.915	-31	8.97	5.69	566.25	43
11/8/2005	12:07:27	110	8.79	28.589	0	2.915	-29	9.02	8.66	566.05	38
11/8/2005	12:07:32	115	8.8	28.589	0	2.915	-29	9.05	9.47	565.98	38
11/8/2005	12:07:37	120	8.8	28.586	0	2.941	-29	9.09	9.93	565.98	35
11/8/2005	12:07:47	130	8.79	28.581	0	2.915	-29	9.12	10.35	566.05	30
11/8/2005	12:07:52	135	8.8	28.578	0	2.941	-29	9.16	10.48	565.85	27
11/8/2005	12:07:57	140	8.8	28.575	0.1	2.941	-29	9.19	10.63	565.72	24
11/8/2005	12:08:07	150	8.8	28.567	0	2.915	-28	9.23	10.78	565.58	22
11/8/2005	12:08:12	155	8.8	28.563	0	2.941	-29	9.27	10.98	565.59	20
11/8/2005	12:08:17	160	8.8	28.558	0	2.941	-29	9.3	11.04	565.59	18
11/8/2005	12:08:27	170	8.8	28.548	0	2.941	-29	9.34	11.1	565.72	16
11/8/2005	12:08:32	175	8.8	28.544	0	2.941	-29	9.38	11.13	565.72	14
11/8/2005	12:08:37	180	8.8	28.544	0	2.941	-29	9.41	11.16	565.73	12
11/8/2005	12:08:47	190	8.8	28.54	0	2.915	-29	9.45	11.2	565.79	10
11/8/2005	12:08:57	200	8.8	28.536	0	2.915	-29	9.46	11.2	565.73	8
11/8/2005	12:09:02	205	8.81	28.533	0.1	2.915	-29	9.53	11.24	565.8	6
11/8/2005	12:09:07	210	8.8	28.531	0	2.941	-29	9.56	11.2	565.73	4
11/8/2005	12:09:17	220	8.81	28.524	0.4	2.915	-29	9.64	11.23	565.53	2

## Cliffs Erie Pit 6B

Date	Time	ET (sec)	Chan[1] Temperatu Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO milligrams/ microSiem:	Chan[45] Conductivi Depth	Reading Depth feet
11/8/2005	12:18:41	0	5.64	28.592	6.4	2.941	-29	8.79	2.5	599.75	86
11/8/2005	12:18:46	5	5.65	28.592	6.6	2.941	-29	8.8	2.48	600.05	86
11/8/2005	12:18:51	10	5.65	28.593	5.2	2.941	-29	8.83	2.46	599.9	87
11/8/2005	12:18:56	15	5.66	28.593	5.3	2.915	-28	8.9	2.45	600.12	87
11/8/2005	12:19:01	20	5.6	28.592	138	2.915	-27	8	2.41	597.42	86
11/8/2005	12:19:06	25	5.62	28.59	10.2	2.915	-27	8.97	2.39	598.46	84
11/8/2005	12:19:11	30	5.61	28.592	0.1	2.889	-28	9.02	2.39	597.71	86
11/8/2005	12:19:16	35	5.69	28.589	0.3	2.941	-28	8.78	2.38	597.04	83
11/8/2005	12:19:21	40	5.71	28.59	0.1	2.915	-28	8.79	2.42	597.11	84
11/8/2005	12:19:26	45	6.03	28.588	0.1	2.915	-27	8.8	2.51	600.27	82
11/8/2005	12:19:31	50	6.42	28.587	0.1	2.941	-27	8.8	2.8	607.53	81
11/8/2005	12:19:36	55	6.67	28.586	0.1	2.915	-27	8.81	3.24	611.97	80
11/8/2005	12:19:41	60	6.84	28.586	0.1	2.915	-26	8.82	3.73	611.11	80
11/8/2005	12:19:46	65	6.94	28.583	0.1	2.941	-26	8.83	4.21	612.36	77
11/8/2005	12:19:51	70	6.98	28.581	0.1	2.941	-26	8.83	4.56	613.15	75
11/8/2005	12:19:56	75	7.61	28.581	0.1	2.915	-26	8.84	4.71	625.77	75
11/8/2005	12:20:01	80	8.19	28.583	0	2.915	-29	8.85	4.91	570.68	77
11/8/2005	12:20:06	85	8.72	28.583	0.1	2.941	-27	8.85	5.65	565.14	77
11/8/2005	12:20:11	90	8.76	28.58	0	2.941	-26	8.86	7.3	564.74	74
11/8/2005	12:20:16	95	8.77	28.572	0	2.889	-26	8.87	8.6	564.61	65
11/8/2005	12:20:21	100	8.79	28.571	0	2.915	-26	8.88	9.41	564.67	64
11/8/2005	12:20:26	105	8.79	28.566	0	2.941	-26	8.88	9.9	564.61	59
11/8/2005	12:20:31	110	8.79	28.563	0	2.889	-25	8.89	10.23	564.67	56
11/8/2005	12:20:36	115	8.79	28.561	0	2.915	-25	8.9	10.38	564.67	54
11/8/2005	12:20:41	120	8.79	28.561	0	2.889	-25	8.9	10.51	564.67	54
11/8/2005	12:20:46	125	8.79	28.555	0	2.941	-26	8.91	10.58	564.67	48
11/8/2005	12:20:51	130	8.78	28.554	0	2.941	-26	8.92	10.61	564.61	47
11/8/2005	12:20:56	135	8.79	28.551	0	2.941	-26	8.93	10.66	564.68	44
11/8/2005	12:21:01	140	8.8	28.548	0	2.915	-26	8.93	10.7	564.68	41
11/8/2005	12:21:06	145	8.79	28.543	0.1	2.915	-26	8.94	10.7	564.68	36
11/8/2005	12:21:11	150	8.79	28.54	0	2.915	-26	8.95	10.72	564.61	33
11/8/2005	12:21:16	155	8.79	28.536	0	2.915	-26	8.95	10.72	564.54	29
11/8/2005	12:21:21	160	8.79	28.533	0	2.941	-26	8.96	10.74	564.68	26

11/8/2005	12:21:26	165	8.8	28.531	0	2.915	-27	8.97	10.71	564.68	24
11/8/2005	12:21:31	170	8.8	28.527	0	2.915	-27	8.98	10.76	564.68	20
11/8/2005	12:21:36	175	8.8	28.525	0	2.941	-27	8.98	10.82	564.55	18
11/8/2005	12:21:41	180	8.8	28.523	0	2.941	-27	8.99	10.8	564.68	16
11/8/2005	12:21:46	185	8.79	28.52	0	2.915	-27	9	10.82	564.68	14
11/8/2005	12:21:51	190	8.8	28.516	0	2.941	-27	9	10.86	564.62	8
11/8/2005	12:21:56	195	8.79	28.513	0	2.941	-27	9	10.88	564.68	5
11/8/2005	12:22:01	200	8.79	28.509	0	2.889	-26	9	10.91	564.55	1

CE Pit 2A

Date	Time	ET (sec)	Chan[1] Temperatu Celcius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH	Chan[25] Clark DO milligrams/ microSiem <sup>3</sup> /feet	Chan[45] Conductivil Depth	Reading
11/8/2005	13:11:31	0	8	28.564	0	2.941	-29	8.03	3.79	2047.89	100
11/8/2005	13:11:36	5	7.99	28.564	0	2.941	-29	8.03	2.07	2047.89	100
11/8/2005	13:11:41	10	7.99	28.563	0	2.915	-29	8.03	2.04	2047.9	99
11/8/2005	13:11:46	15	7.99	28.563	0	2.915	-29	8.03	2.03	2047.03	99
11/8/2005	13:11:51	20	7.99	28.563	0	2.915	-29	8.03	2.03	2047.04	99
11/8/2005	13:11:56	25	7.99	28.563	0	2.941	-29	8.04	2.06	2047.04	99
11/8/2005	13:12:01	30	7.99	28.563	0.1	2.915	-29	8.04	2.01	2047.05	99
11/8/2005	13:12:06	35	7.99	28.563	0	2.941	-29	8.05	2	2047.93	99
11/8/2005	13:12:11	40	7.99	28.563	0	2.915	-29	8.06	1.99	2047.94	99
11/8/2005	13:12:16	45	7.99	28.563	0	2.941	-29	8.07	1.97	2046.19	99
11/8/2005	13:12:21	50	7.99	28.559	0	2.941	-29	8.09	1.99	2047.96	96
11/8/2005	13:12:26	55	7.99	28.56	0	2.915	-29	8.09	1.98	2047.09	96
11/8/2005	13:12:31	60	7.99	28.557	0.1	2.915	-29	8.1	1.97	2036.61	92
11/8/2005	13:12:36	65	7.99	28.556	0	2.941	-29	8.1	1.96	2033.15	91
11/8/2005	13:12:41	70	8	28.556	0	2.941	-29	8.1	1.95	2032.29	91
11/8/2005	13:12:46	75	7.99	28.554	0.1	2.941	-29	8.1	1.93	2033.16	89
11/8/2005	13:12:51	80	7.98	28.553	0	2.941	-29	8.1	1.93	2004.99	88
11/8/2005	13:12:56	85	7.94	28.549	0	2.915	-28	8.1	1.93	1969.42	84
11/8/2005	13:13:01	90	7.88	28.546	0	2.941	-27	8.11	1.93	1932.74	81
11/8/2005	13:13:06	95	7.78	28.542	0	2.915	-27	8.11	1.94	1906.5	77
11/8/2005	13:13:11	100	7.76	28.54	0	2.941	-27	8.11	1.93	1896.66	75
11/8/2005	13:13:16	105	7.71	28.536	0	2.889	-27	8.11	1.93	1872.85	71
11/8/2005	13:13:21	110	7.7	28.535	0	2.915	-27	8.12	1.92	1875.8	70
11/8/2005	13:13:26	115	7.67	28.533	0.1	2.941	-27	8.12	1.93	1847.49	68
11/8/2005	13:13:31	120	7.65	28.532	0	2.941	-27	8.12	1.92	1847.49	67
11/8/2005	13:13:36	125	7.63	28.533	0	2.941	-27	8.12	1.97	1830.49	68
11/8/2005	13:13:41	130	7.58	28.527	0	2.941	-27	8.12	1.93	1822.81	63
11/8/2005	13:13:46	135	7.54	28.523	0	2.941	-27	8.12	1.92	1794.04	59
11/8/2005	13:13:51	140	7.52	28.522	0.1	2.915	-27	8.12	1.93	1770.09	58
11/8/2005	13:13:56	145	7.45	28.518	0	2.941	-27	8.12	1.93	1733.45	54
11/8/2005	13:14:01	150	7.42	28.515	0	2.889	-27	8.12	1.92	1732.19	51
11/8/2005	13:14:06	155	7.4	28.513	0	2.941	-27	8.13	1.93	1701.33	49
11/8/2005	13:14:11	160	7.38	28.512	0	2.915	-27	8.13	1.92	1703.15	48

11/8/2005	13:14:16	165	7.35	28.511	0	2.915	-26	8.13	1.92	1681.55	47
11/8/2005	13:14:21	170	7.35	28.508	0.1	2.915	-27	8.14	1.94	1651.3	44
11/8/2005	13:14:26	175	7.35	28.508	0.1	2.941	-27	8.15	1.95	1641.65	44
11/8/2005	13:14:31	180	7.36	28.504	0.1	2.941	-27	8.15	2	1606.83	40
11/8/2005	13:14:36	185	7.37	28.503	0.1	2.889	-27	8.14	2.07	1607.38	39
11/8/2005	13:14:41	190	7.37	28.501	0.1	2.915	-27	8.14	2.13	1592.36	37
11/8/2005	13:14:46	195	7.43	28.499	0.1	2.915	-26	8.13	2.19	1579.71	35
11/8/2005	13:14:51	200	7.44	28.497	0.1	2.889	-26	8.13	2.29	1579.72	33
11/8/2005	13:14:56	205	7.7	28.497	0.1	2.941	-27	8.13	2.29	1563.16	33
11/8/2005	13:15:01	210	7.73	28.495	0.1	2.941	-27	8.14	2.36	1564.19	32
11/8/2005	13:15:06	215	8.1	28.494	0.1	2.941	-27	8.16	2.44	1550.47	31
11/8/2005	13:15:11	220	8.26	28.493	0.1	2.915	-27	8.17	2.61	1342.83	30
11/8/2005	13:15:16	225	7.87	28.488	0.2	2.941	-27	8.17	3.29	1256.24	25
11/8/2005	13:15:21	230	7.86	28.487	0.2	2.889	-26	8.17	5.21	1254.26	24
11/8/2005	13:15:26	235	7.85	28.482	0.2	2.915	-26	8.18	6.85	1253.6	19
11/8/2005	13:15:31	240	7.85	28.478	0.2	2.941	-26	8.22	8.17	1253.6	15
11/8/2005	13:15:36	245	7.86	28.477	0.2	2.889	-26	8.23	9.04	1252.94	14
11/8/2005	13:15:41	250	7.85	28.476	0.2	2.941	-26	8.24	9.49	1253.28	13
11/8/2005	13:15:46	255	7.85	28.476	0.2	2.915	-26	8.25	9.73	1253.61	13
11/8/2005	13:15:51	260	7.85	28.475	0.2	2.941	-26	8.58	9.95	1252.95	12
11/8/2005	13:15:56	265	7.85	28.472	0.2	2.889	-26	8.71	10.18	1253.28	9
11/8/2005	13:16:01	270	7.85	28.469	0.2	2.941	-26	8.72	10.4	1253.28	6
11/8/2005	13:16:06	275	7.85	28.471	0.2	2.915	-26	8.72	10.59	1252.95	8
11/8/2005	13:16:11	280	7.85	28.468	0.2	2.915	-26	8.71	10.67	1253.28	5
11/8/2005	13:16:16	285	7.85	28.465	0.2	2.941	-26	8.7	10.71	1253.28	3
11/8/2005	13:16:21	290	7.85	28.464	0.2	2.915	-26	8.7	10.79	1253.29	2
11/8/2005	13:16:26	295	7.85	28.463	0.2	2.915	-26	8.7	10.83	1253.62	1
11/8/2005	13:16:31	300	7.86	28.462	0.2	2.915	-26	8.69	10.88	1253.62	1

CE Pit 2B	Date	Time	ET (sec)	Chan[1] Temperatu Celsius	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH	Chan[25] Clark DO milligrams/ microSiem <sup>2</sup> /feet	Chan[45] Conductivit Depth	Reading
	11/8/2005	13:20:59	0	8.06	28.559	0	2.915	-28	8.27	3.08	2046.39	100
	11/8/2005	13:21:04	5	8.06	28.559	0	2.915	-27	8.28	2.99	2047.27	100
	11/8/2005	13:21:09	10	8.06	28.559	0	2.941	-27	8.28	2.91	2044.65	100
	11/8/2005	13:21:14	15	8.07	28.559	0	2.941	-27	8.24	2.84	2044.65	100
	11/8/2005	13:21:19	20	8.06	28.558	0	2.941	-27	8.26	2.77	2047.28	99
	11/8/2005	13:21:24	25	8.06	28.555	0	2.941	-27	8.27	2.73	2047.29	96
	11/8/2005	13:21:29	30	8.05	28.554	0.1	2.915	-27	8.3	2.67	2049.05	95
	11/8/2005	13:21:34	35	8.05	28.555	0	2.915	-27	8.31	2.64	2036.82	96
	11/8/2005	13:21:39	40	8.05	28.551	0.1	2.941	-27	8.31	2.6	2008.54	92
	11/8/2005	13:21:44	45	8.02	28.547	0	2.941	-26	8.32	2.55	1999.29	88
	11/8/2005	13:21:49	50	7.95	28.543	0	2.941	-26	8.3	2.52	1960.69	84
	11/8/2005	13:21:54	55	7.93	28.54	0	2.941	-26	8.31	2.48	1945.51	81
	11/8/2005	13:21:59	60	7.87	28.537	0	2.915	-25	8.32	2.46	1905.9	78
	11/8/2005	13:22:04	65	7.84	28.536	0	2.941	-25	8.33	2.46	1901.34	75
	11/8/2005	13:22:09	70	7.78	28.533	0	2.915	-25	8.37	2.42	1881.12	72
	11/8/2005	13:22:14	75	7.71	28.53	0	2.889	-26	8.37	2.39	1857.69	69
	11/8/2005	13:22:19	80	7.71	28.527	0	2.915	-26	8.38	2.37	1854.81	66
	11/8/2005	13:22:24	85	7.65	28.524	0.1	2.941	-25	8.39	2.34	1829.92	63
	11/8/2005	13:22:29	90	7.61	28.521	0	2.889	-24	8.4	2.32	1809.11	60
	11/8/2005	13:22:34	95	7.56	28.517	0.1	2.941	-24	8.59	2.31	1779.44	56
	11/8/2005	13:22:39	100	7.5	28.512	0	2.889	-24	8.83	2.29	1755.88	53
	11/8/2005	13:22:44	105	7.49	28.509	0.1	2.915	-24	8.83	2.27	1732.3	50
	11/8/2005	13:22:49	110	7.45	28.508	0.1	2.941	-24	8.83	2.25	1714.26	49
	11/8/2005	13:22:54	115	7.39	28.504	0.1	2.915	-25	8.84	2.23	1637.79	45
	11/8/2005	13:22:59	120	7.4	28.499	0.1	2.889	-25	8.83	2.24	1600.45	40
	11/8/2005	13:23:04	125	7.42	28.496	0.1	2.915	-25	8.85	2.3	1589.26	37
	11/8/2005	13:23:09	130	7.43	28.493	0.1	2.941	-25	8.84	2.4	1592.97	34
	11/8/2005	13:23:14	135	7.43	28.491	0.1	2.941	-25	8.83	2.49	1577.18	32
	11/8/2005	13:23:19	140	7.58	28.49	0.1	2.941	-25	8.81	2.54	1569.92	31
	11/8/2005	13:23:24	145	8.01	28.49	0.1	2.941	-24	8.79	2.49	1562.72	31
	11/8/2005	13:23:29	150	7.82	28.488	0.1	2.941	-24	8.8	2.67	1562.72	28
	11/8/2005	13:23:34	155	7.7	28.488	0.1	2.941	-24	8.81	2.77	1562.72	28
	11/8/2005	13:23:39	160	8.06	28.486	0.1	2.889	-25	8.74	2.79	1532.13	26

11/8/2005	13:23:44	165	8.55	28.487	0.1	2.915	-24	8.76	2.87	1558.64	27
11/8/2005	13:23:49	170	8.55	28.485	0.1	2.915	-24	8.65	3.08	1315.86	25
11/8/2005	13:23:54	175	7.95	28.481	0.2	2.941	-24	8.71	3.43	1251.02	21
11/8/2005	13:23:59	180	7.92	28.475	0.2	2.915	-24	8.57	4.92	1251.35	15
11/8/2005	13:24:04	185	7.9	28.474	0.2	2.941	-24	8.65	6.87	1251.02	14
11/8/2005	13:24:09	190	7.91	28.474	0.2	2.889	-24	8.88	8.25	1251.02	14
11/8/2005	13:24:14	195	7.91	28.476	0.2	2.941	-24	8.9	9.07	1251.35	13
11/8/2005	13:24:19	200	7.91	28.473	0.2	2.915	-24	8.92	9.56	1251.02	12
11/8/2005	13:24:24	205	7.9	28.471	0.2	2.941	-24	8.94	9.97	1251.35	11
11/8/2005	13:24:29	210	7.91	28.47	0.2	2.889	-24	8.95	10.35	1251.02	10
11/8/2005	13:24:34	215	7.91	28.465	0.2	2.915	-24	8.97	10.53	1251.35	8
11/8/2005	13:24:39	220	7.92	28.464	0.2	2.941	-24	8.99	10.73	1251.35	6
11/8/2005	13:24:44	225	7.91	28.46	0.2	2.889	-24	9.01	10.82	1251.35	5
11/8/2005	13:24:49	230	7.91	28.457	0.2	2.915	-24	9.02	10.87	1251.35	4
11/8/2005	13:24:54	235	7.91	28.454	0.2	2.915	-24	9.04	10.9	1251.36	3
11/8/2005	13:24:59	240	7.91	28.452	0.2	2.915	-24	9.06	11.77	1251.03	2



**NORTHEAST TECHNICAL SERVICES, INC.**

315 CHESTNUT STREET P.O. BOX 1142  
 VIRGINIA, MN 55792  
 (218) 741-4290 Fax: (218) 741-4291

REQUIRED TURN-AROUND TIME:

PAGE 1 OF 1  
**CHAIN OF CUSTODY RECORD** 62733

CLIENT NAME ADDRESS PHONE# SET: TODD FRYZBER PM

REPORT TO: RICK GRUM

PERMIT REQ.:

TYPE & CONTAINERS

SPECIAL INSTRUCTIONS:

SAMPLER:

PROJECT: SEH SAMPLING AND ANALYSIS, NOV 2005

PERMIT REQ.:

SESSION# 11-7205

PROJECT NUMBER:

8755.08C

SEH NOV 05

COLLECTION DATE: 11/20/05

REQUIRED ANALYSIS:

LLHG M.1631 (TOTAL)

LOG IN # S053120835

FIELD EQUIPMENT BLANK

EQUIP BLK

COLLECTION DATE: 11/20/05

MATRIX: X

REQUIRED ANALYSIS:

LLHG M.1631 (TOTAL)

0837

FIELD BLANK

FIELD BLANK

COLLECTION DATE: 11/20/05

MATRIX: X

REQUIRED ANALYSIS:

LLHG M.1631 (TOTAL)

083A

PRESAMPLE FILTER BLANK

FILTER BLANK

COLLECTION DATE: 11/20/05

MATRIX: X

REQUIRED ANALYSIS:

LLHG M.1631 (DISSOLVED)

090B

CLIFFS ERIE PIT 6 SAMPLE A 2 FOOT

PIT

COLLECTION DATE: 11/20/05

MATRIX: X

REQUIRED ANALYSIS:

LIST C

0842

CLIFFS ERIE PIT 8 SAMPLE A 50 FEET

PIT

COLLECTION DATE: 11/20/05

MATRIX: X

REQUIRED ANALYSIS:

LIST C

0905

CLIFFS ERIE PIT 6 SAMPLE B 2 FOOT

PIT

COLLECTION DATE: 11/20/05

MATRIX: X

REQUIRED ANALYSIS:

LIST C

090A

CLIFFS ERIE PIT 6 SAMPLE B 50 FEET

PIT

COLLECTION DATE: 11/20/05

MATRIX: X

REQUIRED ANALYSIS:

LIST C

090C

POST-SAMPLE FILTER BLANK

FILTER BLANK

COLLECTION DATE: 11/20/05

MATRIX: X

REQUIRED ANALYSIS:

LLHG M.1631 (DISSOLVED)

RELINQUISHED BY:

DATE:

RECEIVED BY:

DATE:

RELINQUISHED TO NTS SAMPLE LOCKUP BY:

DATE: 11/17/05

RECEIVED FROM NTS SAMPLE LOCKUP BY:

DATE: 11-8-05

RECEIVED FOR LAB BY:

DATE:

TEMP AT ARRIVAL:

DATE:

DATE:

TIME:

DATE:

TIME:

DATE:

TIME:

DATE:

TIME:

DATE:

TIME:

DATE:

TIME:





"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

<b>Sample ID:</b> S053120837	<b>Project #:</b> 6755C	<b>Sampler:</b> D. Nitz	<b>Type:</b> Grab
<b>Client:</b> S E H		<b>Status:</b> Normal	<b>Matrix:</b> Liquid
<b>Study:</b> Consulting		<b>NTS COC No:</b> 62733	
<b>Descript:</b> Cliffs Erie Pit 6		<b>Sampled:</b> 11/7/2005	
<b>Location:</b> Field Blank		<b>Completed:</b> 11/10/2005	

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
Mercury, LL Field Blank	11/9/2005	0.2	ng/L	0.2	1631E

Approved By:



Project Manager:

Analyses were performed by methods approved by the U.S. Environmental Protection Agency and the Minnesota Department of Health.

Northeast Technical Services, Inc. makes no warranty except that the analysis has been made upon the samples received in accordance with generally accepted testing laboratory principles and practices. The results of the analysis may not be characteristic of the whole from which the sample was taken. This warranty is in lieu of all other warranties either expressed or implied.

Thursday, December 01, 2005

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"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

<b>Sample ID:</b> S053120838	<b>Project #:</b> 6755C	<b>Sampler:</b> D. Nitz	<b>Type:</b> Grab - Filtered
<b>Client:</b> S E H		<b>Status:</b> Normal	<b>Matrix:</b> Liquid
<b>Study:</b> Consulting		<b>NTS COC No:</b> 62733	
<b>Descript:</b> Cliffs Erie Pit 6		<b>Sampled:</b> 11/7/2005	
<b>Location:</b> Post-Sample Filter Blank		<b>Completed:</b> 11/10/2005	

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
Mercury, Low Level	11/9/2005	0.5	ng/L	0.2	1631E

Approved By:

Project Manager:

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MDH Laboratory # 027-137-157

<b>Sample ID:</b> S05312083A	<b>Project #:</b> 6755C	<b>Sampler:</b> D. Nitz	<b>Type:</b> Grab - Filtered
<b>Client:</b> S E H		<b>Status:</b> Normal	<b>Matrix:</b> Liquid
<b>Study:</b> Consulting		<b>NTS COC No:</b> 62733	
<b>Descript:</b> Cliffs Erie Pit 6		<b>Sampled:</b> 11/7/2005	
<b>Location:</b> Pre-Sample Filter Blank		<b>Completed:</b> 11/10/2005	

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
Mercury, Low Level	11/9/2005	0.2	ng/L	0.2	1631E

Approved By:



Project Manager:

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"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

<b>Sample ID:</b> S053120842	<b>Project #:</b> 6755C	<b>Sampler:</b> D. Nitz	<b>Type:</b> Grab - Filtered
<b>Client:</b> S E H		<b>Status:</b> Normal	<b>Matrix:</b> Liquid
<b>Study:</b> Consulting		<b>NTS COC No:</b> 62733	
<b>Descript:</b> Cliffs Erie Pit 6		<b>Sampled:</b> 11/7/2005	
<b>Location:</b> Sample A - 2 Feet		<b>Completed:</b> 11/18/2005	

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
Dissolved Organic Carbon	11/17/2005	2.1	mg/L	1	415.1
Mercury, Low Level	11/9/2005	0.5	ng/L	0.5	1631E
Phosphorus, Soluble Reactive	11/9/2005	<0.01	mg/L	0.01	365.2

Approved By:   
Project Manager:

Analyses were performed by methods approved by the U.S. Environmental Protection Agency and the Minnesota Department of Health.

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"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

<b>Sample ID:</b> S053120905	<b>Project #:</b> 6755C	<b>Sampler:</b> D. Nitz	<b>Type:</b> Grab - Filtered
<b>Client:</b> S E H		<b>Status:</b> Normal	<b>Matrix:</b> Liquid
<b>Study:</b> Consulting		<b>NTS COC No:</b> 62733	
<b>Descript:</b> Cliffs Erie Pit 6		<b>Sampled:</b> 11/7/2005	
<b>Location:</b> Sample A - 50 Feet		<b>Completed:</b> 11/18/2005	

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
Dissolved Organic Carbon	11/17/2005	1.8	mg/L	1	415.1
Mercury, Low Level	11/9/2005	0.6	ng/L	0.5	1631E
Phosphorus, Soluble Reactive	11/9/2005	<0.01	mg/L	0.01	365.2

Approved By:

Project Manager:

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"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

<b>Sample ID:</b> S053120906	<b>Project #:</b> 6755C	<b>Sampler:</b> D. Nitz	<b>Type:</b> Grab - Filtered
<b>Client:</b> S E H		<b>Status:</b> Normal	<b>Matrix:</b> Liquid
<b>Study:</b> Consulting		<b>NTS COC No:</b> 62733	
<b>Descript:</b> Cliffs Erie Pit 6		<b>Sampled:</b> 11/7/2005	
<b>Location:</b> Sample B - 50 Feet		<b>Completed:</b> 11/18/2005	

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
Dissolved Organic Carbon	11/17/2005	1.8	mg/L	1	415.1
Mercury, Low Level	11/9/2005	0.5	ng/L	0.5	1631E
Phosphorus, Soluble Reactive	11/9/2005	<0.01	mg/L	0.01	365.2

Approved By:



Project Manager:

Analyses were performed by methods approved by the U.S. Environmental Protection Agency and the Minnesota Department of Health.

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MDH Laboratory # 027-137-157

<b>Sample ID:</b> S053120908	<b>Project #:</b> 6755C	<b>Sampler:</b> D. Nitz	<b>Type:</b> Grab
<b>Client:</b> S E H		<b>Status:</b> Normal	<b>Matrix:</b> Liquid
<b>Study:</b> Consulting		<b>NTS COC No:</b> 62733	
<b>Descript:</b> Cliffs Erie Pit 6		<b>Sampled:</b> 11/7/2005	
<b>Location:</b> Sample A - 50 Feet		<b>Completed:</b>	

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
TOC	11/9/2005	1.5	mg/L	1	415.1
Turbidity	11/8/2005	0.85	NTU	0.05	180.1

Approved By:



Project Manager:

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"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

<b>Sample ID:</b> S05312090A	<b>Project #:</b> 6755C	<b>Sampler:</b> D. Nitz	<b>Type:</b> Grab - Filtered
<b>Client:</b> S E H		<b>Status:</b> Normal	<b>Matrix:</b> Liquid
<b>Study:</b> Consulting		<b>NTS COC No:</b> 62733	
<b>Descript:</b> Cliffs Erie Pit 6		<b>Sampled:</b> 11/7/2005	
<b>Location:</b> Sample B - 2 Feet		<b>Completed:</b> 11/22/2005	

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
Dissolved Organic Carbon	11/21/2005	2.3	mg/L	1	415.1
Mercury, Low Level	11/9/2005	0.7	ng/L	0.5	1631E
Phosphorus, Soluble Reactive	11/9/2005	<0.01	mg/L	0.01	365.2

Approved By:

  
Project Manager:

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MDH Laboratory # 027-137-157

<b>Sample ID:</b> S05312090B	<b>Project #:</b> 6755C	<b>Sampler:</b> D. Nitz	<b>Type:</b> Grab
<b>Client:</b> S E H		<b>Status:</b> Normal	<b>Matrix:</b> Liquid
<b>Study:</b> Consulting		<b>NTS COC No:</b> 62733	
<b>Descript:</b> Cliffs Erie Pit 6		<b>Sampled:</b> 11/7/2005	
<b>Location:</b> Sample A - 2 Feet		<b>Completed:</b> 12/01/2005	

**Notes:**

\*Analysis duplicate result for Mercury, Low Level = 0.7ug/L.

Analyte	Analysis Date	Result	Units	RL	Method
Alkalinity, Total as CaCO3	11/10/2005	358	mg/L	10	310.1
Calcium	11/10/2005	48.3	mg/L	2	200.7
Chloride	11/18/2005	9.9	mg/L	0.5	325.2
Chlorophyll-a	11/17/2005	<0.001	mg/L	0.001	SM 10026
Coliform, E-Coli	11/8/2005	<1	P/A	1	SM 9223-B
Coliform, Total	11/8/2005	>1	P/A	1	SM 9223B/Colilert
Conductivity	11/8/2005	1510	umho/cm	5	120.1
Kjeldahl Nitrogen, Total as N	11/9/2005	0.68	mg/L	0.5	351.1
Magnesium	11/10/2005	213	mg/L	10	200.7
Mercury, Low Level	11/9/2005	*0.7	ng/L	0.5	1631E
Nitrogen, Ammonia	11/10/2005	<0.1	mg/L	0.1	350.1
Nitrogen, Nitrate	11/8/2005	0.34	mg/L	0.1	353.2 - 354.1
Nitrogen, Nitrate + Nitrite	11/8/2005	0.34	mg/L	0.1	353.2
Nitrogen, Nitrite	11/8/2005	<0.02	mg/L	0.02	354.1
pH	11/8/2005	8.6	SU	0.1	150.1
Phosphorous, Total	11/11/2005	<0.1	mg/L	0.1	365.4
Phosphorus, Soluble Reactive	11/9/2005	<0.01	mg/L	0.01	365.2
Potassium	11/10/2005	17.4	mg/L	4	200.7
Sodium	11/10/2005	46.2	mg/L	10	200.7
Solids, Total Dissolved	11/8/2005	1370	mg/L	1	160.1
Solids, Total Suspended	11/8/2005	3	mg/L	1	I-3765
Sulfate	11/28/2005	768	mg/L	5	375.1

Approved By:

  
Project Manager:

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"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

<b>Sample ID:</b> S05312090B	<b>Project #:</b> 6755C	<b>Sampler:</b> D. Nitz	<b>Type:</b> Grab
<b>Client:</b> S E H		<b>Status:</b> Normal	<b>Matrix:</b> Liquid
<b>Study:</b> Consulting		<b>NTS COC No:</b> 62733	
<b>Descript:</b> Cliffs Erie Pit 6		<b>Sampled:</b> 11/7/2005	
<b>Location:</b> Sample A - 2 Feet		<b>Completed:</b>	

**Notes:**

\*Analysis duplicate result for Mercury, Low Level = 0.7ug/L.

Analyte	Analysis Date	Result	Units	RL	Method
TOC	11/9/2005	2.4	mg/L	1	415.1
Turbidity	11/8/2005	1.5	NTU	0.05	180.1

Approved By:

Project Manager:

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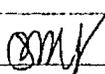
MDH Laboratory # 027-137-157

<b>Sample ID:</b> S05312090C	<b>Project #:</b> 6755C	<b>Sampler:</b> D. Nitz	<b>Type:</b> Grab
<b>Client:</b> S E H		<b>Status:</b> Normal	<b>Matrix:</b> Liquid
<b>Study:</b> Consulting		<b>NTS COC No:</b> 62733	
<b>Descript:</b> Cliffs Erie Pit 6		<b>Sampled:</b> 11/7/2005	
<b>Location:</b> Sample B - 50 Feet		<b>Completed:</b> 12/01/2005	

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
Alkalinity, Total as CaCO3	11/10/2005	466	mg/L	10	310.1
Calcium	11/10/2005	45.2	mg/L	2	200.7
Chloride	11/18/2005	11.3	mg/L	0.5	325.2
Chlorophyll-a	11/17/2005	<0.001	mg/L	0.001	SM 10026
Coliform, E-Coli	11/8/2005	<1	P/A	1	SM 9223-B
Coliform, Total	11/8/2005	>1	P/A	1	SM 9223B/Colilert
Conductivity	11/8/2005	1910	umho/cm	5	120.1
Kjeldahl Nitrogen, Total as N	11/9/2005	<0.5	mg/L	0.5	351.1
Magnesium	11/10/2005	296	mg/L	10	200.7
Mercury, Low Level	11/9/2005	0.6	ng/L	0.5	1631E
Nitrogen, Ammonia	11/10/2005	<0.1	mg/L	0.1	350.1
Nitrogen, Nitrate	11/8/2005	0.11	mg/L	0.1	353.2 - 354.1
Nitrogen, Nitrate + Nitrite	11/8/2005	0.11	mg/L	0.1	353.2
Nitrogen, Nitrite	11/8/2005	<0.02	mg/L	0.02	354.1
pH	11/8/2005	8.2	SU	0.1	150.1
Phosphorous, Total	11/11/2005	<0.1	mg/L	0.1	365.4
Phosphorus, Soluble Reactive	11/9/2005	<0.01	mg/L	0.01	365.2
Potassium	11/10/2005	18.9	mg/L	8	200.7
Sodium	11/10/2005	58.4	mg/L	10	200.7
Solids, Total Dissolved	11/8/2005	1820	mg/L	1	160.1
Solids, Total Suspended	11/8/2005	5	mg/L	1	I-3765
Sulfate	11/28/2005	748	mg/L	5	375.1

Approved By:

  
Project Manager:

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"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

<b>Sample ID:</b> S05312090C	<b>Project #:</b> 6755C	<b>Sampler:</b> D. Nitz	<b>Type:</b> Grab
<b>Client:</b> S E H		<b>Status:</b> Normal	<b>Matrix:</b> Liquid
<b>Study:</b> Consulting		<b>NTS COC No:</b> 62733	
<b>Descript:</b> Cliffs Erie Pit 6		<b>Sampled:</b> 11/7/2005	
<b>Location:</b> Sample B - 50 Feet		<b>Completed:</b>	

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
TOC	11/9/2005	1.5	mg/L	1	415.1
Turbidity	11/8/2005	1.7	NTU	0.05	180.1

Approved By:



Project Manager:

Analyses were performed by methods approved by the U.S. Environmental Protection Agency and the Minnesota Department of Health.

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"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

Sample ID: S053130859	Project #: 6755C	Sampler: D. DeVaney	Type: Grab
Client: S E H		Status: Normal	Matrix: Liquid
Study: Consulting		NTS COC No: 62777	
Descript: Cliffs Erie 2XW		Sampled: 11/7/2005 11:30 AM	
Location: Sample A - 50 Feet		Completed: 11/28/2005	

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
Alkalinity, Total as CaCO3	11/10/2005	305	mg/L	10	310.1
Calcium	11/11/2005	23.1	mg/L	2	200.7
Chloride	11/18/2005	17.1	mg/L	0.5	325.2
Chlorophyll-a	11/17/2005	<0.001	mg/L	0.001	SM 10026
Coliform, E-Coli	11/9/2005	<1	P/A	1	SM 9223-B
Coliform, Total	11/9/2005	>1	P/A	1	SM 9223B/Colilert
Conductivity	11/9/2005	710	umho/cm	5	120.1
Kjeldahl Nitrogen, Total as N	11/15/2005	<0.5	mg/L	0.5	351.1
Magnesium	11/11/2005	73.7	mg/L	2	200.7
Mercury, Low Level	11/11/2005	0.7	ng/L	0.5	1631E
Nitrogen, Ammonia	11/10/2005	<0.1	mg/L	0.1	350.1
Nitrogen, Nitrate	11/16/2005	0.34	mg/L	0.1	353.2 - 354.1
Nitrogen, Nitrate + Nitrite	11/16/2005	0.34	mg/L	0.1	353.2
Nitrogen, Nitrite	11/9/2005	<0.02	mg/L	0.02	354.1
pH	11/9/2005	8.5	SU	0.1	150.1
Phosphorous, Total	11/11/2005	0.38	mg/L	0.1	365.4
Phosphorus, Soluble Reactive	11/9/2005	<0.01	mg/L	0.01	365.2
Potassium	11/11/2005	9.2	mg/L	2	200.7
Sodium	11/11/2005	28.4	mg/L	20	200.7
Solids, Total Dissolved	11/14/2005	455	mg/L	1	160.1
Solids, Total Suspended	11/14/2005	<1	mg/L	1	I-3765
Sulfate	11/28/2005	79.6	mg/L	5	375.1

Approved By:

SMU  
Project Manager:

Analyses were performed by methods approved by the U.S. Environmental Protection Agency and the Minnesota Department of Health.

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"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

Sample ID: S05313085B	Project #: 6755C	Sampler: D. DeVaney	Type: Grab
Client: S E H		Status: Normal	Matrix: Liquid
Study: Consulting		NTS COC No: 62777	
Descript: Cliffs Erie 2XW		Sampled: 11/7/2005	
Location: Sample A - 2 Feet		Completed: 11/28/2005	

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
Alkalinity, Total as CaCO3	11/10/2005	316	mg/L	10	310.1
Calcium	11/11/2005	22.9	mg/L	2	200.7
Chloride	11/18/2005	17	mg/L	0.5	325.2
Chlorophyll-a	11/17/2005	<0.001	mg/L	0.001	SM 10026
Coliform, E-Coli	11/9/2005	<1	P/A	1	SM 9223-B
Coliform, Total	11/9/2005	>1	P/A	1	SM 9223B/Colilert
Conductivity	11/9/2005	710	umho/cm	5	120.1
Kjeldahl Nitrogen, Total as N	11/15/2005	<0.5	mg/L	0.5	351.1
Magnesium	11/11/2005	72.7	mg/L	2	200.7
Mercury, Low Level	11/11/2005	1.1	ng/L	0.5	1631E
Nitrogen, Ammonia	11/10/2005	<0.1	mg/L	0.1	350.1
Nitrogen, Nitrate	11/16/2005	0.34	mg/L	0.1	353.2 - 354.1
Nitrogen, Nitrate + Nitrite	11/16/2005	0.34	mg/L	0.1	353.2
Nitrogen, Nitrite	11/9/2005	<0.02	mg/L	0.02	354.1
pH	11/9/2005	8.5	SU	0.1	150.1
Phosphorous, Total	11/23/2005	<0.01	mg/L	0.01	365.2
Phosphorus, Soluble Reactive	11/9/2005	<0.01	mg/L	0.01	365.2
Potassium	11/11/2005	9.2	mg/L	2	200.7
Sodium	11/11/2005	29	mg/L	20	200.7
Solids, Total Dissolved	11/14/2005	448	mg/L	1	160.1
Solids, Total Suspended	11/14/2005	<1	mg/L	1	1-3765
Sulfate	11/28/2005	71.2	mg/L	5	375.1

Approved By:

  
Project Manager:

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"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

<b>Sample ID:</b> S05313085B	<b>Project #:</b> 6755C	<b>Sampler:</b> D. DeVaney	<b>Type:</b> Grab
<b>Client:</b> S E H		<b>Status:</b> Normal	<b>Matrix:</b> Liquid
<b>Study:</b> Consulting		<b>NTS COC No:</b> 62777	
<b>Descript:</b> Cliffs Erie 2XW		<b>Sampled:</b> 11/7/2005	
<b>Location:</b> Sample A - 2 Feet		<b>Completed:</b> 11/28/2005	

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
TOC	11/9/2005	1.6	mg/L	1	415.1
Turbidity	11/9/2005	0.45	NTU	0.05	180.1

Approved By:

Project Manager:

Analyses were performed by methods approved by the U.S. Environmental Protection Agency and the Minnesota Department of Health.

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"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

Sample ID: S05313085C	Project #: 6755C	Sampler: D. DeVaney	Type: Grab
Client: S E H		Status: Normal	Matrix: Liquid
Study: Consulting		NTS COC No: 62777	
Descript: Cliffs Erie 2XW		Sampled: 11/7/2005 12:45 PM	
Location: Sample B - 2 Feet		Completed: 11/28/2005	

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
Alkalinity, Total as CaCO3	11/10/2005	307	mg/L	10	310.1
Calcium	11/11/2005	23.4	mg/L	2	200.7
Chloride	11/18/2005	17.4	mg/L	0.5	325.2
Chlorophyll-a	11/17/2005	<0.001	mg/L	0.001	SM 10026
Coliform, E-Coli	11/9/2005	<1	P/A	1	SM 9223-B
Coliform, Total	11/9/2005	>1	P/A	1	SM 9223B/Colilert
Conductivity	11/9/2005	712	umho/cm	5	120.1
Kjeldahl Nitrogen, Total as N	11/15/2005	<0.5	mg/L	0.5	351.1
Magnesium	11/11/2005	74.5	mg/L	2	200.7
Mercury, Low Level	11/11/2005	1	ng/L	0.5	1631E
Nitrogen, Ammonia	11/10/2005	<0.1	mg/L	0.1	350.1
Nitrogen, Nitrate	11/16/2005	0.34	mg/L	0.1	353.2 - 354.1
Nitrogen, Nitrate + Nitrite	11/16/2005	0.34	mg/L	0.1	353.2
Nitrogen, Nitrite	11/9/2005	<0.02	mg/L	0.02	354.1
pH	11/9/2005	8.6	SU	0.1	150.1
Phosphorous, Total	11/23/2005	<0.01	mg/L	0.01	365.2
Phosphorus, Soluble Reactive	11/9/2005	<0.01	mg/L	0.01	365.2
Potassium	11/11/2005	9.4	mg/L	2	200.7
Sodium	11/11/2005	29.5	mg/L	20	200.7
Solids, Total Dissolved	11/14/2005	449	mg/L	1	160.1
Solids, Total Suspended	11/14/2005	<1	mg/L	1	I-3765
Sulfate	11/28/2005	82.3	mg/L	5	375.1

Approved By:

Project Manager:

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"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

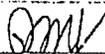
Sample ID: S053130900	Project #: 6755C	Sampler: D. DeVaney	Type: Grab
Client: S E H		Status: Normal	Matrix: Liquid
Study: Consulting		NTS COC No: 62777	
Descript: Cliffs Erie 2XW		Sampled: 11/7/2005 1:30 PM	
Location: Sample B - 50 Feet		Completed: 11/28/2005	

Notes:

r Duplicate analysis not within control limits, 17.4%.

Analyte	Analysis Date	Result	Units	RL	Method
Alkalinity, Total as CaCO3	11/10/2005	310	mg/L	10	310.1
Calcium	11/11/2005	23.2	mg/L	2	200.7
Chloride	11/18/2005	16.9	mg/L	0.5	325.2
Chlorophyll-a	11/17/2005	<0.001	mg/L	0.001	SM 10026
Coliform, E-Coli	11/9/2005	<1	P/A	1	SM 9223-B
Coliform, Total	11/9/2005	>1	P/A	1	SM 9223B/Colilert
Conductivity	11/9/2005	711	umho/cm	5	120.1
Kjeldahl Nitrogen, Total as N	11/15/2005	<0.5	mg/L	0.5	351.1
Magnesium	11/11/2005	73.2	mg/L	2	200.7
Mercury, Low Level	11/11/2005	0.9	ng/L	0.5	1631E
Nitrogen, Ammonia	11/10/2005	<0.1	mg/L	0.1	350.1
Nitrogen, Nitrate	11/16/2005	0.34	mg/L	0.1	353.2 - 354.1
Nitrogen, Nitrate + Nitrite	11/16/2005	0.34	mg/L	0.1	353.2
Nitrogen, Nitrite	11/9/2005	<0.02	mg/L	0.02	354.1
pH	11/9/2005	8.6	SU	0.1	150.1
Phosphorous, Total	11/23/2005	<0.01	mg/L	0.01	365.2
Phosphorus, Soluble Reactive	11/9/2005	<0.01	mg/L	0.01	365.2
Potassium	11/11/2005	9.1	mg/L	2	200.7
Sodium	11/11/2005	28	mg/L	20	200.7
Solids, Total Dissolved	11/14/2005	445	mg/L	1	160.1
Solids, Total Suspended	11/14/2005	4	mg/L	1	I-3765
Sulfate	11/28/2005	94.3	mg/L	5	375.1

Approved By:



Project Manager:

Analyses were performed by methods approved by the U.S. Environmental Protection Agency and the Minnesota Department of Health.

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"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

Sample ID: S053130900	Project #: 6755C	Sampler: D. DeVaney	Type: Grab		
Client: S E H		Status: Normal	Matrix: Liquid		
Study: Consulting		NTS COC No: 62777			
Descript: Cliffs Erie 2XW		Sampled: 11/7/2005 1:30 PM			
Location: Sample B - 50 Feet		Completed: 11/28/2005			
Notes:					
<i>r Duplicate analysis not within control limits, 17.4%.</i>					
Analyte	Analysis Date	Result	Units	RL	Method
TOC	11/16/2005	r2.1	mg/L	1	415.1
Turbidity	11/9/2005	<0.05	NTU	0.05	180.1

Approved By:

Project Manager:

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MDH Laboratory # 027-137-157

<b>Sample ID:</b> S053130901	<b>Project #:</b> 6755C	<b>Sampler:</b> D. DeVaney	<b>Type:</b> Grab - Filtered
<b>Client:</b> S E H		<b>Status:</b> Normal	<b>Matrix:</b> Liquid
<b>Study:</b> Consulting		<b>NTS COC No:</b> 62777	
<b>Descript:</b> Cliffs Erie 2XW		<b>Sampled:</b> 11/7/2005 11:30 AM	
<b>Location:</b> Sample A - 50 Feet		<b>Completed:</b> 11/18/2005	

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
Dissolved Organic Carbon	11/17/2005	1.7	mg/L	1	415.1
Mercury, Low Level	11/11/2005	1.2	ng/L	0.5	1631E
Phosphorus, Soluble Reactive	11/9/2005	<0.01	mg/L	0.01	365.2

Approved By:

Project Manager:

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Sample ID: S050261439	Project #: 5618	Sampler: D. Engel	Type: Grab
Client: Cliffs Erie, LLC		Status: Normal	Matrix: Liquid
Study: NPDES		NTS COC No: 46976	
Descript: Water		Sampled: 1/26/2005 9:00 AM	
Location: Pit 9S		Completed: 02/28/2005	

Notes:

DRO extraction date: 01/27/05      \*The D.O. depletion was < 2 mg/L.  
 n Matrix spike recovery not within control limits, = 118%.

Analyte	Analysis Date	Result	Units	RL	Method
DRO	1/31/2005	<0.1	mg/L	0.1	WI DRO
GRO	1/27/2005	<0.1	mg/L	0.1	WI GRO
Alkalinity, Total as CaCO3	2/8/2005	286	mg/L	10	310.1
Aluminum	2/18/2005	<25	ug/L	25	200.7
Antimony	2/7/2005	<3	ug/L	3	204.2
Arsenic	2/2/2005	<2	ug/L	2	206.2
Asbestos	2/1/2005	<0.2	MFL	0.2	600/4-83-043
Barium	2/18/2005	<10	ug/L	10	6010B/200.7
Beryllium	2/1/2005	<0.2	ug/L	0.2	210.2
BOD	1/27/2005	*<2	mg/L	2	SM 5210-B
Boron	2/18/2005	62.4	ug/L	35	200.7
Bromide	2/3/2005	<0.1	mg/L	0.02	SM 4500-Br
Cadmium	2/1/2005	<0.2	ug/L	0.2	213.2
Calcium	2/18/2005	96.5	mg/L	0.5	200.7
Chloride	1/31/2005	5.8	mg/L	0.5	325.2
Chromium	1/31/2005	1	ug/L	1	218.2
Cobalt	1/31/2005	<1	ug/L	1	219.2
COD	2/11/2005	3.5	mg/L	10	SM 5220-D
Color	1/27/2005	<5	SU	5	110.2
Conductivity	1/26/2005	1860	uohm/cm	1	120.1
Copper	2/1/2005	<2	ug/L	2	220.2
Fecal Coliform	1/26/2005	<2	#/100mls	2	SM 9222-D

Approved By:

Project Manager:

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Sample ID: S050261439	Project #: 5618	Sampler: D. Engel	Type: Grab
Client: Cliffs Erie, LLC		Status: Normal	Matrix: Liquid
Study: NPDES		NTS COC No: 46976	
Descript: Water		Sampled: 1/26/2005 9:00 AM	
Location: Pit 9S		Completed: 02/28/2005	

Notes:

DRO extraction date: 01/27/05      \*The D.O. depletion was < 2 mg/L.  
 n Matrix spike recovery not within control limits, = 118%.

Analyte	Analysis Date	Result	Units	RL	Method
Fluoride	2/15/2005	0.16	mg/L	0.1	340.2
Iron	2/18/2005	<0.05	mg/L	0.05	200.7
Kjeldahl Nitrogen, Total as N	2/11/2005	0.71	mg/L	0.5	351.1
Lead, GF	2/4/2005	<1	ug/L	1	239.2
Lithium	2/18/2005	n 16.4	ug/L	4	200.7
Magnesium	2/18/2005	237	mg/L	0.5	200.7
Manganese	2/18/2005	0.08	mg/L	0.02	200.7
Molybdenum, GF	2/4/2005	<5	ug/L	5	246.2
Nickel	1/31/2005	<2	ug/L	2	249.2
Nitrogen, Ammonia	2/15/2005	<0.1	mg/L	0.1	350.1
Nitrogen, Nitrate + Nitrite	2/15/2005	0.21	mg/L	0.1	353.2
Nitrogen, Total Organic	2/24/2005	0.71	mg/L	0.1	351.2, 350.1
pH	1/26/2005	7.9	SU	0.1	150.1
Phosphorous, Total	2/2/2005	<0.1	mg/L	0.1	365.4
Potassium	2/24/2005	n 10.3	mg/L	2	200.7
Selenium, GF	2/2/2005	<2	ug/L	2	270.2
Silver, GF	2/7/2005	<1	ug/L	1	272.2
Sodium	2/18/2005	29.8	mg/L	0.5	200.7
Solids, Total Dissolved	2/1/2005	1500	mg/L	10	160.1
Solids, Total Suspended	2/1/2005	4	mg/L	1	I-3765
Strontium	2/18/2005	351	ug/L	4	200.7
Sulfate	2/1/2005	908	mg/L	1	375.4

Approved By:

  
 Project Manager:

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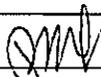
Sample ID: S050261439	Project #: 5618	Sampler: D. Engel	Type: Grab
Client: Cliffs Erie, LLC		Status: Normal	Matrix: Liquid
Study: NPDES		NTS COC No: 46976	
Descript: Water		Sampled: 1/26/2005 9:00 AM	
Location: Pit 9S		Completed: 02/28/2005	

Notes:

DRO extraction date: 01/27/05      \*The D.O. depletion was < 2 mg/L.  
 n Matrix spike recovery not within control limits, = 118%.

Analyte	Analysis Date	Result	Units	RL	Method
Sulfide	1/27/2005	<2	mg/L	2	376.1
Surfactants	1/31/2005	<0.025	mg/L	0.025	425.1
Thallium	1/31/2005	<2	mg/L	2	279.2
Tin	2/10/2005	<10	ug/L	10	282.2
Titanium	2/10/2005	<10	ug/L	10	283.2
TOC	2/7/2005	2.9	mg/L	1	415.1
Turbidity	1/26/2005	0.89	NTU	0.05	180.1
Vanadium	2/18/2005	<4	ug/L	4	200.7
Zinc	2/18/2005	<10	ug/L	10	200.7

Approved By:

  
 Project Manager:

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Sample ID: S050261447	Project #: 5618	Sampler: D. Engel	Type: Grab
Client: Cliffs Erie, LLC		Status: Normal	Matrix: Liquid
Study: NPDES		NTS COC No: 46976	
Descript: Water		Sampled: 1/26/2005 10:15 AM	
Location: Pit 9		Completed: 02/28/2005	

Notes:

DRO extraction date: 01/27/05                      \*The D.O. depletion was < 2 mg/L.  
 n Matrix spike recovery not within control limits = 123%.

Analyte	Analysis Date	Result	Units	RL	Method
Fluoride	2/15/2005	0.14	mg/L	0.1	340.2
Iron	2/21/2005	0.07	mg/L	0.05	200.7
Kjeldahl Nitrogen, Total as N	2/11/2005	1.2	mg/L	0.5	351.1
Lead, GF	2/4/2005	<1	ug/L	1	239.2
Lithium	2/21/2005	16	ug/L	4	200.7
Magnesium	2/21/2005	162	mg/L	0.5	200.7
Manganese	2/21/2005	0.03	mg/L	0.02	200.7
Molybdenum, GF	2/4/2005	<5	ug/L	5	246.2
Nickel	1/31/2005	<2	ug/L	2	249.2
Nitrogen, Ammonia	2/15/2005	<0.1	mg/L	0.1	350.1
Nitrogen, Nitrate + Nitrite	2/15/2005	<0.1	mg/L	0.1	353.2
Nitrogen, Total Organic	2/24/2005	1.2	mg/L	0.1	351.2, 350.1
pH	1/26/2005	8.1	SU	0.1	150.1
Phosphorous, Total	2/2/2005	0.13	mg/L	0.1	365.4
Potassium	2/21/2005	n19.6	mg/L	4	200.7
Selenium, GF	2/2/2005	<2	ug/L	2	270.2
Silver, GF	2/7/2005	<1	ug/L	1	272.2
Sodium	2/21/2005	18.2	mg/L	0.5	200.7
Solids, Total Dissolved	2/1/2005	812	mg/L	10	160.1
Solids, Total Suspended	2/1/2005	2	mg/L	1	I-3765
Strontium	2/21/2005	102	ug/L	4	200.7
Sulfate	2/1/2005	383	mg/L	1	375.4

Approved By:

  
 Project Manager:

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<b>Sample ID:</b> S050261447	<b>Project #:</b> 5618	<b>Sampler:</b> D. Engel	<b>Type:</b> Grab
<b>Client:</b> Cliffs Erie, LLC		<b>Status:</b> Normal	<b>Matrix:</b> Liquid
<b>Study:</b> NPDES		<b>NTS COC No:</b> 46976	
<b>Descript:</b> Water		<b>Sampled:</b> 1/26/2005 10:15 AM	
<b>Location:</b> Pit 9		<b>Completed:</b> 02/28/2005	

Notes:

DRO extraction date: 01/27/05

\*The D.O. depletion was < 2 mg/L.

n Matrix spike recovery not within control limits = 123%.

Analyte	Analysis Date	Result	Units	RL	Method
Sulfide	1/27/2005	<2	mg/L	2	376.1
Surfactants	1/31/2005	<0.025	mg/L	0.025	425.1
Thallium	1/31/2005	<2	mg/L	2	279.2
Tin	2/10/2005	<10	ug/L	10	282.2
Titanium	2/10/2005	<10	ug/L	10	283.2
TOC	2/7/2005	2	mg/L	1	415.1
Turbidity	1/26/2005	0.68	NTU	0.05	180.1
Vanadium	2/21/2005	<4	ug/L	4	200.7
Zinc	2/21/2005	<10	ug/L	10	200.7

Approved By:

Project Manager:

Analyses were performed by methods approved by the U.S. Environmental Protection Agency and the Minnesota Department of Health.

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"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

Sample ID: S050251401	Project #: 5618	Sampler: D. Engel	Type: Grab
Client: Cliffs Erie, LLC	Study: NPDES	Status: Normal	Matrix: Liquid
Description: Water	Location: Area 6 Pit H2O	Sampled: 1/25/2005 11:00 AM	Completed: 02/24/2005
<p>Notes:</p> <p>DRO extraction date: 01/27/05          *The D.O. depletion was &lt; 2 mg/L.          a-Laboratory Control Spike not within control limits Molybdenum = 116%, Tin = 76%          n Matrix spike recovery not within control limits = 123%.</p>			

Analyte	Analysis Date	Result	Units	Method
DRO	1/31/2005	<0.1	mg/L	WI DRO
GRO	1/26/2005	<0.1	mg/L	WI GRO
Alkalinity, Total as CaCO3	2/8/2005	355	mg/L	
Aluminum	2/21/2005	<25	ug/L	
Antimony	1/28/2005	<3	ug/L	
Arsenic	2/2/2005	2.2	ug/L	
Asbestos	1/31/2005	<0.2	MFL	600/4-83-043
Barium	2/21/2005	<10	ug/L	6010B/200.7
Beryllium	2/1/2005	<0.2	ug/L	
BOD	1/26/2005	*<2	mg/L	SM 5210-B
Boron	2/21/2005	119	ug/L	
Bromide	2/3/2005	<0.1	mg/L	SM 4500-Br
Cadmium	2/1/2005	<0.2	ug/L	
Calcium	2/21/2005	51.8	mg/L	
Chloride	1/31/2005	10.3	mg/L	
Chromium	1/31/2005	<1	ug/L	
Cobalt	1/31/2005	<1	ug/L	
COD	2/11/2005	3	mg/L	SM 5220-D
Color	1/27/2005	<5	SU	
Conductivity	1/25/2005	1860	uohm/cm	
Copper	2/1/2005	<2	ug/L	
Fecal Coliform	1/25/2005	<2	#/100mls	SM 9222-D

Approved By:

Project Manager:

Analyses were performed by methods approved by the U.S. Environmental Protection Agency and the Minnesota Department of Health.

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Thursday, February 24, 2005

NTS Laboratory Data Base System

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"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

Sample ID: S050251401	Project #: 5618	Client: Cliffs Erie, LLC	Study: NPDES	Describe: Water	Location: Area 6 Pit H2O
Sampler: D. Engel		Status: Normal	NTS COC No: 46947	Sampled: 1/25/2005 11:00 AM	Completed: 02/24/2005
Type: Grab		Matrix: Liquid			
<p>Notes:</p> <p>DRO extraction date: 01/27/05          *The D.O. depletion was &lt; 2 mg/L.          a-Laboratory Control Spike not within control limits Molybdenum = 116%, Tin = 76%          n Matrix spike recovery not within control limits = 123%.</p>					

Analyte	Analysis Date	Result	Units	RL	Method
Sulfide	1/27/2005	< 2	mg/L	2	
Surfactants	1/31/2005	< 0.025	mg/L	0.025	
Thallium	1/31/2005	< 2	mg/L	2	
Tin	2/10/2005	a < 10	ug/L	10	
TOC	2/7/2005	2.1	mg/L	1	
Turbidity	1/25/2005	2	NTU	0.05	
Vanadium	2/21/2005	< 4	ug/L	4	
Zinc	2/21/2005	> 10	ug/L	10	

Approved By:

Project Manager:

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Thursday, February 24, 2005

NTS Laboratory Data Base System

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COC#: 472008

TYPE & # CONTAINERS

\*\*Please measure pH and Sp. Cond. Upon receipt of samples\*\*

LOG-IN	SAMPLE #	DESCRIPTION	DATE	TIME	MATRIX	L.I.C.	SOL.	Filtered	No Preservation	Nutrients - H2SO4	100ml - NaHCO3	500ml - NaOH	500ml - HNO3	3 - 40ml Vials HCl	1 LT - Amber - HCl	pH (SU)	Sp. Cond	TEMP.	Field	ANALYSIS:
5050271414		Pit 2W/X	1/27/05	8:45	X	X													-1.0	pH Cond. T-Alk BOD Color Cl F SO4 TDS TSS NTU NO3+NO2 COD NH3 TKN TON T-Phos. TOC Fecal Coliform Sulfide Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Li Mg Mn Mo Ni K Sr Ag Na Sr Ti Sn Tl V Zn GRO DRO Asbestos Fibers Bromide, Surfactants
142B		Trip BIK			X	X														
RELINQUISHED BY: Dan Engel DATE: 1/27/05 TIME: 13:15 RECEIVED BY: DATE: TIME:																				
RELINQUISHED BY: DATE: TIME: RECEIVED BY: DATE: TIME:																				
RECEIVED FOR LAB BY: J. Koski TEMP AT ARRIVAL: 1.4 C DATE: 1-27-05 TIME: 13:15																				
REPORT DATE:																				





"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

Sample ID: S050271414	Project #: 5618	Sampler: D. Engel	Type: Grab
Client: Cliffs Erie, LLC		Status: Normal	Matrix: Liquid
Study: NPDES		NTS COC No: 47008	
Descript: Water		Sampled: 1/27/2005 8:45 AM	
Location: Pit 2WX		Completed: 02/28/2005	

Notes:  
 \*The D.O. depletion was < 2 mg/L.  
 DRO extraction date: 01/31/05  
 n Matrix spike recovery not within control limits = 123%.

Analyte	Analysis Date	Result	Units	RL	Method
Fluoride	2/15/2005	0.17	mg/L	0.1	340.2
Iron	2/21/2005	<0.05	mg/L	0.05	200.7
Kjeldahl Nitrogen, Total as N	2/11/2005	0.89	mg/L	0.5	351.1
Lead	2/4/2005	<1	ug/L	1	239.2
Lithium	2/21/2005	20.8	ug/L	4	200.7
Magnesium	2/21/2005	81.1	mg/L	0.5	200.7
Manganese	2/21/2005	0.02	mg/L	0.02	200.7
Molybdenum, GF	2/4/2005	<5	ug/L	5	246.2
Nickel	1/31/2005	<2	ug/L	2	249.2
Nitrogen, Ammonia	2/15/2005	<0.1	mg/L	0.1	350.1
Nitrogen, Nitrate + Nitrite	2/15/2005	0.47	mg/L	0.1	353.2
Nitrogen, Total Organic	2/24/2005	0.89	mg/L	0.1	351.2, 350.1
pH	1/27/2005	8.1	SU	0.1	150.1
Phosphorous, Total	2/2/2005	<0.1	mg/L	0.1	365.4
Potassium	2/21/2005	n10.6	mg/L	2	200.7
Selenium, GF	2/2/2005	<2	ug/L	2	270.2
Silver, GF	2/7/2005	<1	ug/L	1	272.2
Sodium	2/21/2005	39.3	mg/L	0.5	200.7
Solids, Total Dissolved	2/1/2005	467	mg/L	10	160.1
Solids, Total Suspended	2/1/2005	<1	mg/L	1	I-3765
Strontium	2/21/2005	74.5	ug/L	4	200.7
Sulfate	2/1/2005	118	mg/L	1	375.4

Approved By:   
 Project Manager:

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Sample ID: S050271414	Project #: 5618	Sampler: D. Engel	Type: Grab
Client: Cliffs Erie, LLC		Status: Normal	Matrix: Liquid
Study: NPDES		NTS COC No: 47008	
Descript: Water		Sampled: 1/27/2005 8:45 AM	
Location: Pit 2WX		Completed: 02/28/2005	

Notes:

\*The D.O. depletion was < 2 mg/L.  
DRO extraction date: 01/31/05  
n Matrix spike recovery not within control limits = 123%.

Analyte	Analysis Date	Result	Units	RL	Method
Sulfide	1/27/2005	<2	mg/L	2	376.1
Surfactants	1/31/2005	<0.025	mg/L	0.025	425.1
Thallium	1/31/2005	<2	mg/L	2	279.2
Tin	2/10/2005	<10	ug/L	10	282.2
Titanium	2/10/2005	<10	ug/L	10	283.2
TOC	2/7/2005	1.7	mg/L	1	415.1
Turbidity	1/27/2005	<0.05	NTU	0.05	180.1
Vanadium	2/21/2005	<4	ug/L	4	200.7
Zinc	2/21/2005	<10	ug/L	10	200.7

Approved By:

  
Project Manager:

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Sample ID: S050271427	Project #: 5618	Sampler: D. Engel	Type: Grab
Client: Cliffs Erie, LLC		Status: Normal	Matrix: Liquid
Study: NPDES		NTS COC No: 47008	
Descript: Water		Sampled: 1/27/2005 10:00 AM	
Location: Pit 2W		Completed: 02/28/2005	

Notes:

\* The D.O. depletion was < 2 mg/L.  
DRO extraction date: 01/31/05  
ii Matrix spike recovery not within control limits = 123%.

Analyte	Analysis Date	Result	Units	RL	Method
DRO	2/2/2005	<0.1	mg/L	0.1	WI DRO
GRO	2/1/2005	<0.1	mg/L	0.1	WI GRO
Alkalinity, Total as CaCO3	2/10/2005	320	mg/L	1	310.1
Aluminum	2/21/2005	<25	ug/L	25	200.7
Antimony	2/7/2005	<3	ug/L	3	204.2
Arsenic	2/2/2005	2.8	ug/L	2	206.2
Asbestos	2/7/2005	<0.2	MFL	0.2	600/4-83-043
Barium	2/21/2005	<10	ug/L	10	6010B/200.7
Beryllium	2/1/2005	<0.2	ug/L	0.2	210.2
BOD	1/27/2005	*<2	mg/L	2	SM 5210-B
Boron	2/21/2005	115	ug/L	35	200.7
Bromide	2/3/2005	0.11	mg/L	0.02	SM 4500-Br
Cadmium	2/1/2005	<0.2	ug/L	0.2	213.2
Calcium	2/21/2005	48.1	mg/L	0.5	200.7
Chloride	1/31/2005	41.9	mg/L	0.5	325.2
Chromium	1/31/2005	<1	ug/L	1	218.2
Cobalt	1/31/2005	<1	ug/L	1	219.2
COD	2/11/2005	3	mg/L	10	SM 5220-D
Color	1/27/2005	<5	SU	5	110.2
Conductivity	1/27/2005	950	umho/cm	1	120.1
Copper	2/1/2005	<2	ug/L	2	220.2
Fecal Coliform	1/27/2005	<2	#/100mls	2	SM 9222-D

Approved By:

  
Project Manager:

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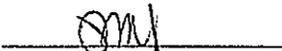


Sample ID: S050271427	Project #: 5618	Sampler: D. Engel	Type: Grab
Client: Cliffs Erie, LLC		Status: Normal	Matrix: Liquid
Study: NPDES		NTS COC No: 47008	
Descript: Water		Sampled: 1/27/2005 10:00 AM	
Location: Pit 2W		Completed: 02/28/2005	

Notes:

\* The D.O. depletion was < 2 mg/L.  
DRO extraction date: 01/31/05  
n Matrix spike recovery not within control limits = 123%.

Analyte	Analysis Date	Result	Units	RL	Method
Fluoride	2/15/2005	1.3	mg/L	0.1	340.2
Iron	2/21/2005	<0.05	mg/L	0.05	200.7
Kjeldahl Nitrogen, Total as N	2/11/2005	1.4	mg/L	0.5	351.1
Lead	2/4/2005	<1	ug/L	1	239.2
Lithium	2/21/2005	21.8	ug/L	4	200.7
Magnesium	2/21/2005	68.9	mg/L	0.5	200.7
Manganese	2/21/2005	0.02	mg/L	0.02	200.7
Molybdenum, GF	2/4/2005	22.4	ug/L	5	246.2
Nickel	1/31/2005	<2	ug/L	2	249.2
Nitrogen, Ammonia	2/15/2005	<0.1	mg/L	0.1	350.1
Nitrogen, Nitrate + Nitrite	2/15/2005	0.54	mg/L	0.1	353.2
Nitrogen, Total Organic	2/24/2005	1.4	mg/L	0.1	351.2, 350.1
pH	1/27/2005	7.9	SU	0.1	150.1
Phosphorous, Total	2/2/2005	<0.1	mg/L	0.1	365.4
Potassium	2/21/2005	n17.3	mg/L	4	200.7
Selenium, GF	2/2/2005	<2	ug/L	2	270.2
Silver, GF	2/7/2005	<1	ug/L	1	272.2
Sodium	2/21/2005	57.3	mg/L	0.5	200.7
Solids, Total Dissolved	2/1/2005	520	mg/L	10	160.1
Solids, Total Suspended	2/1/2005	<1	mg/L	1	I-3765
Strontium	2/21/2005	191	ug/L	4	200.7
Sulfate	2/1/2005	118	mg/L	1	375.4

Approved By:   
Project Manager:

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Sample ID: S050271427	Project #: 5618	Sampler: D. Engel	Type: Grab
Client: Cliffs Erie, LLC		Status: Normal	Matrix: Liquid
Study: NPDES		NTS COC No: 47008	
Descript: Water		Sampled: 1/27/2005 10:00 AM	
Location: Pit 2W		Completed: 02/28/2005	

Notes:

\* The D.O. depletion was < 2 mg/L.  
DRO extraction date: 01/31/05  
n Matrix spike recovery not within control limits = 123%.

Analyte	Analysis Date	Result	Units	RL	Method
Sulfide	1/27/2005	<2	mg/L	2	376.1
Surfactants	1/31/2005	<0.025	mg/L	0.025	425.1
Thallium	1/31/2005	<2	mg/L	2	279.2
Tin	2/10/2005	<10	ug/L	10	282.2
Titanium	2/10/2005	<10	ug/L	10	283.2
TOC	2/7/2005	2.4	mg/L	1	415.1
Turbidity	1/27/2005	0.2	NTU	0.05	180.1
Vanadium	2/21/2005	<4	ug/L	4	200.7
Zinc	2/21/2005	<10	ug/L	10	200.7

Approved By: SM  
Project Manager:

Analyses were performed by methods approved by the U.S. Environmental Protection Agency and the Minnesota Department of Health.

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