

CLIFFS ERIE - DUNKA

Dunka Pit Voluntary Monitoring SD001

	Copper (ug/L)			Nickel (ug/L)			Zinc (ug/L)			Cobalt (ug/L)			Hardness (mg/L)			Sulfate (mg/L)		
	North	Middle	South	North	Middle	South	North	Middle	South	North	Middle	South	North	Middle	South	North	Middle	South
May-04	4.0	3.3	2.7	7.8	26.6	9	<10	<10	<10	<1	<1	<1	152	202	170	109	134	74.7
Jun-04	3.1	3.9	4	7.9	29.2	6.6	<10	<10	<10	<1	<1	<1	162	206	171	122	141	72.6
Jul-04	3.1	3.5	3.4	8.7	28.7	8.4	<10	<10	<10				155	197	163			
May-05	4.3	4.5	3.9	12.3	37.8	9.8	<20	<20	<20	<1	<1	<1	168	112	172	101	113	57.5
Jul-05	5.7	4.4	9	11.0	38.0	8.3	<10	<25	<25	<2.5	<2.5	<2.5	173	218	176	121	133	63.6
Sep-05	3.1	6.1	2.8	7.8	32.0	6.9	<25	<25	<25	<2.5	<2.5	<2.5	178	213	181	114	124	64.9
May-06	5.4	5.2	4.1	10.6	34.8	7.8	<25	<25	<25	<2.5	<2.5	<2.5	156	200	164	101	118	60.4
Jul-06	4.8	5.3	3.9	11.2	36.3	7.8	<25	<25	<25	<2.5	<2.5	<2.5	191	215	178	102	114	54.4
Sep-06	3.4	4.6	4	8.7	33.7	8.1	<25	<25	<25	<2.5	<2.5	<2.5	175	209	175	112	120	60.9
Jan-07	8.2	9.9	4.2	7.6	17.5	9.5	<25	<25	<25	<2.5	<2.5	<2.5	186	180	176	99.8	58.8	55.5
May-07	4.7	5	5.6	11.7	33.8	9.1	<25	<25	<25	<2.5	<2.5	<2.5	164	199	161	105	116	57.5
Jul-07	3.8	7.2	6.1	12.2	41.1	9.8	<25	<25	<25	<2.5	<2.5	<2.5	172	203	156	105	113	55.5
Nov-07		5.4			36.0			<25			<2.5	<2.5		215			122	
Jan-08	4.6	5.6	10.4	8.2	39.4	12.4	<25	<25	36.2	<2.5	<2.5	<2.5	157	214	168	108	129	54.8
Nov-08	3.1	<2	4.3	7.5	27.9	14.8	<25	<25	<25	<2	<2	<2	171	211	193	103	118	82.9

CLIFFS ERIE - DUNKA

SD005 (Seep W-1d)

	Flow Av mgd	Cu Av ug/L	Cu Mx ug/L [23]*	Ni Av ug/L	Ni Mx ug/L [509]*	Zn Av ug/L	Zn Mx ug/L [343]*	Tox toxunit 1.00	Hard Av mg/L	Hard Mx mg/L [500]	SO4 Mx mg/L [[250]]**	T. Hg ng/L [6.9]	pH mn su 6.5	pH mx su 8.5	TSS Mx mg/L 20 / 30	D. Fe Mx mg/L 1.0 / 2.0
Jun-10	0.06	1.2	1.2	73	74	<6	<6	0.03	942	966	784		7	7.3	1	0.1
Jul-10	0.03	0.47	0.94	56	62	<6	<6	0.02	952	976	721		7.1	7.2	2	0.1
Aug-10	0.07	0.78	0.82	44	45	<6	<6	0.02	937	995	746		7.2	7.4	2	<0.05
Sep-10	0.008	<0.7	<0.7	40	41	<6	<6	0.02	1040	1070	835	0.7	7.3	7.4	4	0.1
Oct-10	0.0016	1	1.3	54	61	3.3	6.6	0.02	978	1060	750		6.9	7.3	<1	<0.05
Nov-10	0.0073	1.1	1.1	72	76	<6	<6	0.02	973	1060	721		7.1	7.6	2	<0.05
Dec-10	0.012	1.1	1.2	139	156	7.2	8.3	0.04	1235	1240	919		7.3	7.4	<1	<0.05
Jan-11	0.0038	1	1	137	137	14	14	0.04	1300	1300	998		7.3	7.3	<1	0.2
Feb-11	nd															
Mar-11	nd															
Apr-11	0.044	1.1	2.2	68	96	<6	<6	0.04	751	1030	738		7.2	7.3	<1	0.4
May-11	0.12	0.6	1.2	69	77	<6	<6	0.03	738	828	462	0.5	7.2	7.2	<1	0.1
Jun-11	0.11	1.2	<1.4	48	48	<6	<6	0.02	926	986	667		7.1	7.2	2	0.1
Jul-11	0.03	0.8	0.9	41	43	11	15	0.03	871	914	640		7.4	7.5	1	0.2
Aug-11	0.009	2.6	2.6	16.1	17.3	13	<20	0.05	1006	1020	762		7.4	7.4	2.8	0.2
Sep-11	0.004	2.5	2.6	22.4	25.5	<6	<6	0.03	1140	1140	854	<0.5	7.4	7.6	1	0.1
Oct-11	0.015	3	3.6	41	51	<6	<6	0.04	1145	1180	902		7.1	7.4	5	<0.05
Nov-11	0.02	4.9	5	74	80	7.7	8.2	0.06	1210	1280	950		7.2	7.4	3	<0.05
Dec-11	0.005	3.6	3.7	85.7	86.6	8.13	8.38	0.05	1540	1660	1390		7.2	7.3	3.2	<0.05
Jan-12	0.0006	6.4	6.4	130	130	8.9	8.9	0.08	1840	1840	1460		6.6	6.6	6	0.5
Feb-12	0.002	7.8	9.8	95.2	96.7	10.7	10.7	0.1	2010	2060	1500		6.8	7.3	9	1.4
Mar-12	0.04	3.6	4.8	44.8	60.9	6.3	6.6	0.05	1028	1620	1160		6.9	7.5	4	0.6
Apr-12	0.014	2.9	3.1	74.2	85.6	6	6	0.04	823	851	633		7.6	7.8	1.6	0.08
May-12	0.128	4	4.3	61.2	66.8	6.1	6.1	0.05	1035	1070	765	<0.5	7.5	7.5	<1	0.1
Jun-12	0.18	3.2	3.8	60.8	61.4	<6	<6	0.04	804	917	562		7.5	7.8	<1.2	<0.1
Jul-12	0.086	4	5.3	60.1	76.6	6.8	6.8	0.05	978	1070	720		7.4	7.4	2.8	0.14
Aug-12	0.11	4.2	5.1	33.5	37.7	6.5	6.8	0.05	1250	1280	963		7.3	7.5	2	<0.1
Sep-12	0.021	4.9	5	21.5	22.9	<6	<6	0.05	1330	1340	1150	<0.5	7.4	7.6	3	<0.1
Oct-12	0.013	4.3	4.6	51.1	61	7.6	9.1	0.05	1420	1440	1180		7.4	7.8	2	<0.1
Nov-12	0.021	5.5	5.5	119	133	7.2	8	0.07	1370	1410	1120		7.2	7.3	2	<0.1
Dec-12	0.016	5.2	5.3	144	154	8.2	8.3	0.07	1580	1650	1350		7.4	7.5	2	<0.05
Jan-13	0.0944	5.9	6.9	170	170	10.9	13.1	0.09	1980	1980	1730		6.7	7.4	2	<0.1
Feb-13	nd															
Mar-13	nd															
Apr-13	0.0032	2.7	2.7	26.3	30.3	<6	<6	0.03	1250	1310	1070		6.6	6.7	4	0.5
May-13	0.128	7.3	12	117	156	<6	<6	0.12	575	735	337	1.9	7	7.1	1	0.1
Jun-13	0.169	3.2	3.4	67.9	72.5	7.3	7.3	0.04	810	820	673		6.9	7.2	2	0.1
Jul-13	0.107	2.5	2.9	49.9	50.4	7.7	9.3	0.04	753	791	586		7.2	7.3	1	0.1
Aug-13	0.029	3	3	49	49.4	<6	<6	0.04	848	927	656		7.2	7.3	1.2	0.1
Sep-13	0.053	2.9	3.3	32.6	34.7	<6	<6	0.04	1070	1090	876	<0.5	7.2	7.5	3	0.1
Oct-13	0.069	3.8	3.9	53.2	75.8	<6	<6	0.05	1140	1190	967		7.3	7.8	2	<0.1
Nov-13	0.027	3.5	3.7	119	144	<9	<12	0.06	1150	1150	1050		6.7	7.6	2	0.1
Dec-13	0.008	6.3	7.1	205	243	12.1	12.1	0.08	1540	1540	1310		6.6	7.4	5	<0.1
Jan-14	0.036	6.2	6.9	144	210	12.3	12.6	0.09	1630	1660	1450		6.6	7.8	23	1
Feb-14	nd															
Mar-14	nd															
Apr-14	0.031	4.5	5.4	142	169	<6	<6	0.08	496	525	363		7.5	7.7	2	0.6
May-14	0.16	3.9	5.3	109	120	<12	<12	0.07	567	656	367	1.6	6.6	7.8	<1	0.1
Jun-14	0.1	3	3.1	92.4	97.2	<12	<12	0.05	778	853	620		7.1	7.8	2	0.1
Jul-14	0.047	3.4	3.4	73.7	81.2	<12	<12	0.05	905	907	762		7.2	7.6	1	<0.1
Aug-14	0.029	3.6	3.8	43	49	<12	<12	0.05	1130	1150	896		7.2	7.4	4	0.1
Sep-14	0.041	3.8	4	49.8	51.6	<12	<12	0.05	1170	1220	928	0.826	7.3	7.7	<3	0.1
Oct-14	0.027	3.1	3.4	55.1	57.3	<12	<12	0.05	1200	1210	1020		7.6	7.9	2	0.1
Nov-14	0.021	3.7	4.1	88.9	100	23.1	34.1	0.08	1310	1390	1080		7.2	7.6	4	0.1
Dec-14	0.0085	3.8	3.8	195	220	6.2	12.4	0.07	1500	1540	1190		7	7.3	7	<0.1

* This value is the WQS at 400 mg/L hardness. It is not a permit limit.

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CLIFFS ERIE - DUNKA

SD006 (Seep W-2/3d)

	Flow Av mgd	Cu Av ug/L	Cu Mx ug/L [23]*	Ni Av ug/L	Ni Mx ug/L [509]*	Zn Av ug/L	Zn Mx ug/L [343]*	Tox toxunit 1.00	Hard Av mg/L	Hard Mx mg/L [500]	SO4 Mx mg/L [[250]]**	T. Hg ng/L [6.9]	pH mn su 6.5	pH mx su 8.5	TSS Mx mg/L 20 / 30	D. Fe Mx mg/L 1.0 / 2.0
Jun-10	1.3		1.3		36		<6	0.02		892	805		6.7		2	0.1
Jul-10	0.05		1.1		29		<6	0.02		1050	939		7		1	0.1
Aug-10	0.07		1.1		24		<6	0.02		1000	988		7		<1	0.1
Sep-10	0.026		1.3		18		<6	0.02		1740	1560		7.1		4	0.2
Oct-10	0.073		2.5		28		<6	0.03		1300	1150		6.6		2	0.06
Nov-10	0.032		1.3		47		<6	0.02		1210	1050		6.5		4	0.1
Dec-10	0.024		1.2		36		12	0.03		1700	1420		6.7		1	0.3
Jan-11	0.0074		1.3		13		6.5	0.02		1950	1660		6.7		2	0.1
Feb-11	nd															
Mar-11	nd															
Apr-11	0.14		8.2		139		6.4	0.09		636	557		7		2	0.2
May-11	0.11		4.1		117		<6	0.05		619	534		7.1		2	0.1
Jun-11	0.11		1.2		39		<6	0.02		1340	1210		6.9		3	0.2
Jul-11	0.05		0.7		39.6		<6	0.02		1160	1100		7.3		4	0.4
Aug-11	0.01		3.8		10.6		<20	0.06		1280	1340		7.3		3.2	0.2
Sep-11	0.001		5.35		19.7		7.2	0.05		1660	1570		7.1		4.4	0.1
Oct-11	0.02		4.6		21		6.8	0.05		1700	1650		7		4	<0.1
Nov-11	0.02		8.1		33		16	0.09		1920	1720		6.9		4	0.06
Dec-11	0.006		6.08		11.1		9.61	0.06		2600	2450		6.7		10	0.2
Jan-12	nd															
Feb-12	nd															
Mar-12	0.06		7.7		55.3		16.7	0.09		2090	1860		6.7		2	0.3
Apr-12	0.074		3.4		39.7		7	0.04		1010	928		7		2.4	0.08
May-12	0.167		4.3		55.4		<6	0.05		905	786		7		2.4	<0.1
Jun-12	0.2		6.1		74.1		<6	0.06		440	408		7.2		<1	0.14
Jul-12	0.14		3.6		53.9		<6	0.04		1160	1040		7.1		3.6	0.87
Aug-12	0.03		6.6		19.4		7.7	0.06		1630	1450		6.9		1	0.2
Sep-12	0.0076		7.6		7.4		11.5	0.07		1960	1880		7.4		6	0.1
Oct-12	0.0376		7.1		17.4		10.1	0.07		2160	2060		7.2		5	0.121
Nov-12	0.029		7.5		117		10.6	0.08		1760	1760		6.8		4	<0.1
Dec-12	0.018		5.6		120		6.5	0.06		1670	1720		7		4	0.117
Jan-13	0.0037		7.8		16.4		8.4	0.07		2750	2710		6.8		6	0.116
Feb-13	nd															
Mar-13	nd															
Apr-13	0.091		4.2		9.3		<6	0.04		1880	1700		6.5		4	0.2
May-13	0.192		3.9		63.3		<6	0.04		465	437		6.7		5	0.2
Jun-13	0.101		3.8		87.8		<6	0.05		624	610		6.5		2	0.1
Jul-13	0.154		3.4		52.2		6.9	0.04		670	565		6.9		1	0.1
Aug-13	0.04		3.2		31		<6	0.04		763	695		6.8		2.8	0.1
Sep-13	0.024		3.4		10.7		<6	0.04		1400	1230		6.7		7	0.2
Oct-13	0.041		5.4		9		<6	0.05		1720	1580		6.9		3	0.1
Nov-13	0.025		5.1		52.1		6.2	0.05		1540	1440		6.7		4	0.1
Dec-13	0.017		8.3		78.2		<12	0.08		1820	1760		6.5		<1	0.3
Jan-14	0.021		7.8		10.1		<12	0.08		1960	1990		6.5		14	0.2
Feb-14	0.0013		8.5		4		<12	0.08		2190	1870		7		<1	0.1
Mar-14	0.0028		4.3		12.3		<6	0.04		2310	2100		6.9		7	0.1
Apr-14	0.14		5.8		7.4		<12	0.05		1950	1760		6.9		2	0.1
May-14	0.29		8		146		<12	0.09		412	365		6.6		<1	0.2
Jun-14	0.15		4		113		<12	0.06		779	734		6.8		2	0.2
Jul-14	0.058		3.6		82.5		<12	0.05		979	908		6.7		<1	0.1
Aug-14	0.014		4.5		37.9		<12	0.05		1400	1320		6.8		5	0.5
Sep-14	0.032		5.8		27.8		<12	0.06		1590	1390		6.5		<3	0.4
Oct-14	0.029		4.7		15.7		<12	0.05		1610	1570		7		3	0.1
Nov-14	0.018		4.6		50.6		34.1	0.09		1670	1620		6.7		5	<0.1
Dec-14	0.1		3.8		44.2		<12	0.05		2010	1700		6.6		5	0.4

* This value is the WQS at 400 mg/L hardness. It is not a permit limit.

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CLIFFS ERIE - DUNKA

SD007 (Seep EM-8)

	Flow Av mgd	Cu Av ug/L	Cu Mx ug/L [23]*	Ni Av ug/L	Ni Mx ug/L [509]*	Zn Av ug/L	Zn Mx ug/L [343]*	Tox toxunit 1.00	Hard Av mg/L	Hard Mx mg/L [500]	SO4 Mx mg/L [[250]]**	T. Hg ng/L [6.9]	pH mn su 6.5	pH mx su 8.5	TSS Mx mg/L 20 / 30	D. Fe Mx mg/L 1.0 / 2.0
Jun-10	0.36	2.7	2.8	282	290	6.7	6.7	0.06	1135	1150	1040		6.7	6.8	6	0.1
Jul-10	0.33	1.7	1.7	143	152	<6	<6	0.04	1175	1180	1030		6.8	6.8	3	0.1
Aug-10	0.44	1.6	2.1	86	101	<6	<6	0.03	978	1100	786		6.8	7	2	0.1
Sep-10	0.3	2.7	3	487	802	5.3	10.6	0.12	1115	1170	1060	0.6	7	7.2	<1	0.2
Oct-10	0.16	3.8	4.2	946	1300	19	21	0.2	1185	1280	1020		6.6	6.8	<1	<0.05
Nov-10	0.073	3.8	4.3	596	600	15	17	0.12	1008	1100	1000		6.2	6.7	1	0.2
Dec-10	0.08	3.7	4.2	231	344	7.8	16	0.1	1310	1380	1140		6.6	6.7	2	1.9
Jan-11	0.062	3.6	4.1	125	142	14	14	0.06	1350	1360	1280		6.7	6.9	<1	0.8
Feb-11	0.09	4	4.1	67	69	15	16	0.06	1405	1420	1290		6.6	6.7	<1	0.5
Mar-11	0.04	3.9	4	40	40	12	13	0.05	1460	1490	1280		6.8	6.9	2	0.4
Apr-11	0.078	6.5	9	511	935	23	33	0.21	1087	1240	1140		6.6	6.9	2	0.5
May-11	0.11	6.2	7.7	743	915	21	24	0.19	1150	1220	983	1.2	6.5	6.9	2	0.1
Jun-11	0.13	3.6	3.7	481	632	14	14	0.11	1370	1440	1210		6.9	6.9	3	0.1
Jul-11	0.14	3.3	3.4	248	305	19.5	<20	0.09	1120	1180	1000		7	7.2	6	1.4
Aug-11	0.07	5.14	5.16	149	149	15	<20	0.08	1215	1220	1150		7.1	7.1	3.6	0.3
Sep-11	0.07	4.42	4.49	87.4	92.7	7	8	0.05	1310	1320	1240	<0.5	7	7.3	6	0.2
Oct-11	0.09	5.8	6.4	391	491	15	16	0.11	1255	1270	1250		6.8	6.9	5	<0.1
Nov-11	0.05	8.4	8.6	845	922	29	29	0.2	1340	1380	1190		6.7	6.7	4	0.1
Dec-11	0.05	6.7	6.9	264	429	18.6	19.9	0.12	1525	1610	1400		6.6	6.8	5	0.8
Jan-12	0.016	9.2	9.7	236	246	21	23	0.13	1545	1550	1460		6.7	6.7	7	0.2
Feb-12	0.01	9.8	11.6	179	246	18.7	19.4	0.14	1520	1540	1450		6.8	7.2	4	0.1
Mar-12	0.03	6.05	7.86	297	342	14.3	18.2	0.12	915	1350	1260		6.9	7.6	<1	0.1
Apr-12	0.041	4.6	5.2	309	441	11	11	0.1	902	973	761		7.3	7.5	3.2	0.1
May-12	0.165	5.1	5.6	405	618	10.6	13	0.13	1110	1140	956	0.62	7.6	7.6	4	0.1
Jun-12	0.34	11.8	14	1130	1500	24.4	31.3	0.31	1145	1150	1080		7.2	7.6	2.4	<0.1
Jul-12	0.25	12.1	13	1050	1370	30.9	42	0.3	1150	1200	1070		7.1	7.2	2.8	0.1
Aug-12	0.13	7.5	9.2	417	553	13.7	15.1	0.15	1350	1370	1210		7	7.3	2	0.3
Sep-12	0.099	6.1	7.1	108	194	8.1	13.2	0.09	1290	1320	1330	<0.5	7.3	7.3	4	0.2
Oct-12	0.0866	7.9	8.4	1400	1630	29.4	35.2	0.29	1320	1350	1330		7.1	7.5	2	<0.1
Nov-12	0.063	12.3	13.6	1750	2030	41.1	46.8	0.39	1290	1310	1260		6.8	6.8	2	<0.1
Dec-12	0.082	12.4	14.8	930	1250	30.3	34.2	0.29	1530	1570	1370		7.1	7.1	4	0.2
Jan-13	0.0809	10.1	10.5	492	678	49.7	49.7	0.18	1740	1810	1850		7.2	7.4	6	0.4
Feb-13	0.0391	9	9.7	407	559	23.8	26.8	0.15	1160	1760	1600		6.5	6.8	5	0.2
Mar-13	nd															
Apr-13	0.084	9.6	9.8	808	1000	33.5	33.5	0.23	1290	1310	1180		6.5	6.6	<1	0.3
May-13	0.22	27.4	45.4	1283	1868	34.1	48.7	0.61	1012	1150	1110	0.89	6.7	6.9	3	0.1
Jun-13	0.108	8.1	8.2	453	547	12.7	12.8	0.14	794	856	835		6.8	7.2	<1	0.2
Jul-13	0.221	8.9	9.5	516	696	14.7	16.1	0.17	837	839	761		6.8	7	2	0.1
Aug-13	0.17	9.5	11.3	780	925	16.7	18.6	0.21	980	1040	901		6.9	7.2	2	0.1
Sep-13	0.1	5.7	5.8	310	409	10.2	12.5	0.11	1170	1190	1130	0.58	6.9	7.1	5	0.9
Oct-13	0.1	8.1	9.2	930	1260	19.9	25.2	0.24	1100	1180	1160		7.1	7.2	3	<0.1
Nov-13	0.093	11.3	13	1610	1790	39.2	40.8	0.35	1090	1140	1120		7.3	7.6	3	0.1
Dec-13	0.12	16.5	19.5	1420	1650	59.1	63.6	0.32	1430	1440	1390		7.3	7.5	2	0.1
Jan-14	0.22	20.9	26.7	1930	2550	98	125	0.65	1560	1590	1670		7.2	7.6	4	0.1
Feb-14	0.32	19.8	24.2	1810	1980	76.3	97.6	0.53	1490	1580	1560		6.8	7.5	<1	0.1
Mar-14	0.064	19	23.7	1740	1920	69.7	91.9	0.51	1480	1500	1530		7.1	7.4	2	0.1
Apr-14	0.067	19.4	23.7	1670	1990	59.1	68.8	0.49	1220	1360	1330		7	7.4	1	0.1
May-14	0.42	18.6	18.6	1290	1300	38.8	40	0.34	981	1030	871	0.96	7.2	7.6	2	0.1
Jun-14	0.32	15.7	17.7	1240	1250	39.6	41.7	0.33	1140	1230	1030		7	8	4	0.1
Jul-14	0.21	12.7	13.6	1230	1390	27.2	29.9	0.29	1110	1160	1130		7.5	7.5	2	0.1
Aug-14	0.24	7.3	7.5	593	609	13	13.3	0.14	1250	1280	1220		7	7.8	5	0.1
Sep-14	0.11	8.2	8.6	862	909	21	25.1	0.19	1140	1140	1090	0.553	7.3	7.6	5	0.1
Oct-14	0.07	7.5	8.3	1130	1580	28.1	36.6	0.28	1210	1210	1200		7.7	7.7	2	0.1
Nov-14	0.081	12.9	14.8	1810	1870	60.4	66.8	0.39	1330	1450	1230		7.1	7.3	5	<0.1
Dec-14	0.11	16.4	18.7	1420	1550	92.9	122	0.42	1530	1550	1370		7.3	7.4	2	0.1

* This value is the WQS at 400 mg/L hardness. It is not a permit limit.

** This value is an arbitrary value for a sulfate level of concern. It is not a WQS or permit limit.

CLIFFS ERIE - DUNKA

SD008 (Seep 1)

	Flow Av mgd	Cu Av ug/L	Cu Mx ug/L [23]*	Ni Av ug/L	Ni Mx ug/L [509]*	Zn Av ug/L	Zn Mx ug/L [343]*	Tox toxunit 1.00	Hard Av mg/L	Hard Mx mg/L [500]	SO4 Mx mg/L [[250]]**	T. Hg ng/L [6.9]	pH mn su 6.5	pH mx su 8.5	TSS Mx mg/L 20 / 30	D. Fe Mx mg/L 1.0 / 2.0
Jun-10	0.01	32	37	573	670	38	43	0.41	763	797	541		6.5	6.7	5	1.4
Jul-10	0.004	14	16	235	269	34	34	0.2	923	968	692		7.1	7.1	5	0.9
Aug-10	0.004	10	17	184	263	27	42	0.21	935	1030	735		6.9	7.2	2	0.5
Sep-10	0.093	3.9	3.9	185	185	27	27	0.09	1080	1080	863		7.2	7.2	2	0.2
Oct-10	0.077	2.7	3.7	105	130	17	21	0.07	1160	1230	886		6.8	6.9	2	0.2
Nov-10	0.0008	3.1	3.3	168	169	34	36	0.09	1120	1170	814		6.7	7.1	2	0.2
Dec-10	nd															
Jan-11	nd															
Feb-11	nd															
Mar-11	nd															
Apr-11	0.0088	27	27	711	711	76	76	0.39	410	410	287		7.2	7.2	<1	0.06
May-11	0.01	15	17	791	795	68	69	0.3	555	641	331		7	7.1	<1	0.1
Jun-11	0.009	6.1	8	499	547	31.4	38	0.17	908	982	613		7	7	8	0.2
Jul-11	0.003	3.18	3.85	285	347	21.7	30.4	0.1	907	1000	645		7	7.3	2	0.9
Aug-11	0.004	4.84	5.56	111	116	13	<20	0.08	1070	1080	838		7.3	7.4	2	0.2
Sep-11	nd															
Oct-11	nd															
Nov-11	nd															
Dec-11	nd															
Jan-12	nd															
Feb-12	nd															
Mar-12	0.0009	21.2	22.2	1148	1470	106	146	0.52	570	662	370		7.5	7.6	2	0.1
Apr-12	0.0034	16.3	17.9	1073	1550	113	158	0.51	645	744	607		7.4	7.7	1.2	<0.05
May-12	0.017	14.8	17.2	1200	1230	109	128	0.43	759	810	523		7.5	7.6	3.6	<0.1
Jun-12	0.02	14.5	17.9	1975	2370	112	148	0.59	946	1110	661		7.3	7.6	1.2	<0.1
Jul-12	0.0057	14.3	20.3	1000	1590	50.4	78.6	0.43	1120	1160	951		7.2	7.3	4.4	0.52
Aug-12	0.0003	5.6	6.2	201	225	12.5	14.5	0.08	1240	1280	928		6.9	7.3	3	0.3
Sep-12	nd															
Oct-12	nd															
Nov-12	0.0001	16.5	17.6	2490	2690	252	283	0.8	1200	1210	979		7	7	1	<0.1
Dec-12	nd															
Jan-13	nd															
Feb-13	nd															
Mar-13	nd															
Apr-13	nd															
May-13	nd															
Jun-13	0.0081	11.1	11.4	1250	1290	77.3	78.1	0.33	766	870	564		6.5	7.2	2	0.1
Jul-13	0.0106	10.4	11.3	920	1020	46.1	51.7	0.25	752	782	622		7	7.1	10	0.1
Aug-13	0.001	7.2	9.2	563	715	110	204	0.42	1050	1110	790		6.9	7.3	2.4	0.6
Sep-13	0.0007	6.4	6.8	281	313	18.2	21.8	0.11	1220	1230	975		7.5	7.6	5	0.1
Oct-13	0.002	6.2	6.7	352	433	28.4	37.8	0.15	1080	1170	922		7.1	7.7	4	<0.1
Nov-13	0.0024	5.3	5.4	594	636	55.5	55.9	0.18	980	1040	856		7.5	7.5	2	0.4
Dec-13	nd															
Jan-14	nd															
Feb-14	nd															
Mar-14	nd															
Apr-14	nd															
May-14	nd															
Jun-14	0.14	8.4	9.7	1480	1530	66.3	69.6	0.33	756	764	607		7.6	7.8	<1	0.1
Jul-14	0.12	6.2	6.5	843	1120	31	38.8	0.22	868	898	727		7.7	7.7	2	0.2
Aug-14	0.032	6.2	6.6	319	337	17.6	19.4	0.11	1050	1080	779		7.5	7.7	3	0.1
Sep-14	0.0015	5.3	5.5	288	322	15.1	16.4	0.1	1010	1040	789		7.6	7.6	7	0.2
Oct-14	0.00011	4.5	4.8	354	396	17.2	18.6	0.1	1020	1030	856		8.1	8.1	<1	<0.1
Nov-14	nd															
Dec-14	nd															

* This value is the WQS at 400 mg/L hardness. It is not a permit limit.

** This value is an arbitrary value for a sulfate level of concern. It is not a WQS or permit limit.

CLIFFS ERIE - DUNKA

SD009 (Seep X)

	Flow Av mgd	Cu Av ug/L	Cu Mx ug/L [23]*	Ni Av ug/L	Ni Mx ug/L [509]*	Zn Av ug/L	Zn Mx ug/L [343]*	Tox toxunit 1.00	Hard Av mg/L	Hard Mx mg/L [500]	SO4 Mx mg/L [[250]]**	T. Hg ng/L [6.9]	pH mn su 6.5	pH mx su 8.5	TSS Mx mg/L 20 / 30	D. Fe Mx mg/L 1.0 / 2.0
Jun-10	0.03	8.6	9	191	198	33	38	0.14	1825	1840	1600		6.5	6.6	11	1
Jul-10	0.05	6.6	7	142	149	24	25	0.1	1795	1830	1540		6.8	6.9	8	1.6
Aug-10	0.05	3.3	6.6	97	113	14	28	0.1	1575	1780	1260		6.8	6.8	2	0.4
Sep-10	0.098	1.9	2	51	55	13	19	0.05	1835	1860	1640	1.1	7.1	7.2	5	0.6
Oct-10	0.025	3.8	4.1	90	95	36	38	0.09	1890	2050	1550		6.6	6.7	1	0.2
Nov-10	0.025	9.2	9.5	629	635	151	157	0.35	1885	1960	1580		6.7	7	1	0.2
Dec-10	0.024	18	21	586	624	207	223	0.51	2090	2100	1800		6.9	7	4	0.3
Jan-11	0.02	40	45	1029	1100	298	336	0.91	2065	2090	1870		7.1	7.2	2	0.2
Feb-11	0.017	42	44	871	896	299	314	0.84	2140	2180	1870		7	7	2	0.1
Mar-11	0.016	38	40	664	665	233	237	0.69	2175	2210	1840		7	7.1	3	0.2
Apr-11	0.016	22	32	284	436	96	152	0.49	1390	1690	1470		7.1	7.2	2	0.2
May-11	0.02	7	8	112	114	38	44	0.14	1830	2010	1450	0.5	6.8	7	5	0.2
Jun-11	0.03	4.1	4.5	73.8	83.3	36.3	40.9	0.1	2105	2140	1830		6.9	7	8	0.4
Jul-11	0.05	2.6	3.6	124	140	34	38.1	0.09	1820	1870	1600		7.2	7.2	6	0.3
Aug-11	0.03	5.53	6.03	60.2	61.6	13	<20	0.07	1955	1960	1720		7.1	7.1	3.6	0.6
Sep-11	0.03	6.11	6.47	100	119	25.8	27.6	0.1	1945	1980	1790	<0.5	7.2	7.3	5	0.2
Oct-11	0.03	7.4	8.9	97	128	31	39	0.13	1915	1920	1790		6.9	7.1	8	0.1
Nov-11	0.03	14.6	14.9	421	471	126	144	0.36	2100	2190	1800		6.9	6.9	5	0.1
Dec-11	0.02	12	14.2	416	464	124	130	0.33	2145	2190	2070		6.9	7	6.8	0.25
Jan-12	0.018	21	21	1120	1140	386	387	0.8	2160	2160	1980		7	7	7	0.3
Feb-12	0.02	11.5	15.9	444	504	137	140	0.36	2155	2220	1980		6.8	7.2	10	0.6
Mar-12	0.02	19.9	25.5	369	456	113	131	0.35	1563	2140	1890		6.8	7.5	2	0.5
Apr-12	0.014	17.8	20.3	260	304	82	109	0.33	1600	1720	1470		7.4	7.7	5.6	0.11
May-12	0.038	10.1	11.3	106	138	41.1	49.2	0.17	1890	1910	1610	<0.5	7.4	7.4	3.2	0.1
Jun-12	0.09	12	14.1	166	213	51.1	61.5	0.21	1615	1680	1410		7.3	7.7	2	<0.1
Jul-12	0.096	14.6	16.6	375	429	92	111	0.32	1720	1900	1430		7.3	7.5	1.6	0.12
Aug-12	0.08	12.6	13.7	270	280	72.7	79.4	0.22	2010	2070	1730		7.2	7.4	3	0.2
Sep-12	0.023	12	12.6	224	245	69.2	76.7	0.22	2000	2020	1860	<0.5	7.2	7.5	3	0.1
Oct-12	0.0228	15.4	15.8	600	661	184	209	0.46	1990	2000	1880		7.1	7.6	2	<0.1
Nov-12	0.029	19.1	19.7	609	684	246	413	0.54	1910	1940	1790		6.9	7	2	0.1
Dec-12	0.008	27.5	32.5	1060	1080	371	383	0.64	2140	2200	1880		7.3	7.3	4	0.057
Jan-13	0.0068	20.2	21.4	1540	1540	288	391	0.85	2280	2310	2450		7.4	7.3	3	0.265
Feb-13	0.0022	11.6	14.9	355	413	68.4	83.5	0.27	2260	2400	2050		6.9	6.7	8	0.3
Mar-13	0.025	14.4	15.8	399	441	70	74.7	0.26	2340	2470	2300		7	6.6	5	0.4
Apr-13	0.018	80	118	882	1050	253	325	1.44	1990	2020	1870		6.8	6.9	4	0.1
May-13	nd															
Jun-13	0.0252	9.9	12	198	315	45.7	64.6	0.21	1690	1730	1470		6.7	7.2	4	0.2
Jul-13	0.0662	14	15.3	210	277	62.9	72.6	0.24	1450	1630	1450		7.2	7.3	3	0.1
Aug-13	0.046	13.4	13.7	502	652	125	148	0.37	1760	1850	1530		7.1	7.2	3.6	<0.1
Sep-13	0.036	10.7	11.1	273	281	92	101	0.25	1880	1940	1750	<0.5	7	7.1	4	0.1
Oct-13	0.043	11.7	16.9	349	509	110	161	0.4	1760	1860	1770		7.2	7.2	3	<0.1
Nov-13	0.033	14.4	15.6	760	817	229	241	0.53	1760	1780	1720		7.4	7.5	6	0.1
Dec-13	nd															
Jan-14	nd															
Feb-14	nd															
Mar-14	0.014	74.4	77.6	944	953	340	343	1.15	2080	2140	1930		6.9	7.4	2	0.1
Apr-14	0.0058	87	87	822	822	313	313	1.17	1830	1830	1710		7.5	7.5	3	0.3
May-14	nd															
Jun-14	0.093	18.7	18.7	512	512	194	194	0.45	1740	1740	1520		7.7	7.7	5	<0.1
Jul-14	0.084	18.5	20.3	526	530	197	198	0.47	1760	1800	1660		7.5	7.6	2	<0.1
Aug-14	0.057	14.1	15.8	367	440	127	150	0.37	2000	2050	1820		7.2	7.8	6	0.2
Sep-14	0.059	14.3	15.5	333	370	131	157	0.37	1830	1900	1660	0.584	7.2	7.6	<3	0.1
Oct-14	0.047	12.4	12.8	428	493	193	227	0.45	1880	1930	1740		7.6	7.8	2	0.1
Nov-14	0.032	21.8	26.2	753	775	337	356	0.75	2070	2180	1850		7.2	7.4	7	<0.1
Dec-14	nd															

* This value is the WQS at 400 mg/L hardness. It is not a permit limit.

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CLIFFS ERIE - DUNKA

Permit Application Monitoring

	Units	WQS	SD005		SD007		SD008		SD009	
			2004	2008	2004	2008	2004	2008	2004	2008
T. Al	ug/L	125	<25	<25	<25	28.8	<25	34.6	<25	41.3
T. Sb	ug/L	31	<3	<10	<3	<10	<3	<10	<3	<10
T. As	ug/L	53	<2	<2	<2	<2	<2	<2	<2	2.8
T. Ba	ug/L		26.4	20.1	17	12.3	31.9	20	16.2	13.7
T. Be	ug/L		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
T. B	ug/L	500	369	485	231	210	218	253	415	536
T. Cd	ug/L	3.4*	<0.2	<0.2	<0.2	<0.2	0.6	3.77	0.7	1.85
Ca	mg/L		190	167	268	202	267	185	307	302
T. Cr^	ug/L	644* / 11	2.1	<2	1.4	<2	2	<2	1.8	<2
T. Co	ug/L	5 / 50***	<1	<2	1.3	2.25	6.5	6.22	<1	<2
T. Cu	ug/L	23*	<2	2.2	5.3	3.9	9.2	24.8	20	42.2
T. Fe	mg/L		0.07	0.14	0.45	0.362	0.96	0.103	0.05	<0.05
T. Pb	ug/L	19*	<2	<1	<2	<1	<2	<1	<2	1.1
T. Li	ug/L		16.3	16.2	33	14	111	93.7	81.1	116
T. Mg	mg/L		208	162	164	117	170	107	362	336
T. Mn	mg/L		0.03	0.079	0.04	0.44	0.7	0.076	0.15	0.054
T. Hg	ng/L	6.9	<4	<0.2	5.8	<0.2	<4	<0.2	<4	<0.2
T. Mo	ug/L		<5	<5	<5	<5	<5	<5	<5	<5
T. Ni	ug/L	509*	35.3	160	1510	277	770	5300	766	1690
K	mg/L		4.1	5.61	8.5	8.72	6	5.69	8.6	8.53
T. Se	ug/L	5.0	<2	<2	<2	2	<2	3.3	<10	3.8
T. Ag	ug/L	1.0	<1	<1	<1	<1	<1	<1	<1	<1
T. Na	mg/L		26.7	21.1	75.6	46.6	16.4	10.7	59.4	50.3
T. Sr	ug/L		573	475	744	574	509	349	836	824
T. Tl	ug/L	0.56	<2	<2	<2	<2	<2	<2	<2	<2
T. Sn	ug/L		<50	<125	<50	<125	<50	<125	<50	<125
T. Ti	ug/L		<10	<10	<10	<10	<10	<10	<10	<10
T. V	ug/L		<4	<10	<4	<10	<4	<10	<4	<10
T. Zn	ug/L	343*	<10	<25	14.4	<25	56.5	473	250	596
BOD	mg/L		<2	<3	<2	<2.4	<2	<2.4	<2	<2.4
Cl	mg/L	230	2.3	1.11	5.6	1.43	2.9	0.9	8.4	4.95
COD	mg/L		31	21	29	35.8	38	17	26	23
F	mg/L		0.11	0.61	0.12	0.62	0.19	0.66	0.2	0.77
T. N	ug/L		0.92	0.67	0.8	0.74	1.3	0.59	2.3	0.78
Amm-N	mg/L		<0.1	0.12	<0.1	<0.1	<0.1	0.14	<0.1	<0.1
NO3-N	mg/L		<0.1	<0.1	<0.1	<0.1	<0.1	0.28	<0.1	0.2
TKN	mg/L		0.92	0.79	0.8	0.74	1.3	0.73	2.3	0.78
O&G	mg/L		<2	<2	<2	<2	<2	<2	<2	<2
pH	su	6.5-8.5	7.3	7.09	6.9	6.71	7.2	6.87	7.3	6.96
T. P	mg/L	0.03**	<0.1	<0.1	<0.1	0.1	0.12	0.11	<0.1	<0.1
Hardness	mg/L	500	1331	1084	1345	986	1367	903	2257	2134
TDS	mg/L	700	1700	1360	1900	1330	1730	1110	3030	2590
TSS	mg/L		2.5		1		3		2	
Sulfate	mg/L	1000^^	1150	950	1370	895	1180	784	2300	1930
Sulfide	mg/L		<2	<1	<2	<1	<2	<1	<2	<1
Surf	mg/L		<0.025	0.03	<0.025	0.03	<0.025	<0.03	<0.025	0.03
Temp	*C		4.8	20.1	4	19.2	5.2	18.7	4.2	17.3
TOC	mg/L		10.2	8.7	8.4	12	15.1	5.2	8.7	6.2

* WQS hardness dependent. Listed standard at 400 mg/L hardness

** WQS applicable to lakes in Northern Lakes and Forest Ecoregion

*** Previous permit had a site-specific WQS of 50 ug/L

^ WQS listed are for +3 and +6 forms respectively

^^ WQS based on wildlife criteria

CLIFFS ERIE - DUNKA

Permit Application Monitoring

	Units	WQS	SD005		SD007		SD008		SD009	
			2004	2008	2004	2008	2004	2008	2004	2008
T. Al	ug/L	125	<25	<25	<25	28.8	<25	34.6	<25	41.3
T. Sb	ug/L	31	<3	<10	<3	<10	<3	<10	<3	<10
T. As	ug/L	53	<2	<2	<2	<2	<2	<2	<2	2.8
T. Ba	ug/L		26.4	20.1	17	12.3	31.9	20	16.2	13.7
T. Be	ug/L		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
T. B	ug/L	500	369	485	231	210	218	253	415	536
T. Cd	ug/L	3.4*	<0.2	<0.2	<0.2	<0.2	0.6	3.77	0.7	1.85
Ca	mg/L		190	167	268	202	267	185	307	302
T. Cr^	ug/L	644* / 11	2.1	<2	1.4	<2	2	<2	1.8	<2
T. Co	ug/L	5 / 50***	<1	<2	1.3	2.25	6.5	6.22	<1	<2
T. Cu	ug/L	23*	<2	2.2	5.3	3.9	9.2	24.8	20	42.2
T. Fe	mg/L		0.07	0.14	0.45	0.362	0.96	0.103	0.05	<0.05
T. Pb	ug/L	19*	<2	<1	<2	<1	<2	<1	<2	1.1
T. Li	ug/L		16.3	16.2	33	14	111	93.7	81.1	116
T. Mg	mg/L		208	162	164	117	170	107	362	336
T. Mn	mg/L		0.03	0.079	0.04	0.44	0.7	0.076	0.15	0.054
T. Hg	ng/L	6.9	<4	<0.2	5.8	<0.2	<4	<0.2	<4	<0.2
T. Mo	ug/L		<5	<5	<5	<5	<5	<5	<5	<5
T. Ni	ug/L	509*	35.3	160	1510	277	770	5300	766	1690
K	mg/L		4.1	5.61	8.5	8.72	6	5.69	8.6	8.53
T. Se	ug/L	5.0	<2	<2	<2	2	<2	3.3	<10	3.8
T. Ag	ug/L	1.0	<1	<1	<1	<1	<1	<1	<1	<1
T. Na	mg/L		26.7	21.1	75.6	46.6	16.4	10.7	59.4	50.3
T. Sr	ug/L		573	475	744	574	509	349	836	824
T. Tl	ug/L	0.56	<2	<2	<2	<2	<2	<2	<2	<2
T. Sn	ug/L		<50	<125	<50	<125	<50	<125	<50	<125
T. Ti	ug/L		<10	<10	<10	<10	<10	<10	<10	<10
T. V	ug/L		<4	<10	<4	<10	<4	<10	<4	<10
T. Zn	ug/L	343*	<10	<25	14.4	<25	56.5	473	250	596
BOD	mg/L		<2	<3	<2	<2.4	<2	<2.4	<2	<2.4
Cl	mg/L	230	2.3	1.11	5.6	1.43	2.9	0.9	8.4	4.95
COD	mg/L		31	21	29	35.8	38	17	26	23
F	mg/L		0.11	0.61	0.12	0.62	0.19	0.66	0.2	0.77
T. N	ug/L		0.92	0.67	0.8	0.74	1.3	0.59	2.3	0.78
Amm-N	mg/L		<0.1	0.12	<0.1	<0.1	<0.1	0.14	<0.1	<0.1
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Sulfide	mg/L		<2	<1	<2	<1	<2	<1	<2	<1
Surf	mg/L		<0.025	0.03	<0.025	0.03	<0.025	<0.03	<0.025	0.03
Temp	*C		4.8	20.1	4	19.2	5.2	18.7	4.2	17.3
TOC	mg/L		10.2	8.7	8.4	12	15.1	5.2	8.7	6.2

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^^ WQS based on wildlife criteria

FACILITY NAME/ADDRESS: Cliffs Erie - Dunka Mining Area County Road 666 Babbitt, MN 55706		PERMIT# MN0042579	DISCHARGE MONITORING SUMMARY					
STATION INFORMATION: SW-001 (Unnamed Cr. Monitoring At EM-1) Surface Water, Stream/River/Ditch, Downstream								
DATE	Flow Av mgd	Copper ug/L (single grab)	Nickel ug/L (single grab)	Zinc ug/L (single grab)	Hardness mg/L (single grab)	Calcium mg/L (single or mx*)	S.Conduct µmho/cm (single or mx*)	Sulfate mg/L (single or mx*)
2013-Jan	0.25	3.0	134.0	15.5	742	133.0	1235	723
2013-Feb	0.139	9.9	332.0	49.0	2270	405.0	1370	1840
2013-Mar	0.173	2.9	150.0	11.0	780	139.0	1335	703
2013-Apr	0.21	4.9	191.0	19.5	615	108.0	1083	559
2013-May	4.07	4.5	127.0	23.0	153	31.2*	343*	118*
2013-June	2.65	3.4	65.7	7.3	169	30.6	353	137
2013-July	1.54	2.8	65.9	9.1	277	53.6*	560*	205*
2013-Aug	0.43	2.6	53.5	<6.0	342	60.4	645	252
2013-Sept	0.37	2.4	39.4	<6.0	599	105.0	1076	487
2013-Oct	0.77	3.5	40.6	9.7	745	133*	1288*	654*
2013-Nov	0.84	2.9	57.8	7.7	490	84.8	917	450
2013-Dec	1.00	3.7	70.4	13.6	514	91.2	970*	463
2014-Jan	0.07	16.4	381.0	56.0	688	125.0	1225	613
2014-Feb	0.16	7.1	265.0	33.6	692	125.0	1255	570
2014-Mar	0.27	7.7	280.0	43.2	583	104.0	1111	535
2014-Apr	0.032	11.4	221.0	44.7	508	89.3	936	420
2014-May	13	5.5	82.2	12.7	131	39.2*	417*	146*

Several samples were provided in some Supplemental Reports; where this was done maximum* levels are provided.
Class 4A WQS for specific conductance is 1000 µmho/cm and for sulfates is 10 mg/L in wild rice waters.
Class 3C WQS for hardness is 500 mg/L
Chronic Class 2B WQS at 50 mg/L hardness (background) are 6.4 ug/L for copper, 88 ug/L for nickel, 59 ug/L for zinc.
Summary of MPCA data by WaterLegacy

FACILITY NAME/ADDRESS: Cliffs Erie - Dunka Mining Area County Road 666 Babbitt, MN 55706	PERMIT#	DISCHARGE MONITORING SUMMARY
	MN0042579	

STATION INFORMATION:

SD-007 (Seep EM-8 (041) Wetland Trmt Dschrg)

Surface Discharge, Effluent To Surface Water

DATE	Calcium Max mg/L	Calcium Av mg/L	S.Conduct Max µmho/cm	S. Conduct Av µmho/cm
2013-Jan	350	366.0	2545	2370.0
2013-Feb	339	319.0	2641	2525.5
2013-Mar	no data	no data	no data	no data
2013-Apr	266	394.5	2180	2095.0
2013-May	239	208.0	1930	1719.5
2013-June	170	160.0	1541	1351.0
2013-July	179	178.5	1499	1472.0
2013-Aug	216	206.5	1775	1719.5
2013-Sept	254	249.5	1994	1969.5
2013-Oct	248	232.5	1975	1918.3
2013-Nov	239	227.0	2006	1950.5
2013-Dec	289	282.5	2393	2321.0
2014-Jan	298	291.0	2494	2473.0
2014-Feb	294	286.0	2512	2491.0
2014-Mar	289	288.5	2441	2391.0
2014-Apr	275	245.5	2218	2081.5
2014-May	199	193.5	1775	1752.5

Class 4A WQS for specific conductance is 1000 µmho/cm

Summary of MPCa data by WaterLegacy