

EXHIBIT 10

Chloride effluent concentrations November, 2014 - mid March, 2015

CALUMET WRP	Chloride mg/L	O'Brien WRP	Chloride mg/L	Stickney WRP	Chloride mg/L 4 day avg.	
11/1/2014 CAOUT	119	11/1/2014 NSOUT_1	147	11/1/2014 STOUT	158	
11/2/2014 CAOUT	87	11/2/2014 NSOUT_1	142	11/2/2014 STOUT	153	
11/3/2014 CAOUT	82	11/3/2014 NSOUT_1	141	11/3/2014 STOUT	145	
11/4/2014 CAOUT	99	11/4/2014 NSOUT_1	147	11/4/2014 STOUT	152	152
11/5/2014 CAOUT	90	11/5/2014 NSOUT_1	145	11/5/2014 STOUT	154	151
11/6/2014 CAOUT	113	11/6/2014 NSOUT_1	144	11/6/2014 STOUT	159	153
11/7/2014 CAOUT	112	11/7/2014 NSOUT_1	142	11/7/2014 STOUT	153	155
11/8/2014 CAOUT	108	11/8/2014 NSOUT_1	138	11/8/2014 STOUT	160	157
11/9/2014 CAOUT	82	11/9/2014 NSOUT_1	135	11/9/2014 STOUT	150	156
11/10/2014 CAOUT	96	11/10/2014 NSOUT_1	131	11/10/2014 STOUT	138	150
11/11/2014 CAOUT	121	11/11/2014 NSOUT_1	128	11/11/2014 STOUT	145	148
11/12/2014 CAOUT	98	11/12/2014 NSOUT_1	124	11/12/2014 STOUT	139	143
11/13/2014 CAOUT	103	11/13/2014 NSOUT_1	134	11/13/2014 STOUT	141	141
11/14/2014 CAOUT	116	11/14/2014 NSOUT_1	135	11/14/2014 STOUT	141	142
11/15/2014 CAOUT	103	11/15/2014 NSOUT_1	133	11/15/2014 STOUT	142	141
11/16/2014 CAOUT	113	11/16/2014 NSOUT_1	131	11/16/2014 STOUT	137	140
11/17/2014 CAOUT	86	11/17/2014 NSOUT_1	130	11/17/2014 STOUT	133	138
11/18/2014 CAOUT	102	11/18/2014 NSOUT_1	132	11/18/2014 STOUT	137	137
11/19/2014 CAOUT	120	11/19/2014 NSOUT_1	132	11/19/2014 STOUT	142	137
11/20/2014 CAOUT	114	11/20/2014 NSOUT_1	131	11/20/2014 STOUT	145	139
11/21/2014 CAOUT	110	11/21/2014 NSOUT_1	127	11/21/2014 STOUT	146	143
11/22/2014 CAOUT	94	11/22/2014 NSOUT_1	148	11/22/2014 STOUT	156	147
11/23/2014 CAOUT	103	11/23/2014 NSOUT_1	161	11/23/2014 STOUT	163	153
11/24/2014 CAOUT	54	11/24/2014 NSOUT_1	112	11/24/2014 STOUT	105	143
11/25/2014 CAOUT	61	11/25/2014 NSOUT_1	152	11/25/2014 STOUT	118	136
11/26/2014 CAOUT	108	11/26/2014 NSOUT_1	162	11/26/2014 STOUT	133	130
11/27/2014 CAOUT	95	11/27/2014 NSOUT_1	157	11/27/2014 STOUT	135	123
11/28/2014 CAOUT	103	11/28/2014 NSOUT_1	151	11/28/2014 STOUT	128	129
11/29/2014 CAOUT	114	11/29/2014 NSOUT_1	152	11/29/2014 STOUT	134	133
11/30/2014 CAOUT	114	11/30/2014 NSOUT_1	149	11/30/2014 STOUT	140	134

Chloride effluent concentrations during December, 2014 - April, 2015 and Comparison to
New Water Quality Standards in the Chicago Area Waterway System

CALUMET WRP	Chloride mg/L	O'Brien WRP	Chloride mg/L	Stickney WRP	Chloride mg/L 4 day avg.	
12/1/2014	107	12/1/2014	142	12/1/2014	141	
12/2/2014	99	12/2/2014	144	12/2/2014	147	
12/3/2014	102	12/3/2014	143	12/3/2014	149	
12/4/2014	115	12/4/2014	140	12/4/2014	150	147
12/5/2014	114	12/5/2014	138	12/5/2014	148	149
12/6/2014	83	12/6/2014	137	12/6/2014	154	150
12/7/2014	82	12/7/2014	132	12/7/2014	144	149
12/8/2014	107	12/8/2014	148	12/8/2014	142	147
12/9/2014	107	12/9/2014	167	12/9/2014	161	150
12/10/2014	133	12/10/2014	152	12/10/2014	158	151
12/11/2014	116	12/11/2014	144	12/11/2014	157	155
12/12/2014	117	12/12/2014	140	12/12/2014	156	158
12/13/2014	131	12/13/2014	140	12/13/2014	153	156
12/14/2014	119	12/14/2014	135	12/14/2014	150	154
12/15/2014	120	12/15/2014	133	12/15/2014	143	151
12/16/2014	125	12/16/2014	149	12/16/2014	163	152
12/17/2014	133	12/17/2014	NS	12/17/2014	166	156
12/18/2014	111	12/18/2014	NS	12/18/2014	158	158
12/19/2014	127	12/19/2014	NS	12/19/2014	149	159
12/20/2014	111	12/20/2014	144	12/20/2014	144	154
12/21/2014	110	12/21/2014	133	12/21/2014	139	148
12/22/2014	110	12/22/2014	133	12/22/2014	139	143
12/23/2014	109	12/23/2014	118	12/23/2014	128	138
12/24/2014	99	12/24/2014	143	12/24/2014	135	135
12/25/2014	98	12/25/2014	144	12/25/2014	138	135
12/26/2014	99	12/26/2014	148	12/26/2014	141	136
12/27/2014	121	12/27/2014	149	12/27/2014	149	141
12/28/2014	116	12/28/2014	146	12/28/2014	152	145
12/29/2014	108	12/29/2014	143	12/29/2014	148	148
12/30/2014	133	12/30/2014	146	12/30/2014	154	151
12/31/2014	139	12/31/2014	141	12/31/2014	156	153
1/1/2015	123	1/1/2015	136	1/1/2015	152	153
1/2/2015	131	1/2/2015	134	1/2/2015	147	152
1/3/2015	150	1/3/2015	629	1/3/2015	273	182
1/4/2015	452	1/4/2015	430	1/4/2015	496	267
1/5/2015	428	1/5/2015	564	1/5/2015	649	391
1/6/2015	293	1/6/2015	263	1/6/2015	477	474
1/7/2015	294	1/7/2015	377	1/7/2015	472	524
1/8/2015	200	1/8/2015	194	1/8/2015	342	485
1/9/2015	210	1/9/2015	246	1/9/2015	307	400
1/10/2015	226	1/10/2015	310	1/10/2015	401	381
1/11/2015	180	1/11/2015	240	1/11/2015	328	345

1/12/2015	344	1/12/2015	723	1/12/2015	650	422
1/13/2015	404	1/13/2015	755	1/13/2015	835	554
1/14/2015	336	1/14/2015	403	1/14/2015	576	597
1/15/2015	252	1/15/2015	242	1/15/2015	401	616
1/16/2015	190	1/16/2015	327	1/16/2015	363	544
1/17/2015	198	1/17/2015	414	1/17/2015	388	432
1/18/2015	196	1/18/2015	819	1/18/2015	651	451
1/19/2015	186	1/19/2015	453	1/19/2015	527	482
1/20/2015	162	1/20/2015	302	1/20/2015	380	487
1/21/2015	158	1/21/2015	273	1/21/2015	318	469
1/22/2015	120	1/22/2015	259	1/22/2015	284	377
1/23/2015	148	1/23/2015	281	1/23/2015	262	311
1/24/2015	124	1/24/2015	215	1/24/2015	243	277
1/25/2015	120	1/25/2015	229	1/25/2015	238	257
1/26/2015	198	1/26/2015	523	1/26/2015	545	322
1/27/2015	124	1/27/2015	401	1/27/2015	504	383
1/28/2015	292	1/28/2015	362	1/28/2015	507	449
1/29/2015	184	1/29/2015	283	1/29/2015	411	492
1/30/2015	168	1/30/2015	251	1/30/2015	362	446
1/31/2015	214	1/31/2015	206	1/31/2015	288	392
2/1/2015	318	2/1/2015	641	2/1/2015	393	364
2/2/2015	416	2/2/2015	994	2/2/2015	1155	550
2/3/2015	648	2/3/2015	1065	2/3/2015	1360	799
2/4/2015	660	2/4/2015	946	2/4/2015	1116	1006
2/5/2015	720	2/5/2015	887	2/5/2015	1119	1188
2/6/2015	552	2/6/2015	534	2/6/2015	821	1104
2/7/2015	452	2/7/2015	543	2/7/2015	657	928
2/8/2015	755	2/8/2015	1045	2/8/2015	1092	922
2/9/2015	770	2/9/2015	765	2/9/2015	950	880
2/10/2015	575	2/10/2015	516	2/10/2015	673	843
2/11/2015	398	2/11/2015	406	2/11/2015	534	812
2/12/2015	326	2/12/2015	366	2/12/2015	451	652
2/13/2015	318	2/13/2015	315	2/13/2015	398	514
2/14/2015	248	2/14/2015	275	2/14/2015	347	433
2/15/2015	256	2/15/2015	233	2/15/2015	309	376
2/16/2015	222	2/16/2015	324	2/16/2015	316	343
2/17/2015	100	2/17/2015	275	2/17/2015	304	319
2/18/2015	95	2/18/2015	226	2/18/2015	275	301
2/19/2015	95	2/19/2015	201	2/19/2015	248	286
2/20/2015	90	2/20/2015	180	2/20/2015	225	263
2/21/2015	80	2/21/2015	180	2/21/2015	219	242
2/22/2015	75	2/22/2015	177	2/22/2015	211	226
2/23/2015	75	2/23/2015	166	2/23/2015	202	214
2/24/2015	70	2/24/2015	171	2/24/2015	200	208
2/25/2015	70	2/25/2015	170	2/25/2015	200	203
2/26/2015	85	2/26/2015	421	2/26/2015	285	222
2/27/2015	300	2/27/2015	939	2/27/2015	898	396

2/28/2015	195	2/28/2015	455	2/28/2015	653	509
3/1/2015	175	3/1/2015	267	3/1/2015	452	572
3/2/2015	140	3/2/2015	220	3/2/2015	377	595
3/3/2015	165	3/3/2015	466	3/3/2015	416	475
3/4/2015	285	3/4/2015	1044	3/4/2015	974	555
3/5/2015	170	3/5/2015	445	3/5/2015	641	602
3/6/2015	130	3/6/2015	282	3/6/2015	426	614
3/7/2015	140	3/7/2015	251	3/7/2015	344	596
3/8/2015	362	3/8/2015	561	3/8/2015	462	468
3/9/2015	378	3/9/2015	528	3/9/2015	444	419
3/10/2015	398	3/10/2015	527	3/10/2015	461	428
3/11/2015	342	3/11/2015	515	3/11/2015	496	466
3/12/2015	304	3/12/2015	489	3/12/2015	473	469
3/13/2015	282	3/13/2015	448	3/13/2015	446	469
3/14/2015	308	3/14/2015	429	3/14/2015	423	460
3/15/2015	280	3/15/2015	398	3/15/2015	388	433
3/16/2015	294	3/16/2015	379	3/16/2015	365	406
3/17/2015	264	3/17/2015	362	3/17/2015	352	382
3/18/2015	230	3/18/2015	343	3/18/2015	335	360
3/19/2015	232	3/19/2015	323	3/19/2015	316	342
3/20/2015	204	3/20/2015	302	3/20/2015	304	327
3/21/2015	172	3/21/2015	286	3/21/2015	291	312
3/22/2015	160	3/22/2015	270	3/22/2015	273	296
3/23/2015	170	3/23/2015	438	3/23/2015	352	305
3/24/2015	430	3/24/2015	965	3/24/2015	1011	482
3/25/2015	332	3/25/2015	461.89	3/25/2015	575	553
3/26/2015	234	3/26/2015	404.45	3/26/2015	524	616
3/27/2015	216	3/27/2015	403.52	3/27/2015	483	648
3/28/2015	232	3/28/2015	377.71	3/28/2015	418	500
3/29/2015	194	3/29/2015	326.46	3/29/2015	350	444
3/30/2015	184	3/30/2015	324.08	3/30/2015	341	398
3/31/2015	180	3/31/2015	299.27	3/31/2015	327	359
4/1/2015	196	4/1/2015	294.04	4/1/2015	287	326
4/2/2015	222	4/2/2015	336.8	4/2/2015	316	318
4/3/2015	276	4/3/2015	344.06	4/3/2015	371	325
4/4/2015	200	4/4/2015	282.94	4/4/2015	350	331
4/5/2015	210	4/5/2015	260.78	4/5/2015	302	335
4/6/2015	196	4/6/2015	254.06	4/6/2015	274	324
4/7/2015	184	4/7/2015	252.54	4/7/2015	271	299
4/8/2015	160	4/8/2015	245.18	4/8/2015	277	281
4/9/2015	138	4/9/2015	256.59	4/9/2015	282	276
4/10/2015	158	4/10/2015	272.37	4/10/2015	275	276
4/11/2015	138	4/11/2015	309.59	4/11/2015	253	272
4/12/2015	142	4/12/2015	279.2	4/12/2015	272	271
4/13/2015	172	4/13/2015	265.79	4/13/2015	267	267
4/14/2015	156	4/14/2015	264.75	4/14/2015	269	265
4/15/2015	170	4/15/2015	256.21	4/15/2015	262	268

4/16/2015	168	4/16/2015	237.48	4/16/2015	244	261
4/17/2015	271	4/17/2015	249.04	4/17/2015	248	256
4/18/2015	229	4/18/2015	250.57	4/18/2015	247	250
4/19/2015	152	4/19/2015	241.52	4/19/2015	257	249
4/20/2015	140	4/20/2015	204.28	4/20/2015	197	237
4/21/2015	152	4/21/2015	253.87	4/21/2015	248	237
4/22/2015	176	4/22/2015	258.95	4/22/2015	251	238
4/23/2015	167	4/23/2015	436.02	4/23/2015	257	238
4/24/2015	206	4/24/2015	247.15	4/24/2015	255	253
4/25/2015	169	4/25/2015	230.64	4/25/2015	227	248
4/26/2015	195	4/26/2015	237.06	4/26/2015	214	238
4/27/2015	158	4/27/2015	241.43	4/27/2015	230	232
4/28/2015	179	4/28/2015	260.27	4/28/2015	236	227
4/29/2015	169	4/29/2015	251.98	4/29/2015	246	232
4/30/2015	199	4/30/2015	237.89	4/30/2015	248	240

**PERCENT OF VALUES GREATER THAN NEW CHLORIDE WATER QUALITY STANDARDS DURING
DECEMBER, 2014-APRIL, 2015**

N>500 mg/L	7	N>500 mg/L	23	N>500 mg/L	26
N	151	N	148	N>990 mg/L	6
Percent>500	5%	Percent>500	16%	N	151
				Percent>500	17%
				Percent>990	4%

**CHRONIC STANDARD IN CHICAGO
SANITARY AND SHIP CANAL**

N>620 mg/L	11
N	148
Percent>620	7%

12/1/2014 CAOUT	107	12/1/2014 NSOUT_1	142	12/1/2014 STOUT	141	136
12/2/2014 CAOUT	99	12/2/2014 NSOUT_1	144	12/2/2014 STOUT	147	141
12/3/2014 CAOUT	102	12/3/2014 NSOUT_1	143	12/3/2014 STOUT	149	144
12/4/2014 CAOUT	115	12/4/2014 NSOUT_1	140	12/4/2014 STOUT	150	147
12/5/2014 CAOUT	114	12/5/2014 NSOUT_1	138	12/5/2014 STOUT	148	149
12/6/2014 CAOUT	83	12/6/2014 NSOUT_1	137	12/6/2014 STOUT	154	150
12/7/2014 CAOUT	82	12/7/2014 NSOUT_1	132	12/7/2014 STOUT	144	149
12/8/2014 CAOUT	107	12/8/2014 NSOUT_1	148	12/8/2014 STOUT	142	147
12/9/2014 CAOUT	107	12/9/2014 NSOUT_1	167	12/9/2014 STOUT	161	150
12/10/2014 CAOUT	133	12/10/2014 NSOUT_1	152	12/10/2014 STOUT	158	151
12/11/2014 CAOUT	116	12/11/2014 NSOUT_1	144	12/11/2014 STOUT	157	155
12/12/2014 CAOUT	117	12/12/2014 NSOUT_1	140	12/12/2014 STOUT	156	158
12/13/2014 CAOUT	131	12/13/2014 NSOUT_1	140	12/13/2014 STOUT	153	156
12/14/2014 CAOUT	119	12/14/2014 NSOUT_1	135	12/14/2014 STOUT	150	154
12/15/2014 CAOUT	120	12/15/2014 NSOUT_1	133	12/15/2014 STOUT	143	151
12/16/2014 CAOUT	125	12/16/2014 NSOUT_1	149	12/16/2014 STOUT	163	152
12/17/2014 CAOUT	133	12/17/2014 NSOUT_1	NS	12/17/2014 STOUT	166	156
12/18/2014 CAOUT	111	12/18/2014 NSOUT_1	NS	12/18/2014 STOUT	158	158
12/19/2014 CAOUT	127	12/19/2014 NSOUT_1	NS	12/19/2014 STOUT	149	159
12/20/2014 CAOUT	111	12/20/2014 NSOUT_1	144	12/20/2014 STOUT	144	154
12/21/2014 CAOUT	110	12/21/2014 NSOUT_1	133	12/21/2014 STOUT	139	148
12/22/2014 CAOUT	110	12/22/2014 NSOUT_1	133	12/22/2014 STOUT	139	143
12/23/2014 CAOUT	109	12/23/2014 NSOUT_1	118	12/23/2014 STOUT	128	138
12/24/2014 CAOUT	99	12/24/2014 NSOUT_1	143	12/24/2014 STOUT	135	135
12/25/2014 CAOUT	98	12/25/2014 NSOUT_1	144	12/25/2014 STOUT	138	135
12/26/2014 CAOUT	99	12/26/2014 NSOUT_1	148	12/26/2014 STOUT	141	136
12/27/2014 CAOUT	121	12/27/2014 NSOUT_1	149	12/27/2014 STOUT	149	141
12/28/2014 CAOUT	116	12/28/2014 NSOUT_1	146	12/28/2014 STOUT	152	145
12/29/2014 CAOUT	108	12/29/2014 NSOUT_1	143	12/29/2014 STOUT	148	148
12/30/2014 CAOUT	133	12/30/2014 NSOUT_1	146	12/30/2014 STOUT	154	151
12/31/2014 CAOUT	139	12/31/2014 NSOUT_1	141	12/31/2014 STOUT	156	153
1/1/2015 CAOUT	123	1/1/2015 NSOUT_1	136	1/1/2015 STOUT	152	153
1/2/2015 CAOUT	131	1/2/2015 NSOUT_1	134	1/2/2015 STOUT	147	152
1/3/2015 CAOUT	150	1/3/2015 NSOUT_1	629	1/3/2015 STOUT	273	182

1/4/2015 CAOUT	452	1/4/2015 NSOUT_1	430	1/4/2015 STOUT	496	267
1/5/2015 CAOUT	428	1/5/2015 NSOUT_1	564	1/5/2015 STOUT	649	391
1/6/2015 CAOUT	293	1/6/2015 NSOUT_1	263	1/6/2015 STOUT	477	474
1/7/2015 CAOUT	294	1/7/2015 NSOUT_1	377	1/7/2015 STOUT	472	524
1/8/2015 CAOUT	200	1/8/2015 NSOUT_1	194	1/8/2015 STOUT	342	485
1/9/2015 CAOUT	210	1/9/2015 NSOUT_1	246	1/9/2015 STOUT	307	400
1/10/2015 CAOUT	226	1/10/2015 NSOUT_1	310	1/10/2015 STOUT	401	381
1/11/2015 CAOUT	180	1/11/2015 NSOUT_1	240	1/11/2015 STOUT	328	345
1/12/2015 CAOUT	344	1/12/2015 NSOUT_1	723	1/12/2015 STOUT	650	422
1/13/2015 CAOUT	404	1/13/2015 NSOUT_1	755	1/13/2015 STOUT	835	554
1/14/2015 CAOUT	336	1/14/2015 NSOUT_1	403	1/14/2015 STOUT	576	597
1/15/2015 CAOUT	252	1/15/2015 NSOUT_1	242	1/15/2015 STOUT	401	616
1/16/2015 CAOUT	190	1/16/2015 NSOUT_1	327	1/16/2015 STOUT	363	544
1/17/2015 CAOUT	198	1/17/2015 NSOUT_1	414	1/17/2015 STOUT	388	432
1/18/2015 CAOUT	196	1/18/2015 NSOUT_1	819	1/18/2015 STOUT	651	451
1/19/2015 CAOUT	186	1/19/2015 NSOUT_1	453	1/19/2015 STOUT	527	482
1/20/2015 CAOUT	162	1/20/2015 NSOUT_1	302	1/20/2015 STOUT	380	487
1/21/2015 CAOUT	158	1/21/2015 NSOUT_1	273	1/21/2015 STOUT	318	469
1/22/2015 CAOUT	120	1/22/2015 NSOUT_1	259	1/22/2015 STOUT	284	377
1/23/2015 CAOUT	148	1/23/2015 NSOUT_1	281	1/23/2015 STOUT	262	311
1/24/2015 CAOUT	124	1/24/2015 NSOUT_1	215	1/24/2015 STOUT	243	277
1/25/2015 CAOUT	120	1/25/2015 NSOUT_1	229	1/25/2015 STOUT	238	257
1/26/2015 CAOUT	198	1/26/2015 NSOUT_1	523	1/26/2015 STOUT	545	322
1/27/2015 CAOUT	124	1/27/2015 NSOUT_1	401	1/27/2015 STOUT	504	383
1/28/2015 CAOUT	292	1/28/2015 NSOUT_1	362	1/28/2015 STOUT	507	449
1/29/2015 CAOUT	184	1/29/2015 NSOUT_1	283	1/29/2015 STOUT	411	492
1/30/2015 CAOUT	168	1/30/2015 NSOUT_1	251	1/30/2015 STOUT	362	446
1/31/2015 CAOUT	214	1/31/2015 NSOUT_1	206	1/31/2015 STOUT	288	392
2/1/2015 CAOUT	318	2/1/2015 NSOUT_1	641	2/1/2015 STOUT	393	364
2/2/2015 CAOUT	416	2/2/2015 NSOUT_1	994	2/2/2015 STOUT	1155	550
2/3/2015 CAOUT	648	2/3/2015 NSOUT_1	1065	2/3/2015 STOUT	1360	799
2/4/2015 CAOUT	660	2/4/2015 NSOUT_1	946	2/4/2015 STOUT	1116	1006
2/5/2015 CAOUT	720	2/5/2015 NSOUT_1	887	2/5/2015 STOUT	1119	1188
2/6/2015 CAOUT	552	2/6/2015 NSOUT_1	534	2/6/2015 STOUT	821	1104

2/7/2015 CAOUT	452	2/7/2015 NSOUT_1	543	2/7/2015 STOUT	657	928
2/8/2015 CAOUT	755	2/8/2015 NSOUT_1	1045	2/8/2015 STOUT	1092	922
2/9/2015 CAOUT	770	2/9/2015 NSOUT_1	765	2/9/2015 STOUT	950	880
2/10/2015 CAOUT	575	2/10/2015 NSOUT_1	516	2/10/2015 STOUT	673	843
2/11/2015 CAOUT	398	2/11/2015 NSOUT_1	406	2/11/2015 STOUT	534	812
2/12/2015 CAOUT	326	2/12/2015 NSOUT_1	366	2/12/2015 STOUT	451	652
2/13/2015 CAOUT	318	2/13/2015 NSOUT_1	315	2/13/2015 STOUT	398	514
2/14/2015 CAOUT	248	2/14/2015 NSOUT_1	275	2/14/2015 STOUT	347	433
2/15/2015 CAOUT	256	2/15/2015 NSOUT_1	233	2/15/2015 STOUT	309	376
2/16/2015 CAOUT	222	2/16/2015 NSOUT_1	324	2/16/2015 STOUT	316	343
2/17/2015 CAOUT	100	2/17/2015 NSOUT_1	275	2/17/2015 STOUT	304	319
2/18/2015 CAOUT	95	2/18/2015 NSOUT_1	226	2/18/2015 STOUT	275	301
2/19/2015 CAOUT	95	2/19/2015 NSOUT_1	201	2/19/2015 STOUT	248	286
2/20/2015 CAOUT	90	2/20/2015 NSOUT_1	180	2/20/2015 STOUT	225	263
2/21/2015 CAOUT	80	2/21/2015 NSOUT_1	180	2/21/2015 STOUT	219	242
2/22/2015 CAOUT	75	2/22/2015 NSOUT_1	177	2/22/2015 STOUT	211	226
2/23/2015 CAOUT	75	2/23/2015 NSOUT_1	166	2/23/2015 STOUT	202	214
2/24/2015 CAOUT	70	2/24/2015 NSOUT_1	171	2/24/2015 STOUT	200	208
2/25/2015 CAOUT	70	2/25/2015 NSOUT_1	170	2/25/2015 STOUT	200	203
2/26/2015 CAOUT	85	2/26/2015 NSOUT_1	421	2/26/2015 STOUT	285	222
2/27/2015 CAOUT	300	2/27/2015 NSOUT_1	939	2/27/2015 STOUT	898	396
2/28/2015 CAOUT	195	2/28/2015 NSOUT_1	455	2/28/2015 STOUT	653	509
3/1/2015 CAOUT	175	3/1/2015 NSOUT_1	267	3/1/2015 STOUT	452	572
3/2/2015 CAOUT	140	3/2/2015 NSOUT_1	220	3/2/2015 STOUT	377	595
3/3/2015 CAOUT	165	3/3/2015 NSOUT_1	466	3/3/2015 STOUT	416	475
3/4/2015 CAOUT	285	3/4/2015 NSOUT_1	1044	3/4/2015 STOUT	974	555
3/5/2015 CAOUT	170	3/5/2015 NSOUT_1	445	3/5/2015 STOUT	641	602
3/6/2015 CAOUT	130	3/6/2015 NSOUT_1	282	3/6/2015 STOUT	426	614
3/7/2015 CAOUT	140	3/7/2015 NSOUT_1	251	3/7/2015 STOUT	344	596
3/8/2015 CAOUT	362	3/8/2015 NSOUT_1	561	3/8/2015 STOUT	462	468
3/9/2015 CAOUT	378	3/9/2015 NSOUT_1	528	3/9/2015 STOUT	444	419
3/10/2015 CAOUT	398	3/10/2015 NSOUT_1	527	3/10/2015 STOUT	461	428
3/11/2015 CAOUT	342	3/11/2015 NSOUT_1	515	3/11/2015 STOUT	496	466
3/12/2015 CAOUT	304	3/12/2015 NSOUT_1	489	3/12/2015 STOUT	473	469

3/13/2015 CAOUT	282	3/13/2015 NSOUT_1	448	3/13/2015 STOUT	446	469
3/14/2015 CAOUT	308	3/14/2015 NSOUT_1	429	3/14/2015 STOUT	423	460
3/15/2015 CAOUT	280	3/15/2015 NSOUT_1	398	3/15/2015 STOUT	388	433
3/16/2015 CAOUT	294	3/16/2015 NSOUT_1	379	3/16/2015 STOUT	365	406
3/17/2015 CAOUT	264	3/17/2015 NSOUT_1	362	3/17/2015 STOUT	352	382
3/18/2015 CAOUT	230	3/18/2015 NSOUT_1	343	3/18/2015 STOUT	335	360
3/19/2015 CAOUT	232	3/19/2015 NSOUT_1	323	3/19/2015 STOUT	316	342
3/20/2015 CAOUT	204	3/20/2015 NSOUT_1	302	3/20/2015 STOUT	304	327
3/21/2015 CAOUT	172	3/21/2015 NSOUT_1	286	3/21/2015 STOUT	291	312
3/22/2015 CAOUT	160	3/22/2015 NSOUT_1	270	3/22/2015 STOUT	273	296
3/23/2015 CAOUT	170	3/23/2015 NSOUT_1	438	3/23/2015 STOUT	352	305
3/24/2015 CAOUT	430	3/24/2015 NSOUT_1	965	3/24/2015 STOUT	1011	482
3/25/2015 CAOUT	332	3/25/2015 NSOUT_1	461.89	3/25/2015 STOUT	575	553
3/26/2015 CAOUT	234	3/26/2015 NSOUT_1	404.45	3/26/2015 STOUT	524	616
3/27/2015 CAOUT	216	3/27/2015 NSOUT_1	403.52	3/27/2015 STOUT	483	648
3/28/2015 CAOUT	232	3/28/2015 NSOUT_1	377.71	3/28/2015 STOUT	418	500
3/29/2015 CAOUT	194	3/29/2015 NSOUT_1	326.46	3/29/2015 STOUT	350	444
3/30/2015 CAOUT	184	3/30/2015 NSOUT_1	324.08	3/30/2015 STOUT	341	398
3/31/2015 CAOUT	180	3/31/2015 NSOUT_1	299.27	3/31/2015 STOUT	327	359
4/1/2015 CAOUT	196	4/1/2015 NSOUT_1	294.04	4/1/2015 STOUT	287	326
4/2/2015 CAOUT	222	4/2/2015 NSOUT_1	336.8	4/2/2015 STOUT	316	318
4/3/2015 CAOUT	276	4/3/2015 NSOUT_1	344.06	4/3/2015 STOUT	371	325
4/4/2015 CAOUT	200	4/4/2015 NSOUT_1	282.94	4/4/2015 STOUT	350	331
4/5/2015 CAOUT	210	4/5/2015 NSOUT_1	260.78	4/5/2015 STOUT	302	335
4/6/2015 CAOUT	196	4/6/2015 NSOUT_1	254.06	4/6/2015 STOUT	274	324
4/7/2015 CAOUT	184	4/7/2015 NSOUT_1	252.54	4/7/2015 STOUT	271	299
4/8/2015 CAOUT	160	4/8/2015 NSOUT_1	245.18	4/8/2015 STOUT	277	281
4/9/2015 CAOUT	138	4/9/2015 NSOUT_1	256.59	4/9/2015 STOUT	282	276
4/10/2015 CAOUT	158	4/10/2015 NSOUT_1	272.37	4/10/2015 STOUT	275	276
4/11/2015 CAOUT	138	4/11/2015 NSOUT_1	309.59	4/11/2015 STOUT	253	272
4/12/2015 CAOUT	142	4/12/2015 NSOUT_1	279.2	4/12/2015 STOUT	272	271
4/13/2015 CAOUT	172	4/13/2015 NSOUT_1	265.79	4/13/2015 STOUT	267	267
4/14/2015 CAOUT	156	4/14/2015 NSOUT_1	264.75	4/14/2015 STOUT	269	265
4/15/2015 CAOUT	170	4/15/2015 NSOUT_1	256.21	4/15/2015 STOUT	262	268

4/16/2015 CAOUT	168	4/16/2015 NSOUT_1	237.48	4/16/2015 STOUT	244	261
4/17/2015 CAOUT	271	4/17/2015 NSOUT_1	249.04	4/17/2015 STOUT	248	256
4/18/2015 CAOUT	229	4/18/2015 NSOUT_1	250.57	4/18/2015 STOUT	247	250
4/19/2015 CAOUT	152	4/19/2015 NSOUT_1	241.52	4/19/2015 STOUT	257	249
4/20/2015 CAOUT	140	4/20/2015 NSOUT_1	204.28	4/20/2015 STOUT	197	237
4/21/2015 CAOUT	152	4/21/2015 NSOUT_1	253.87	4/21/2015 STOUT	248	237
4/22/2015 CAOUT	176	4/22/2015 NSOUT_1	258.95	4/22/2015 STOUT	251	238
4/23/2015 CAOUT	167	4/23/2015 NSOUT_1	436.02	4/23/2015 STOUT	257	238
4/24/2015 CAOUT	206	4/24/2015 NSOUT_1	247.15	4/24/2015 STOUT	255	253
4/25/2015 CAOUT	169	4/25/2015 NSOUT_1	230.64	4/25/2015 STOUT	227	248
4/26/2015 CAOUT	195	4/26/2015 NSOUT_1	237.06	4/26/2015 STOUT	214	238
4/27/2015 CAOUT	158	4/27/2015 NSOUT_1	241.43	4/27/2015 STOUT	230	232
4/28/2015 CAOUT	179	4/28/2015 NSOUT_1	260.27	4/28/2015 STOUT	236	227
4/29/2015 CAOUT	169	4/29/2015 NSOUT_1	251.98	4/29/2015 STOUT	246	232
4/30/2015 CAOUT	199	4/30/2015 NSOUT_1	237.89	4/30/2015 STOUT	248	240

6

N>500 mg/L	7	N>500 mg/L	23	N>500 mg/L	26
N	181	N	178	N	181
Percent>500	4%	Percent>500	13%	Percent>500	14%
				Percent>990	133%

N>500 mg/L	7	N>500 mg/L	23	N>500 mg/L	26
N	151	N	148	N	151
Percent>500	5%	Percent>500	16%	Percent>500	17%
				Percent>990	4%

CHRONIC 620 mg/L	11
	151
	7%

EXHIBIT 11

Effluent Chloride Exceedances of CAWS Water Quality Standards During 2004 Through 2013

Water Reclamation Plant	N observations	Chloride Limit	N exceedances	Percent > Limit
O'Brien	522	500	22	4.2
Stickney	493	500 /990	5	1.0

Note: Stickney limits are 500 in summer and 990 in winter.

EXHIBIT 12

Comparison of Chicago Area Waterway System Chloride Concentrations During
Winter Months* of 2010 Through 2014 With New Water Quality Standards

Location					
ID	Name	N ¹	E ²	%Comp ⁴	Year
35	Central Street, North Shore Channel	1	0	100.0	2010
		1	0	100.0	2011
		2	0	100.0	2012
		4	0	100.0	2010-2014
112	Dempster Street, North Shore Channel	1	0	100.0	2012
		3	1	66.7	2013
		2	0	100.0	2014
		6	1	83.3	2010-2014
102	Oakton Street, North Shore Channel	4	0	100.0	2010
		5	0	100.0	2011
		4	0	100.0	2012
		13	0	100.0	2010-2014
36	Touhy Avenue, North Shore Channel	4	1	75.0	2010
		5	1	80.0	2011
		5	1	80.0	2012
		4	0	100.0	2013
		5	0	100.0	2014
		23	3	87.0	2010-2014
101	Foster Avenue, North Shore Channel	5	1	80.0	2010
		5	1	80.0	2011
		4	1	75.0	2012
		14	3	78.6	2010-2014
37	Wilson Avenue, North Branch Chicago River	5	1	80.0	2010
		5	1	80.0	2011
		3	1	66.7	2012
		13	3	76.9	2010-2014
73	Diversey Parkway, North Branch Chicago River	5	0	100.0	2010
		5	0	100.0	2011
		5	0	100.0	2012
		5	0	100.0	2013
		5	1	80.0	2014
		25	1	96.0	2010-2014
46	Grand Avenue, North Branch Chicago River	5	0	100.0	2010
		5	0	100.0	2011
		4	0	100.0	2012
		14	0	100.0	2010-2014
74	Lake Shore Drive, Chicago River	4	0	100.0	2010
		5	1	80.0	2011

Table 2: Chloride Concentration Data at the Chicago Area Waterways
in 2014

Location					
ID	Name	X ¹	Standard	Viol	Date
112	Dempster Street, North Shore Channel	391	500	0	04/14/14
		24		0	05/12/14
		15		0	06/09/14
		36		0	07/14/14
		15		0	08/11/14
		24		0	09/15/14
		16		0	10/13/14
		70		0	11/10/14
		80		0	12/08/14
		36		Touhy Avenue, North Shore Channel	480
391	0		02/10/14		
361	0		03/10/14		
196	0		04/14/14		
135	0		05/12/14		
107	0		06/09/14		
153	0		07/14/14		
128	0		08/11/14		
126	0		09/15/14		
129	0		10/13/14		
73	Diversey Parkway, North Branch Chicago River	117	500	0	11/10/14
		80		0	12/08/14
		560		1	01/13/14
		273		0	02/10/14
		397		0	03/10/14
		271		0	04/14/14
		250		0	05/12/14
		142		0	06/09/14
		147		0	07/14/14
		119		0	08/11/14
100	Wells Street, Chicago River	153	500	0	09/15/14
		149		0	10/13/14
		127		0	11/10/14
		132		0	12/08/14
		277		0	01/21/14
		370		0	03/17/14
		204		0	04/21/14
		99		0	05/19/14
		18		0	06/16/14

Table 2: Chloride Concentration Data at the Chicago Area Waterways
in 2014

ID	Location Name				Date
		X ¹	Standard	Viol	
		16		0	07/21/14
		72		0	08/18/14
		21		0	09/22/14
		41		0	10/20/14
		27		0	11/17/14
		107		0	12/15/14
108	Loomis Street, South Branch Chicago River	370	500	0	01/21/14
		230		0	02/18/14
		469		0	03/17/14
		290		0	04/21/14
		202		0	05/19/14
		122		0	06/16/14
		65		0	07/21/14
		50		0	08/18/14
		106		0	09/22/14
		117		0	10/20/14
		103		0	11/17/14
		164		0	12/15/14
99	Archer Avenue, South Fork South Branch Chicago River	505	500	1	01/21/14
		519		1	03/17/14
		293		0	04/21/14
		182		0	05/19/14
		116		0	06/16/14
		94		0	07/21/14
		90		0	08/18/14
		105		0	09/22/14
		80		0	10/20/14
		112		0	11/17/14
		137		0	12/15/14
75	Cicero Avenue, Chicago Sanitary & Ship Canal	521	990	0	01/21/14
		547		0	03/17/14
		286		0	04/21/14
		190		0	05/19/14
		111		0	06/16/14
		69		0	07/21/14
		93		0	08/18/14
		115		0	09/22/14
		106		0	10/20/14

Table 2: Chloride Concentration Data at the Chicago Area Waterways
in 2014

ID	Location Name				Date
		X ¹	Standard	Viol	
41	Harlem Avenue, Chicago Sanitary & Ship Canal	111	990	0	11/17/14
		134		0	12/15/14
		601		0	01/21/14
		537		0	03/17/14
		268		0	04/21/14
		202		0	05/19/14
		143		0	06/16/14
		110		0	07/21/14
		121		0	08/18/14
		132		0	09/22/14
		117		0	10/20/14
		127		0	11/17/14
		143		0	12/15/14
48	Stephen Street, Chicago Sanitary & Ship Canal	550	990	0	01/21/14
		441		0	03/17/14
		267		0	04/21/14
		188		0	05/19/14
		151		0	06/16/14
		124		0	07/21/14
		126		0	08/18/14
		139		0	09/22/14
		106		0	10/20/14
		136		0	11/17/14
		144		0	12/15/14
92	Lockport Forebay, Chicago Sanitary & Ship Canal	640	990	0	01/08/14
		866		0	01/13/14
		546		0	01/21/14
		423		0	01/29/14
		409		0	02/03/14
		363		0	02/10/14
		299		0	02/18/14
		571		0	02/24/14
		429		0	03/03/14
		461		0	03/10/14
		440		0	03/17/14
		364		0	03/24/14
		340		0	03/31/14
		262		0	04/07/14

Table 2: Chloride Concentration Data at the Chicago Area Waterways
in 2014

ID	Location Name				Date
		X ¹	Standard	Viol	
		275		0	04/14/14
		278		0	04/21/14
		270		0	04/28/14
		242		0	05/05/14
		187		0	05/12/14
		195		0	05/19/14
		186		0	05/27/14
		173		0	06/02/14
		180		0	06/09/14
		141		0	06/16/14
		124		0	06/23/14
		148		0	06/30/14
		138		0	07/07/14
		73		0	07/14/14
		131		0	07/21/14
		139		0	07/28/14
		126		0	08/04/14
		122		0	08/11/14
		130		0	08/18/14
		98		0	08/25/14
		125		0	09/02/14
		134		0	09/08/14
		111		0	09/15/14
		138		0	09/22/14
		140		0	09/29/14
		96		0	10/06/14
		127		0	10/13/14
		103		0	10/20/14
		140		0	10/27/14
		134		0	11/03/14
		138		0	11/10/14
		135		0	11/17/14
		140		0	11/24/14
		123		0	12/01/14
		137		0	12/08/14
		157		0	12/15/14
		160		0	12/22/14
86	Burnham Avenue, Grand Calumet River	111	500	0	03/24/14

Table 2: Chloride Concentration Data at the Chicago Area Waterways
in 2014

ID	Location Name				Date
		X ¹	Standard	Viol	
		120		0	04/28/14
		81		0	05/27/14
		59		0	06/23/14
		92		0	07/28/14
		86		0	08/25/14
		107		0	09/29/14
		107		0	10/27/14
		120		0	11/24/14
		118		0	12/22/14
	56 Indiana Avenue, Little Calumet River	199	500	0	03/24/14
		181		0	04/28/14
		164		0	05/27/14
		135		0	06/23/14
		136		0	07/28/14
		47		0	08/25/14
		97		0	09/29/14
		89		0	10/27/14
		108		0	11/24/14
		105		0	12/22/14
	76 Halsted Street, Little Calumet River	304	500	0	01/29/14
		385		0	02/24/14
		303		0	03/24/14
		218		0	04/28/14
		188		0	05/27/14
		130		0	06/23/14
		126		0	07/28/14
		103		0	08/25/14
		124		0	09/29/14
		117		0	10/27/14
		136		0	11/24/14
		146		0	12/22/14
	59 Cicero Avenue, Calumet Sag Channel	334	500	0	02/24/14
		276		0	03/24/14
		232		0	04/28/14
		203		0	05/27/14
		68		0	06/23/14
		145		0	07/28/14
		71		0	08/25/14

Table 2: Chloride Concentration Data at the Chicago Area Waterways
in 2014

ID	Location Name				Date
		X ¹	Standard	Viol	
		128		0	09/29/14
		98		0	10/27/14
		144		0	11/24/14
		154		0	12/22/14
	43 Route 83, Calumet Sag Channel	377	500	0	02/24/14
		257		0	03/24/14
		234		0	04/28/14
		191		0	05/27/14
		115		0	06/23/14
		141		0	07/28/14
		72		0	08/25/14
		128		0	09/29/14
		100		0	10/27/14
		169		0	11/24/14
		156		0	12/22/14

¹X=Chloride Concentration.

Table 2: Chloride Concentration Data at the Chicago Area Waterways
in 2014

ID	Location Name				Date
		X ¹	Standard	Viol	
		128		0	09/29/14
		98		0	10/27/14
		144		0	11/24/14
		154		0	12/22/14
	43 Route 83, Calumet Sag Channel	377	500	0	02/24/14
		257		0	03/24/14
		234		0	04/28/14
		191		0	05/27/14
		115		0	06/23/14
		141		0	07/28/14
		72		0	08/25/14
		128		0	09/29/14
		100		0	10/27/14
		169		0	11/24/14
		156		0	12/22/14

¹X=Chloride Concentration.

Comparison of Chicago Area Waterway System Chloride Concentrations During
Winter Months* of 2010 Through 2014 With New Water Quality Standards

Location					
ID	Name	N ¹	E ²	%Comp ⁴	Year
35	Central Street, North Shore Channel	1	0	100.0	2010
		4	0	100.0	2012
		13	1	92.3	2010-2014
100	Wells Street, Chicago River	5	0	100.0	2010
		5	0	100.0	2011
		5	0	100.0	2012
		5	0	100.0	2013
		4	0	100.0	2014
		24	0	100.0	2010-2014
39	Madison Street, South Branch Chicago River	5	1	80.0	2010
		4	0	100.0	2011
		4	0	100.0	2012
		13	1	92.3	2010-2014
108	Loomis Street, South Branch Chicago River	5	0	100.0	2010
		5	0	100.0	2011
		5	0	100.0	2012
		5	0	100.0	2013
		5	0	100.0	2014
		25	0	100.0	2010-2014
99	Archer Avenue, South Fork South Branch Chicago River	5	0	100.0	2010
		5	0	100.0	2011
		5	1	80.0	2012
		3	0	100.0	2013
		4	2	50.0	2014
		22	3	86.4	2010-2014
40	Damen Avenue, Chicago Sanitary & Ship Canal	5	0	100.0	2010
		5	0	100.0	2011
		4	0	100.0	2012
		14	0	100.0	2010-2014
75	Cicero Avenue, Chicago Sanitary & Ship Canal	5	0	100.0	2010
		5	0	100.0	2011
		5	0	100.0	2012
		5	0	100.0	2013
		4	0	100.0	2014
		24	0	100.0	2010-2014
41	Harlem Avenue, Chicago Sanitary & Ship Canal	5	0	100.0	2010
		5	0	100.0	2011
		5	0	100.0	2012

Comparison of Chicago Area Waterway System Chloride Concentrations During
Winter Months* of 2010 Through 2014 With New Water Quality Standards

Location					
ID	Name	N ¹	E ²	%Comp ⁴	Year
35	Central Street, North Shore Channel	1	0	100.0	2010
		5	0	100.0	2013
		4	0	100.0	2014
		24	0	100.0	2010-2014
42	Route 83, Chicago Sanitary & Ship Canal	5	0	100.0	2010
		5	0	100.0	2011
		4	0	100.0	2012
		14	0	100.0	2010-2014
48	Stephen Street, Chicago Sanitary & Ship Canal	5	0	100.0	2010
		5	0	100.0	2011
		5	0	100.0	2012
		5	0	100.0	2013
		4	0	100.0	2014
		24	0	100.0	2010-2014
92	Lockport Forebay, Chicago Sanitary & Ship Canal	19	0	100.0	2010
		20	0	100.0	2011
		21	0	100.0	2012
		21	0	100.0	2013
		21	0	100.0	2014
		102	0	100.0	2010-2014
49	Ewing Avenue, Calumet River	1	0	100.0	2010
		3	0	100.0	2011
		3	0	100.0	2012
		7	0	100.0	2010-2014
55	130th Street, Calumet River	3	0	100.0	2010
		3	0	100.0	2011
		4	0	100.0	2012
		10	0	100.0	2010-2014
86	Burnham Avenue, Grand Calumet River	1	0	100.0	2010
		3	0	100.0	2011
		4	0	100.0	2012
		2	0	100.0	2013
		3	0	100.0	2014
		13	0	100.0	2010-2014
56	Indiana Avenue, Little Calumet River	3	0	100.0	2010
		3	0	100.0	2011
		3	0	100.0	2012
		2	0	100.0	2013

Comparison of Chicago Area Waterway System Chloride Concentrations During Winter Months* of 2010 Through 2014 With New Water Quality Standards

Location					
ID	Name	N ¹	E ²	%Comp ⁴	Year
35	Central Street, North Shore Channel	1	0	100.0	2010
		3	0	100.0	2014
		14	0	100.0	2010-2014
76	Halsted Street, Little Calumet River	4	0	100.0	2010
		4	0	100.0	2011
		4	0	100.0	2012
		4	0	100.0	2013
		5	0	100.0	2014
		21	0	100.0	2010-2014
58	Ashland Avenue, Calumet Sag Channel	4	0	100.0	2010
		4	0	100.0	2011
		4	0	100.0	2012
		12	0	100.0	2010-2014
59	Cicero Avenue, Calumet Sag Channel	4	0	100.0	2010
		4	0	100.0	2011
		4	0	100.0	2012
		4	0	100.0	2013
		4	0	100.0	2014
		20	0	100.0	2010-2014
43	Route 83, Calumet Sag Channel	4	0	100.0	2010
		4	0	100.0	2011
		4	0	100.0	2012
		4	0	100.0	2013
		4	0	100.0	2014
		20	0	100.0	2010-2014

*Winter Months Include January - April and December

¹N=Number of Observations.

²E=Number of Exceedance.

³Comp=Percent Compliance with 500 mg/L for all waterways except Chicago Sanitary and Ship Canal where it is 990 mg/L during December - April