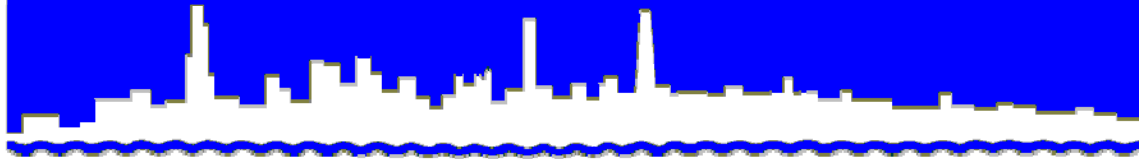


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

*MONITORING AND RESEARCH
DEPARTMENT*

REPORT NO. 13-13

CALUMET EAST SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

FIRST QUARTER 2013

MAY 2013

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

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May 24, 2013

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Mr. S. Alan Keller, P.E.
Manager, Permit Section
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794 - 9276

Dear Mr. Keller:

Subject: Calumet East Solids Management Area - Calumet Water Reclamation Plant,
Illinois Environmental Protection Agency Permit No. 2010-AO-0265, Monitor-
ing Report for January, February, and March 2013

The attached table contains the monitoring data for the Calumet East Solids Management Area for January, February, and March 2013 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2010-AO-0265.

The data reported are as follows:

Table 1, Analysis of Water from Lysimeters L-1N Through L-6N at the Calumet East Solids Management Area Sampled on March 13, 2013

No biosolids were placed in or removed from the solids drying area during January, February, and March 2013.

Very truly yours,

Thomas C. Granato, Ph.D.
Director
Monitoring and Research

TCG:PL:cm

Attachment

cc w/att: Mr. Patel, IEPA
Records Unit, IEPA

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-6N AT THE CALUMET EAST SOLIDS MANAGEMENT AREA SAMPLED ON MARCH 13, 2013

Parameter	Unit	Lysimeter No.			
		L-1N	L-2N	L-3N	L-4N
pH ¹		7.9	8.1	8.0	7.7
EC	mS/m	392	336	270	893
Total Dissolved Solids	mg/L	NA ²	3,726	2,960	6,450
Total Dissolved Organic Carbon	"	9	12	6	10
Cl ⁻	"	184	137	52	870
SO ₄ ⁼	"	1,890	1,719	1,496	2,567
TKN	"	9	3	< 1	2
NH ₃ -N	"	8	2	0.4	2
NO ₂ + NO ₃ -N	"	< 0.15	< 0.15	< 0.15	< 0.15
Total P	"	< 0.20	3.4	1.3	0.30
Alkalinity as CaCO ₃	"	95	571	474	637
Al	"	< 1.0	< 1.0	< 1.0	< 1.0
Ca	"	421	460	385	501
Cd	"	< 0.001	< 0.001	< 0.001	< 0.001
Cr	"	< 0.005	< 0.005	< 0.005	< 0.005
Cu	"	< 0.005	< 0.005	< 0.005	< 0.005
Fe	"	4	20	19	77
Hg	μg/L	< 0.20	< 0.20	< 0.20	< 0.20
K	mg/L	19	13	9	19
Mg	"	293	268	220	358
Mn	"	0.276	0.568	0.518	0.508
Na	"	213	127	73	556
Ni	"	0.019	< 0.005	< 0.005	< 0.005
Pb	"	< 0.02	< 0.02	< 0.02	< 0.02
Zn	"	< 0.01	< 0.01	< 0.01	< 0.01

TABLE 1 (Continued): ANALYSIS OF WATER FROM LYSIMETERS L-1N
THROUGH L-6N AT THE CALUMET EAST SOLIDS MANAGEMENT
AREA SAMPLED ON MARCH 13, 2013

Parameter	Unit	Lysimeter No.	
		L-5	L-6N
pH ¹		8.0	8.2
EC	mS/m	184	165
Total Dissolved Solids	mg/L	1,538	1,568
Total Dissolved Organic Carbon	"	< 1	7
Cl ⁻	"	222	20
SO ₄ ⁼	"	547	706
TKN	"	< 1	< 1
NH ₃ -N	"	0.2	0.7
NO ₂ + NO ₃ -N	"	0.19	0.22
Total P	"	< 0.20	2.5
Alkalinity as CaCO ₃	"	243	365
Al	"	< 1.0	< 1.0
Ca	"	205	208
Cd	"	< 0.001	< 0.001
Cr	"	< 0.005	< 0.005
Cu	"	< 0.005	< 0.005
Fe	"	0.9	2
Hg	μg/L	< 0.20	< 0.20
K	mg/L	5	6
Mg	"	106	105
Mn	"	0.073	0.203
Na	"	108	98
Ni	"	< 0.005	< 0.005
Pb	"	< 0.02	< 0.02
Zn	"	< 0.01	< 0.01

¹pH analyzed beyond recommended holding time of 15 minutes.

²No analysis.