MONITORING AND RESEARCH DEPARTMENT

REPORT NO. 13-14

CALUMET WEST SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

FIRST QUARTER 2013

MAY 2013

Protecting Our Water Environment

Metropolitan Water Reclamation District of Greater Chicago
100 East Erie Street Chicago, Illinois 60611-3154 312.751.5190

THOMAS C. GRANATO, Ph.D.
Director of Monitoring and Research

312.751.5190 f: 312.751.5194
thomas.granato@mwrd.org

May 24, 2013

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 West Solids Management Area - Calumet Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2010-AO-0265, Monitoring Report for January, February, and March 2013

The attached table contains the monitoring data for the Calumet West 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-3N at the Calumet West 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-3N AT THE CALUMET WEST SOLIDS MANAGEMENT AREA SAMPLED ON MARCH 13, 2013.

Parameter	Unit	Lysimeter No. L-1N	L-2N	L-3N
pH[1]		8.1	7.6	8.1
EC	mS/m	303	276	351
Total Dissolved Solids	mg/L	3,262	2,874	NA[2]
Total Dissolved Organic Carbon	"	3	5	2
Cl^-	"	58	23	54
$SO_4^=$	"	1,806	1,789	2,273
TKN	"	< 1	2	< 1
NH_3-N	"	0.8	2	0.2
$NO_2 + NO_3$-N	"	< 0.15	< 0.15	0.35
Total P	"	0.21	< 0.20	< 0.20
Alkalinity as $CaCO_3$	"	287	29	251
Al	"	< 1.0	< 1.0	< 1.0
Ca	"	308	509	373
Cd	"	< 0.001	< 0.001	< 0.001
Cr	"	< 0.005	< 0.005	< 0.005
Cu	"	< 0.005	< 0.005	< 0.005
Fe	"	1	< 0.1	0.5
Hg	μg/L	< 0.20	< 0.20	< 0.20
K	mg/L	16	29	13
Mg	"	246	15	292
Mn	"	0.090	0.006	0.174
Na	"	194	206	215
Ni	"	< 0.005	< 0.005	< 0.005
Pb	"	< 0.02	< 0.02	< 0.02
Zn	"	< 0.01	< 0.01	< 0.01

[1]pH analyzed beyond recommended holding time of 15 minutes.
[2]No analysis.