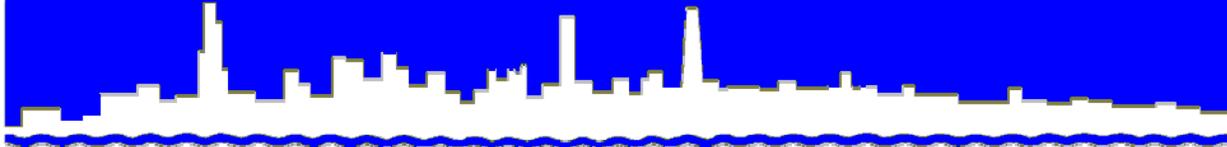


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

*MONITORING AND RESEARCH
DEPARTMENT*

REPORT NO. 16-11

CALUMET EAST AND WEST SOLIDS MANAGEMENT AREAS

MONITORING REPORT FOR

FIRST QUARTER 2016

May 2016

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THOMAS C. GRANATO, Ph.D., BCES

Director of Monitoring and Research

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May 20, 2016

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 and West Solids Management Areas - Calumet Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2015-AO-59622, Monitoring Report for January, February, and March 2016

The attached tables contain the monitoring data for the Calumet East and West Solids Management Areas for January, February, and March 2016 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2015-AO-59622. No biosolids were placed in the solids drying areas during January, February, and March 2016.

Table 1 Analysis of Water From Lysimeters L-1N through L-6N at the Calumet East Solids Management Area Sampled on March 9, 2016.

Table 2 Analysis of Water From Lysimeters L-1N through L-3N at the Calumet West Solids Management Area Sampled on March 9, 2016.

Very truly yours,

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

TCG:HZ:DB:cm

Attachments

cc/att: Mr. J. Patel, IEPA
Records Unit, IEPA
Dr. H. Zhang
Dr. A. Cox
Dr. L. Hundal
Dr. D. Brose

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-6N AT THE CALUMET EAST SOLIDS MANAGEMENT AREA SAMPLED ON MARCH 9, 2016

Parameter	Lysimeter No.					
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N
pH ¹	7.4	7.6	7.5	7.4	7.6	7.9
	----- mg L ⁻¹ -----					
Cl ⁻	170	131	41	813	227	19
SO ₄ ²⁻	1,997	1,792	1,392	2,325	533	693
NO ₂ +NO ₃ -N	0.82	<0.15	<0.15	<0.15	0.19	0.16

¹pH analyzed beyond recommended holding time of 15 minutes.

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-3N
 AT THE CALUMET WEST SOLIDS MANAGEMENT AREA SAMPLED ON
 MARCH 9, 2016

Parameter	Lysimeter No.		
	L-1N	L-2N	L-3N
pH ¹	7.9	7.6	7.7
	----- mg L ⁻¹ -----		
Cl ⁻	34	25	58
SO ₄ ²⁻	1,858	2,026	2,328
NO ₂ +NO ₃ -N	<0.15	<0.15	0.31

¹pH analyzed beyond recommended holding time of 15 minutes.