

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

*MONITORING AND RESEARCH
DEPARTMENT*

REPORT NO. 15-16

LAWNDALE AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

FIRST QUARTER 2015

June 2015

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May 20, 2015

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: Lawndale Avenue Solids Management Area - Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2010-AO-0267-1, Monitoring Report for January, February, and March 2015

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for January, February, and March 2015 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2010-AO-0267-1.

No biosolids were placed in the solids drying area during January, February, and March 2015. The data reported are as follows:

Table 1, Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on January 5, 2015.

Table 2, Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on March 11, 2015.

Very truly yours,

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

TCG:DB:cm

Attachment

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

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15
 AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT
 AREA SAMPLED ON JANUARY 5, 2015

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14	M-15
pH ¹	7.4	7.5	7.4	7.2	7.1
	----- mg L ⁻¹ -----				
Cl ⁻	18	14	10	<10	<10
SO ₄ ²⁻	199	351	607	128	801
NO ₂ +NO ₃ -N	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15

¹ pH analyzed beyond recommended holding time of 15 minutes.

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THE
LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON
MARCH 11, 2015

Parameter	Lysimeter No.								
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
pH ¹	8.2	7.8	7.7	7.7	7.7	7.5	8.3	8.1	7.9
	----- mg L ⁻¹ -----								
Cl ⁻	14	343	156	22	702	65	381	572	332
SO ₄ ²⁻	812	443	155	1,222	1,586	1,384	105	182	195
NO ₂ +NO ₃ -N	< 0.15	0.35	0.21	0.42	0.42	0.34	1.5	< 0.15	0.31

¹pH analyzed beyond recommended holding time of 15 minutes.