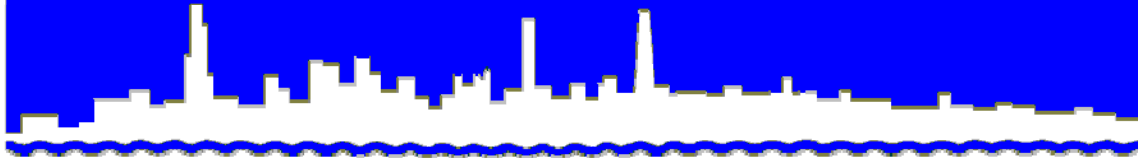


*Protecting Our Water Environment*



***Metropolitan Water Reclamation District of Greater Chicago***

*MONITORING AND RESEARCH  
DEPARTMENT*

***REPORT NO. 14-24***

***LAWNDALE AVENUE SOLIDS MANAGEMENT AREA***

***MONITORING REPORT FOR***

***SECOND QUARTER 2014***

***AUGUST 2014***

## Protecting Our Water Environment



### Metropolitan Water Reclamation District of Greater Chicago

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August 13, 2014

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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: Lawndale Avenue Solids Management Area - Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2010-AO-0267-1, Monitoring Report for April, May, and June 2014

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for April, May, and June 2014 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2010-AO-0267-1.

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 April 14, 2014

Table 2, Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on May 14, 2014

Table 3, Analysis of Compositated Biosolids Placed in the Lawndale Avenue Solids Management Drying Area During May and June 2014

Biosolids were placed in the solids drying area during May and June 2014. Based on the requirements of the revised IEPA permit issued on January 27, 2014, and effective immediately,

Mr. S. Allen Keller

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August 13, 2014

Subject: Lawndale Avenue Solids Management Area - Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2010-AO-0267-1, Monitoring Report for April, May, and June 2014

analysis of biosolids removed from this site will no longer be reported under this permit. The list of parameters for lysimeter samples has also been modified to include only pH,  $\text{Cl}^-$ ,  $\text{SO}_4^{2-}$ , and  $\text{NO}_2+\text{NO}_3-\text{N}$ .

Very truly yours,

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

TCG:DB:cm

Attachment

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

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15  
 AT THE LAWNSDALE AVENUE SOLIDS MANAGEMENT  
 AREA SAMPLED ON APRIL 14, 2014

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14	M-15
pH <sup>1</sup>	7.4	7.4	7.6	7.6	7.3
	----- mg L <sup>-1</sup> -----				
Cl <sup>-</sup>	17	14	<10	<10	<10
SO <sub>4</sub> <sup>2-</sup>	209	364	642	131	842
NO <sub>2</sub> +NO <sub>3</sub> -N	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15

<sup>1</sup> pH analyzed beyond recommended holding time of 15 minutes.

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THE LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON MAY 14, 2014

Parameter	Lysimeter No.								
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
pH	8.1	7.9	7.7	7.8	7.4	7.6	8.2	8.1	8.0
	----- mg L <sup>-1</sup> -----								
Cl <sup>-</sup>	14	262	148	21	714	75	296	425	321
SO <sub>4</sub> <sup>2-</sup>	682	278	146	1,303	1,621	1,380	12	174	217
NO <sub>2</sub> -+NO <sub>3</sub> -N	< 0.15	5.1	0.38	0.51	1.3	0.57	1.4	< 0.15	0.70

TABLE 3: ANALYSIS OF COMPOSITED BIOSOLIDS PLACED IN THE  
LAWNDALE AVENUE SOLIDS MANAGEMENT DRYING AREA DURING  
MAY AND JUNE 2014

Parameter	Analysis <sup>1</sup>
pH	7.5
Total Solids	9.0
Total Volatile Solids <sup>2</sup>	45

<sup>1</sup>Mean of 34 samples.

<sup>2</sup>Total volatile solids as a percentage of total solids.