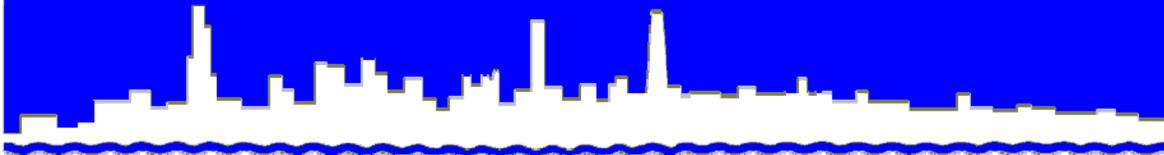


*Protecting Our Water Environment*



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

*MONITORING AND RESEARCH  
DEPARTMENT*

***REPORT NO. 16-08***

***HARLEM AVENUE SOLIDS MANAGEMENT AREA***

***MONITORING REPORT FOR***

***FOURTH QUARTER 2015***

***February 2016***

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**THOMAS C. GRANATO, Ph.D., BCES**

Director of Monitoring and Research

thomas.granato@mwrdd.org

February 23, 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: Harlem Avenue Solids Management Area - Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2014-AO-58836, Monitoring Report for October, November, and December 2015

The attached tables contain the monitoring data for the Harlem Avenue Solids Management Area for October, November, and December 2015 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2014-AO-58836. Biosolids were placed in the solids drying area during November 2015.

Table 1 Analysis of Water from Lysimeters L-1N1 through L-3N at the Harlem Solids Management Area Sampled on November 18, 2015.

Table 2 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During November 2015.

Very truly yours,

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

TCG:HZ:DB:cm

Attachment

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-1N1 THROUGH L-3N  
 AT THE HARLEM AVENUE SOLIDS MANAGEMENT AREA SAMPLED  
 ON NOVEMBER 18, 2015

Parameter	Lysimeter No.		
	L-1N1	L-2N	L-3N
pH <sup>1</sup>	NRR <sup>2</sup>	7.5	7.6
	----- mg L <sup>-1</sup> -----		
Cl <sup>-</sup>	NRR	32	101
SO <sub>4</sub> <sup>2-</sup>	37	2,001	112
NO <sub>2</sub> +NO <sub>3</sub> -N	0.47	33	1.5

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

<sup>2</sup>NRR=no reportable results. Insufficient sample volume.

TABLE 2: ANALYSIS OF BIOSOLIDS PLACED IN THE HARLEM AVENUE SOLIDS MANAGEMENT AREA DURING NOVEMBER 2015

Parameter	Analysis <sup>1</sup>
pH	7.7
	---- % ----
Total Solids	23
Total Volatile Solids <sup>2</sup>	52

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

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