

*Protecting Our Water Environment*



**Metropolitan Water Reclamation District of Greater Chicago**

*MONITORING AND RESEARCH  
DEPARTMENT*

**REPORT NO. 15-5**

**HARLEM AVENUE SOLIDS MANAGEMENT AREA**

**MONITORING REPORT FOR**

**FOURTH QUARTER 2014**

**February 2015**

# Protecting Our Water Environment

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

Director of Monitoring and Research

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February 5, 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: 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 2014

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

Biosolids were placed in the solids drying area during October and November 2014. The data reported are as follows:

Table 1, Analysis of Water from Lysimeters L-1N1 through L-3N at the Harlem Solids Management Area Sampled on November 5, 2014.

Table 2, Analysis of Compositated Biosolids Placed in the Harlem Avenue Solids Management Area During October and November 2014.

Very truly yours,

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

TCG:DB:cm

Attachment

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

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N1 THROUGH L-3N AT THE HARLEM AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON NOVEMBER 5, 2014.

Parameter	Lysimeter No.		
	L-1N1	L-2N	L-3N
pH <sup>1</sup>	7.3	7.3	7.6
	----- mg L <sup>-1</sup> -----		
Cl <sup>-</sup>	101	29	114
SO <sub>4</sub> <sup>2-</sup>	38	1,623	104
NO <sub>2</sub> +NO <sub>3</sub> -N	<0.15	31	1.2

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

TABLE 2: ANALYSIS OF COMPOSITED BIOSOLIDS PLACED IN THE HARLEM AVENUE SOLIDS MANAGEMENT DRYING AREA DURING OCTOBER AND NOVEMBER 2014

Parameter	Analysis <sup>1</sup>
pH	7.3
	---- % ----
Total Solids	13
Total Volatile Solids <sup>2</sup>	43

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

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