

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

*MONITORING AND RESEARCH
DEPARTMENT*

REPORT NO. 14-51

HARLEM AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

THIRD QUARTER 2014

November 2014

Protecting Our Water Environment

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November 14, 2014

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. 2009-AO-2715-3,
Monitoring Report for July, August, and September 2014

The attached tables contain the monitoring data for the Harlem Avenue Solids Management Area for July, August, and September 2014 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2009-AO-2715-3.

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 July 23, 2014.

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

Biosolids were placed in the solids drying area during July 2014. Based on the requirements of the revised IEPA permit issued on January 27, 2014, and effective immediately, 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, Cl⁻, SO₄²⁻, and NO₂+NO₃-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 LYSIMETERS L-1N1 THROUGH L-3N AT THE HARLEM AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON JULY 23, 2014.

Parameter	Lysimeter No.		
	L-1N1	L-2N	L-3N
pH ¹	7.6	7.5	7.7
	----- mg L ⁻¹ -----		
Cl ⁻	98	32	151
SO ₄ ²⁻	29	1,877	126
NO ₂ +NO ₃ -N	5.7	<0.15	0.74

¹pH analyzed beyond recommended holding time of 15 minutes.

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

Parameter	Analysis ¹
pH	7.5
	---- % ----
Total Solids	8.8
Total Volatile Solids ²	45

¹Mean of 2 samples.

²Total volatile solids as a percentage of total solids.