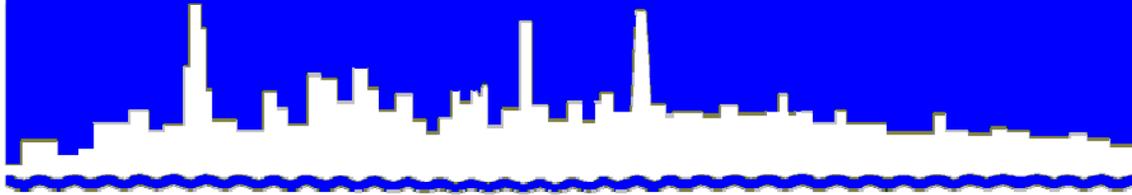


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

*MONITORING AND RESEARCH
DEPARTMENT*

REPORT NO. 17-06

HARLEM AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

FOURTH QUARTER 2016

FEBRUARY 2017

Metropolitan Water Reclamation District of Greater Chicago
100 East Erie Street Chicago, Illinois 60611-2803 312-751-5600

**HARLEM AVENUE SOLIDS MANAGEMENT AREA
MONITORING REPORT FOR
FOURTH QUARTER 2016**

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**CECIL LUE-HING RESEARCH AND DEVELOPMENT COMPLEX
6001 WEST PERSHING ROAD CICERO, ILLINOIS 60804-4112**

February 24, 2017

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 2016

The attached tables contain the monitoring data for the Harlem Avenue Solids Management Area for October, November, and December 2016 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2014-AO-58836. Biosolids were placed in the solids drying area during November 2016.

Table 1 Analysis of Water from Lysimeters L-1N1 Through L-3N at the Harlem Solids Management Area Sampled on December 12, 2016.

Table 2 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During November 2016.

Very truly yours,

Albert E. Cox, Ph.D.
Environmental Monitoring and Research Manager
Monitoring and Research Department

AC:DB:cm
Attachment

cc/att: Mr. J. Patel, IEPA/Records Unit, IEPA
Dr. T. Granato/Mr. E. Podczewinski
Dr. H. Zhang/Dr. G. Tian/Dr. D. Brose

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N1 THROUGH L-3N AT THE HARLEM AVENUE SOLIDS MANAGEMENT AREA SAMPLED

ON DECEMBER 12, 2016

Parameter	Lysimeter No.		
	L-1N1	L-2N	L-3N ¹
pH ²	7.6	7.2	NRR
	----- mg L ⁻¹ -----		
Cl ⁻	92	30	NRR
SO ₄ ²⁻	32	1,683	NRR
NO ₂ +NO ₃ -N	0.16	27	NRR

¹NRR=no reported results. Lysimeter L-3N was frozen and did not produce a sample in December.

²pH analyzed beyond recommended holding time of 15 minutes.

TABLE 2: ANALYSIS OF BIOSOLIDS PLACED IN THE HARLEM AVENUE SOLIDS MANAGEMENT AREA DURING NOVEMBER 2016

Parameter	Analysis ¹
pH	NRR ² ---- % ----
Total Solids	50
Total Volatile Solids ³	50

¹One sample.

²NRR=no reportable results because pH was not recorded during sampling.

³Total volatile solids as a percentage of total solids.