

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 18-04

HARLEM AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

FOURTH QUARTER 2017

February 2018

Metropolitan Water Reclamation District of Greater Chicago

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

Edward W. Podczewinski, P.E.
Director of Monitoring and Research

February 16, 2018

Mr. Roger Callaway
Illinois Environmental Protection Agency
Bureau of Water
DWPC Compliance Section #19
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9274

Dear Mr. Callaway:

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 2017

The attached tables contain the monitoring data for the Harlem Avenue Solids Management Area for October, November, and December 2017 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 2017.

- Table 1 Analysis of Water from Lysimeters L-1N1 Through L-3N at the Harlem Solids Management Area Sampled on November 15, 2017.
- Table 2 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During October 2017.
- Table 3 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During November 2017.

Very truly yours,

Albert E. Cox
Environmental Monitoring and Research Manager
Monitoring and Research Department

AC:DB:cm
Attachments
cc/att: Mr. J. Patel, IEPA/Records Unit, IEPA
Mr. E. Podczewinski/Dr. H. Zhang
Dr. G. Tian/Dr. D. Brose

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
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Monitoring and Research Department
Edward W. Podczewinski, Director

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TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N1 THROUGH L-3N
 AT THE HARLEM AVENUE SOLIDS MANAGEMENT AREA SAMPLED
 ON NOVEMBER 15, 2017

Parameter	Lysimeter No.		
	L-1N1	L-2N	L-3N
pH ¹	7.9	7.6	7.3
	----- mg L ⁻¹ -----		
Cl ⁻	137	84	28
SO ₄ ²⁻	26	1,684	406
NO ₂ +NO ₃ -N	<0.150	21	<0.150

¹pH analyzed beyond recommended holding time of 15 minutes.

TABLE 2: ANALYSIS OF BIOSOLIDS PLACED IN THE HARLEM AVENUE SOLIDS MANAGEMENT DRYING AREA DURING OCTOBER 2017

Parameter	Analysis ¹
pH	7.5
	---- % ----
Total Solids	18
Total Volatile Solids ²	49

¹One sample.

²Total volatile solids as a percentage of total solids.

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE HARLEM AVENUE SOLIDS MANAGEMENT DRYING CENTER AREA DURING NOVEMBER 2017

Parameter	Analysis ¹
pH	7.6
	---- % ----
Total Solids	25
Total Volatile Solids ²	48

¹Mean of two samples.

²Total volatile solids as a percentage of total solids.