

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 18-35

HARLEM AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

THIRD QUARTER 2018

November 2018

BOARD OF COMMISSIONERS

Mariyana T. Spyropoulos
President
Barbara J. McGowan
Vice President
Frank Avila
Chairman of Finance
Ken Dunkin
Martin J. Durkan
Josina Morita
Debra Shore
Kari K. Steele
David J. Walsh

Metropolitan Water Reclamation District of Greater Chicago

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

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

November 26, 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

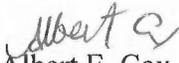
Dear Mr. Callaway:

Subject: Harlem Avenue Solids Management Area - Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2014-AO-58836, Monitoring Report for July, August, and September 2018

The attached tables contain the monitoring data for the Harlem Avenue Solids Management Area for July, August, and September 2018 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2014-AO-58836. Biosolids were placed in the solids drying area during August and September.

- Table 1 Analysis of Water from Lysimeters L-1N1 Through L-3N at the Harlem Avenue Solids Management Area Sampled on August 8, 2018.
- Table 2 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During August 2018.
- Table 3 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During September 2018.

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
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
THIRD QUARTER 2018**

Monitoring and Research Department
Edward W. Podczewinski, Director

November 2018

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
THIRD QUARTER 2018**

Monitoring and Research Department
Edward W. Podczerwinski, Director

November 2018

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N1 THROUGH L-3N AT THE HARLEM AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON AUGUST 8, 2018

Parameter	Lysimeter No.		
	L-1N1	L-2N	L-3N
pH	7.2	7.6	7.5
	----- mg L ⁻¹ -----		
Cl ⁻	29	133	88
SO ₄ ²⁻	1,742	398	46
NO ₂ +NO ₃ -N	<0.25	33	<0.25

TABLE 2: ANALYSIS OF BIOSOLIDS PLACED IN THE HARLEM AVENUE SOLIDS
MANAGEMENT AREA DURING AUGUST 2018

Parameter	Analysis ¹
pH	7.4
	---- % ----
Total Solids	24
Total Volatile Solids ²	49

¹Mean of three samples.

²Total volatile solids as a percentage of total solids.

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE HARLEM AVENUE SOLIDS MANAGEMENT AREA DURING SEPTEMBER 2018

Parameter	Analysis ¹
pH	8.0
	---- % ----
Total Solids	24
Total Volatile Solids ²	48

¹One sample.

²Total volatile solids as a percentage of total solids.