

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 23-31

HARLEM AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT

FOR SECOND QUARTER 2023

August 2023

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

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August 11, 2023

Ms. Catherine Siders
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 Ms. Siders:

Subject: Harlem Avenue Solids Management Area – Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2019-AO-63958, Monitoring Report for April, May, and June 2023

The attached table contains the monitoring data for the Harlem Avenue Solids Management Area for April, May, and June 2023, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2019-AO-63958. Biosolids were placed in the solids drying area in April, May, and June of 2023, and analytical results for pH, total solids, and volatile solids have been retained to be accessible for inspection.

Table 1 Analysis of Water from Lysimeters L-1N1 Through L-3N at the Harlem Avenue Solids Management Area Sampled on May 30, 2023.

Very truly yours,

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

AC:BM:lf
Attachment
cc: Mr. J. Patel, IEPA
Mr. T. Bennett, IEPA
Mr. B. Fleming, IEPA
Dr. H. Zhang

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**HARLEM AVENUE SOLIDS MANAGEMENT AREA
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FOR SECOND QUARTER 2023**

By

**Benjamin Morgan
Environmental Soil Scientist**

**Albert Cox
Environmental Monitoring and Research Manager**

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N1 THROUGH L-3N AT THE HARLEM AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON MAY 30, 2023

| Parameter | Lysimeter No. | | |
|---|-------------------------------|-------|-------|
| | L-1N1 | L-2N | L-3N |
| pH | 6.9 | 6.9 | 7.4 |
| | -----mg L ⁻¹ ----- | | |
| Cl ⁻ | 84 | 16 | 114 |
| SO ₄ ²⁻ | 38 | 1,429 | 234 |
| NO ₂ ⁻ +NO ₃ ⁻ -N | 0.94 | <0.50 | <0.50 |