

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 24-14

CALUMET EAST AND WEST SOLIDS MANAGEMENT AREAS

MONITORING REPORT

FOR FIRST QUARTER 2024

May 2024

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

May 28, 2024

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: Calumet East and West Solids Management Areas - Calumet Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2020-AO-64905, Monitoring Report for January, February, and March 2024

The attached tables contain the monitoring data for the Calumet East and West Solids Management Areas for January, February, and March 2024, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2020-AO-64905. Biosolids were not placed in the Calumet East or West Solids Management Areas in the first quarter of 2024.

Table 1 Analysis of Water From Lysimeters L-1N through L-6N at the Calumet East Solids Management Area Sampled on February 26, 2024.

Table 2 Analysis of Water From Lysimeters L-1N through L-3N at the Calumet West Solids Management Area Sampled on February 26, 2024.

Very truly yours,

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

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

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**CALUMET EAST AND WEST SOLIDS MANAGEMENT AREAS
MONITORING REPORT
FOR FIRST QUARTER 2024**

By

**Benjamin Morgan
Environmental Soil Scientist**

**Albert Cox
Environmental Monitoring and Research Manager**

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-6N AT THE CALUMET EAST SOLIDS MANAGEMENT AREA SAMPLED ON FEBRUARY 26, 2024

Parameter	Lysimeter No.					
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N
pH	7.4	7.8	7.2	7.1	7.3	7.7
	-----mg L ⁻¹ -----					
Cl ⁻	145	139	29	846	260	19
SO ₄ ²⁻	2,083	1,860	877	2,707	590	717
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.50	0.90	<0.50	<0.50	<0.50	<0.50

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-3N AT THE CALUMET WEST SOLIDS MANAGEMENT AREA SAMPLED ON FEBRUARY 26, 2024

Parameter	Lysimeter No.		
	L-1N	L-2N	L-3N
pH	7.6	7.6	7.5
	-----mg L ⁻¹ -----		
Cl ⁻	38	23	61
SO ₄ ²⁻	1,928	2,056	2,368
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.50	<0.50	<0.50