

Metropolitan Water Reclamation District of Greater Chicago

MONITORING AND RESEARCH DEPARTMENT

REPORT NO. 25-32

CALUMET EAST AND WEST SOLIDS MANAGEMENT AREAS

MONITORING REPORT

FOR FIRST QUARTER 2025

May 2025

Protecting Our Water Environment

Metropolitan Water Reclamation District of Greater Chicago

CECIL LUE-HING RESEARCH AND DEVELOPMENT COMPLEX
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May 28, 2025

Mr. Caleb Ruyle
Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section, Mail Code #19
2520 W. Iles Ave.
P.O. Box 19276
Springfield, Illinois 62794-9274

Dear Mr. Ruyle:

Subject: Calumet East and West Solids Management Areas - Calumet Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2024-AO-71828, Monitoring Report for January, February, and March 2025

The attached tables contain the monitoring data for the Calumet East and West Solids Management Areas for January, February, and March 2025, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2024-AO-71828. Biosolids were not placed in the Calumet East or West Solids Management Areas in the first quarter of 2025.

Table 1 Analysis of Water from Lysimeters L-1N through L-6N at the Calumet East Solids Management Area Sampled on March 10 and March 28, 2025.

Table 2 Analysis of Water from Lysimeters L-1N through L-3N at the Calumet West Solids Management Area Sampled on March 10, 2025.

Very truly yours,

Albert Cox
Environmental Monitoring and Research Manager
Monitoring and Research Department

AC:EE:lf
Attachments
cc/att: 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 2025

By

Benjamin Morgan
Environmental Soil Scientist

Albert Cox
Environmental Monitoring and Research Manager

Monitoring and Research Department
Edward W. Podczerwinski, Director **May 2025**

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-6N AT THE CALUMET EAST SOLIDS MANAGEMENT AREA SAMPLED ON MARCH 10 AND MARCH 28, 2025[1]

Parameter	Lysimeter No.					
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N
pH	7.2	7.1	7.2	7.0	7.5	7.5
	mg L^{-1}					
Cl^-	156	147	29	881	260	19
SO_4^{2-}	2,124	1,918	902	2,739	590	700
NO_2^-+NO_3^--N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

[1]Lysimeter samples were collected on March 10, 2025, except for Lysimeter L-2N, which was sampled on March 28, 2025.

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-3N AT THE CALUMET WEST SOLIDS MANAGEMENT AREA SAMPLED ON MARCH 10, 2025

Parameter	Lysimeter No. L-1N	L-2N	L-3N
pH	7.9	7.9	7.4
	mg L^{-1}		
Cl^-	39	22	63
SO_4^{2-}	1,879	1,904	2,337
NO_2^-+NO_3^--N	<0.50	<0.50	<0.50