

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 26-33

CALUMET EAST AND WEST SOLIDS

MANAGEMENT AREA MONITORING REPORT

FOR SECOND QUARTER 2026

AUGUST 2026

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

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6001 WEST PERSHING ROAD CICERO, ILLINOIS 60804-4112

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August 5, 2026

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 April, May, and June 2026

The attached tables contain the monitoring data for the Calumet East and West Solids Management Areas for April, May, and June 2026, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2024-AO-71828. Biosolids were placed in both the Calumet East and West Solids Management Areas in May and June of 2026.

Table 1: Analysis of Water from Lysimeters L-1N through L-6N at the Calumet East
Solids Management Area Sampled on June 8, 2026

Table 2: Analysis of Water from Lysimeters L-1N through L-3N at the Calumet West
Solids Management Area Sampled on June 8, 2026

Table 3: Analysis of Biosolids Placed in the Calumet East Solids Management Area
During May and June 2026

Table 4: Analysis of Biosolids Placed in the Calumet West Solids Management Area
During May and June 2026

Very truly yours,

Albert Cox
Environmental Monitoring and Research Manager
Monitoring and Research Department

AC:BM:lf
Attachments
cc/att: Mr. T. Bennett, IEPA
Mr. R. Ng, IEPA
Mr. M. Carroll, IEPA
Dr. H. Zhang

Metropolitan Water Reclamation District of Greater Chicago
100 East Erie Street Chicago, Illinois 60611-2803 (312) 751-5600

**CALUMET EAST AND WEST SOLIDS
MANAGEMENT AREA
MONITORING REPORT FOR
SECOND QUARTER 2026**

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 JUNE 8, 2026

Parameter	Lysimeter No.					
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N
pH	7.1	7.1	7	7.2	7.3	7.4
	-----mg L ⁻¹ -----					
Cl ⁻	147	143	30	349	254	18
SO ₄ ²⁻	1,991	1,764	912	1,114	552	682
NO ₂ ⁻ +NO ₃ ⁻ -N	0.59	0.58	<0.50	<0.50	0.54	<0.50

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-3N AT THE CALUMET WEST SOLIDS MANAGEMENT AREA SAMPLED ON JUNE 8, 2026

Parameter	Lysimeter No.		
	L-1N	L-2N	L-3N
pH	7.6	7.6	7.4
	-----mg L ⁻¹ -----		
Cl ⁻	38	22	63
SO ₄ ²⁻	1,838	1,938	2,246
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.50	<0.50	0.70

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE CALUMET EAST SOLIDS
MANAGEMENT AREA DURING MAY AND JUNE 2026

Parameter	May	June
pH	7.4	7.5
	-----%-----	
Total Solids	7.9	10.0
Total Volatile Solids ¹	49.6	45.3

¹Total volatile solids as a percentage of total solids.

TABLE 4: ANALYSIS OF BIOSOLIDS PLACED IN THE CALUMET WEST SOLIDS
MANAGEMENT AREA DURING MAY AND JUNE 2026

Parameter	May	June
pH	7.5	7.5
	-----%	
Total Solids	8.5	8.2
Total Volatile Solids ¹	50.6	49.7

¹Total volatile solids as a percentage of total solids.