

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 22-13

CALUMET EAST AND WEST SOLIDS MANAGEMENT AREAS

MONITORING REPORT FOR

FIRST QUARTER 2022

May 2022

Metropolitan Water Reclamation District of Greater Chicago

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

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

May 13, 2022

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 2022

The attached tables contain the monitoring data for the Calumet East and West Solids Management Areas for January, February, and March 2022, 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 2022.

Table 1 Analysis of Water from Lysimeters L-1N through L-6N at the Calumet East Solids Management Area Sampled on March 1, 2022.

Table 2 Analysis of Water from Lysimeters L-1N through L-3N at the Calumet West Solids Management Area Sampled on March 1, 2022.

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

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

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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 MARCH 1, 2022

Parameter	Lysimeter No.					
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N
pH	7.6	7.5	7.3	7.2	7.4	7.5
	-----mg L ⁻¹ -----					
Cl ⁻	146	136	34	834	249	20
SO ₄ ²⁻	2,088	1,818	1,222	2,615	564	730
NO ₂ ⁻ +NO ₃ ⁻ -N	0.75	0.34	<0.25	1.86	1.52	0.45

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-3N AT THE CALUMET WEST SOLIDS MANAGEMENT AREA SAMPLED ON MARCH 1, 2022

Parameter	Lysimeter No.		
	L-1N	L-2N	L-3N
pH	7.9	8.5	7.8
	-----mg L ⁻¹ -----		
Cl ⁻	38	23	60
SO ₄ ²⁻	1,928	2,071	2,369
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.25	<0.25	0.56