



Metropolitan Water Reclamation District of Greater Chicago

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

Edward W. Podczerwinski, P.E.

Director of Monitoring and Research

February 10, 2021

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 October, November, and December 2020

The attached tables contain the monitoring data for the Calumet East and West Solids Management Areas for October, November, and December 2020 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2020-AO-64905. Biosolids were placed in both the Calumet East and West Solids Management Areas in October and November 2020.

- Table 1Analysis of Water From Lysimeters L-1N through L-6N at the CalumetEast Solids Management Area Sampled on November 16, 2020.
- Table 2Analysis of Water From Lysimeters L-1N through L-3N at the CalumetWest Solids Management Area Sampled on November 16, 2020.
- Table 3Analysis of Biosolids Placed in the Calumet East Solids ManagementArea During October and November 2020.

BOARD OF COMMISSIONERS

Kari K. Steele President Barbara J. McGowan Vice President Marcelino Garcia Chairman of Finance

Cameron Davis Kimberly Du Buclet Josina Morita Eira L. Corral Sepúlveda Debra Shore Mariyana T. Spyropoulos Ms. Catherine Siders

- Subject: Calumet East and West Solids Management Areas Calumet Water Reclamation Plant, Illinois Environmental Protection Agency Permit Nos. 2020-AO-64905, Monitoring Report for October, November, and December 2020
- <u>Table 4</u> Analysis of Biosolids Placed in the Calumet West Solids Management Area During October and November 2020.

Very truly yours,

Albert Con

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

AC:BM:cm Attachments cc/att: Mr. J. Patel, IEPA Records Unit, 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 AREAS MONITORING REPORT FOR FOURTH QUARTER 2020

Monitoring and Research Department Edward W. Podczerwinski, Director

February 2021

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-6N AT THE CALUMET EAST SOLIDS MANAGEMENT AREA SAMPLED ON NOVEMBER 16, 2020

	Lysimeter No.					
Parameter	L-1N	$L-2N^1$	L-3N	L-4N	L-5N	L-6N
рН	7.3	NA ²	7.3	7.4	7.6	7.6
			1	ng L ⁻¹		
Cl ⁻	157	122	34	906	258	19
SO_4^{2-}	2,113	1,527	1,261	2,719	568	696
NO2 ⁻ +NO3 ⁻ -N	0.97	< 0.25	< 0.25	< 0.25	0.28	< 0.25

¹Lysimeter L-2N was dry on November 16, 2020 and was re-sampled on December 7. ²No data available because pH was inadvertently not measured.

	Lysimeter No.			
Parameter	L-1N	L-2N	L-3N	
pH^1	7.6	8.3	7.7	
		mg L ⁻¹		
Cl ⁻	38	23	62	
SO_4^{2-}	1,812	2,023	2,273	
NO ₂ ⁻ +NO ₃ ⁻ -N	< 0.25	< 0.25	0.69	

TABLE 2:ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-3N AT THE
CALUMET WEST SOLIDS MANAGEMENT AREA SAMPLED ON NOVEMBER 16, 2020

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE CALUMET EAST SOLIDSMANAGEMENT AREA DURING OCTOBER AND NOVEMBER 2020

Parameter	October	November
рН	7.4	7.5
Total Solids Total Volatile Solids ¹	6.5 49.5	7.9 48.8

¹Total volatile solids as a percentage of total solids.

TABLE 4: ANALYSIS OF BIOSOLIDS PLACED IN THE CALUMET WEST SOLIDSMANAGEMENT AREA DURING OCTOBER AND NOVEMBER 2020

Parameter	October	November
рН	7.6	7.3
Total Solids	6.7	7.8
Total Volatile Solids ¹	49.6	49.3

¹Total volatile solids as a percentage of total solids.