



 Metropolitan Water Reclamation District of Greater Chicago

 CECIL LUE-HING RESEARCH AND DEVELOPMENT COMPLEX

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 CICERO, ILLINOIS
 60804-4112

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

May 18, 2018

Mr. Roger Callaway 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 Mr. Callaway:

Subject: Calumet East and West Solids Management Areas - Calumet Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2015-AO-59622, Monitoring Report for January, February, and March 2018

The attached tables contain the monitoring data for the Calumet East and West Solids Management Areas for January, February, and March 2018 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2015-AO-59622. Biosolids were placed in the Calumet East Solids Management Area in January and March, and no biosolids were placed in the Calumet West Solids Management Area in January, February, or March.

- Table 1Analysis of Water From Lysimeters L-1N through L-6N at the CalumetEast Solids Management Area Sampled on February 28, 2017.
- Table 2Analysis of Water From Lysimeters L-1N through L-3N at the CalumetWest Solids Management Area Sampled on February 28, 2017.
- <u>Table 3</u> Analysis of Biosolids Placed in the Calumet East Solids Management Area During January 2018.

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- Subject: Calumet East and West Solids Management Areas Calumet Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2015-AO-59622, Monitoring Report for January, February, and March 2018
- <u>Table 4</u> Analysis of Biosolids Placed in the Calumet East Solids Management Area During March 2018.

Very truly yours,

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

AC:DB:cm Attachments cc/att: Mr. J. Patel, IEPA Records Unit, IEPA Dr. H. Zhang Dr. G. Tian Dr. D. Brose 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 FIRST QUARTER 2018

Monitoring and Research Department Edward W. Podczerwinski, Director

May 2018

	Lysimeter No.					
Parameter	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N
pH <sup>1</sup>	7.1	7.0	7.2	7.0	7.3	7.6
			mg	g L <sup>-1</sup>		
Cl <sup>-</sup> SO4 <sup>2-</sup> NO <sub>2</sub> +NO <sub>3</sub> -N	162 2,044 0.76	131 1,865 <0.15	36 1,325 <0.15	829 2,637 <0.15	231 561 0.20	18 731 0.20

### TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-6N AT THE CALUMET EAST SOLIDS MANAGEMENT AREA SAMPLED ON FEBRUARY 28, 2018

<sup>1</sup>pH analyzed beyond recommended holding time of 15 minutes.

# TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-3N AT THE CALUMET WEST SOLIDS MANAGEMENT AREA SAMPLED ON FEBRUARY 28, 2018

Parameter	Lysimeter No.L-1NL-2NL-3N				
pH <sup>1</sup>	7.5	7.6	7.3		
Cl-		mg L <sup>-1</sup> 23			
SO4 <sup>2-</sup> NO <sub>2</sub> +NO <sub>3</sub> -N	1,824 <0.15	2,025 <0.15	2,321 0.29		

<sup>1</sup>pH analyzed beyond recommended holding time of 15 minutes.

### TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE CALUMET EAST SOLIDS MANAGEMENT DRYING **AREA DURING JANUARY 2018**

Parameter	Analysis <sup>1</sup>
рН	8.3
Total Solids Total Volatile Solids <sup>2</sup>	21 69

<sup>1</sup>One sample. <sup>2</sup>Total volatile solids as a percentage of total solids.

### TABLE 4: ANALYSIS OF BIOSOLIDS PLACED IN THE CALUMET EAST SOLIDS MANAGEMENT DRYING **AREA DURING MARCH 2018**

Parameter	Analysis <sup>1</sup>
рН	8.2
Total Solids Total Volatile Solids <sup>2</sup>	21 64

<sup>1</sup>Two samples. <sup>2</sup>Total volatile solids as a percentage of total solids.