



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

August 9, 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: Lawndale Avenue Solids Management Area - Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2020-AO-64903, Monitoring Report for April, May, and June 2022

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for April, May, and June 2022, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2020-AO-64903. Biosolids were placed in the solids drying area in May and June 2022.

- <u>Table 1</u>: Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on April 29, 2022.
- <u>Table 2</u>: Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on May 10, 2022.
- <u>Table 3</u>: Analysis of Biosolids Placed in the Lawndale Avenue Solids Management Area During May and June 2022.

Very truly yours,

Albert Con

Albert E. Cox, Ph.D. Environmental Monitoring and Research Manager Monitoring and Research Department

AC:BM:lfAttachmentcc: Mr. J. Patel, IEPA/Mr. T. Bennett, IEPAMr. B. Fleming, IEPA/Dr. H. Zhang

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LAWNDALE AVENUE SOLIDS MANAGEMENT AREA MONITORING REPORT FOR SECOND QUARTER 2022

By

Benjamin Morgan Environmental Soil Scientist

Albert Cox Environmental Monitoring and Research Manager

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August 2022

Parameter	Monitoring Well No.					
	M-11	M-12	M-13	M-14	M-15	
pН	7.3	7.7	7.5	7.5	7.1	
			mg L ⁻¹			
Cl-	20	14	10	10	9	
SO4 ²⁻	198	349	632	129	815	
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.25	<0.25	<0.25	<0.25	< 0.25	

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15 AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON APRIL 29, 2022

	Lysimeter No.								
Parameter	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
рН	7.4	7.0	7.3	7.2	7.0	7.4	7.6	7.6	6.9
					mg L ⁻¹				
Cl-	18	232	139	19	536	84	398	528	340
SO_4^{2-}	759	136	47	1,190	1,529	1,284	16	283	169
NO ₂ ⁻ +NO ₃ ⁻ -N	0.77	7.5	1.1	2.9	1.1	1.1	1.6	0.92	< 0.25

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON MAY 10, 2022

¹Aliquots for SO₄²⁻ analyses collected on May 10, 2022, could not be analyzed because cold room temperature exceeded method requirements. The SO₄²⁻ analyses were conducted on samples collected on June 8, 2022, for lysimeters L-2N, L-3N, L-4N, L-5N, L-6N, L-7N, and L-9N, on June 22 for lysimeter L-1N, and on June 29 for lysimeter L-8N.

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNDALE AVENUE SOLIDSMANAGEMENT AREA DURING MAY AND JUNE 2022

Parameter	May	June
рН	7.6	7.6
Total Solids Total Volatile Solids ¹	8.6 45.0	6

¹Total volatile solids as a percentage of total solids.