



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.

February 26, 2024

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Director of Monitoring and Research

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 October, November, and December 2023

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for October, November, and December 2023, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2020-AO-64903. Biosolids were placed in the solids drying area in October, November, and December 2023.

- Table 1: Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on December 4, 2023.
- Table 2: Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on November 3, 2023.
- Table 3:Analysis of Biosolids Placed in the Lawndale Avenue Solids Management Area During
October, November, and December 2023.

Very truly yours,

Albert Con

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

AC:BM:lf Attachment Mr. J. Patel, IEPA Mr. T. Bennett, IEPA Mr. B. Fleming, IEPA Dr. H. Zhang

LAWNDALE AVENUE SOLIDS MANAGEMENT AREA MONITORING REPORT FOR FOURTH QUARTER 2023

By

Benjamin Morgan Environmental Soil Scientist

Albert Cox Environmental Monitoring and Research Manager

Monitoring and Research Department Edward W. Podczerwinski, Director

March 2024

	Monitoring Well No.						
Parameter	M-11	M-12	M-13	M-14	M-15		
рН	7.4	7.7	7.5	7.5	7.3		
			mg L ⁻¹				
Cl ⁻	18	15	10	10	9.3		
SO_4^{2-}	211	350	658	129	839		
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.50	<0.50	<0.50	<0.50	< 0.50		

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15 AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON DECEMBER 4, 2023

NOVEMBER 3, 2023									
	Lysimeter No.								
Parameter	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
рН	7.4	7.3	7.3	7.2	7.3	7.0	NS^1	8.1	7.2
					mg L ⁻¹				
Cl-	18	135	141	17	543	82	NS	497	344
SO_4^{2-}	796	104	52	1,214	1,571	1,371	NS	175	157
NO ₂ ⁻ +NO ₃ ⁻ -N	0.56	2.5	< 0.50	< 0.50	1.4	0.73	NS	0.73	< 0.50

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON NOVEMBER 3, 2023

¹No sample available for analysis due to Lysimeter L-7N being dry during sampling on November 3, 9, and 22, 2023.

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA DURING OCTOBER, NOVEMBER, AND DECEMBER 2023

Parameter	October	November	December
рН	7.6	7.6	7.5
		%	
Total Solids Total Volatile Solids ¹	13.2 41.3	20.8 42.2	8.1 48.4

¹Total volatile solids as a percentage of total solids.