



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 17, 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 October, November, and December 2021

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for October, November, and December 2021 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2020-AO-64903. Biosolids were placed in the solids drying area in October and November 2021.

- Table 1Analysis of Water from Monitoring Wells M-11 through M-15 at the LawndaleAvenue Solids Management Area Sampled on December 2, 2021.
- Table 2Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale AvenueSolids Management Area Sampled on November 19, 2021.
- Table 3Analysis of Biosolids Placed in the Lawndale Avenue Solids Management AreaDuring October and November 2021.

Very truly yours,

Albert Con

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

AC:lf Attachment cc: Mr I Patel IFPA/Mr

cc: Mr. J. Patel, IEPA/Mr. T. Bennett, IEPA Mr. B. Fleming, IEPA/Dr. H. Zhang BOARD OF COMMISSIONERS

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LAWNDALE AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

FOURTH QUARTER 2021

By

Benjamin Morgan Environmental Soil Scientist

Albert Cox Environmental Monitoring and Research Manager

Monitoring and Research Department Edward W. Podczerwinski, Director

February 2022

Parameter	Monitoring Well No.						
	M-11	M-12	M-13	M-14	M-15		
рН	7.4	7.7	7.4	7.5	7.4		
			mg L ⁻¹				
Cl-	20	16	11	10	9		
SO_4^{2-}	203	371	653	135	846		
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 DECEMBER 2, 2021

	Lysimeter No.								
Parameter	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
рН	7.6	7.4	7.0	7.0	7.3	7.3	8.0	7.9	7.5
					mg L ⁻¹				
Cl-	20	255	134	22	527	71	323	380	337
SO_4^{2-}	815	169	52	1,335	1,521	1,114	17	143	167
NO ₂ ⁻ +NO ₃ ⁻ -N	0.33	2.31	0.64	0.27	0.69	< 0.25	1.19	0.51	0.36

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON NOVEMBER 19, 2021

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNDALE AVENUE SOLIDSMANAGEMENT AREA DURING OCTOBER AND NOVEMBER 2021

October	November		
7.7	7.7		
m	ng L ⁻¹		
16.8 43.1	9.2 43.3		
	7.7 m 16.8		

¹Total volatile solids as a percentage of total solids.