



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: 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 2020

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for October, November, and December 2020 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.

- Table 1Analysis of Water from Monitoring Wells M-11 through M-15 at the
Lawndale Avenue Solids Management Area Sampled on November 17,
2020.
- Table 2Analysis of Water from Lysimeters L-1N through L-9N at the LawndaleAvenue Solids Management Area Sampled on November 17, 2020.
- Table 3Analysis of Biosolids Placed in the Lawndale Avenue Solids ManagementArea 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

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

LAWNDALE AVENUE SOLIDS MANAGEMENT AREA MONITORING REPORT FOR FOURTH QUARTER 2020

Monitoring and Research Department Edward W. Podczerwinski, Director

February 2021

	Monitoring Well No.						
Parameter	M-11	M-12	M-13	M-14	M-15		
рН	7.2	7.3	7.4	7.4	7.1		
			mg L ⁻¹				
Cl-	22	15	10	10	9		
SO ₄ ²⁻	202	354	631	129	823		
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 NOVEMBER 17, 2020

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON NOVEMBER 17, 2020

			Lysimeter No.						
Parameter	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N ^{1,2}	L-9N
рН	7.6	7.5	7.7	7.4	7.6	6.8	7.6	8.1	6.9
					- mg L ⁻¹				
Cl ⁻	18	137	133	22	524	79	351	95	365
SO ₄ ²⁻	765	139	61	1,452	1,502	1,361	31	67	187
NO ₂ ⁻ +NO ₃ ⁻ -N	0.37	0.99	0.57	< 0.25	0.91	0.40	1.03	<1.29	0.45

¹Lysimeter L-8N was dry on November 17, 2020 and was re-sampled on December 8. ²Lysimeter L-8N did not produce adequate sample volume for all analyses and was diluted prior to analysis. Results are presented after adjusting for dilution factor.

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

Parameter	October	November
рН	8.1	7.9
Total Solids Total Volatile Solids ¹	15.6 47.5	15.5 45.5

¹Total volatile solids as a percentage of total solids.