

Protecting Our Water Environment



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 2, 2023

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 2022

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for October, November, and December 2022, 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 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 November 9, 2022.
- <u>Table 2</u>: Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on November 1, 2022.
- <u>Table 3</u>: Analysis of Biosolids Placed in the Lawndale Avenue Solids Management Area During October, November, and December 2022.

Very truly yours,

Albert Con

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

AC:lf Attachment cc: Mr. J. Patel, IEPA Mr. T. Bennett, IEPA Mr. B. Fleming, IEPA Dr. H. Zhang BOARD OF COMMISSIONERS Kari K. Steele President Kimberly Du Buclet Vice President Marcelino Garcia *Chairman of Finance* Yumeka Brown Cameron Davis Patricia Theresa Flynn Daniel Pogorzelski Eira L. Corral Sepúlveda Mariyana T. Spyropoulos

LAWNDALE AVENUE SOLIDS MANAGEMENT AREA MONITORING REPORT FOR FOURTH QUARTER 2022

By

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February 2023

	Monitoring Well No.						
Parameter	M-11	M-12	M-13	M-14	M-15		
рН	7.3	7.5	7.5	7.6	7.3		
			mg L ⁻¹				
Cl-	19	14	10	10	9		
SO4 ²⁻	187	349	634	121	797		
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 9, 2022

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON NOVEMBER 1, 2022¹

	Lysimeter No.								
Parameter	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
pН	7.1	7.4	7.6	7.1	6.8	7.2	7.6	7.2	7.0
					mg L ⁻¹				
Cl	18	170	139	19	520	81	375	488	341
SO4 ²⁻	822	148	47	1,418	1,585	1,431	1	146	157
NO ₂ ⁻ +NO ₃ ⁻ -N	0.47	2.3	0.87	1.2	1.3	0.66	0.84	0.55	0.39

¹Lysimeters L-1N and L-8N did not yield sufficient sample volume for analysis on November 1 and were resampled on November 10 (L-8N) and November 22 (L-1N).

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA DURING OCTOBER, NOVEMBER, AND DECEMBER 2022

Parameter	October	November	December
рН	7.7	7.7	7.5
		•••••••••••••••••••••••••••••••••••••••	
Total Solids Total Volatile Solids ¹	12.3 41.5	11.1 43.6	11.3 42.6

¹Total volatile solids as a percentage of total solids.