



Metropolitan Water Reclamation District of Greater Chicago

CECIL LUE-HING RESEARCH AND DEVELOPMENT COMPLEX 6001 WEST PERSHING ROAD CICERO, ILLINOIS 60804-4112

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September 3, 2024

Illinois Environmental Protection Agency Bureau of Water Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9274

Dear Sir or Madam:

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 2024

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for April, May, and June 2024, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2020-AO-64903. During the second quarter of 2024, biosolids were placed in the solids drying area in May and June.

- Table 1 Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on May 22, 2024.
- Table 2Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids
Management Area Sampled on June 6, 2024.
- Table 3 Analysis of Biosolids Placed in the Lawndale Avenue Solids Management Area During May and June 2024.

Very truly yours,

Albert Con

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

AC:EE:If Attachments cc: Mr. T. Bennett, IEPA Mr. B. Fleming, IEPA Dr. H. Zhang

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LAWNDALE AVENUE SOLIDS MANAGEMENT AREA MONITORING REPORT FOR SECOND QUARTER 2024

By

Benjamin Morgan Environmental Soil Scientist

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September 2024

SAMPLED ON MAY 22, 2024								
	Monitoring Well No.							
Parameter	M-11	M-12	M-13	M-14	M-15			
рН	7.3	7.6	7.5 mg L ⁻¹	7.5	7.3			
Cl ⁻ SO4 ²⁻ NO2 ⁻ +NO3 ⁻ -N	24 198 NRR ¹	15 356 NRR	11 664 NRR	11 131 NRR	10 850 NRR			

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15 AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON MAY 22, 2024

¹No reportable result due to sample contamination.

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THE
LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON JUNE 6, 2024 ¹

		Lysimeter No.							
Parameter	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
pH	7.4	7.1	7.2	6.9	7.2	6.8	7.9	7.8	7.1
					mg L ⁻¹				
Cl	19	162	144	15	550	84	313	374	347
SO_4^{2-}	807	157	42	1,122	,	1,416		129	151
$NO_2^-+NO_3^N$	1.0	3.1	< 0.50	< 0.50	2.3	0.56	< 0.50	0.53	0.59

¹Lysimeter L-7N did not produce adequate sample volume for analysis on June 6, 2024, and was resampled on June 27, 2024.

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNDALE AVENUE SOLIDSMANAGEMENT AREA DURING MAY AND JUNE 2024

Parameter	May	June
рН	7.7	7.7
	0/	<i>′</i> o
Total Solids Total Volatile Solids ¹	9.8 48.4	18.6 44.7

¹Total volatile solids as a percentage of total solids.