

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 25-22

LAWNDALE AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT

FOR FIRST QUARTER 2025

July 2025

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

CECIL LUE-HING RESEARCH AND DEVELOPMENT COMPLEX
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May 28, 2025

Mr. Caleb Ruyle
Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section, Mail Code #19
2520 W. Iles Ave.
P.O. Box 19276
Springfield, Illinois 62794-9274

Dear Mr. Ruyle:

Subject: Lawndale Avenue Solids Management Area - Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2024-AO-71558, Monitoring Report for January, February, and March 2025

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for January, February, and March 2025, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2024-AO-71558. Biosolids were not placed in the solids drying area during the first quarter of 2025.

Table 1: Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on February 26, 2025.

Table 2: Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on March 6, 2025.

Very truly yours,

Albert E. Cox
Environmental Monitoring and Research Manager
Monitoring and Research Department

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

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**LAWNDALE AVENUE SOLIDS MANAGEMENT AREA
MONITORING REPORT
FOR FIRST QUARTER 2025**

By

**Essam El-Naggar
Environmental Soil Scientist**

**Albert Cox
Environmental Monitoring and Research Manager**

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15
AT THE LAWNDAL AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON
FEBRUARY 26, 2025

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14	M-15
pH	7.4	7.5	7.4	7.5	7.3
	-----mg L ⁻¹ -----				
Cl ⁻	28	14	10	10	9
SO ₄ ²⁻	199	342	629	123	787
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THE LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON MARCH 6, 2025

Parameter	Lysimeter No.								
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N ¹	L-8N	L-9N
pH	7.5	7.4	7.3	7.2	7.1	6.9	NA	7.6	8.0
	-----mg L ⁻¹ -----								
Cl ⁻	20	138	145	17	550	85	NA	519	335
SO ₄ ²⁻	829	225	31	1,282	1,605	1,359	NA	171	141
NO ₂ ⁻ +NO ₃ ⁻ -N	0.52	<0.50	0.95	3.1	0.85	<0.50	NA	0.67	<0.50

¹Lysimeter L-7N did not yield enough sample for analysis due to dry conditions.