

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 24-16

LAWNDALE AVENUE SOLIDS MANAGEMENT AREAS

MONITORING REPORT

FOR FIRST QUARTER 2024

May 2024

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Edward W. Podczewinski, P.E.

Director of Monitoring and Research

May 28, 2024

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 January, February, and March 2024

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for January, February, and March 2024, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2020-AO-64903. Biosolids were not placed in the solids drying area during the first quarter of 2024.

Table 1 Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on March 14, 2024.

Table 2 Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on February 22 and 23, 2024.

Very truly yours,



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

AC:BM:lf

Attachments

cc/att: Mr. J. Patel, IEPA

Mr. T. Bennett, IEPA

Mr. B. Fleming, IEPA

Dr. H. Zhang

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**LAWNDALE AVENUE SOLIDS MANAGEMENT AREAS
MONITORING REPORT
FOR FIRST QUARTER 2024**

By

**Benjamin Morgan
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 LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA
 SAMPLED ON MARCH 14, 2024

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14	M-15
pH	7.3	7.5	7.2	7.4	7.1
	-----mg L ⁻¹ -----				
Cl ⁻	23	14	9.8	9.8	8.7
SO ₄ ²⁻	205	359	678	132	847
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 FEBRUARY 22 AND 23, 2024¹

Parameter	Lysimeter No.								
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
pH	7.6	7.6	7.5	7.0	7.4	7.2	8.1	7.7	7.1
	-----mg L ⁻¹ -----								
Cl ⁻	23	145	148	16	520	83	351	490	341
SO ₄ ²⁻	790	126	55	1,162	2,395	1,432	<5.0	168	152
NO ₂ ⁻ +NO ₃ ⁻ -N	1.3	1.2	<0.50	9.7	1.1	<0.50	0.53	<0.50	0.53

¹Lysimeters L-1N, L-2N, L-3N, L-4N, and L-6N were sampled on February 23, 2024, and the rest on February 22, 2024.