

*Protecting Our Water Environment*



*Metropolitan Water Reclamation District of Greater Chicago*

***MONITORING AND RESEARCH  
DEPARTMENT***

***REPORT NO. 25-14***

***LAWNDALE AVENUE SOLIDS MANAGEMENT AREA***

***MONITORING REPORT FOR***

***FOURTH QUARTER 2024***

***May 2025***



**Metropolitan Water Reclamation District of Greater Chicago**

CECIL LUE-HING RESEARCH AND DEVELOPMENT COMPLEX  
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February 21, 2025

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 Sir or Madam:

Subject: Lawndale Avenue Solids Management Area – Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2024-AO-71558, Monitoring Report for October, November, and December 2024

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for October, November, and December 2024, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2024-AO-71558. Biosolids were placed in the solids drying area in October, and November 2024.

Table 1: Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on October 23, 2024.

Table 2: Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on November 5, 2024.

Table 3: Analysis of Biosolids Placed in the Lawndale Avenue Solids Management Area During October and November 2024.

Very truly yours,

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

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

***Metropolitan Water Reclamation District of Greater Chicago***  
100 East Erie Street Chicago, Illinois 60611-2803 (312) 751-5600

**LAWNDALE AVENUE SOLIDS MANAGEMENT AREA  
MONITORING REPORT FOR  
FOURTH 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 LAWNDAL AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON  
OCTOBER 23, 2024

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14	M-15
pH	7.3	7.5	7.4	7.5	7.1
	-----mg L <sup>-1</sup> -----				
Cl <sup>-</sup>	26	15	10	11	9
SO <sub>4</sub> <sup>2-</sup>	197	345	629	129	788
NO <sub>2</sub> <sup>-</sup> +NO <sub>3</sub> <sup>-</sup> -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  
LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON  
NOVEMBER 5, 2024

Parameter	Lysimeter No.								
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
pH	7.3	7.3	7.2	7.4	7.1	6.9	7.6	7.4	7.2
	-----mg L <sup>-1</sup> -----								
Cl <sup>-</sup>	21	114	144	18	536	84	359	472	338
SO <sub>4</sub> <sup>2-</sup>	846	105	32	1270	1553	1370	<1.0	160	145
NO <sub>2</sub> <sup>-</sup> +NO <sub>3</sub> <sup>-</sup> -N	0.62	0.96	0.76	3.80	1.70	0.60	1.10	0.74	1.70

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNSDALE AVENUE SOLIDS  
MANAGEMENT AREA DURING OCTOBER AND NOVEMBER 2024

Parameter	October	November
pH	7.6	7.9
	-----%-----	
Total Solids	21.1	7.6
Total Volatile Solids <sup>1</sup>	44.9	47.9

<sup>1</sup>Total volatile solids as a percentage of total solids.