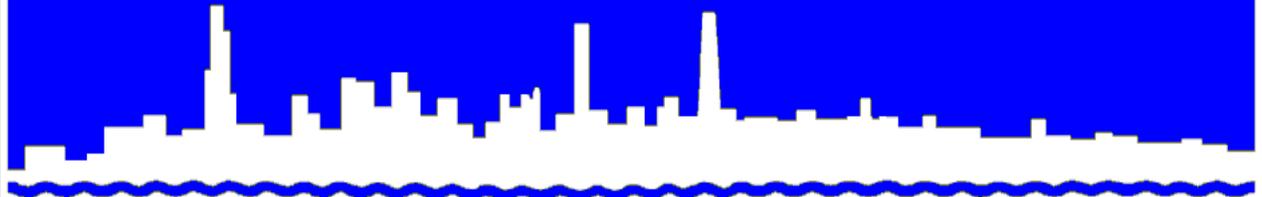


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 21-16

LAWNDALE AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

FIRST QUARTER 2021

May 2021

Metropolitan Water Reclamation District of Greater Chicago

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

May 13, 2021

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 2021

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for January, February, and March 2021 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2020-AO-64903. Biosolids were not placed in the solids drying area in the first quarter of 2021.

Table 1 Analysis of Water From Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled in March 2021.

Table 2 Analysis of Water From Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled in March 2021.

Very truly yours,



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

AC:BM:cm

Attachments

cc/att: Mr. J. Patel, IEPA, 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
FIRST QUARTER 2020**

Monitoring and Research Department
Edward W. Podczewinski, Director

May 2021

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15
 AT THE LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA
 SAMPLED IN MARCH 2021¹

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14	M-15
pH	7.5	7.7	7.6	7.1	7.3
	----- mg L ⁻¹ -----				
Cl ⁻	21	15	10	10	9
SO ₄ ²⁻	207	358	649	132	835
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.25	<0.25	<0.25	0.46	<0.25

¹Well M-14 was sampled on March 22, 2021. Wells M-11 and M-12 were sampled on March 23, 2021. Wells M-13 and M-15 were sampled on March 30, 2021.

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THE LAWDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED IN MARCH 2021¹

Parameter	Lysimeter No.								
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
pH	7.4	7.7	7.3	7.2	7.8	7.1	8.0	8.0	7.6
	----- mg L ⁻¹ -----								
Cl ⁻	19	160	143	24	559	86	293	399	377
SO ₄ ²⁻	802	155	58	1,556	1,585	1,427	10	143	186
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.25	0.38	0.33	0.65	0.92	<0.25	0.37	0.41	0.30

¹Lysimeters were sampled on March 4, 2021. L-1N, L-3N, L-4N, and L-6N were dry and re-sampled on March 16, 2021.