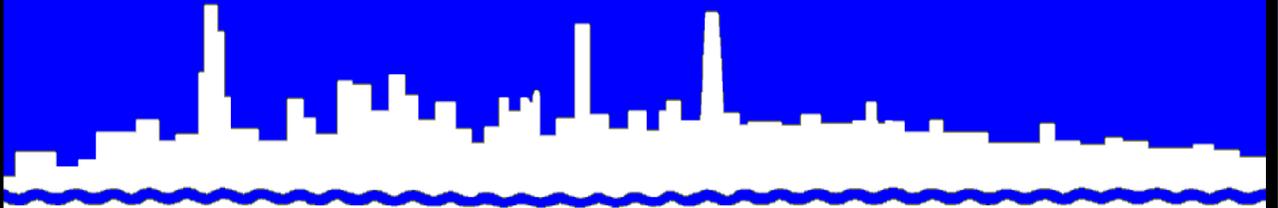


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 19-30

LAWNDALE AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

THIRD QUARTER 2019

November 2019

Kari K. Steele
President
Barbara J. McGowan
Vice President
Frank Avila
Chairman of Finance
Cameron Davis
Kimberly Du Buclet
Marcelino Garcia
Josina Morita
Debra Shore
Mariyana T. Spyropoulos

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

November 8, 2019

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

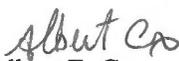
Dear Mr. Callaway:

Subject: Lawndale Avenue Solids Management Area - Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2015-AO-59623, Monitoring Report for July, August, and September 2019

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for July, August, and September 2019 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2015-AO-59623. Biosolids were placed in the solids drying area in July, August, and September.

- Table 1 Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled in September, 2019.
- Table 2 Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on August 7, 2019.
- Table 3 Analysis of Biosolids Placed in the Lawndale Avenue Solids Management Area During July, August, and September 2019.

Very truly yours,


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

AC:BM:cm
Attachments
cc/att: Mr. J. Patel, IEPA/Records Unit, 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
THIRD QUARTER 2019**

Monitoring and Research Department
Edward W. Podczewinski, Director

November 2019

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15
 AT THE LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA
 SAMPLED IN SEPTEMBER, 2019

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14 ¹	M-15
pH	7.3	7.5	7.5	7.8	7.4
	----- mg L ⁻¹ -----				
Cl ⁻	23	15	10	10	9
SO ₄ ²⁻	200	349	633	129	819
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.25	<0.25	<0.25	<0.25	<0.25

¹Well M-14 was sampled on September 14. All other wells were sampled on September 10.

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N
 AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA
 SAMPLED ON AUGUST 7, 2019

Parameter	Lysimeter No.							
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-8N	L-9N
pH	7.6	7.4	7.1	7.0	7.1	6.9	7.5	7.1
	----- mg L ⁻¹ -----							
Cl ⁻	17	257	142	24	586	77	348	369
SO ₄ ²⁻	738	148	68	1,142	1,524	1,330	121	192
NO ₂ ⁻ +NO ₃ ⁻ -N	0.37	5.30	<0.25	0.37	0.98	0.71	0.61	0.29

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA DURING JULY, AUGUST, AND SEPTEMBER 2019

Parameter	July	August	September
pH	7.8	7.7	7.8
	----- % -----		
Total Solids	16.0	13.9	15.3
Total Volatile Solids ¹	42.9	46.2	45.1

¹Total volatile solids as a percentage of total solids.