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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 26, 2018

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 2018

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for July, August, and September 2018 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2015-AO-59623. Biosolids were placed in the solids drying area during July, August, and September.

Table 1	Analysis	of	Water	from	Monitoring	Wells	M-11	through	M-15	at	the
	Lawndale	Av	enue Sc	lids M	lanagement A	rea San	npled o	n July 12	, 2018.		

- Table 2Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale AvenueSolids Management Area Sampled on August 8, 2018.
- Table 3Analysis of Biosolids Placed in the Lawndale Avenue Solids Management AreaDuring July 2018.
- <u>Table 4</u> Analysis of Biosolids Placed in the Lawndale Avenue Solids Management Area During August 2018.
- <u>Table 5</u> Analysis of Biosolids Placed in the Lawndale Avenue Solids Management Area During September 2018.

Very truly yours,

Environmental Monitoring and Research Manager Monitoring and Research Department

AC:DB:cm Attachments cc/att: Mr. J. Patel, IEPA/Records Unit, IEPA Drs. H. Zhang/G. Tian/D. Brose 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 2018

Monitoring and Research Department Edward W. Podczerwinski, Director

November 2018

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 2018

Monitoring and Research Department Edward W. Podczerwinski, Director

November 2018

	Monitoring Well No.							
Parameter	M-11	M-12	M-13 <sup>1</sup>	M-14	M-15			
pH	6.9	7.5	ND	7.7	7.1			
			mg L <sup>-1</sup>					
Cl-	23	15	ND	<5	10			
SO4 <sup>2-</sup>	217	373	ND	132	870			
NO <sub>2</sub> +NO <sub>3</sub> □N	< 0.25	< 0.25	ND	< 0.25	< 0.25			

## TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15 AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON JULY 12, 2018

<sup>1</sup>Not determined as no sample was collected due to inaccessibility to the well.

				Lysimete	er No.			
Parameter	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-8N	L-9N
pН	7.5	7.5	7.4	7.4	7.4	7.2	7.8	7.5
				mg L <sup>-1</sup>				
Cl-	14	170	133	16	630	74	341	358
SO4 <sup>2-</sup>	762	147	84	1,256	1,610	NRR <sup>1</sup>	149	211
NO <sub>2</sub> +NO <sub>3</sub> -N	<0.25	7.2	< 0.25	0.42	1.4	0.43	0.78	< 0.25

# TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THELAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON AUGUST 8, 2018

<sup>1</sup>NRR=No reportable results due to instrument calibration failure.

Parameter	Analysis <sup>1</sup>
рН	7.4
	%
Total Solids	10
Total Volatile Solids <sup>2</sup>	47

## TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA DURING JULY 2018

<sup>1</sup>Mean of four samples. <sup>2</sup>Total volatile solids as a percentage of total solids.

Parameter	Analysis <sup>1</sup>
рН	7.4
	%
Total Solids	12
Total Volatile Solids <sup>2</sup>	46

## TABLE 4: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA DURING AUGUST 2018

<sup>1</sup>Mean of seven samples. <sup>2</sup>Total volatile solids as a percentage of total solids.

Parameter	Analysis <sup>1</sup>
рН	7.7
	%
Total Solids	13
Total Volatile Solids <sup>2</sup>	44

## TABLE 5: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA DURING SEPTEMBER 2018

<sup>1</sup>Mean of four samples. <sup>2</sup>Total volatile solids as a percentage of total solids.