

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

*MONITORING AND RESEARCH
DEPARTMENT*

REPORT NO. 14-08

RIDGELAND AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

FOURTH QUARTER 2013

February 2014

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

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February 20, 2014

Mr. S. Alan Keller, P.E.
Manager, Permit Section
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794 - 9276

Dear Mr. Keller:

Subject: Ridgeland Avenue Solids Management Area - Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2010-AO-0267, Monitoring Report for October, November, and December 2013

The attached table contains the lysimeter monitoring data for the Ridgeland Avenue Solids Management Area for October, November, and December 2013 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2010-AO-0267.

The data reported are as follows:

Table 1, Analysis of Water from Lysimeter L-2N at the Ridgeland Avenue Solids Management Area Sampled During October, November, and December 2013

No biosolids were placed in or removed from the solids drying area during October, November, and December 2013.

Very truly yours,

Thomas C. Granato, Ph.D.
Director
Monitoring and Research

TCG:PL:cm

Attachments

cc w/att: Mr. J. Patel, IEPA
Records Unit, IEPA

TABLE 1: ANALYSIS OF WATER FROM LYSIMETER L-2N
 AT THE RIDGELAND AVENUE SOLIDS MANAGEMENT
 AREA SAMPLED DURING OCTOBER, NOVEMBER, AND DECEMBER 2013

Parameter	Unit	Date Sampled		
		10/02/13	11/06/13	12/04/13
pH ¹		7.6	7.8	8.0
EC	mS/m	284	232	261
Total Dissolved Solids	mg/L	2,596	2,030	1,908
Total Dissolved Organic Carbon	"	8	7	7
Cl ⁻	"	375	377	319
SO ₄ ⁼	"	328	311	302
Alkalinity as CaCO ₃	"	835	777	701
TKN	"	40	54	31
NH ₃ -N	"	34	32	33
NO ₂ + NO ₃ -N	"	5.4	7.7	6.2
Total P	"	< 0.20	< 0.20	< 0.20
Al	"	< 1.0	< 1.0	< 1.0
Ca	"	228	218	214
Cd	"	< 0.001	< 0.001	< 0.001
Cr	"	< 0.005	< 0.005	< 0.005
Cu	"	< 0.005	< 0.005	< 0.005
Fe	"	1	0.9	2
Hg	μg/L	< 0.20	< 0.20	< 0.20
K	mg/L	12	12	13
Mg	"	149	145	143
Mn	"	0.080	0.077	0.071
Na	"	132	108	127
Ni	"	< 0.005	< 0.005	< 0.005
Pb	"	< 0.02	< 0.02	< 0.02
Zn	"	< 0.01	< 0.01	< 0.01

¹pH analyzed beyond recommended holding time of 15 minutes.