

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 12-11

RIDGELAND AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

FOURTH QUARTER 2011

FEBRUARY 2012

Protecting Our Water Environment

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Thomas C. Granato, Ph.D.

Director of Monitoring and Research Department

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February 22, 2012

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 2011

The attached table contains the monitoring data for the Ridgeland Avenue Solids Management Area for October, November, and December 2011 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 2011

No biosolids were placed in or removed from the solids drying area during October, November, and December 2011.

Very truly yours,

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

TCG:PL:cm

Attachments

cc w/att: R. Sulski, 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 2011

Parameter	Unit	Date Sampled		
		10/19/11	11/09/11	12/07/11
pH ¹		8.1	8.0	8.0
EC	mS/m	265	263	281
Total Dissolved Solids	mg/L	1,908	2,106	1,856
Total Dissolved Organic Carbon	"	7	8	6
Cl ⁻	"	341	355	361
SO ₄ ⁼	"	262	298	288
TKN	"	34	42	34
NH ₃ -N	"	37	39	38
NO ₂ + NO ₃ -N	"	1.3	0.87	1.4
Total P	"	< 0.10	0.16	0.14
Alkalinity as CaCO ₃	"	798	742	837
Al	"	< 1.0	< 1.0	< 1.0
Ca	"	218	246	236
Cd	"	< 0.001	< 0.001	< 0.001
Cr	"	< 0.003	< 0.003	< 0.003
Cu	"	0.007	< 0.005	< 0.005
Fe	"	1	5	5
Hg	μg/L	< 0.20	< 0.20	< 0.20
K	mg/L	11	11	12
Mg	"	139	141	145
Mn	"	0.093	0.112	0.097
Na	"	111	113	117
Ni	"	0.026	< 0.008	< 0.008
Pb	"	< 0.03	< 0.03	< 0.03
Zn	"	0.11	< 0.02	< 0.02

¹pH analyzed beyond recommended holding time of 15 minutes.