

*Protecting Our Water Environment*



***Metropolitan Water Reclamation District of Greater Chicago***

***MONITORING AND RESEARCH  
DEPARTMENT***

***REPORT NO. 12-24***

***RIDGELAND AVENUE SOLIDS MANAGEMENT AREA***

***MONITORING REPORT FOR***

***FIRST QUARTER 2012***

***JUNE 2012***

## Protecting Our Water Environment



### Metropolitan Water Reclamation District of Greater Chicago

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**Thomas C. Granato, Ph.D.**

Director of Monitoring and Research Department  
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June 1, 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 January, February, and March 2012

The attached table contains the monitoring data for the Ridgeland Avenue Solids Management Area for January, February, and March 2012 as required by Illinois Environmental Protection Agency 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 January, February, and March 2012

No biosolids were placed in or removed from the solids drying area during January, February, and March 2012.

Very truly yours,

Thomas C. Granato  
Director  
Monitoring and Research

TCG:PL:cm  
Attachment  
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 JANUARY, FEBRUARY, AND MARCH 2012

Parameter	Unit	Date Sampled		
		01/04/12	02/02/12	03/07/12
pH <sup>1</sup>		8.2	8.1	8.1
EC	mS/m	NA <sup>2</sup>	272	276
Total Dissolved Solids	mg/L	2,012	1,700	1,822
Total Dissolved Organic Carbon	"	9	8	9
Cl <sup>-</sup>	"	346	356	341
SO <sub>4</sub> <sup>=</sup>	"	394	289	286
TKN	"	37	43	39
NH <sub>3</sub> -N	"	37	37	36
NO <sub>2</sub> + NO <sub>3</sub> -N	"	1.5	2.5	4.4
Total P	"	< 0.10	< 0.10	< 0.10
Alkalinity as CaCO <sub>3</sub>	"	844	834	787
Al	"	< 1.0	< 1.0	< 1.0
Ca	"	258	246	238
Cd	"	< 0.001	< 0.001	< 0.001
Cr	"	< 0.005	< 0.005	< 0.005
Cu	"	< 0.005	< 0.005	< 0.005
Fe	"	2	2	2
Hg	μg/L	< 0.20	< 0.20	< 0.20
K	mg/L	11	12	12
Mg	"	146	149	150
Mn	"	0.121	0.095	0.090
Na	"	116	121	124
Ni	"	< 0.005	< 0.005	< 0.005
Pb	"	< 0.02	< 0.02	< 0.02
Zn	"	< 0.01	0.04	< 0.01

<sup>1</sup>pH analyzed beyond recommended holding time of 15 minutes.

<sup>2</sup>No analysis; insufficient sample.