

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 10-48

RIDGELAND AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

SECOND QUARTER 2010

AUGUST 2010

Protecting Our Water Environment

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Metropolitan Water Reclamation District of Greater Chicago

100 East Erie Street

Chicago, Illinois 60611-3154

312.751.5190

Louis Kollias, P.E., BCEE

Director of Monitoring and Research
louis.kollias@mwr.org

August 20, 2010

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. 2005-AO-4283-2, Monitoring Report for April, May, and June 2010

The attached table contains the monitoring data for the Ridgeland Avenue Solids Management Area for April, May, and June 2010 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2005-AO-4283-2.

The data reported are as follows:

Table 1, Analysis of Water from Lysimeter L-2N at the Ridgeland Avenue Solids Management Area Sampled During April, May, and June, 2010

No biosolids were placed in or removed from the solids drying area during April, May, and June 2010.

Very truly yours,

Louis Kollias
Director
Monitoring and Research

LK:PL:kq
Attachments

cc w/att: Mr. Sulski, IEPA
Records Unit, IEPA
Granato/O'Connor

TABLE 1: ANALYSIS OF WATER FROM LYSIMETER L-2N
AT THE RIDGELAND AVENUE SOLIDS MANAGEMENT
AREA SAMPLED DURING APRIL, MAY, AND JUNE 2010

Parameter	Unit	Date Sampled		
		04/07/10	05/05/10	06/02/10
pH ¹		8.0	7.9	8.0
EC	mS/m	236	273	268
Total Dissolved Solids	mg/L	1,798	2,226	2,038
Total Dissolved Organic Carbon	"	9	8	7
Cl ⁻	"	303	309	302
SO ₄ ⁼	"	246	274	264
TKN	"	36	41	38
NH ₃ -N	"	38	39	39
NO ₂ + NO ₃ -N	"	< 0.04	< 0.04	< 0.04
Total P	"	< 0.10	< 0.10	< 0.10
Alkalinity as CaCO ₃	"	736	820	803
Al	"	0.047	0.078	0.072
Ca	"	212	223	220
Cd	"	< 0.003	< 0.003	< 0.003
Cr	"	< 0.003	< 0.003	< 0.003
Cu	"	< 0.008	< 0.008	< 0.008
Fe	"	1.79	1.70	1.28
Hg	μg/L	< 0.20	< 0.20	< 0.20
K	mg/L	11	12	12
Mg	"	138	142	142
Mn	"	0.096	0.118	0.113
Na	"	96	109	108
Ni	"	< 0.004	< 0.004	< 0.004
Pb	"	< 0.020	< 0.020	< 0.020
Zn	"	< 0.015	< 0.015	< 0.015

¹pH analyzed beyond recommended holding time of 15 minutes.