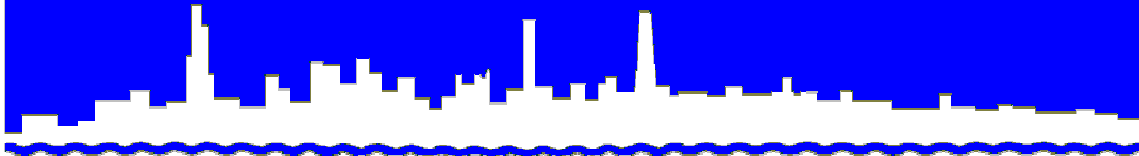


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 10-57

122ND AND STONY ISLAND AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

THIRD QUARTER 2010

DECEMBER 2010

Protecting Our Water Environment

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Louis Kollias, P.E., BCEE

Director of Monitoring and Research

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December 3, 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: 122nd and Stony Island Avenue Solids Management Area – Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2010-AO-0265, Monitoring Report for July, August, and September 2010

The attached two tables contain the monitoring data for the 122nd and Stony Island Avenue Solids Management Area for July, August, and September 2010 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2010-AO-0265.

The data reported are as follows:

Table 1, Analysis of Water from Lysimeter L-1 at the 122nd and Stony Island Avenue Solids Management Area Sampled During July, August, and September 2010

Table 2, Analysis of Water from Lysimeters L-2 through L-4 at the 122nd and Stony Island Avenue Solids Management Area Sampled on July 14, 2010

No biosolids were placed in or removed from the solids drying area during July, August, and September 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-1
 AT THE 122ND AND STONY ISLAND AVENUE SOLIDS MANAGEMENT
 AREA SAMPLED DURING JULY, AUGUST, AND SEPTEMBER 2010

Parameter	Unit	Date Sampled		
		07/14/10	08/11/10	09/01/10
pH ¹		7.9	7.6	7.8
EC	mS/m	286	291	295
Total Dissolved Solids	mg/L	1,920	2,046	2,040
Total Dissolved Organic Carbon	"	36	37	37
Cl ⁻	"	192	197	196
SO ₄ ⁼	"	193	192	259
TKN	"	26	26	32
NH ₃ -N	"	24	24	28
NO ₂ + NO ₃ -N	"	0.16	0.10	0.06
Total P	"	< 0.10	0.11	0.21
Alkalinity as CaCO ₃	"	1,078	1,171	1,305
Al	"	0.069	0.079	0.068
B	"	3.4	3.8	3.9
Ca	"	254	280	275
Cd	"	< 0.003	< 0.003	< 0.003
Cr	"	< 0.003	0.010	0.010
Cu	"	< 0.008	< 0.008	< 0.008
Fe	"	0.595	14.9	14.0
Hg	μg/L	< 0.20	< 0.20	< 0.20
K	mg/L	23	25	26
Mg	"	113	128	130
Mn	"	0.267	0.312	0.306
Na	"	192	201	206
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.

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-2 THROUGH L-4 AT THE 122ND AND STONY ISLAND AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON JULY 14, 2010

Parameter	Unit	Lysimeter No.		
		L-2	L-3	L-4
pH ¹		8.1	7.8	8.1
EC	mS/m	223	290	244
Total Dissolved Solids	mg/L	1,612	2,884	1,570
Total Dissolved Organic Carbon	"	14	35	23
Cl ⁻	"	356	95	235
SO ₄ ⁼	"	552	NA ²	96
TKN	"	2	9	8
NH ₃ -N	"	0.5	7	7
NO ₂ + NO ₃ -N	"	< 0.04	0.80	< 0.04
Total P	"	< 0.10	< 0.10	< 0.10
Alkalinity as CaCO ₃	"	417	1,144	950
Al	"	< 0.040	0.100	0.062
B	"	0.88	0.41	1.3
Ca	"	135	507	215
Cd	"	< 0.003	< 0.003	< 0.003
Cr	"	< 0.003	< 0.003	< 0.003
Cu	"	< 0.008	< 0.008	< 0.008
Fe	"	1.56	0.201	0.289
Hg	μg/L	< 0.20	< 0.20	< 0.20
K	mg/L	38	6	24
Mg	"	83.3	163	111
Mn	"	1.09	0.388	0.260
Na	"	237	52	192
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.

²No analysis.