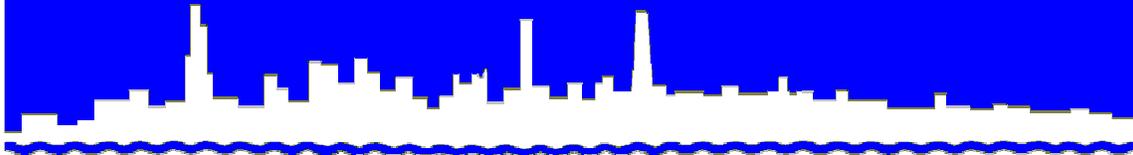


*Protecting Our Water Environment*



*Metropolitan Water Reclamation District of Greater Chicago*

***MONITORING AND RESEARCH  
DEPARTMENT***

*REPORT NO. 11-14*

*122<sup>ND</sup> AND STONY ISLAND AVENUE SOLIDS MANAGEMENT AREA*

*MONITORING REPORT FOR*

*FOURTH QUARTER 2010*

*MARCH 2011*

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**Thomas C. Granato, Ph.D.**  
Acting Director of Monitoring and Research  
thomas.granato@mwr.org

March 7, 2011

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: 122<sup>nd</sup> and Stony Island Avenue Solids Management Area – Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2010-AO-0267, Monitoring Report for October, November, and December 2010

The attached two tables contain the monitoring data for the 122<sup>nd</sup> and Stony Island Avenue Solids Management Area for October, November, and December 2010 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-1 at the 122<sup>nd</sup> and Stony Island Avenue Solids Management Area Sampled during October, November, and December 2010

Table 2, Analysis of Water from Lysimeters L-2 through L-4 at the 122<sup>nd</sup> and Stony Island Avenue Solids Management Area Sampled on October 13, 2010

No biosolids were placed in or removed from the solids drying area during October, November, and December 2010.

Very truly yours,

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

TCG: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 122<sup>ND</sup> AND STONY ISLAND AVENUE SOLIDS MANAGEMENT  
AREA SAMPLED DURING OCTOBER, NOVEMBER, AND DECEMBER 2010

Parameter	Unit	Date Sampled		
		10/13/10	11/03/10	12/01/10
pH <sup>1</sup>		7.8	8.0	7.9
EC	mS/m	306	304	276
Total Dissolved Solids	mg/L	2,184	2,196	2,196
Total Dissolved Organic Carbon	"	39	39	36
Cl <sup>-</sup>	"	203	195	229
SO <sub>4</sub> <sup>=</sup>	"	357	417	459
TKN	"	34	33	35
NH <sub>3</sub> -N	"	30	32	32
NO <sub>2</sub> + NO <sub>3</sub> -N	"	0.73	0.12	0.14
Total P	"	< 0.10	< 0.10	< 0.10
Alkalinity as CaCO <sub>3</sub>	"	1,233	NA <sup>2</sup>	1,231
Al	"	< 1.0	< 1.0	< 1.0
B	"	4.3	5.0	4.5
Ca	"	308	312	329
Cd	"	< 0.001	< 0.001	< 0.001
Cr	"	0.007	< 0.003	< 0.003
Cu	"	< 0.005	< 0.005	< 0.005
Fe	"	14	14	12
Hg	μg/L	< 0.20	< 0.20	< 0.20
K	mg/L	29	30	29
Mg	"	140	138	141
Mn	"	0.322	0.317	0.339
Na	"	209	194	191
Ni	"	< 0.008	< 0.008	< 0.008
Pb	"	< 0.03	< 0.03	< 0.03
Zn	"	< 0.02	< 0.02	< 0.02

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

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

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-2 THROUGH L-4 AT THE 122<sup>ND</sup> AND STONY ISLAND AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON OCTOBER 13, 2010

Parameter	Unit	Lysimeter No.		
		L-2	L-3	L-4
pH <sup>1</sup>		7.9	7.7	8.0
EC	mS/m	232	305	245
Total Dissolved Solids	mg/L	1,472	2,644	1,608
Total Dissolved Organic Carbon	"	16	46	23
Cl <sup>-</sup>	"	407	101	236
SO <sub>4</sub> <sup>=</sup>	"	NA <sup>2</sup>	NA <sup>2</sup>	NA <sup>2</sup>
TKN	"	3	11	8
NH <sub>3</sub> -N	"	1	7	7
NO <sub>2</sub> + NO <sub>3</sub> -N	"	0.15	0.24	< 0.04
Total P	"	0.11	< 0.10	< 0.10
Alkalinity as CaCO <sub>3</sub>	"	546	< 15	956
Al	"	< 1.0	< 1.0	< 1.0
B	"	1.2	0.42	1.2
Ca	"	122	515	214
Cd	"	0.003	< 0.001	< 0.001
Cr	"	0.005	0.008	0.006
Cu	"	< 0.005	< 0.005	< 0.005
Fe	"	15	21	4
Hg	μg/L	< 0.20	< 0.20	< 0.20
K	mg/L	42	6	20
Mg	"	74.9	164	105
Mn	"	1.14	0.470	0.177
Na	"	242	52	187
Ni	"	< 0.008	< 0.008	< 0.008
Pb	"	< 0.03	< 0.03	< 0.03
Zn	"	< 0.02	< 0.02	< 0.02

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

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