

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 14-15

122ND AND STONY ISLAND AVENUE SOLIDS MANAGEMENT

AREA MONITORING REPORT FOR

FIRST QUARTER 2014

MAY 2014

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

THOMAS C. GRANATO, Ph.D.

Director of Monitoring and Research

312.751.5190 f: 312.751.5194

thomas.granato@mwrdd.org

May 21, 2014

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-0267-1, Monitoring Report for January, February and March 2014

The attached two tables contain the monitoring data for the 122nd and Stony Island Avenue Solids Management Area for January, February, and March 2014 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2010-AO-0267-1.

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 January, February, and March 2014

Table 2, Analysis of Water from Lysimeters L-2 Through L-4 at the 122nd and Stony Island Avenue Solids Management Area Sampled on March 26, 2014

Based on the requirements of the revised IEPA permit issued on January 27, 2014, and effective immediately, the list of parameters for lysimeter samples has been modified to include only pH, Cl⁻, SO₄²⁻, and NO₂ + NO₃ - N.

Very truly yours,

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

TCG:PL:cm
Attachments

cc w/att: Mr. J. Patel, IEPA
Records Unit, IEPA

TABLE 1: ANALYSIS OF WATER FROM LYSIMETER L-1
 AT THE 122ND AND STONY ISLAND AVENUE SOLIDS MANAGEMENT
 AREA SAMPLED DURING JANUARY, FEBRUARY, AND MARCH 2014

| Parameter | Unit | Date Sampled | | |
|--------------------------------------|------|-----------------|----------|----------|
| | | 01/15/14 | 02/19/14 | 03/13/14 |
| pH ¹ | | 7.8 | 7.7 | 7.7 |
| Cl ⁻ | mg/L | 197 | 191 | 188 |
| SO ₄ ⁼ | " | NA ² | 252 | 174 |
| NO ₂ + NO ₃ -N | " | 0.18 | < 0.15 | < 0.15 |

¹pH analyzed beyond recommended holding time of 15 minutes.

²No analysis; insufficient sample.

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-2 THROUGH L-4 AT THE 122ND AND STONY ISLAND AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON MARCH 26, 2014

| Parameter | Unit | Lysimeter No. | | |
|--------------------------------------|------|-----------------|-----------------|-----------------|
| | | L-2 | L-3 | L-4 |
| pH ¹ | | 6.9 | 7.5 | 7.7 |
| Cl ⁻ | mg/L | 446 | 88 | 243 |
| SO ₄ ⁼ | " | NA ² | NA ² | NA ² |
| NO ₂ + NO ₃ -N | " | < 0.15 | 0.33 | < 0.15 |

¹pH analyzed beyond recommended holding time of 15 minutes.

²No analysis; insufficient sample.