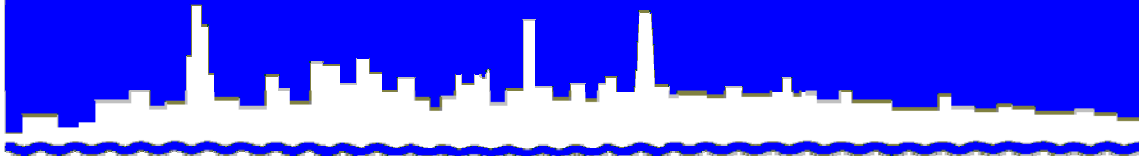


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***RESEARCH AND DEVELOPMENT
DEPARTMENT***

REPORT NO. 07-21

MONTHLY REPORT OF THE FULTON COUNTY

ENVIRONMENTAL PROTECTION SYSTEM

JANUARY 2007

APRIL 2007

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Louis Kollias, P.E., BCEE

Director of Research and Development

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April 30, 2007

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: Metropolitan Water Reclamation District of Greater Chicago –
January 2007 Monthly Report of the Fulton County Environmental Protection System

This letter transmits information and data for the January 2007 monthly report of the Fulton County Environmental Protection System. No biosolids data are reported because supernatant and biosolids application was terminated in 1995 and 2004, respectively. Termination of monitoring of soil, crops, and surface water and groundwater sites was approved by the IEPA in September 2006.

During this month, only discharge from the runoff retention basin (3-1) was monitored. A total of 2.53 million gallons was released from the basin. Analytical data of water sample is presented in Table 1. A log of discharge information is presented in Table 2.

Lysimeters and drainage tiles at the reclaimed St. David coal refuse pile site, and lysimeters at Morgan Mine (Big Ten) and the United Electric coal refuse pile sites were not sampled during the month.

Subject: Metropolitan Water Reclamation District of Greater Chicago – January 2007 Monthly Report of the Fulton County Environmental Protection System

The daily climatological observations for January 2007 are summarized in Table 3. Total precipitation for the month was 2.25 inches.

Very truly yours,

Louis Kollias
Director
Research and Development

LK:GT:spy
Attachment
cc w/enc.:

Mr. Valdis Aistars, USEPA Region V
Mr. Ash Sajjad, USEPA Region V
Mr. Matthew Williams, USEPA Region V
IEPA Permit Section, Springfield
IEPA Surveillance Section, Peoria
Chairman of the Fulton County Board
Fulton County Board of Health
Fulton County Zoning Office
Mr. Sobanski
Drs.: Granato
O'Connor
Cox

Library
cc wo/enc.: Messrs.: Jamjun
Quintanilla
Ryzak

TABLE 1: FULTON COUNTY LAND RECLAMATION PROJECT FIELD RUNOFF BASIN
DISCHARGE DATA JANUARY 2007

| Basin No. | Sample Date | pH | TSS (mg/L) | BOD ₅ (mg/L) | F. coli. per 100 ml | Discharge Date | Discharge Amount (MG) |
|--------------|----------------|-----|---------------|----------------------------|------------------------|-------------------|--------------------------|
| 3-1 | 1/8 | 8.0 | 11.0 | < 2 | 10 | 1/10 | 2.53 |

TABLE 2: FIELD RUNOFF BASIN DISCHARGE LOG AT FULTON COUNTY LAND RECLAMATION SITE
 JANUARY 2007

| Basin No. | Date Opened | Time Opened | Date Closed | Time Closed | Opening Stage (feet) | Closing Stage (feet) | Time Open (hours) | Volume Released (MG) | Release Type | Reason Closed | R&D Dept. OK | R&D Dept. Sample |
|-----------|-------------|-------------|-------------|-------------|----------------------|----------------------|-------------------|----------------------|--------------|---------------|--------------|------------------|
| 3-1 | 1/10/2007 | 09:50 | 1/12/2007 | 14:30 | 3.80 | 0.75 | 52.67 | 2.53 | Normal | Low flow | YES | YES |

TABLE 3: RECORD OF CLIMATOLOGICAL OBSERVATIONS FOR JANUARY 2007,
 FULTON COUNTY, ILLINOIS, STATION SEQ, SEC.10, R3E, T6N

| Date | Temperature °C | | | Precipitation | | Wind | | |
|---------|-------------------|-------|-------|-----------------------|-------------------|---|------|-----|
| | Max | Min | Avg | rain, melted snow | snow, sleet, hail | m/S | m/S | Dir |
| | | | | (inches & hundredths) | (inches & tenths) | Avg | Max | |
| 1 | 6.9 | -2.3 | 1.3 | 0.00 | | 4.7 | 17.0 | W |
| 2 | 7.9 | -6.1 | 0.2 | 0.00 | | 1.1 | 6.3 | W |
| 3 | 10.0 | -2.3 | 3.1 | 0.00 | | 3.1 | 10.7 | SE |
| 4 | 8.7 | 2.3 | 5.4 | 0.87 | | 4.3 | 12.1 | SE |
| 5 | 9.9 | 4.7 | 8.3 | 0.00 | | 1.7 | 8.0 | S |
| 6 | 10.0 | -1.3 | 3.5 | 0.00 | | 2.7 | 9.8 | W |
| 7 | 8.6 | -1.7 | 2.3 | 0.01 | | 3.1 | 14.8 | SE |
| 8 | 7.6 | -3.6 | 1.7 | 0.00 | | 4.7 | 15.2 | SW |
| 9 | 4.1 | -3.9 | 0.9 | 0.00 | | 5.3 | 15.6 | W |
| 10 | 4.7 | -7.8 | -1.3 | 0.00 | | 4.2 | 14.3 | SE |
| 11 | 10.4 | 1.5 | 5.6 | 0.00 | 0.5 | 5.8 | 12.5 | SE |
| 12 | 10.8 | -4.1 | 1.5 | 0.10 | | 3.4 | 8.5 | W |
| 13 | -0.1 | -3.9 | -1.6 | 0.03 | | 1.6 | 4.9 | N |
| 14 | 0.3 | -0.8 | -0.2 | 0.73 | | 0.2 | 3.6 | N |
| 15 | 0.1 | -10.5 | -3.6 | 0.04 | | N/A | N/A | N/A |
| 16 | -5.9 | -14.3 | -10.9 | 0.00 | | N/A | N/A | N/A |
| 17 | -4.2 | -14.6 | -8.6 | 0.00 | | N/A | N/A | N/A |
| 18 | 0.2 | -4.3 | -2.3 | 0.00 | | 3.6 | 16.1 | S |
| 19 | 3.2 | -8.8 | -3.3 | 0.08 | | 3.1 | 14.3 | SW |
| 20 | -0.8 | -10.7 | -5.2 | 0.00 | 5.0 | 0.7 | 4.9 | NW |
| 21 | 1.7 | -3.6 | -1.3 | 0.07 | | 2.4 | 8.5 | E |
| 22 | -0.4 | -3.7 | -2.2 | 0.00 | | 3.2 | 8.5 | W |
| 23 | 0.9 | -6.6 | -3.0 | 0.03 | | 4.2 | 12.5 | SW |
| 24 | -0.4 | -7.0 | -3.5 | 0.00 | | 1.8 | 9.8 | W |
| 25 | 1.6 | -12.7 | -6.9 | 0.06 | | 1.8 | 9.4 | W |
| 26 | 9.7 | -10.2 | 0.5 | 0.23 | | 5.1 | 17.0 | S |
| 27 | 3.3 | -12.2 | -2.8 | 0.00 | | 6.2 | 16.1 | W |
| 28 | -7.2 | -16.8 | -12.4 | 0.00 | | 5.3 | 14.8 | W |
| 29 | 2.9 | -12.6 | -4.9 | 0.00 | | 4.6 | 16.1 | SW |
| 30 | -8.2 | -14.9 | -12.1 | 0.00 | | 6.0 | 15.2 | W |
| 31 | -5.2 | -17.0 | -10.4 | 0.00 | | 3.1 | 9.8 | SW |
| Sum | | | | 2.25 | 5.5 | Observer: Josh DeWees Station: R&D Lab | | |
| Avg | 2.9 | -6.8 | -2.0 | | | | | |
| Extreme | 10.8 | -17.0 | | 0.87 | 5.0 | | | |

*N/A=Not available.