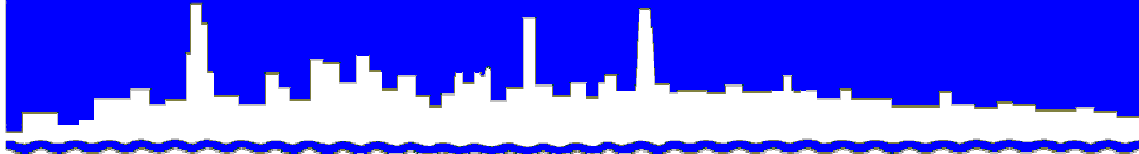


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***RESEARCH AND DEVELOPMENT
DEPARTMENT***

REPORT NO. 06-41

MONTHLY REPORT OF THE FULTON COUNTY

ENVIRONMENTAL PROTECTION SYSTEM

MAY 2006

JULY 2006

Protecting Our Water Environment

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100 EAST ERIE STREET CHICAGO, ILLINOIS 60611-3154 312-751-5600

Louis Kollias, P.E., BCEE
Director of Research and Development

July 31, 2006

312-751-5190

Mr. S. Alan Keller, P.E.
Manager, Permit Section
Illinois Environmental
Protection Agency
P.O. Box 19276
Springfield, IL 62794-9276

Dear Mr. Keller:

Attached for your information and use is the May 2006 monthly report of the Fulton County Environmental Protection System.

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
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**ENVIRONMENTAL PROTECTION SYSTEM
REPORT FOR FULTON COUNTY, ILLINOIS**

May 2006

**Research and Development Department
G. Tian
A. Cox**

April 2006

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FOREWORD

The data and information in this report fulfill the frequency of monitoring and the reporting requirements for the Land Application of Biosolids at the Fulton County Land Reclamation Project as specified in the Illinois Environmental Protection Agency Permit No. 2005-SC-5073 for May 2006.

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ACKNOWLEDGMENT

Thanks are due to the staff of the Analytical Laboratories Division for assistance in conducting analyses and Ms. Sabina Yarn for typing this report.

DISCLAIMER

Mention of proprietary equipment and chemicals in this report does not constitute endorsement by the Metropolitan Water Reclamation District of Greater Chicago.

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FULTON COUNTY
DEWATERED BIOSOLIDS REPORT
May 2006

DEWATERED BIOSOLIDS REPORT

No dewatered biosolids were applied to fields during the month of May 2006. In addition, no supernatant was available for application to fields during this month. The last supernatant application was made in 1995, and the last biosolids application was made in 2004.

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FULTON COUNTY
WATER ANALYSIS REPORT
May 2006

WATER ANALYSIS REPORT

Water monitoring in May 2006 was conducted for the runoff basin only. A site plan of farm field and runoff basin locations is attached in Figure 1.

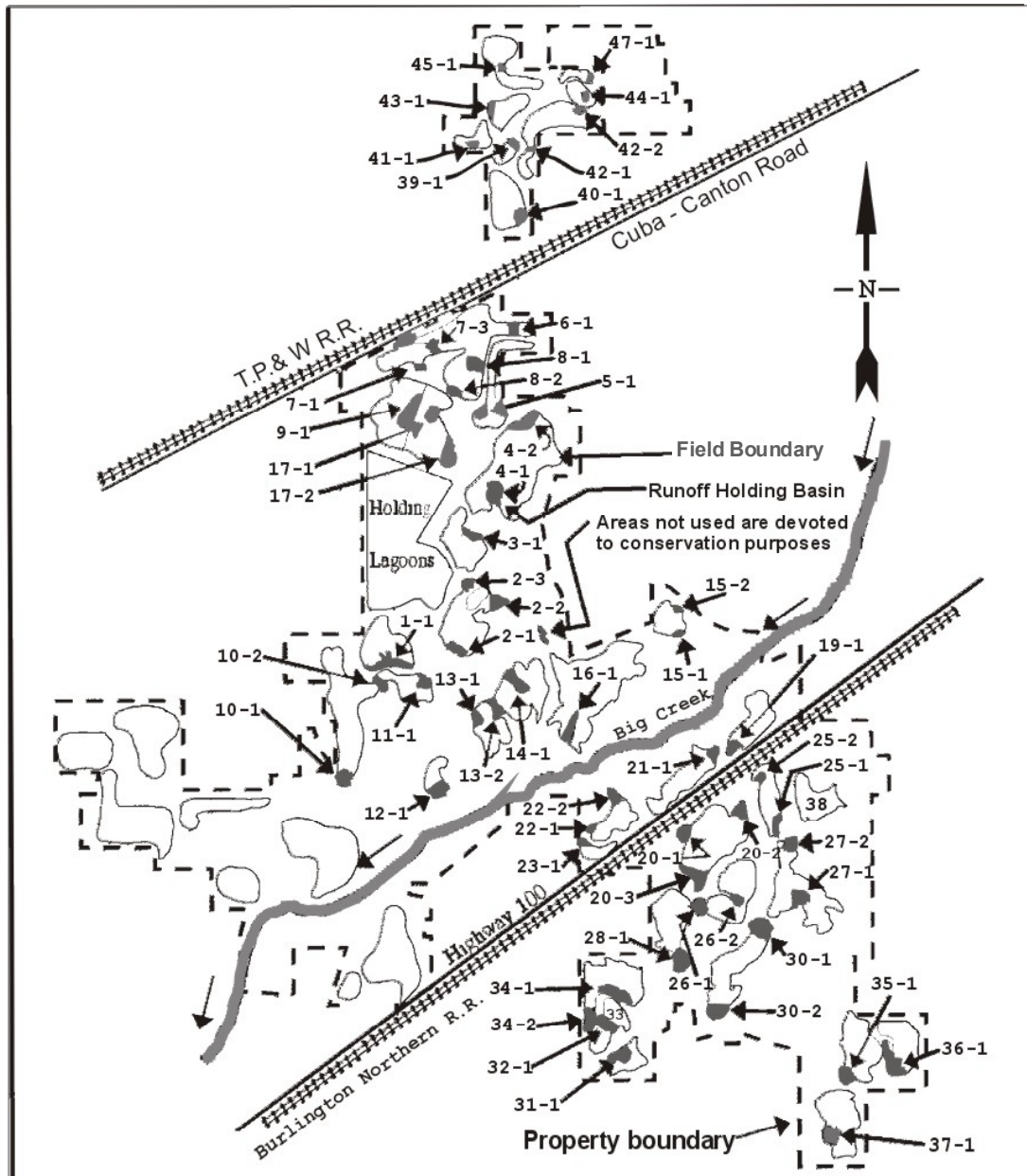
During the month, discharges from runoff basins totaled 13.39 million gallons. Analytical data of water samples are presented in Table 1. A log of runoff basin discharge information is presented in Table 2.

The surface water sites (streams, reservoirs, and SP sites) and wells were not sampled during the month. A site plan of water monitoring locations is attached in Figure 2.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 1

FARM FIELDS AND RUNOFF BASINS AT THE LAND RECLAMATION PROJECT AT FULTON COUNTY, ILLINOIS



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 1

FULTON COUNTY LAND RECLAMATION PROJECT FIELD RUNOFF BASIN DIS-
CHARGE DATA MAY 2006

Basin No.	Sample Date	pH	TSS (mg/L)	BOD ₅ (mg/L)	F. coli. per 100 mL	Discharge Date	Discharge Amount (MG)
3-1	5/4	9.0	4.4	2	10	5/5	3.10
13-2	5/4	8.0	2.8	2	10	5/5	1.12
15-1	5/4	8.0	8.4	2	10	5/5	0.70
39-1	5/4	8.1	6.0	3	10	5/5	0.68
43-1	5/4	9.0	33.0	16	10	5/5	4.15
3-1*	5/22	8.2	4.4	3	20	5/23	3.64

*RB 3-1 sample collected on 5/22 contained water pumped from HB-1.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2

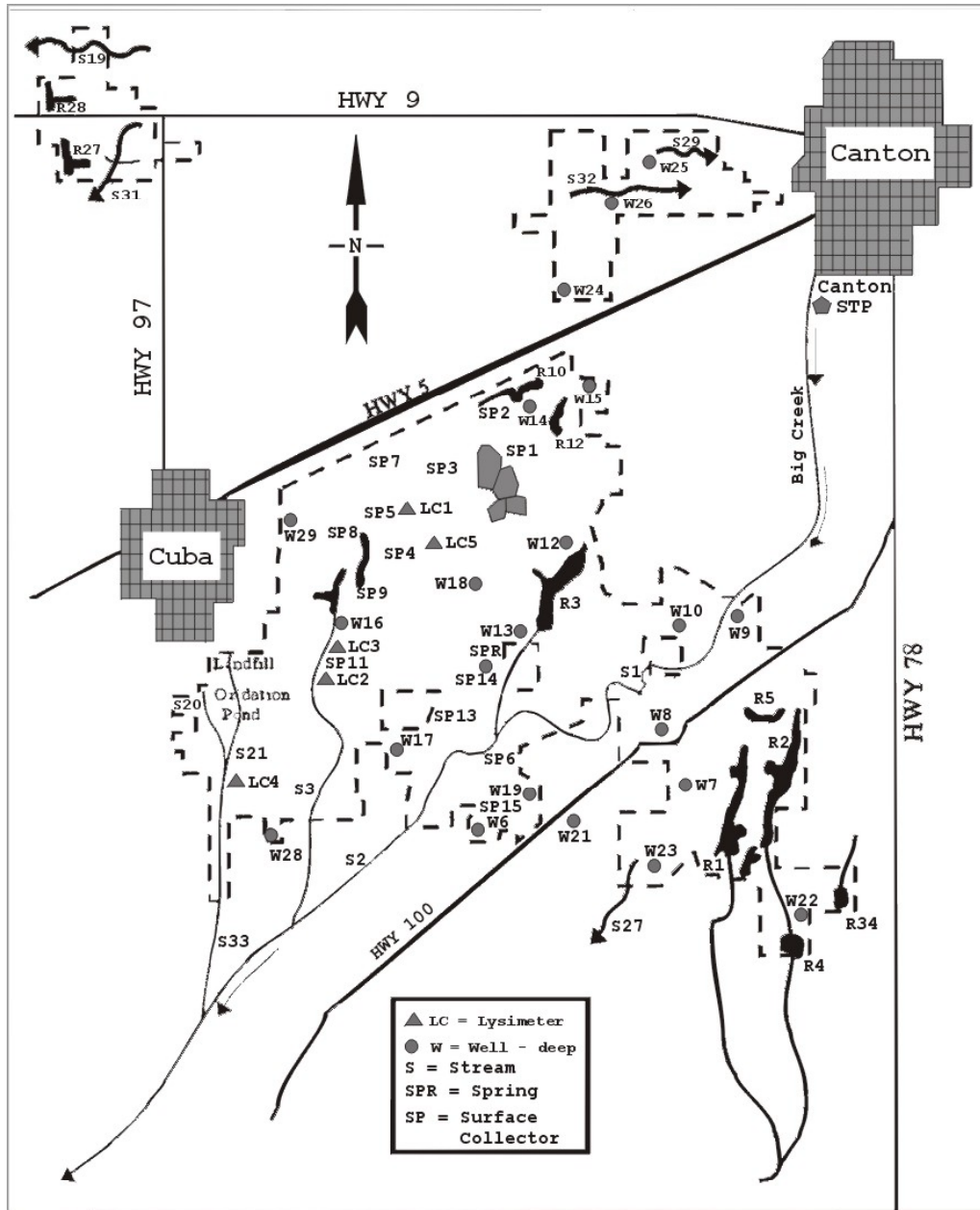
FIELD RUNOFF BASIN LOG AT THE FULTON COUNTY LAND RECLAMATION PROJECT FOR MAY 2006

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	5/5/06	15:00	5/8/06	12:00	4.00	0.00	69.00	3.10	Regular	Empty	YES	YES
13 - 2	5/5/06	14:55	5/8/06	12:01	5.00	2.50	69.10	1.12	Regular	Regular	YES	YES
15 - 1	5/5/06	14:48	5/8/06	12:15	5.00	0.00	69.45	0.70	Regular	Empty	YES	YES
39 - 1	5/5/06	14:30	5/8/06	12:00	5.00	0.00	69.50	0.68	Regular	Empty	YES	YES
43 - 1	5/5/06	14:36	5/9/06	10:00	7.00	2.00	91.40	4.15	Regular	Regular	YES	YES
3 - 1	5/23/06	14:35	5/26/06	13:30	4.50	0.00	70.92	3.64	Regular	Regular	YES	YES

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 2

WATER MONITORING LOCATIONS AT THE LAND RECLAMATION PROJECT AT FULTON COUNTY, ILLINOIS



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FULTON COUNTY
CLIMATOLOGICAL OBSERVATIONS
May 2006

CLIMATOLOGICAL OBSERVATIONS

The daily climatological observations for May 2006 are summarized in Table 3. The total precipitation recorded for the month was 2.87 inches.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 3

RECORD OF CLIMATOLOGICAL OBSERVATIONS FOR MAY 2006,
 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	21.7	10.9	15.1	0.08		2.8	8.5	SE
2	25.4	8.3	16.8	0.01		1.1	7.6	SW
3	23.7	12.0	16.5	0.11		1.0	7.6	SE
4	21.2	10.3	15.3	0.00		1.9	8.5	W
5	18.5	4.7	11.2	0.00		2.6	11.6	W
6	21.0	2.4	11.2	0.00		1.2	7.2	NW
7	23.9	5.6	15.2	0.00		1.0	6.7	NE
8	23.5	9.9	16.6	0.00		2.5	10.7	S
9	24.1	12.4	17.2	0.00		2.5	8.9	SE
10	23.6	12.3	16.9	0.00		1.6	9.4	W
11	17.3	9.8	12.7	0.00		6.2	17.9	W
12	10.3	6.4	8.1	0.07		5.5	17.9	W
13	9.6	4.8	6.8	0.20		2.5	8.9	SW
14	13.9	6.1	9.1	0.00		1.9	7.6	W
15	21.2	7.2	11.9	0.87		2.3	10.7	NW
16	20.9	10.2	13.6	0.36		1.9	9.8	W
17	25.2	9.7	16.6	0.00		3.5	13.9	W
18	21.6	7.7	14.6	0.00		3.0	14.8	NW
19	25.7	9.4	17.2	0.00		1.6	7.6	NW
20	24.1	7.7	16.2	0.00		1.2	6.3	NE
21	24.3	11.7	16.8	0.00		2.1	10.3	NE
22	25.7	9.6	16.0	0.00		1.5	6.3	NE
23	27.1	9.3	18.7	0.00		2.2	7.6	SE
24	32.1	16.3	22.3	0.19		3.0	24.1	SE
25	27.8	16.9	21.9	0.00		3.9	13.9	SW
26	32.6	17.6	23.9	0.00		1.9	8.0	SW
27	34.2	18.4	26.1	0.00		2.0	10.7	SE
28	34.1	21.2	27.6	0.00		2.8	9.8	SE
29	34.5	21.2	27.1	0.00		2.0	8.9	SE
30	33.1	19.4	23.8	0.04		0.8	8.9	SW
31	32.4	18.5	23.1	0.94		1.2	9.4	NW
Sum				2.87	0.0	Observer: Josh DeWees Station: R&D Lab		
Avg	24.3	11.2	17.0					
Extreme	34.5	2.4		0.94	0.0			

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FULTON COUNTY
RECLAMATION OF COAL REFUSE PILES WITH BIOSOLIDS
May 2006

RECLAMATION OF COAL REFUSE PILES WITH BIOSOLIDS

Lysimeters and drainage tiles at the St. David coal refuse pile reclamation site were not sampled during the month. Locations for all lysimeters and drainage tile sampling sites are shown in Figure 3.

Lysimeters at the Big Ten (Morgan Mine) and the United Electric coal refuse pile sites were also not sampled during the month.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 3

ST. DAVID COAL REFUSE PILE RECLAMATION SITE

