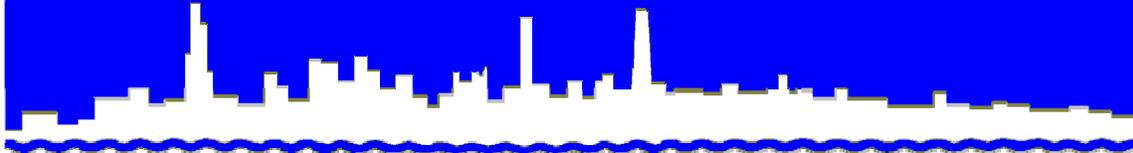


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***RESEARCH AND DEVELOPMENT
DEPARTMENT***

REPORT NO. 07-3

MONTHLY REPORT OF THE FULTON COUNTY

ENVIRONMENTAL PROTECTION SYSTEM

NOVEMBER 2006

JANUARY 2007

Metropolitan Water Reclamation District of Greater Chicago

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

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

January 30, 2007

312-751-5190

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:

Attached for your information and use is the November 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
Fulton County Board of Health
Fulton County Zoning Office
Mr. Sobanski
Drs.: Granato
O'Connor
Cox

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

Metropolitan Water Reclamation District of Greater Chicago
100 East Erie Street Chicago, IL 60611-2803 (312) 751-5600

**ENVIRONMENTAL PROTECTION SYSTEM
REPORT FOR FULTON COUNTY, ILLINOIS
NOVEMBER 2006**

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

January 2007

TABLE OF CONTENTS

	<u>Page</u>
FOREWORD	ii
LIST OF TABLES	iii
LIST OF FIGURES	iv
ACKNOWLEDGMENT	v
DISCLAIMER	v
DEWATERED BIOSOLIDS REPORT	1
WATER ANALYSIS REPORT	2
CLIMATOLOGICAL OBSERVATIONS	6
RECLAMATION OF COAL REFUSE PILES WITH BIOSOLIDS	8

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 November 2006.

LIST OF TABLES

<u>Table No.</u>		<u>Page</u>
1	Fulton County Land Reclamation Project Well Data November 2006	5
2	Record of Climatological Observations for November 2006, Fulton County, Illinois, Station SEQ, Sec. 10, R3E, T6N	7

LIST OF FIGURES

<u>Figure No.</u>		<u>Page</u>
1	Farm Fields and Runoff Basins at the Land Reclamation Project at Fulton County, Illinois	3
2	Water Monitoring Locations at the Land Reclamation Project at Fulton County, Illinois	4
3	St. David Coal Refuse Pile Reclamation Site	9

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.

Metropolitan Water Reclamation District of Greater Chicago
100 East Erie Street Chicago, IL 60611-2803 (312) 751-5600

FULTON COUNTY
DEWATERED BIOSOLIDS REPORT
November 2006

DEWATERED BIOSOLIDS REPORT

No dewatered biosolids were applied to fields during the month of November 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.

Metropolitan Water Reclamation District of Greater Chicago
100 East Erie Street Chicago, IL 60611-2803 (312) 751-5600

FULTON COUNTY
WATER ANALYSIS REPORT
November 2006

WATER ANALYSIS REPORT

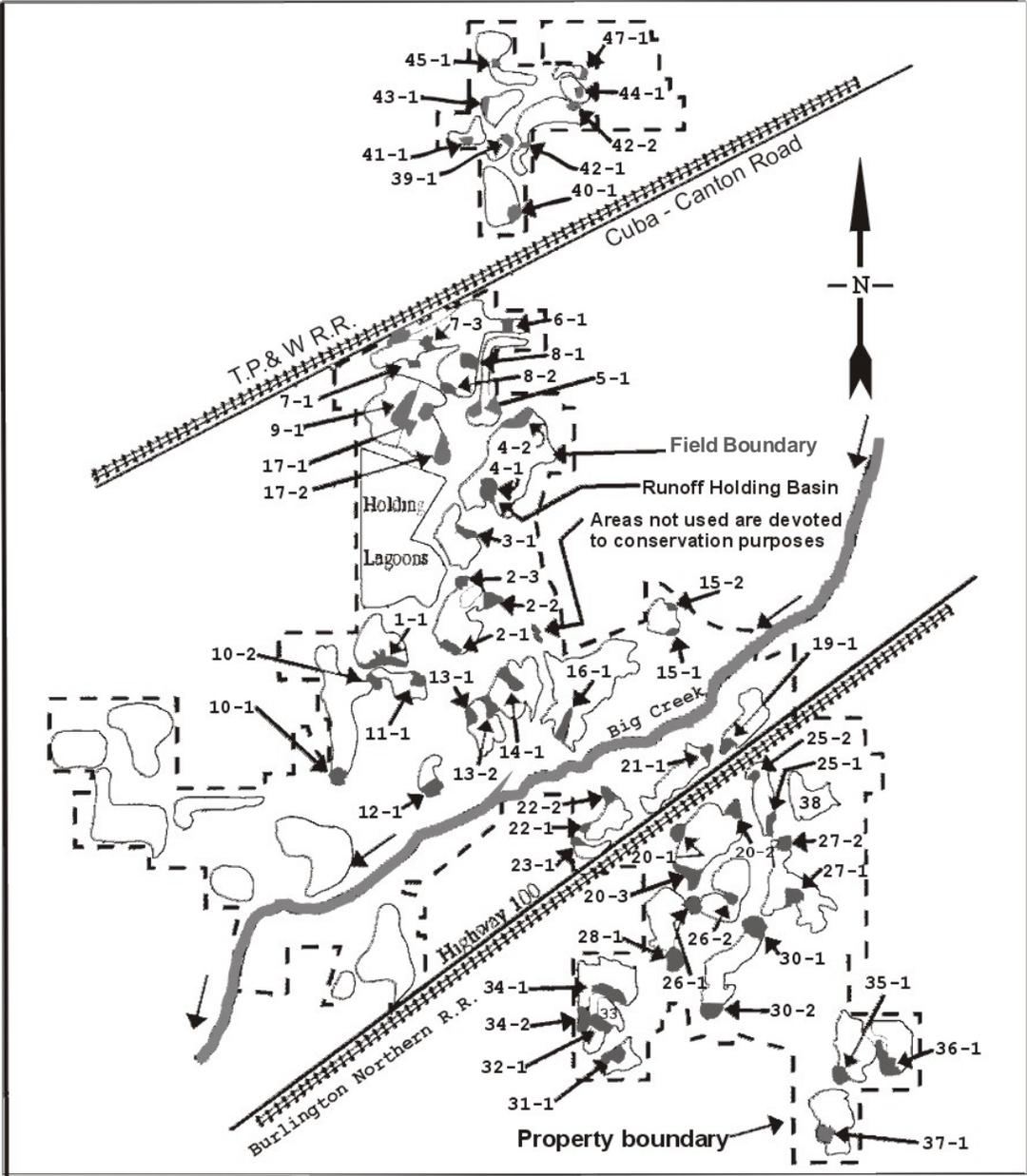
There was no water release and sampling in retention basins during this month. A site plan of farm field and retention basin locations is attached in Figure 1.

The surface water sites (streams, reservoirs, and SP sites) were also not sampled during the month. The wells were sampled during the month. A site plan of water monitoring locations is attached in Figure 2. Analytical data of water samples from the wells are presented in Table 1.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 1

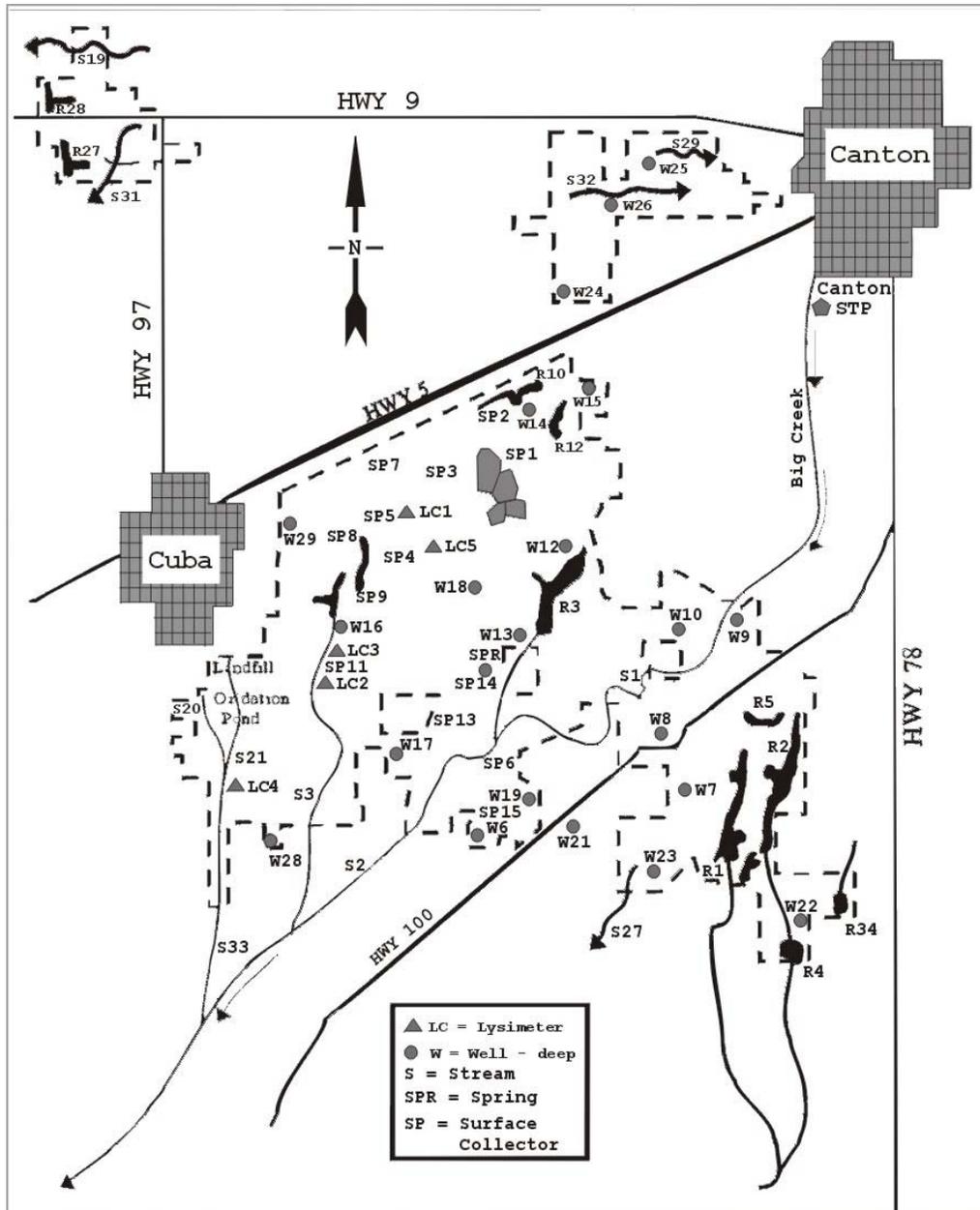
FARM FIELDS AND RUNOFF BASINS AT THE LAND RECLAMATION PROJECT AT FULTON COUNTY, ILLINOIS



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

FIGURE 2

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



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 1

FULTON COUNTY LAND RECLAMATION PROJECT WELL DATA NOVEMBER 2006

Well Number	Sample Date	NH ₃ -N	NO ₂ -N	NO ₃ -N	Cd	Cu	Hg
W 6	11/14	0.52	0.000	0.000	0.0000	0.000	0.10
W 7	11/14	1.38	0.000	0.041	0.0000	0.000	0.11
W 8	11/14	0.78	0.000	0.170	0.0000	0.000	0.10
W 9	11/14	1.12	0.000	0.034	0.0000	0.000	0.09
W10	11/14	0.54	0.000	0.150	0.0000	0.000	0.08
W12	11/14	0.38	0.000	0.021	0.0000	0.000	0.09
W14	11/14	0.75	0.000	0.048	0.0000	0.000	0.10
W15	11/14	0.87	0.000	0.075	0.0000	0.004	0.09
W16	11/14	0.02	0.000	0.008	0.0000	0.008	0.11
W17	11/14	0.00	0.000	4.23	0.0000	0.004	0.09
W18	11/14	0.99	0.000	0.014	0.0000	0.004	0.09
W19	11/14	0.91	0.000	0.050	0.0000	0.000	0.10
W21	11/14	1.50	0.000	0.000	0.0000	0.011	0.11
W22	11/14	6.95	0.000	0.010	0.0000	0.000	0.10
W23	11/14	0.04	0.000	0.014	0.0000	0.004	0.16
W25	11/14	1.65	0.000	0.019	0.0000	0.000	0.07
W26	11/14	0.20	0.000	0.007	0.0000	0.000	0.08
W28	11/14	2.38	0.000	0.000	0.0000	0.000	0.10
W29	11/14	0.00	0.000	0.000	0.0000	0.000	0.00
MDL*		0.02	0.150	0.004	0.0004	0.003	0.05

*MDL = Method detection limit of laboratory; values less than these are reported as zeros.

Metropolitan Water Reclamation District of Greater Chicago
100 East Erie Street Chicago, IL 60611-2803 (312) 751-5600

FULTON COUNTY
CLIMATOLOGICAL OBSERVATIONS
November 2006

CLIMATOLOGICAL OBSERVATIONS

The daily climatological observations for November 2006 are summarized in Table 2.

The total precipitation recorded for the month was 3.19 inches.

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

TABLE 2

RECORD OF CLIMATOLOGICAL OBSERVATIONS FOR NOVEMBER 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	7.8	-3.4	1.2	0.00		1.9	9.4	NW
2	7.1	-5.5	-0.6	0.01		3.1	14.3	W
3	12.1	-7.1	1.9	0.00		1.3	5.8	W
4	10.2	3.1	5.9	0.00		3.1	9.4	SE
5	14.8	3.3	8.7	0.00		1.6	7.2	SE
6	14.9	6.3	9.6	0.00		2.0	6.3	E
7	18.2	3.9	9.8	0.00		0.4	4.0	E
8	21.7	4.7	11.9	0.00		2.4	9.8	SE
9	25.6	6.7	15.2	0.00		1.5	5.8	N
10	11.9	2.3	8.0	0.71		4.6	13.9	NE
11	5.6	-3.3	1.3	0.00		2.8	11.2	NW
12	9.7	-3.9	2.1	0.00		2.6	10.7	E
13	8.7	0.2	4.3	0.08		2.1	7.2	W
14	7.0	1.8	4.9	0.00		2.5	8.9	NE
15	8.9	5.0	6.6	0.08		4.2	13.4	N
16	7.7	1.4	3.7	0.00		4.8	13.9	NW
17	9.9	-1.7	2.7	0.00		1.6	7.2	NE
18	7.4	-2.2	1.9	0.00		2.2	8.5	NW
19	7.9	-2.6	2.7	0.00		2.4	7.6	NW
20	10.1	-5.3	1.0	0.00		1.7	8.0	W
21	12.6	-2.4	4.3	0.00		3.0	11.6	SE
22	15.4	0.1	6.4	0.00		2.6	7.6	E
23	17.4	1.2	8.1	0.00		2.2	6.3	E
24	19.6	3.2	10.0	0.00		2.5	6.7	SE
25	19.7	5.6	11.2	0.00		1.4	8.9	SE
26	19.5	7.8	12.7	0.00		2.1	6.7	SE
27	20.2	11.0	14.8	0.00		3.0	8.0	SE
28	19.9	13.0	15.3	0.01		4.6	13.0	SE
29	15.9	1.8	10.2	2.05		3.7	14.3	NW
30	2.0	-5.6	-3.4	0.25		4.2	11.6	NW
Sum				3.19	0.0	Observer: Josh DeWees Station: R&D Lab		
Avg	13.0	1.3	6.4					
Extreme	25.6	-7.1		2.05	0.0			

Metropolitan Water Reclamation District of Greater Chicago
100 East Erie Street Chicago, IL 60611-2803 (312) 751-5600

FULTON COUNTY
RECLAMATION OF COAL REFUSE PILES WITH BIOSOLIDS
November 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

