

MSD

Metropolitan Sewer District

700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

October 25, 2010

Carolena Bentley
Division of Water
Surface Water Permits Branch
200 Fair Oaks Lane 4th Floor
Frankfort, KY 40601

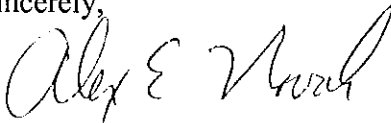
Re: **Morris Forman Water Quality Treatment Center**
KPDES Permit No. KY0022411

Dear Ms. Bentley:

In accordance with the provisions of the KPDES Permit referenced above, the monthly operating report and the monthly Discharge Monitoring Report (DMR) for the reporting period September 1st to September 30th are enclosed. All permit requirements were met for the month of September, 2010.

Should you have any questions, please contact me at (502) 540-6793.

Sincerely,



Alex E. Novak, P.E.
Director of Operations

paw

MFDMR0910.doc

Enclosures

cc: C. Roth, DOW-Louisville A. Vicory, ORSANCO



Beneficial Use of Louisville's Biosolids
www.louisvillegreen.com

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved.
OMB No. 2040-0004

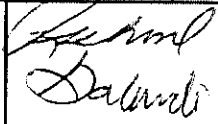
PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME MSD MORRIS FORMAN WQTC
ADDRESS C/O LOUISVILLE/JEFF CO MSD
4522 ALGONQUIN PKWY
LOUISVILLE, KY 40211-2497
FACILITY MSD MORRIS FORM WQTC
LOCATION LOUISVILLE, KY 40211

KY0022411	001 1
PERMIT NUMBER	DISCHARGE NUMBER

MAJOR (SUBR LV)
F - FINAL JEFFE
MUNICIPAL DISCHARGE EFFLUENT
*** NO DISCHARGE ***

MONITORING PERIOD					
YEAR	MONTH	DAY	YEAR	MONTH	DAY
10	09	01	10	09	30

ATTN: ALEX E NOVAK, OPER DIR

Parameter		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	*****	*****	****	5.0	*****	*****	(19)	0	30/30	GRAB
00300 1 0 0	PERMIT REQUIREMENT	*****	*****	****	2.0	*****	*****	MG/L		DAILY	GRAB
EFFLUENT GROSS VALUE					INST MIN						
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	11,167	12,363	(26)	*****	20	22	(19)	0	30/30	COMPOS
00310 E 0 0	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	*****	30 MO AVG	45 MX WK AV	MG/L		DAILY	COMPOS
SEC/BIOLOGICAL PROCESSES COMPLIANT											
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	275,805	307,730	(26)	*****	486	545	(19)	0	30/30	COMPOS
00310 G 0 0	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	MG/L		DAILY	COMPOS
RAW SEWAGE INFLUENT											
PH	SAMPLE MEASUREMENT	*****	*****	****	6.5	*****	6.8	(12)	0	30/30	GRAB
00400 1 0 0	PERMIT REQUIREMENT	*****	*****	****	6.0	*****	9.0	SU		DAILY	GRAB
EFFLUENT GROSS VALUE					MINIMUM		MAXIMUM				
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	9,830	12,325	(26)	*****	17	22	(19)	0	30/30	COMPOS
00530 E 0 0	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	*****	30 MO AVG	45 MX WK AV	MG/L		DAILY	COMPOS
SEC/BIOLOGICAL PROCESSES COMPLIANT											
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	287,501	324,399	(26)	*****	507	574	(19)	0	30/30	COMPOS
00530 G 0 0	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	MG/L		DAILY	COMPOS
RAW SEWAGE INFLUENT											
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	9,639	10,862	(26)	*****	17.2	19.1	(19)	0	30/30	COMPOS
00610 E 0 0	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	*****	20 MO AVG	30 MX WK AV	MG/L		DAILY	COMPOS
SEC/BIOLOGICAL PROCESSES COMPLIANT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.							Telephone	DATE		
H. J. SCHARDEIN, JR. EXECUTIVE DIRECTOR									502	540-6000	10-10-22
							SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA	NUMBER	YEAR - MO - DAY	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

G - INFLUENT
E - SECONDARY EFFLUENT
1 - FINAL EFFLUENT

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved.
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)
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LOUISVILLE, KY 40211-2497
FACILITY MSD MORRIS FORM WQTC
LOCATION LOUISVILLE, KY 40211

KY0022411	001 1
PERMIT NUMBER	DISCHARGE NUMBER

MAJOR (SUBR LV)
F - FINAL JEFFE
MUNICIPAL DISCHARGE EFFLUENT
*** NO DISCHARGE ***

MONITORING PERIOD						
YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY
10	09	01		10	09	30

ATTN: ALEX E NOVAK, OPER DIR

Parameter		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
NITROGEN, AMMONIA TOTAL (AS N) 00610 G 0 0	SAMPLE MEASUREMENT	10289	10606	(26)	*****	18.2	19.1	(19)	0	30/30	COMPOS
RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	MG/L		DAILY	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 E 0 0	SAMPLE MEASUREMENT	67.7	126.8	(03)	*****	*****	*****	*****	0	30/30	CONTIN
SEC/BIOLOGICAL PROCESSES COMPLIANCE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	*****	*****	*****	*****		CONTINUOUS	CONTIN
CHLORINE, TOTAL RESIDUAL 50060 1 0 0	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	0.010	(19)	0	30/30	GRAB
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	0.019 MO AVG	0.019 DAILY MX	MG/L		DAILY	GRAB
COLIFORM, FECAL GENERAL 74055 1 1 0	SAMPLE MEASUREMENT	*****	*****	****	*****	21	37	(13)	0	30/30	GRAB
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	200 30DA GEO	400 7 DA GEO	#/ 100ML		DAILY	GRAB
BOD, 5-DAY PERCENT REMOVAL 81010 K 0 0	SAMPLE MEASUREMENT	*****	*****	****	96	*****	*****	(23)	0	ONCE/MONTH	CALCTD
PERCENT REMOVAL	PERMIT REQUIREMENT	*****	*****	****	85 MO MIN	*****	*****	PERCENT		ONCE/MONTH	CALCTD
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0	SAMPLE MEASUREMENT	*****	*****	****	97	*****	*****	(23)	0	ONCE/MONTH	CALCTD
PERCENT REMOVAL	PERMIT REQUIREMENT	*****	*****	****	85 MO MIN	*****	*****	PERCENT		ONCE/MONTH	CALCTD
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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H. J. SCHARDEIN, JR. EXECUTIVE DIRECTOR								502 540-6000		10-10-22	
							SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA	NUMBER	YEAR - MO - DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

G - INFLUENT
E - SECONDARY EFFLUENT
F - SECONDARY BYPASS AFTER PRIMARY TREATMENT.

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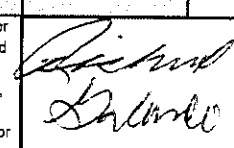
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LOUISVILLE, KY 40211-2497
FACILITY MSD MORRIS FORM WQTC
LOCATION LOUISVILLE, KY 40211

KY0022411	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MAJOR (SUBR LV)
F - FINAL JEFFE
SECONDARY BYPASS
EFFLUENT
*** NO DISCHARGE ***

MONITORING PERIOD					
YEAR	MONTH	DAY	YEAR	MONTH	DAY
10	09	01	10	09	30

ATTN: ALEX E NOVAK, OPER DIR

Parameter		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 F 0 0 PRI/PRLM PRCS CMPLT	SAMPLE MEASUREMENT	*****	*****	****	*****			(19)	0	0/30	COMPOS
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT MX WK AV	MG/L		WHEN DISCHG	COMPOS
BOD, 5-DAY (20 DEG. C) 00310 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****			(19)	0	0/30	COMPOS
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT MX WK AV	MG/L		WHEN DISCHG	COMPOS
SOLIDS, TOTAL SUSPENDED 00530 F 0 0 PRI/PRLM PRCS CMPLT	SAMPLE MEASUREMENT	*****	*****	****	*****			(19)	0	0/30	COMPOS
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT MX WK AV	MG/L		WHEN DISCHG	COMPOS
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****			(19)	0	0/30	COMPOS
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT MX WK AV	MG/L		WHEN DISCHG	COMPOS
NITROGEN, AMMONIA TOTAL (AS N) 00610 F 0 0 PRI/PRLM PRCS CMPLT	SAMPLE MEASUREMENT	*****	*****	****	*****			(19)	0	0/30	COMPOS
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT MX WK AV	MG/L		WHEN DISCHG	COMPOS
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****			(19)	0	0/30	COMPOS
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT MX WK AV	MG/L		WHEN DISCHG	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 F 0 0 PRI/PRLM PRCS CMPLT	SAMPLE MEASUREMENT			(03)	*****	*****	*****	****	0	0/30	CONTIN
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	MGD	*****	*****	*****	****		WHEN DISCHG	CONTIN
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H. J. SCHARDEIN, JR. EXECUTIVE DIRECTOR								502	540-8000	10-10-22	
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MONITORING DURING PERIODS OF SECONDARY BYPASS IN ADDITION TO REGULAR MONITORING. 1 - FINAL EFFLUENT F - SECONDARY BYPASS AFTER PRIMARY TREATMENT.								SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA	NUMBER	YEAR - MO - DAY

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)

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DISCHARGE MONITORING REPORT (DMR)

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 4522 ALGONQUIN PKWY
 LOUISVILLE, KY 40211-2497
 FACILITY MSD MORRIS FORM WQTC
 LOCATION LOUISVILLE, KY 40211

KY0022411	001 Y
PERMIT NUMBER	DISCHARGE NUMBER

MAJOR (SUBR LV)
 F - FINAL JEFFE
 BIOMONITORING/ONCE PER QUARTE
 EFFLUENT
 *** NO DISCHARGE ***

MONITORING PERIOD					
YEAR	MONTH	DAY	YEAR	MONTH	DAY
10	07	01	10	09	30

ATTN: ALEX E NOVAK, OPER DIR

Parameter		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
HARDNESS, TOTAL (AS CaCO3) 00900 1 0 2 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	429	430	(19)	0	QTRLY	GRAB-2
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS
CADMIUM, DISSOLVED (AS CD) 01025 1 0 2 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	0.003	0.003	(19)	0	QTRLY	GRAB-2
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS
COPPER, DISSOLVED (AS CU) 01040 1 0 2 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	0.010	0.010	(19)	0	QTRLY	GRAB-2
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS
LEAD, DISSOLVED (AS PB) 01049 1 0 2 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	0.005	0.005	(19)	0	QTRLY	GRAB-2
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS
ZINC, DISSOLVED (AS ZN) 01090 1 0 2 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	0.060	0.060	(19)	0	QTRLY	GRAB-2
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS
ZINC TOTAL RECOVERABLE 01094 1 0 2 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	0.060	0.060	(19)	0	QTRLY	GRAB-2
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS
CADMIUM TOTAL RECOVERABLE 01113 1 0 2 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	0.003	0.003	(19)	0	QTRLY	GRAB-2
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	COMPOS
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H. J. SCHARDEIN, JR. EXECUTIVE DIRECTOR								502 540-6000		10-10-22	
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
LEAD TOTAL RECOVERABLE 01114 1 0 2 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	0.005	0.005	(19)	0	QTRLY	GRAB-2
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT MX WKAV	MG/L		QTRLY	COMPOS
COPPER TOTAL RECOVERABLE 01119 1 0 2 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	0.010	0.010	(19)	0	QTRLY	GRAB-2
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT MX WKAV	MG/L		QTRLY	COMPOS
TOXICITY, FINAL CONC TOXICITY UNITS 61406 1 0 1 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	<1.00	(2F)	0	QTRLY	GRAB-2
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	1.00 DAILY MAX	ACUTE TOXCTY		QTRLY	GRAB-2
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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MORRIS FORMAN WASTEWATER TREATMENT PLANT

JEFFERSON COUNTY, KY

Month of Sep-10

Average Flow

SETTLING TANKS	Primary	Secondary		
		Battery A	Battery B	Battery C
Average Flow (MGD)	67.1	26.22	34.31	18.75
Tanks in Service	3.93	6.20	7.00	4.00
Surface Area (Ft.2)	75652.50	53630.00	60550.00	34600.00
Volume (MG)	8.19	5.49	6.20	3.54
Weir Length (Ft.)	2809.95	2222.70	2509.50	1434.00
Avg. Weir Overflow (GPD/Ft)	23869.98	11796.25	13672.86	13075.94
Avg. Settling Rate (GPD/Ft2)	886.60	684.60	736.64	660.74
Avg. Detention Time	2.93	5.03	4.34	4.54

AERATION TANKS	Battery A	Battery B	Battery C
Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	36.40	44.57	22.81
Avg. Detention Time (Hours)	2.77	2.26	2.21

CHLORINE CONTACT CHAMBERS

Contact Chambers in Use	2.00
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	0.84

Remarks: BY-PASS REPORTS (See Attached)



Report Selections: Treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV

KPDES # KY0022411	Facility ID MSD0278	Water Quality Treatment Center MORRIS FORMAN	Receiving Stream of Treatment Center OHIO RIVER	Region WEST
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SLS Sewer Lift Station	MSD0123-PS	6600 SEMINARY WOODS PL	WEST GOOSE CREEK	GOOSE CREEK	DITCH

<u>Activity Code / Description</u>	<u>WQ #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	1136112	09/19/10 12:05 PM	MARKS JR	KAISER	DOCUMENTED	09/28/02	ELECTRICAL PROBLEMS AT MSD	UNAUTHORIZED DISCHARGE - WATERS	09/19/10 12:31 PM	

Spot Inspections:

Discharge Amount:	1,200 GAL
Cause:	ELECTRICAL PROBLEMS WITH #3 PUMP
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE OBSERVED IN CREEK
Repair:	MSD IS HAULING STATION UNTILL REPAIRS ARE COMPLETE

Notifications:

09/19/10 01:26 PM	DISNOT	
09/19/10 01:26 PM	DISPUB	public warned with signs and msd web site
09/19/10 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Total Facilities Printed: 1
 Total Work Orders Printed: 1