



Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

November 21, 2011

Ms. Cheryl Edwards
Kentucky Division of Water
200 Fair Oaks Lane
Frankfort, Kentucky 40601

RE: Derek Guthrie WQTC, KPDES No: KY0078956
Discharge Monitoring Report
October 2011

Dear Ms. Cheryl Edwards:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Derek Guthrie WQTC, for the month of October 2011.

There were no exceedences or bypasses reports during the month of September for the Derek Guthrie WQTC. Also included is an overflow report for the month of October.

Also, please note that due to our wet weather expansion project, our 24 hr Influent flows have been estimated. This is due to the upgrade to the SCADA system and PLC programming. Operators are recording Influent flows every morning at as close to the same time as possible. This trend is likely to continue until construction is complete.

If you have any questions concerning the attached DMR's, please contact me at (502)540-6031.

Sincerely,

John Kessel
Process Supervisor, West Region

JMK/West County 1011

Enclosures

cc: C. Roth
T. Singleton
R. Shaw



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

PERMITTEE NAME/ADDRESS (Include

Facility Name/Location if different)

NAME DEREK R. GUTHRIE WQTC MSD
 ADDRESS C/O CEDAR CREEK WQTC
4522 ALGONQUIN PKWY
LOUISVILLE KY 40211
 FACILITY DEREK R. GUTHRIE WQTC

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM (KPDES)
 DISCHARGE MONITORING REPORT (DMR)

KY0078956
 PERMIT NUMBER

0012
 DISCHARGE NUMBER

MAJOR (SUBR LV)
 F - FINAL JEFFE
 MUNICIPAL WASTEWATER
 EFFLUENT
 [] No Discharge

LOCATION LOUISVILLE KY 40272
 ATTN: DENNIS THOMASSON SR. METRO OPS

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
FROM 11	10	01	TO 11	10	31

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DO)	*****	*****	***	5	*****	*****	(19) MG/L	0	01/01	GR	
00300 1 0 0	PERMIT MEASUREMENT	*****	*****	***	2 INST MIN	*****	(19) MG/L		DAILY	GRAB	
BOD, 5-DAY (20 DEG. C)	34470	39646	(26) LBS/DY	*****	149	169	(19) MG/L	0	01/01	CP	
00310 G 0 0	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L	DAILY	COMPOS	
BOD, 5-DAY (20 DEG. C)	1327	1718	(26) LBS/DY	*****	6	7	(19) MG/L	0	01/01	CP	
00310 1 0 1	PERMIT MEASUREMENT	7506 MO AVG	11259 MX WK AV	(26) LBS/DY	*****	30 MO AVG	45 MX WK AV	(19) MG/L	DAILY	COMPOS	
PH	*****	*****	***	6.1	*****	7.7	(12) SU	0	01/01	GR	
00400 1 0 0	PERMIT MEASUREMENT	*****	*****	***	6.0 MINIMUM	9.0 MAXIMUM	(12) SU		DAILY	GRAB	
SOLIDS, TOTAL SUSPENDED	60258	65274	(26) LBS/DY	*****	259	270	(19) MG/L	0	01/01	CP	
00530 G 0 0	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L	DAILY	COMPOS	
SOLIDS, TOTAL SUSPENDED	1190	1613	(26) LBS/DY	*****	5	6	(19) MG/L	0	01/01	CP	
00530 1 0 1	PERMIT MEASUREMENT	7506 MO AVG	11259 MX WK AV	(26) LBS/DY	*****	30 MO AVG	45 MX WK AV	(19) MG/L	DAILY	COMPOS	
NITROGEN, AMMONIA TOTAL (AS N)	4398	4739	(26) LBS/DY	*****	19	20	(19) MG/L	0	01/01	CP	
00610 G 0 0	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L	DAILY	COMPOS	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. 1001 AND 33 U.S.C. 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 8 months and 5 years.				TELEPHONE		DATE				
H J SCHARDEIN EXECUTIVE DIRECTOR					502	540-6000	11	11	22		
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE	NUMBER	YEAR	MO	DAY		

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 USE MO AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **DEREK R. GUTHRIE WQTC MSD**
 ADDRESS **C/O CEDAR CREEK WQTC**
4522 ALGONQUIN PKWY
LOUISVILLE KY 40211
 FACILITY **DEREK R. GUTHRIE WQTC**

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM (KPDES)
 DISCHARGE MONITORING REPORT (DMR)

KY0078956
 PERMIT NUMBER

0012
 DISCHARGE NUMBER

MAJOR (SUBR LV)
 F - FINAL JEFFE
 MUNICIPAL WASTEWATER
 EFFLUENT
 [] No Discharge

LOCATION **LOUISVILLE KY 40272**
 ATTN: **DENNIS THOMASSON SR. METRO OPS**

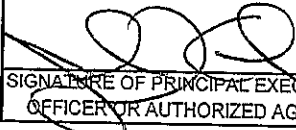
MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
11	10	01		11	10	31

NOTE: Read instructions before completing this form

PARAMETER	MEASUREMENT	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 1 0 1	SAMPLE MEASUREMENT	1074	2909	(26) LBS/DY	*****	5	13	(19) MG/L	0	01/01	CP
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	3253 MO AVG	4879 MX WK AV	(26) LBS/DY	*****	20 MO AVG	30 MX WK AV	(19) MG/L		DAILY	COMPOS
NITROGEN, KJELDAHL TOTAL (AS N) 00625 1 0 1	SAMPLE MEASUREMENT	1589	3749	(26) LBS/DY	*****	6	17	(19) MG/L	0	01/07	CP
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		WEEKLY	COMPOS
PHOSPHORUS, TOTAL (AS P) 00665 1 0 1	SAMPLE MEASUREMENT	678	762	(26) LBS/DY	*****	3.1	3.7	(19) MG/L	0	01/07	CP
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		WEEKLY	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 G 0 0	SAMPLE MEASUREMENT	16.98	26.30	(03) MGD	*****	*****	*****	***	0	CN	CN
RAW SEW/INFLUENT	PERMIT MEASUREMENT	REPORT MO AVG	REPORT Daily MAX	(03) MGD	*****	*****	*****	***		CN	CN
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0	SAMPLE MEASUREMENT	28.10	48.23	(03) MGD	*****	*****	*****	***	0	CN	CN
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	REPORT MO AVG	REPORT Daily MAX	(03) MGD	*****	*****	*****	***		CN	CN
CHLORINE, TOTAL RESIDUAL 50060 1 0 0	SAMPLE MEASUREMENT	*****	*****	***	*****	*****	<0.010	(19) MG/L	0	01/01	GR
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	*****	*****	***	*****	*****	0.019 DAILY MX	(19) MG/L		DAILY	GRAB
COLIFORM, FECAL GENERAL 74055 1 0 0	SAMPLE MEASUREMENT	*****	*****	***	*****	3	6	(13) 100ML	0	01/01	GR
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	*****	*****	***	*****	200 30DA GEO	400 7 DA GEO	(13) 100ML		DAILY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
H J SCHARDEIN
 EXECUTIVE DIRECTOR
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C 1001 AND 33 U.S.C 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)


 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE
 502 540-6000
 AREA NUMBER
 CODE
 DATE
 11 11 22
 YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 USE MO AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.

NAME DEREK R. GUTHRIE WQTC MSD
ADDRESS C/O CEDAR CREEK WQTC
4522 ALGONQUIN PKWY
LOUISVILLE KY 40211
FACILITY DEREK R. GUTHRIE WQTC

KY0078956
PERMIT NUMBER

0012
DISCHARGE NUMBER

MAJOR (SUBR LV)
F - FINAL JEFFE
MUNICIPAL WASTEWATER
EFFLUENT
[] No Discharge

LOCATION LOUISVILLE KY 40272
ATTN: DENNIS THOMASSON SR. METRO OPS

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	11	10	01		11	10	31

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PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
BOD, 5-DAY PERCENT REMOVAL 81010 K 0 0 PERCENTREMOVAL	SAMPLE MEASUREMENT	*****	*****	***	96	*****	*****	(23) CENT	0	01/30	CA	
	PERMIT MEASUREMENT	*****	*****	***	85 MO AVG	*****	*****	(23) CENT		ONCE/MONTH	CAL	
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0 PERCENTREMOVAL	SAMPLE MEASUREMENT	*****	*****	***	98	*****	*****	(23) CENT	0	01/30	CA	
	PERMIT MEASUREMENT	*****	*****	***	85 MO MIN	*****	*****	(23) CENT		ONCE/MONTH	CAL	
	SAMPLE MEASUREMENT											
	PERMIT MEASUREMENT											
	SAMPLE MEASUREMENT											
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KY0078956
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001 R
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MAJOR (SUBR LV)
 F - FINAL JEFFE
 REASONABLE POTENTIAL
 EFFLUENT
 [] No Discharge

MONITORING PERIOD
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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
CHROMIUM, HEXAVALENT (AS CR) 01032 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	*****	228	228	(19) MG/L	0	01/30	CP
	PERMIT MEASUREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	(19) MG/L		ONCE/MONTH	CP
	SAMPLE MEASUREMENT										
	PERMIT MEASUREMENT										
	SAMPLE MEASUREMENT										
	PERMIT MEASUREMENT										
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 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE
 502 540-6000
 AREA NUMBER
 CODE
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 11 11 22
 YEAR MO DAY

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

Name of Sewage Treatment Plant:

West County WTP

Jefferson

Month of:

October

2011

KPDES Permit Number:

KY0078958

Plant Capacity:

30 MGD

County

Receiving Stream:

Ohio River

Date	Total Flow (MG)	Raw Sewage		pH		Settleable Solids (mg/L)			Dissolved Oxygen (mg/L)			Suspended Solids (mg/L)			Total Solids (mg/L)			5-day BOD (mg/L)			Activated Sludge			Aeration Basin					Dig Sludge		Final					
		Grit Removed (cu. ft)	Screenings (cu. ft)	Raw	Final	Raw	Primary (or Sec.)	Final	Stream Above	Final	Stream Below	Raw	Primary (or Sec.)	Final	Raw	Primary (or Sec.)	Final	Raw	Primary (or Sec.)	Final	Return	WAS	MLSS mg/L X 1000	MLSS (mg/L) X 1000 #18#2	MLVSS (mg/L) X 1000 #18#2	30 min. Sett.	SV	% Solids	Phosphorus (mg/L)	TKR (mg/L)	Chlorine Residual (mg/L)	NH3-N (mg/L)	Fecal Coliform Col/100ml	Hexavalent Chromium	Hardness	
																																				Oxygen (mg/L) #1
1	28.39			9.0	7.1				7.0		230		10				105		6			8940		5290	3580	310.0	0.08			0.01	15.00					
2	25.14			7.1	7.3				7.0		208		7				138		7			7640		5220	3580	300.0	0.08			0.01	15.00					
3	27.04			7.4	7.4				7.0		300		6				153		6			8180		4820	3280	240.0	0.05			0.01	14.00					
4	26.44			7.4	7.4				7.0		238		4				123		4			8450		4150	2840	300.0	0.07			0.01	15.00					
5	27.17			8.1	7.7				7.0		388		3				148		5			7850		4650	3360	360.0	0.08			0.01	14.00					
6	25.19			7.4	7.2				7.1		240		4				132		4			7710		4530	3190	360.0	0.08			0.01	10.00					
7	25.72			7.4	7.2				7.0		310		4				133		4			7370		4060	2890	500.0	0.12			0.01	8.80					
8	24.18			7.4	7.8				7.1		269		2				134		2			5920		3690	2630	340.0	0.09			0.01	5.32					
9	25.48			7.6	7.6				7.0		240		2				145		4			5450		3140	2280	280.0	0.09			0.01	4.30					
10	24.73			7.4	7.3				7.0		212		2				111		3			5790		3930	2430	400.0	0.12			0.01	4.10					
11	25.27			7.3	7.1				6.0		224		3				130		3			6170		3880	2700	490.0	0.13	3.65	4.30	0.01	3.10			228		
12	25.04			8.4	7.8				7.0		248		2				136		4			8000		3740	2810	520.0	0.14			0.01	1.70			0.01		
13	28.78			8.5	7.6				7.0		294		3				145		8			6540		3940	2980	590.0	0.15			0.01	3.00					
14	28.33			7.4	7.4				7.0		238		3				150		4			7570		4010	3090	580.0	0.14			0.01	1.30					
15	27.16			7.5	7.2				7.0		282		3				166		4			7040		3920	2920	550.0	0.14			0.01	0.84					
16	27.12			7.4	7.2				7.0		300		4				188		4			7000		4210	3140	380.0	0.09			0.01	2.10					
17	25.71			7.4	7.5				7.0		254		4				154		5			7540		4630	3430	420.0	0.09			0.01	0.78					
18	28.50			7.1	7.1				7.0		274		4				170		8			7890		5320	4070	410.0	0.08	2.48	2.00	0.01	0.45					
19	28.34			7.8	7.1				7.0		206		6				178		8			7580		4200	3150	420.0	0.10			0.01	0.17					
20	31.85			7.4	7.3				7.0		220		7				163		8			7840		4070	3150	400.0	0.10			0.01	0.22					
21	30.48			7.4	7.2				6.9		254		5				163		8			7200		4930	3510	400.0	0.09			0.01	0.84					
22	27.87			7.1	7.0				6.0		284		6				155		8			7880		4750	3640	390.0	0.08			0.01	0.80					
23	27.75			7.2	7.2				5.2		303		5				182		7			7920		4230	3190	400.0	0.09			0.01	0.95					
24	21.19			7.2	7.0				7.0		178		4				138		8			7920		4850	3590	430.0	0.09			0.01	2.30					
25	27.35			7.3	7.7				7.0		434		5				211		7			6450		3770	2830	290.0	0.08	3.11	5.90	0.01	4.20					
26	26.43			7.3	7.2				7.0		278		5				172		7			6310		4120	3040	330.0	0.08			0.01	4.50					
27	48.23			9.3	7.3				6.5		180		8				85		8			5890		2580	1910	190.0	0.07			0.01	2.90					
28	38.58			7.4	7.2				7.0		188		8				105		8			5950		3570	2690	270.0	0.08			0.01	2.50					
29	32.09			7.5	6.1				7.0		230		8				127		7			7280		5040	3690	380.0	0.08			0.01	2.00					
30	30.66			7.6	7.2				6.1		220		6				149		6			7890		5990	3910	400.0	0.07			0.01	1.00					
31	28.98			7.3	7.2				7.0		365		8				222		7			7470		5330	3910	400.0	0.08		2.40	0.01	1.00					
Total	####	0	0																		0.0	0.0							0.01	8.00						
Avg.	28.10			7.6	7.3				6.8		259		5				149		6			7090.6		4285.16	3138.39	387.42	0		3.08	6.32	0.01	4.74		3	0.01	228

Total Number of Sewer Connections: 0
 Residential Connections: _____
 Commercial Connections: _____
 Industrial Connections: _____
 Sewer Connections X 4 = 0

Industrial Waste Population Equivalent
287644 Flow 204890 BOD 289803 TSS

Operator C Langford
 Cert. # #18751
 Phone # 502-540-6042



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

November 22, 2011

Mr. Charlie Roth, District Supervisor
KY Division of Water
Louisville Regional Office
9116 Leesgate Road
Louisville, KY 40222-5084

Re: Potential to Bypass Notification for:
Derek R. Guthrie WQTC - KPDES KY0078956

Dear Mr. Roth:

This water quality treatment center has the potential to bypass treatment due to a reduction of secondary treatment aeration tank capacity which is necessary due to the current plant expansion. Due to frequent inclement weather events we have not completed the construction phase of this project which was originally anticipated on September 29, 2011, as mentioned in our previous potential to bypass letter dated August 17, 2011. We will be reducing secondary aeration tank capacity to cut new influent ports into the aeration tanks and to modify the tanks aeration diffusers. We will install bulkheads to isolate aeration tank flow and we will redistribute plant flow to aeration tanks utilizing a temporary line from the plant's grit basin. We will continue operating DRGWQTC in complete mix mode until the completion of this construction phase. At which time, we will switch our operational mode back to contact stabilization. The start date of this project is scheduled for November 22, 2011. This scheduled event will occur, provided that conditions for minimizing the bypass potential exist. The anticipated duration of the event is 39 days.

Precautionary measures in place to prevent a bypass include:

- We will have staff available making frequent equipment and process checks during the duration of this project.

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-231-982, my cell phone at (502)-396-7543 or via email at ries@msdlouky.org.

Sincerely,


Kevin D. Ries

Wastewater Process Manager

cc: Gary Levy, KDEP
Paula Purifoy, MSD
eB File





Report Selections: Excluding PPI Excluding CSO Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV

KPDES # KY0078956	Facility ID MSD0277	Water Quality Treatment Center DEREK R. GUTHRIE	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
SPL Sewer Treatment Plant	MSD0277	11621 LOWER RIVER RD		OHIO RIVER	STREAM

Activity Code / Description	WO #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV: RAIN EVENT DISCHARGE	1357433	10/13/11 06:22 PM	MARKS JR	KESSEL	DOCUMENTED	10/17/06	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE-WATER S	10/13/11 07:00 PM	

Spot Inspections:

Discharge Amount	824,099 GAL
Cause:	DRG : DURING WET WEATHER EVENT DRG LOST POWER DUE TO LG&E ISSUES. EFFLUENT RECIEVED FULL TREATMENT,EXCEPT CHLORINATION AND DECHLORINATION.
Clean Up:	NO CLEANUP REQUIRED, PIPE DISCHARGE SUBMERGED.
Control Zone:	PIPE DISCHARGED SUBMERGED . NO CONTROL ZONE ESTABLISHED.
Impact:	NO IMPACT OBSERVED.
Repair:	SWITCHED LGE POWER FEEDS AND BROUGHT PLANT BACK ONLINE.

Notifications:

10/14/11 07:58 AM	DISPUB	msd warned public with signs
10/14/11 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Total Facilities Printed: 2
Total Work Orders Printed: 2