

# MSD

Metropolitan Sewer District

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

April 15, 2014

Cheryl Edwards  
Permit Support Section  
Surface Water Permits Branch  
Division of Water  
200 Fair Oaks Lane 4<sup>th</sup> Floor  
Frankfort, KY 40601

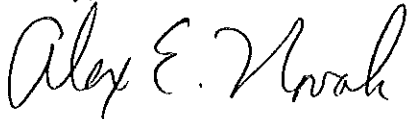
Re: **Morris Forman Water Quality Treatment Center**  
**KPDES Permit No. KY0022411**

Dear Ms. Edwards:

In accordance with the provisions of the KPDES Permit referenced above, the monthly Discharge Monitoring Report (DMR) and monthly Discharge (overflow) Reports for the reporting period March 1<sup>st</sup> to March 31<sup>st</sup> are provided through NetDMR. All permit requirements were met for the month of March, 2014.

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

Sincerely,



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

vg



*Beneficial Use of Louisville's Biosolids*  
[www.louisvillegreen.com](http://www.louisvillegreen.com)

# DMR Copy of Record

<b>Permit</b>					
<b>Permit #:</b>	<b>KY0022411</b>	<b>Permittee:</b>	MORRIS FORMAN WQTC MSD	<b>Facility:</b>	MORRIS FORMAN WQTC MSD
<b>Major:</b>	Yes	<b>Permittee Address:</b>	4522 ALGONQUIN PKWY LOUISVILLE, KY 40211	<b>Facility Location:</b>	4522 ALGONQUIN PKWY LOUISVILLE, KY 40211
<b>Permitted Feature:</b>	001 External Outfall	<b>Discharge:</b>	<b>001-1</b> MUNICIPAL DISCHARGE		

<b>Report Dates &amp; Status</b>					
<b>Monitoring Period:</b>	<b>From 03/01/14 to 03/31/14</b>	<b>DMR Due Date:</b>	<b>04/28/14</b>	<b>Status:</b>	<b>NetDMR Validated</b>

**Considerations for Form Completion**  
 G - INFLUENTE - SECONDARY EFFLUENT1 - FINAL EFFLUENT - Parameter 74055 - Use Season 1 for summer months (May, June, July, August, September, and October) and Season 2 for winter months (November, December, January, February March, and April); enter NODI=9 for the Season not needed.

<b>Principal Executive Officer</b>					
<b>First Name:</b>	Greg	<b>Title:</b>	Executive Director	<b>Telephone:</b>	502-540-6000
<b>Last Name:</b>	Heitzman				

**No Data Indicator (NODI)**  
 Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type				
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3	Units		
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample					=	4.1					19 - mg/L	0	01/01 - Daily	GR - GRAB		
					Permit Req.					>=	2 INST MIN					19 - mg/L		01/01 - Daily	GR - GRAB		
					Value NODI																
00310	BOD, 5-day, 20 deg. C	E - Secondary/Biological Process Complete	0	--	Sample	=	20985	=	37600	26 - lb/d		=	27	=	44	19 - mg/L	0	01/01 - Daily	CP - COMPOS		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L		01/01 - Daily	CP - COMPOS		
					Value NODI																
00310	BOD, 5-day, 20 deg. C	G - Raw Sewage Influent	0	--	Sample	=	214722	=	281940	26 - lb/d		=	279	=	314	19 - mg/L	0	01/01 - Daily	CP - COMPOS		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d			Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/01 - Daily	CP - COMPOS		
					Value NODI																
00400	pH	1 - Effluent Gross	0	--	Sample					=	6.8			=	7.6	12 - SU	0	01/01 - Daily	GR - GRAB		
					Permit Req.						>=	6 MINIMUM			<=	9 MAXIMUM		12 - SU	01/01 - Daily	GR - GRAB	
					Value NODI																
00530	Solids, total suspended	E - Secondary/Biological Process Complete	0	--	Sample	=	17797	=	26600	26 - lb/d		=	24	=	35	19 - mg/L	0	01/01 - Daily	CP - COMPOS		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L		01/01 - Daily	CP - COMPOS		
					Value NODI																
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	219631	=	303801	26 - lb/d		=	277	=	398	19 - mg/L	0	01/01 - Daily	CP - COMPOS		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d			Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/01 - Daily	CP - COMPOS		
					Value NODI																
00610	Nitrogen, ammonia total [as N]	E - Secondary/Biological Process Complete	0	--	Sample	=	8736	=	9804	26 - lb/d		=	12.3	=	16.2	19 - mg/L	0	01/01 - Daily	CP - COMPOS		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		<=	20 MO AVG	<=	30 MX WK AV	19 - mg/L		01/01 - Daily	CP - COMPOS		
					Value NODI																
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	9452	=	9638	26 - lb/d		=	12.7	=	15.2	19 - mg/L	0	01/01 - Daily	CP - COMPOS		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d			Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/01 - Daily	CP - COMPOS		
					Value NODI																
50050	Flow, in conduit or thru treatment plant	E - Secondary/Biological Process Complete	0	--	Sample	=	88.81	=	110.7	03 - MGD							0	99/99 - Continuous	CN - CONTIN		
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD								99/99 - Continuous	CN - CONTIN		
					Value NODI																
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample									<	0.01	19 - mg/L	0	01/01 - Daily	GR - GRAB		
					Permit Req.											<=		.019 DAILY MX	19 - mg/L	01/01 - Daily	GR - GRAB
					Value NODI																
74055	Coliform, fecal general	1 - Effluent Gross	2	--	Sample							=	39	=	81	13 - #/100mL	0	01/01 - Daily	GR - GRAB		
					Permit Req.							<=	1000 30DA GEO	<=	2000 7 DA GEO	13 - #/100mL		01/01 - Daily	GR - GRAB		
					Value NODI																
81010	BOD, 5-day, percent removal	K - Percent Removal	0	--	Sample					=	90					23 - %	0	01/30 - Monthly	CA - CALCTD		
					Permit Req.							>=	85 MO MIN					23 - %	01/30 - Monthly	CA - CALCTD	
					Value NODI																
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample					=	89					23 - %	0	01/30 - Monthly	CA - CALCTD		
					Permit Req.							>=	85 MO MIN					23 - %	01/30 - Monthly	CA - CALCTD	
					Value NODI																

**Submission Note**  
 If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**  
 No errors.

**Comments**

**Attachments**

Name	Type	Size
MFWQTCoverLetter032014.pdf	pdf	12712
201403_MFWQTC_OverflowReport.pdf	pdf	72720
MFWQTCMOR032014.pdf	pdf	58805

**Report Last Saved By**

**MORRIS FORMAN WQTC MSD**

User: robin.burch@louisvillemsd.org	Date/Time: 2014-04-15 12:26 (Time Zone: -04:00)
Name: Robin Burch	
E-Mail: robin.burch@louisvillemsd.org	

**DMR Copy of Record**

<b>Permit</b>			
Permit #:	KY0022411	Permittee:	MORRIS FORMAN WQTC MSD
Major:	Yes	Permittee Address:	4522 ALGONQUIN PKWY LOUISVILLE, KY 40211
Permitted Feature:	001 External Outfall	Discharge:	001-B SECONDARY BYPASS
Facility:		Facility Location:	MORRIS FORMAN WQTC MSD 4522 ALGONQUIN PKWY LOUISVILLE, KY 40211

<b>Report Dates &amp; Status</b>			
Monitoring Period:	From 03/01/14 to 03/31/14	DMR Due Date:	04/28/14
Status:	NetDMR Validated		

**Considerations for Form Completion**  
 MONITORING DURING PERIODS OF SECONDARY BYPASS IN ADDITION TO REGULAR MONITORING.1 - FINAL EFFLUENTF - SECONDARY BYPASS AFTER PRIMARYTREATMENT.

<b>Principal Executive Officer</b>			
First Name:	Greg	Title:	Executive Director
Last Name:	Heitzman	Telephone:	502-540-6000

**No Data Indicator (NODI)**  
 Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3			
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample						=	89	=	215	19 - mg/L	07/30 - 7 Times Every Month WH/DS - When Discharging	CP - COMPOS
					Permit Req.										19 - mg/L		CP - COMPOS
					Value NODI												
00310	BOD, 5-day, 20 deg. C	F - Primary/Preliminary Process Complete	0	--	Sample						=	200	=	311	19 - mg/L	07/30 - 7 Times Every Month WH/DS - When Discharging	CP - COMPOS
					Permit Req.										19 - mg/L		CP - COMPOS
					Value NODI												
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample						=	77	=	165	19 - mg/L	07/30 - 7 Times Every Month WH/DS - When Discharging	CP - COMPOS
					Permit Req.										19 - mg/L		CP - COMPOS
					Value NODI												
00530	Solids, total suspended	F - Primary/Preliminary Process Complete	0	--	Sample						=	185	=	339	19 - mg/L	07/30 - 7 Times Every Month WH/DS - When Discharging	CP - COMPOS
					Permit Req.										19 - mg/L		CP - COMPOS
					Value NODI												
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample						=	12	=	18.2	19 - mg/L	07/30 - 7 Times Every Month WH/DS - When Discharging	CP - COMPOS
					Permit Req.										19 - mg/L		CP - COMPOS
					Value NODI												
00610	Nitrogen, ammonia total [as N]	F - Primary/Preliminary Process Complete	0	--	Sample						=	14.3	=	18.8	19 - mg/L	07/30 - 7 Times Every Month WH/DS - When Discharging	CP - COMPOS
					Permit Req.										19 - mg/L		CP - COMPOS
					Value NODI												
50050	Flow, in conduit or thru treatment plant	F - Primary/Preliminary Process Complete	0	--	Sample	=	23	=	0	03 - MGD					07/30 - 7 Times Every Month WH/DS - When Discharging	CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD						0	CN - CONTIN
					Value NODI												

**Submission Note**  
 If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**  
 No errors.

**Comments**

**Attachments**  
 No attachments.

**Report Last Saved By**  
**MORRIS FORMAN WQTC MSD**

User:	robin.burch@louisvillemsd.org	Date/Time:	2014-04-15 12:29 (Time Zone: -04:00)
Name:	Robin Burch		
E-Mail:	robin.burch@louisvillemsd.org		

**DMR Copy of Record**

**Permit**

<b>Permit #:</b>	<b>KY0022411</b>	<b>Permittee:</b>	MORRIS FORMAN WQTC MSD	<b>Facility:</b>	MORRIS FORMAN WQTC MSD
<b>Major:</b>	Yes	<b>Permittee Address:</b>	4522 ALGONQUIN PKWY LOUISVILLE, KY 40211	<b>Facility Location:</b>	4522 ALGONQUIN PKWY LOUISVILLE, KY 40211
<b>Permitted Feature:</b>	001 External Outfall	<b>Discharge:</b>	001-Y BIOMONITORING/ONCE PER QUARTER		

**Report Dates & Status**

<b>Monitoring Period:</b>	<b>From 01/01/14 to 03/31/14</b>	<b>DMR Due Date:</b>	<b>04/28/14</b>	<b>Status:</b>	<b>NetDMR Validated</b>
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**Considerations for Form Completion**

**Principal Executive Officer**

<b>First Name:</b>	Greg	<b>Title:</b>	Executive Director	<b>Telephone:</b>	502-540-6000
<b>Last Name:</b>	Heitzman				

**No Data Indicator (NODI)**

Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type		
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3	Units
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample						=	0			=	0	19 - mg/L	XX/XX - Frequency as Reported	CP - COMPOS
					Permit Req.												19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Value NODI														
01025	Cadmium, dissolved [as Cd]	1 - Effluent Gross	0	--	Sample						<	0.003		<	0.003	19 - mg/L	XX/XX - Frequency as Reported	CP - COMPOS	
					Permit Req.												19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Value NODI														
01040	Copper, dissolved [as Cu]	1 - Effluent Gross	0	--	Sample						<	0.007		<	0.007	19 - mg/L	XX/XX - Frequency as Reported	CP - COMPOS	
					Permit Req.												19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Value NODI														
01049	Lead, dissolved [as Pb]	1 - Effluent Gross	0	--	Sample						<	0.008		<	0.008	19 - mg/L	XX/XX - Frequency as Reported	CP - COMPOS	
					Permit Req.												19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Value NODI														
01090	Zinc, dissolved [as Zn]	1 - Effluent Gross	0	--	Sample						<	0.07		<	0.07	19 - mg/L	XX/XX - Frequency as Reported	CP - COMPOS	
					Permit Req.												19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Value NODI														
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.07		<	0.07	19 - mg/L	XX/XX - Frequency as Reported	CP - COMPOS	
					Permit Req.												19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Value NODI														
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.003		<	0.003	19 - mg/L	XX/XX - Frequency as Reported	CP - COMPOS	
					Permit Req.												19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Value NODI														
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.008		<	0.008	19 - mg/L	XX/XX - Frequency as Reported	CP - COMPOS	
					Permit Req.												19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Value NODI														
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.007		<	0.007	19 - mg/L	XX/XX - Frequency as Reported	CP - COMPOS	
					Permit Req.												19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Value NODI														
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample									<	1	2F - tox acute	XX/XX - Frequency as Reported	G2 - GRAB-2	
					Permit Req.									<=	1 DAILY MX	2F - tox acute	01/90 - Quarterly	G2 - GRAB-2	
					Value NODI														

**Submission Note**

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**

No errors.

**Comments**

**Attachments**

No attachments.

**Report Last Saved By**

MORRIS FORMAN WQTC MSD

User: robin.burch@louisvillemtd.org

Date/Time: 2014-04-15 12:33 (Time Zone: -04:00)

Name: Robin Burch

E-Mail: robin.burch@louisvillemtd.org


DATE	WASTEWATER FLOWS (Million Gallons)			TEMP (DEGF)		pH		SETS (M/L)		TSS (mg/L)		TS (mg/L)		D.O. (mg/L)	5-DAY BOD (mg/L)			RETURN SLUDGE FLOW TSS TVSS			AERATION BASIN D.O. MLSS MLVSS SET SVI				ACTIVE Sludge Primary		CHLORINATION Chlorine Fecal			FINAL EFFLUENT NH3-N Pump.			
	Final	Sec.	Bypass	raw	final	raw	final	raw	final	raw	final	raw	final	final	raw	prim.	final	final	MG	g/L	g/L	mg/L	g/L	g/L	SET	SVI	Wasted MG	Sludge MG	Dosage KLBS	Resid mg/L	Coliform #/100 ml	mg/L	Hours
	Effluent	Effluent																															
3/1	84.67	84.67	0.0	57	57	7.5	7.2	16.0	0.1	436	33	6.4	284	233	17	27.1	5.4	4.2	11.5	4.2	3.0	234	55	1.03	0.24	1.63	0.010	12	15	24.00			
3/2	141.47	103.81	37.66	54	54	7.6	7.2	22.9	10.5	660	257	6.4	428	402	200	26.9	9.6	7.7	12.8	3.5	2.8	236	68	1.04	0.21	4.13	0.010	20	13	24.00			
3/3	110.05	110.05	0.0	51	51	7.5	7.2	6.5	0.4	172	30	8.5	340	208	31	27.4	7.3	5.8	11.9	3.6	2.6	211	58	0.88	0.20	1.90	0.010	28	10	24.00			
3/4	107.06	101.7	5.36	51	51	7.4	7.2	13.0	0.8	356	73	5.1	272	219	229	26.7	6.4	5.1	10.2	3.2	2.4	206	63	0.97	0.25	3.07	0.010	1000	10	10.00			
3/5	105.8	105.8	0.0	51	51	7.3	7.2	3.5	0.5	94	39	5.8	336	172	62	26.4	6.1	4.8	11.3	3.1	2.3	212	69	0.99	0.27	3.01	0.010	280	9	0.00			
3/6	106.71	106.71	0.0	54	54	7.4	6.8	2.0	0.2	100	47	5.8	190	170	38	25.9	6.5	4.9	11.2	3.3	2.1	171	51	0.94	0.27	2.70	0.010	120	8	0.00			
3/7	99.91	99.91	0.0	56	56	7.3	7.0	13.0	0.1	366	43	7.5	297	183	35	25.2	14.7	12.2	10.5	3.7	3.1	200	53	0.91	0.22	2.50	0.010	104	9	0.00			
3/8	97.37	97.37	0.0	57	57	7.5	6.8	13.5	0.1	346	46	7.7	292	162	34	24.7	13.3	11.1	10.3	3.5	2.9	189	53	0.88	0.18	2.43	0.010	210	10	0.00			
3/9	97.37	97.37	0.0	56	56	7.5	6.8	18.9	0.2	316	39	7.4	192	205	30	24.8	13.8	11.0	11.7	3.3	2.0	191	59	0.85	0.15	2.23	0.010	104	11	0.00			
3/10	92.29	92.29	0.0	57	57	7.5	7.0	14.8	0.1	282	37	7.1	205	205	27	24.5	12.0	10.2	10.4	3.8	3.3	198	52	0.97	0.37	2.11	0.010	29	13	0.00			
3/11	86.61	86.61	0.0	59	59	7.3	7.0	19.9	0.4	412	48	6.2	365	242	42	23.2	12.3	10.0	10.8	4.1	2.5	193	48	0.92	0.36	1.99	0.010	46	14	0.00			
3/12	103.6	99.69	3.91	58	58	7.3	6.9	22.1	1.8	532	99	6.4	364	250	65	23.2	13.6	11.4	11.3	4.5	3.8	217	51	0.84	0.37	2.52	0.010	39	14	0.00			
3/13	80.53	80.53	0.0	55	55	7.4	7.0	19.9	0.1	434	44	6.2	424	203	32	23.8	14.3	11.4	11.7	4.9	3.4	199	41	0.79	0.16	1.85	0.010	48	15	0.00			
3/14	83.49	83.49	0.0	58	58	7.4	6.9	19.9	0.2	464	42	6.2	359	209	28	24.7	13.1	11.1	12.7	5.8	4.9	220	40	0.88	0.16	1.96	0.010	42	13	11.00			
3/15	73.88	73.88	0.0	58	58	7.3	6.8	14.5	0.1	316	34	6.9	326	204	24	24.0	12.1	10.2	12.5	4.7	3.9	209	50	1.17	0.23	1.74	0.010	70	15	24.00			
3/16	84.83	84.83	0.0	56	56	7.4	6.9	0.1	0.2	56	37	7.1	142	158	23	24.4	12.1	10.3	13.8	5.6	4.8	213	38	1.13	0.34	1.92	0.010	52	15	24.00			
3/17	88.09	88.09	0.0	56	56	7.3	6.8	17.5	0.6	356	50	8.4	368	231	32	24.4	12.3	10.2	15.8	6.4	4.8	230	36	1.12	0.36	1.86	0.010	89	12	24.00			
3/18	83.46	83.46	0.0	56	56	7.3	7.0	16.0	0.4	364	39	7.4	350	148	27	23.3	16.2	13.5	13.9	3.6	3.1	240	68	1.24	0.42	1.71	0.010	36	14	14.00			
3/19	91.1	90.38	0.72	59	59	7.4	6.9	0.3	0.2	68	20	8.1	139	142	19	22.0	12.6	10.3	15.8	5.0	3.7	183	37	1.23	0.31	1.78	0.010	7	18	0.00			
3/20	73.75	73.75	0.0	59	59	7.4	7.0	7.9	0.1	196	20	7.4	344	187	14	22.0	12.4	10.4	15.7	3.0	2.5	169	59	1.00	0.31	1.55	0.010	6	18	0.00			
3/21	74.8	74.8	0.0	60	60	7.4	6.9	10.0	0.1	406	26	7.2	388	238	14	22.1	13.1	10.8	13.8	2.9	2.4	173	59	0.91	0.36	1.82	0.010	4	18	0.00			
3/22	69.93	69.93	0.0	61	61	7.5	7.6	16.0	0.1	296	19	6.5	358	185	16	21.6	12.1	10.7	12.7	3.3	2.8	184	56	0.86	0.40	1.77	0.010	10	17	0.00			
3/23	67.63	67.63	0.0	59	59	7.5	7.2	2.5	0.1	102	20	6.6	209	191	14	21.8	12.1	10.3	14.1	5.1	4.1	209	41	0.86	0.37	1.71	0.010	4	17	0.00			
3/24	68.95	68.95	0.0	58	58	7.5	7.0	10.0	0.1	250	18	7.0	177	166	14	21.4	11.9	10.1	13.5	3.8	2.9	192	55	0.93	0.35	1.79	0.010	9	17	0.00			
3/25	72.04	72.04	0.0	56	56	7.2	7.0	2.5	0.1	113	17	7.6	186	150	14	21.5	12.3	10.3	15.0	3.2	2.5	172	54	0.99	0.36	1.74	0.010	6	21	0.00			
3/26	66.49	66.49	0.0	57	57	7.4	6.9	11.0	0.1	312	17	8.2	327	195	17	21.7	11.5	9.6	15.2	3.1	2.4	178	58	0.97	0.36	1.53	0.010	9	19	0.00			
3/27	72.99	72.99	0.0	60	60	7.1	6.9	6.0	0.1	152	24	6.8	338	290	26	22.0	12.3	10.1	13.7	3.3	2.3	203	63	0.89	0.19	1.72	0.010	15	17	0.00			
3/28	109.73	96.67	13.06	59	59	7.3	6.8	1.3	0.3	78	32	5.6	232	195	42	23.0	5.5	4.3	12.5	3.3	2.5	187	57	0.92	0.30	3.29	0.010	1900	13	0.00			
3/29	203.69	109.68	94.01	55	55	7.2	6.9	6.5	1.4	250	37	4.1	154	124	51	24.3	5.2	4.1	12.1	4.1	3.1	202	50	1.02	0.28	4.83	0.010	540	8	0.00			
3/30	116.95	110.7	6.25	55	55	7.5	7.0	5.0	0.1	146	22	7.1	109	70	18	24.0	12.4	10.1	13.4	3.2	2.3	188	60	0.83	0.33	1.40	0.010	40	8	0.00			
3/31	98.78	98.78	0.0	58	58	7.5	7.0	2.5	0.1	148	13	11.8	166	100	11	23.3	12.9	10.9	19.2	2.7	2.3	172	66	1.05	0.25	1.30	0.010	23	11	13.00			
Total	2914.0	2753.1	161.0													741.3									30.010	8.930					192.00		
Average	94.0	88.8	5.2	57	57	7.4	7.0	10.8	0.6	277	43	7.0	279	195	40	23.9	11.2	9.3	12.9	3.9	3.0	199	54	0.97	0.29	2.18	0.010	39	14				

SEWER CONNECTIONS

130985 TIMES 4 = 523940 SEWER POPULATION

IND. WASTER POPULATION EQ  
 CUSTOMERS 373  
 FLOW 371304  
 BOD 764471  
 TSS 509184

Authorized Agent



Certification No. 5691

MORRIS FORMAN WASTEWATER TREATMENT PLANT

JEFFERSON COUNTY, KY

Month of Mar-14

Average Flow

SETTLING TANKS	Primary	Secondary		
		Battery A	Battery B	Battery C
Average Flow (MGD)	95.10	29.83	26.60	12.58
Tanks in Service	4.00	6.0	7.0	4.0
Surface Area (Ft.2)	77000.00	51900.00	60550.00	34600.00
Volume (MG)	8.33	5.32	6.20	3.54
Weir Length (Ft.)	2860.00	2151.00	2509.50	1434.00
Avg. Weir Overflow (GPD/Ft)	33250.44	13868.02	10599.02	8771.12
Avg. Settling Rate (GPD/Ft2)	1235.02	742.67	617.35	492.39
Avg. Detention Time	2.10	4.28	5.60	6.76

AERATION TANKS

Battery A	Battery B	Battery C
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Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	38.54	37.38	17.04
Avg. Detention Time (Hours)	3.38	3.79	4.01

CHLORINE CONTACT CHAMBERS

Contact Chambers in Use	2.0
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	0.94

Remarks: BY-PASS REPORTS (See Attached)

Report Selections: Period: 03/01/2014 00:00 thru 03/31/2014 23:59, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMN Sewer Main	45856	2315 SENECA VALLEY RD		MIDDLE FORK BEARGRASS CREEK	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISDW: DRY WEATHER DISCHARGE	2133553		3/25/14 2:00 pm	GITTINGS	RICHARDSON	REPAIRED - ISSUE RESOLVED	03/25/2014	STRUCTURAL FAILURE	UNAUTHORIZED DISCHARGE - WATERS	03/25/14 05:00 PM	MAIN

**Discharge Reporting:**

Discharge Amount:	5 GAL
Cause:	STRUCTURAL FAILURE IN THE MAIN SEWER
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA
Control Zone:	PLACED 1 DISCHARGE SIGN
Impact:	GREEN DYE IN CREEK
Repair:	WORK ORDERS 2133503; 2133499; ROOT CUT & REPAIRED MAIN SEWER; SEALED AN EXPOSED JOINT AS A PRECAUTION
Public Notification:	ADVISED CUSTOMER ON SITE

**Notifications:**

2/18/14 1:00 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epa.gov'
2/18/14 1:00 am	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epa.gov'

Total Facilities Printed: 1

Total Work Orders Printed: 1