

MSD

Metropolitan Sewer District

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

October 15, 2013

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

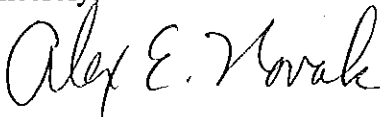
Re: **Morris Forman Water Quality Treatment Center**
KPDES Permit No. KY0022411

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 September 1st to September 30th are provided through NetDMR. All permit requirements were met for the month of September, 2013.

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

Sincerely,



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

vg

MFDMR0613.doc



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

DMR Copy of Record

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

Report Dates & Status			
Monitoring Period:	From 09/01/13 to 09/30/13	DMR Due Date:	10/28/13
Status:	NetDMR Validated		

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.

Principal Executive Officer			
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				Value 3	Units
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample					=	4.6					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	=	4007	=	5040	26 - lb/d	=	7	=	8	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	=	163652	=	214411	26 - lb/d	=	261	=	330	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					=	6.2			=	6.8	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	=	3917	=	4983	26 - lb/d	=	6	=	8	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	=	233803	=	346485	26 - lb/d	=	347	=	486	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	=	2885	=	4514	26 - lb/d	=	4.8	=	7.6	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	=	8621	=	9153	26 - lb/d	=	14	=	15.3	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	=	74.45	=	127.62	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	1	--	Sample					=	52	=	73	13 - #/100mL	0	01/01 - Daily	GR - GRAB		
					Permit Req.					<=	200 30DA GEO	<=	400 7 DA GEO	13 - #/100mL		01/01 - Daily	GR - GRAB		
					Value NODI														
81010	BOD, 5-day, percent removal	K - Percent Removal	0	--	Sample					=	97			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					=	98			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
MFWQTCCoverLetter092013.pdf	pdf	15967
MFWQTCMOR0913.pdf	pdf	39470
2013009MFWQTC_OverflowReport.pdf	pdf	74742

Report Last Saved By

MORRIS FORMAN WQTC MSD

User: richgalardi	Date/Time: 2013-10-17 12:28 (Time Zone: -04:00)
Name: Richard Galardi	
E-Mail: rich.galardi@louisvillemsd.org	

DMR Copy of Record

Permit			
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:	MORRIS FORMAN WQTC MSD
		Facility Location:	4522 ALGONQUIN PKWY LOUISVILLE, KY 40211

Report Dates & Status			
Monitoring Period:	From 09/01/13 to 09/30/13	DMR Due Date:	10/28/13
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.

Principal Executive Officer			
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				Value 3	Units
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample						=	30	=	52	19 - mg/L	05/30 - 5 Times Every Month WH/DS - When Discharging	CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L
					Value NODI														
00310	BOD, 5-day, 20 deg. C	F - Primary/Preliminary Process Complete	0	--	Sample						=	129	=	214	19 - mg/L	05/30 - 5 Times Every Month WH/DS - When Discharging	CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample						=	35	=	51	19 - mg/L	05/30 - 5 Times Every Month WH/DS - When Discharging	CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L
					Value NODI														
00530	Solids, total suspended	F - Primary/Preliminary Process Complete	0	--	Sample						=	150	=	259	19 - mg/L	05/30 - 5 Times Every Month WH/DS - When Discharging	CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L
					Value NODI														
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample						=	3.9	=	6	19 - mg/L	05/30 - 5 Times Every Month WH/DS - When Discharging	CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L
					Value NODI														
00610	Nitrogen, ammonia total [as N]	F - Primary/Preliminary Process Complete	0	--	Sample						=	11.3	=	13.4	19 - mg/L	05/30 - 5 Times Every Month WH/DS - When Discharging	CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L
					Value NODI														
50050	Flow, in conduit or thru treatment plant	F - Primary/Preliminary Process Complete	0	--	Sample	=	34.63	=	29.86	03 - MGD						05/30 - 5 Times Every Month WH/DS - When Discharging	CN - CONTIN		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD									
					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:	richgalardi	Date/Time:	2013-10-17 12:30 (Time Zone: -04:00)
Name:	Richard Galardi		
E-Mail:	rich.galardi@louisvillemsd.org		

DMR Copy of Record

Permit

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

Report Dates & Status

Monitoring Period:	From 07/01/13 to 09/30/13	DMR Due Date:	10/28/13	Status:	NetDMR Validated
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Considerations for Form Completion

Principal Executive Officer

First Name:	Greg	Title:	Executive Director	Telephone:	502-540-6000
Last Name:	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						=	295		=	295	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS	
					Permit Req.													01/90 - Quarterly	CP - COMPOS	
					Value NODI															
01025	Cadmium, dissolved [as Cd]	1 - Effluent Gross	0	--	Sample						<	0.003		<	0.003	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS	
					Permit Req.													01/90 - Quarterly	CP - COMPOS	
					Value NODI															
01040	Copper, dissolved [as Cu]	1 - Effluent Gross	0	--	Sample						<	0.007		<	0.007	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS	
					Permit Req.													01/90 - Quarterly	CP - COMPOS	
					Value NODI															
01049	Lead, dissolved [as Pb]	1 - Effluent Gross	0	--	Sample						<	0.008		<	0.008	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS	
					Permit Req.													01/90 - Quarterly	CP - COMPOS	
					Value NODI															
01090	Zinc, dissolved [as Zn]	1 - Effluent Gross	0	--	Sample						<	0.07		<	0.07	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS	
					Permit Req.													01/90 - Quarterly	CP - COMPOS	
					Value NODI															
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.07		<	0.07	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS	
					Permit Req.													01/90 - Quarterly	CP - COMPOS	
					Value NODI															
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.003		<	0.003	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS	
					Permit Req.													01/90 - Quarterly	CP - COMPOS	
					Value NODI															
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.008		<	0.008	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS	
					Permit Req.													01/90 - Quarterly	CP - COMPOS	
					Value NODI															
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.023		=	0.023	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS	
					Permit Req.													01/90 - Quarterly	CP - COMPOS	
					Value NODI															
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample									<	1	2F - tox acute	0	01/90 - Quarterly	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:	richgalardi	Date/Time:	2013-10-17 12:35 (Time Zone: -04:00)
Name:	Richard Galardi		
E-Mail:	rich.galardi@louisvillemsd.org		

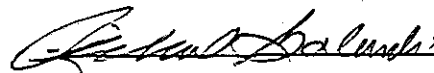
DATE	WASTEWATER FLOWS (Million Gallons)			TEMP (DEGF)		pH		SETS (ML)		TSS (mg/L)		TS (mg/L)		D.O. (mg/L)	5-DAY BOD (mg/L)			RETURN SLUDGE				AERATION BASIN				ACTIVE		CHLORINATION			FINAL EFFLUENT		
	Effluent	Effluent	Bypass	raw	final	raw	final	raw	final	raw	final	raw	final	final	raw	final	prim.	final	final	TSS	TVSS	D.O.	MLSS	MLVSS	SET	SVI	Sludge Wasted	Primary Sludge	Chlorine Dosage	Resid mg/L	Fecal Collform #/100 ml	NH3-N mg/L	Pump. Hours
9/1	188.73	125.85	62.88	77	78	7.0	6.4	6.5	0.5	318	39			6.8	151	82	26	26.8	12.1	10.1	16.8	2.1	1.8	170	83	0.82	0.25	7.48	0.010	435	3	0.00	
9/2	128.85	102.52	26.33	77	77	7.1	6.3	7.5	0.3	290	26			6.2	117	51	15	26.4	10.7	8.8	15.3	2.8	2.4	200	71	0.85	0.23	5.98	0.010	98	3	0.00	
9/3	86.88	86.51	0.37	77	77	7.0	6.6	9.6	0.2	306	7			6.8	171	83	7	26.3	9.8	7.9	14.8	2.4	1.8	177	74	0.85	0.26	4.13	0.010	74	2	0.00	
9/4	75.1	75.1	0.0	78	78	7.2	6.5	10.2	0.2	312	10			5.5	231	110	8	26.0	9.3	7.4	13.3	2.3	1.8	179	77	0.79	0.19	2.10	0.010	78	4	0.00	
9/5	71.68	71.68	0.0	77	77	7.0	6.5	18.5	0.2	346	8			5.8	136	156	2	28.1	8.5	7.0	13.9	2.3	1.7	181	79	0.76	0.25	1.25	0.010	116	4	0.00	
9/6	69.3	69.3	0.0	77	77	7.2	6.8	9.0	0.2	316	7			5.4	274	174	7	25.9	8.9	7.2	12.9	2.6	2.2	177	68	0.78	0.34	2.37	0.010	28	3	0.00	
9/7	86.34	86.34	0.0	79	79	7.3	6.6	3.5	0.2	162	8			5.2	149	136	7	26.2	8.5	6.7	13.1	2.5	2.0	181	73	0.78	0.33	2.29	0.010	14	3	0.00	
9/8	67.1	67.1	0.0	78	78	7.0	6.6	12.5	0.1	304	8			5.2	196	107	7	26.2	8.9	7.1	13.1	2.6	2.1	192	73	0.79	0.35	2.14	0.010	19	3	0.00	
9/9	71.68	71.68	0.0	79	79	7.0	6.6	18.5	0.1	468	7			5.6	268	131	6	25.9	9.2	7.5	10.7	2.3	1.8	200	89	0.82	0.30	2.33	0.010	30	3	0.00	
9/10	61.25	61.25	0.0	82	82	6.9	6.2	1.1	0.1	124	9			5.5	140	165	8	25.6	8.0	6.2	11.2	2.5	1.6	199	80	0.83	0.34	1.74	0.010	84	4	0.00	
9/11	70.59	70.59	0.0	82	82	7.0	6.5	18.9	0.1	426	10			4.8	272	160	8	25.3	9.0	7.3	11.8	2.5	2.2	217	85	0.82	0.37	2.08	0.010	70	5	0.00	
9/12	72.94	72.94	0.0	80	79	7.1	6.7	2.5	0.1	116	13			5.8	180	180	10	25.3	8.8	7.3	10.5	2.7	2.2	212	78	0.82	0.34	1.25	0.010	100	4	0.00	
9/13	86.09	86.09	0.0	76	76	6.9	6.3	11.5	0.1	368	10			5.1	333	229	8	25.4	9.0	7.3	10.6	2.8	2.3	201	73	0.79	0.05	1.07	0.010	206	3	0.00	
9/14	58.5	58.5	0.0	76	76	6.9	6.5	13.0	0.1	432	15			5.6	364	255	10	26.0	8.8	7.4	9.4	3.2	2.8	231	72	0.81	0.04	2.21	0.010	15	4	0.00	
9/15	57.47	57.47	0.0	76	76	7.0	6.6	14.9	0.1	394	14			5.0	308	220	8	26.8	10.5	8.7	11.5	3.1	2.8	258	82	0.86	0.17	2.10	0.010	21	3	0.00	
9/16	64.77	64.77	0.0	79	79	7.0	6.5	16.9	0.1	428	17			5.1	416	290	12	28.4	11.7	9.9	8.5	3.2	2.9	231	72	0.90	0.34	2.06	0.010	40	3	0.00	
9/17	81.36	61.36	0.0	77	77	6.9	6.7	15.5	0.2	390	16			5.1	322	191	11	26.9	12.1	10.5	8.2	3.7	3.2	356	100	0.96	0.34	1.89	0.010	41	5	0.00	
9/18	65.28	65.28	0.0	78	78	7.3	6.6	21.9	0.2	512	15			5.5	256	233	8	27.4	11.7	9.8	9.2	4.0	3.3	334	84	1.04	0.23	2.26	0.010	20	8	0.00	
9/19	64.57	64.57	0.0	79	79	7.1	6.6	19.0	0.1	536	13			4.8	459	288	9	27.8	12.1	10.5	7.6	3.9	3.4	319	85	1.13	0.23	2.21	0.010	12	1	0.00	
9/20	106.25	79.93	26.32	79	79	6.8	6.6	24.0	3.0	792	75			4.6	406	348	74	27.0	10.5	9.0	7.9	3.2	2.8	329	109	1.22	0.24	4.22	0.010	153	9	0.00	
9/21	164.84	127.62	57.22	75	75	6.9	6.6	10.0	1.0	348	26			7.0	141	79	29	27.5	14.6	12.3	12.7	2.3	2.0	242	107	1.10	0.20	6.86	0.010	330	3	0.00	
9/22	95.04	95.04	0.0	73	73	7.3	6.6	13.0	0.1	466	11			6.8	206	74	6	27.1	14.4	11.7	14.3	3.4	2.5	246	72	1.05	0.20	3.44	0.010	12	5	0.00	
9/23	81.16	81.16	0.0	75	75	7.3	6.7	1.8	0.1	82	9			5.6	119	123	5	27.4	13.5	11.1	13.4	3.3	2.7	244	75	1.02	0.26	1.94	0.010	103	7	0.00	
9/24	74.61	74.61	0.0	74	74	7.2	6.8	5.0	0.1	114	12			5.8	184	158	6	28.6	12.5	10.5	11.3	3.4	3.0	262	77	0.97	0.34	1.84	0.010	250	9	0.00	
9/25	71.85	71.85	0.0	74	74	7.1	6.6	19.0	0.2	434	14			5.4	418	189	8	26.7	13.9	11.6	12.1	3.2	2.8	249	79	0.82	0.34	1.93	0.010	74	8	0.00	
9/26	66.22	66.22	0.0	77	77	7.2	6.6	1.7	0.1	104	12			5.5	199	180	8	26.3	11.7	9.5	11.2	3.1	2.5	233	75	0.76	0.27	2.00	0.010	72	10	0.00	
9/27	64.55	64.55	0.0	77	77	7.2	6.6	19.0	0.2	430	16			6.2	421	214	9	27.4	10.4	8.7	10.7	3.0	2.7	272	96	0.82	0.27	1.92	0.010	58	10	0.00	
9/28	61.5	61.5	0.0	77	77	7.3	6.4	19.9	0.1	454	16			5.3	437	217	12	26.9	11.4	9.4	10.2	3.3	2.6	283	87	0.90	0.28	1.90	0.010	46	9	0.00	
9/29	66.64	66.64	0.0	77	77	7.2	6.4	13.0	0.1	272	14			6.4	217	158	12	26.5	11.1	9.2	11.6	3.7	3.2	331	91	0.92	0.31	2.30	0.010	15	10	0.00	
9/30	65.43	65.43	0.0	75	75	7.1	6.7	18.5	0.1	372	17			5.4	352	200	16	26.3	11.8	9.6	10.3	3.7	2.9	288	79	0.94	0.30	2.26	0.010	12	8	0.00	
Total	2406.6	2233.4	173.1															794.0															0.00
Average	80.2	74.4	5.8	77	77	7.1	6.6	12.5	0.3	347	16			5.6	261	173	12	26.5	10.8	8.9	11.6	3.0	2.5	240	82	0.89	0.27	2.65	0.010	52	5	0.00	

SEWER CONNECTIONS

131359 TIMES 4 = 525436 SEWER POPULATION

IND. WASTER POPULATION EQ
 CUSTOMERS 373
 FLOW 238548
 BOD 503413
 TSS 580679

Authorized Agent



Certification No. 4663

MORRIS FORMAN WASTEWATER TREATMENT PLANT

JEFFERSON COUNTY, KY

Month of Sep-13

Average Flow

SETTLING TANKS	Primary	Secondary		
		Battery A	Battery B	Battery C
Average Flow (MGD)	81.52	23.24	19.31	10.52
Tanks in Service	3.00	8.0	8.0	3.3
Surface Area (Ft.2)	57750.00	69160.25	69160.24	28370.08
Volume (MG)	6.25	7.08	7.08	2.91
Weir Length (Ft.)	2145.00	2866.35	2866.35	1175.80
Avg. Weir Overflow (GPD/Ft)	38005.40	8107.32	6737.71	8946.96
Avg. Settling Rate (GPD/Ft2)	1411.63	495.15	447.94	504.72
Avg. Detention Time	1.84	7.32	8.80	6.63

AERATION TANKS	Battery A	Battery B	Battery C
Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	34.24	30.98	14.32
Avg. Detention Time (Hours)	4.34	5.22	4.79

CHLORINE CONTACT CHAMBERS

Contact Chambers in Use	2.0
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	1.21

Remarks: BY-PASS REPORTS (See Attached)



Report Selections: Period: 09/01/2013 00:00 thru 09/30/2013 23:59, treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

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
SMH Sewer Manhole	51594	1418 TREVILIAN WAY		SOUTH FORK BEARGRASS CREEK	DITCH

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	2016716		9/21/13 12:38 am	MITCHELL	GRIFFITH	DOCUMENTED	09/12/2006	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	09/21/13 05:10 AM	

Discharge Reporting:

Discharge Amount:	19,500 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WO# 2016808
Control Zone:	CAUTION TAPE AND TEMP SIGNS
Impact:	LIGHT DEBRIS OBSERVED
Repair:	LOCATION INCLUDED IN THE IOAP
Public Notification:	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMP SIGNS TO AVOID CONTACT WITH DISCHARGE

Notifications:

9/11/13 1:00 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov'
9/11/13 1:00 am	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemsd.org, eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov'



Report Selections: Period: 09/01/2013 00:00 thru 09/30/2013 23:59, treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

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
SMH Sewer Manhole	CSO015	4010 BELLS LN		OHIO RIVER	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISDW: DRY WEATHER DISCHARGE	2008030		9/10/13 12:36 pm	FRENCH	GALARDI	DOCUMENTED	12/19/2007	ELECTRICAL PROBLEMS AT MSD	UNAUTHORIZED DISCHARGE - WATERS	09/10/13 01:09 PM	

Discharge Reporting:

Discharge Amount:	6,000,000 GAL
Cause:	LG&E WORKING - SCHEDULED POWER OUTAGE TO BELLS LN PS, SYSTEM PUT IN MANUAL MODE; POWER CAME BACK; SYSTEM FAILED OPEN
Clean Up:	PIPE DISCHARGE SUBMERGED; CLEANUP NOT POSSIBLE
Control Zone:	NO CONTROL ZONE ESTABLISHED; PIPE DISCHARGE SUBMERGED - PERMANENT WARNING SIGNS POSTED ALONG OHIO RIVER
Impact:	NO IMPACT OBSERVED; PIPE DISCHARGE SUBMERGED
Repair:	PUT GATES IN MANUAL MODE AT PS AND FORCED GATES CLOSED
Public Notification:	PUBLIC NOTIFIED THROUGH WEBSITE NOTIFICATIONS

Notifications:

9/5/13 1:00 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov'
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Total Facilities Printed: 2

Total Work Orders Printed: 2