



700 West Liberty Street | Louisville, KY 40203-1911  
Phone: 502.540.6000 | LouisvilleMSD.org

February 20, 2019

Crystal Dennis  
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. Dennis:

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 January 1<sup>st</sup> to January 31<sup>st</sup> 2019 are provided through NetDMR. The Morris Forman Water Quality Treatment Center (MFWQTC) did not meet 30 day TSS, 7 day TSS, 30 day BOD, 7 day BOD and TSS percent removal for the reporting period.

Compromised solids handling equipment is contributing to the exceedances. MFWQTC continues to employ additional solids processing methods: 24 hour dewatered cake and an outside vendor to assist with solids handling in addition to purchasing additional Liquid Oxygen in an effort to meet permit requirements.

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

Sincerely,

Alex E. Novak, P.E.  
Treatment Facilities Director

DMR Copy of Record

<b>Permit</b>					
Permit #:	KY0022411	Permittee:	Morris Forman WQTC MSD	Facility:	MORRIS FORMAN WQTC MSD
Major:	Yes	Permittee Address:	700 W Liberty St Louisville, KY 40203	Facility Location:	4522 ALGONQUIN PKWY LOUISVILLE, KY 40211
Permitted Feature:	001 External Outfall	Discharge:	001-1 MUNICIPAL DISCHARGE		

<b>Report Dates &amp; Status</b>					
Monitoring Period:	From 01/01/19 to 01/31/19	DMR Due Date:	02/28/19	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.

<b>Principal Executive Officer</b>					
First Name:	James A.	Title:	Executive Director	Telephone:	502-540-6000
Last Name:	Parrott				

**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				0	01/01 - Daily	GR - GRAB	
					Value NODI														
X 00310	BOD, 5-day, 20 deg. C	E - Secondary/Biological Process Complete	0	--	Sample	=	35931	=	54464	26 - lb/d	=	41	=	66	19 - mg/L	2	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	2	01/01 - Daily	CP - COMPOS
					Value NODI														
00310	BOD, 5-day, 20 deg. C	G - Raw Sewage Influent	0	--	Sample	=	261658	=	333997	26 - lb/d	=	292	=	411	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	0	01/01 - Daily	CP - COMPOS
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample	=	6.3				=	6.9		12 - SU	0	01/01 - Daily	GR - GRAB		
					Permit Req.	>=	6 MINIMUM					<=	9 MAXIMUM	12 - SU	0	01/01 - Daily	GR - GRAB		
					Value NODI														
X 00530	Solids, total suspended	E - Secondary/Biological Process Complete	0	--	Sample	=	47174	=	73652	26 - lb/d	=	54	=	88	19 - mg/L	2	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	2	01/01 - Daily	CP - COMPOS
					Value NODI														
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	287257	=	355775	26 - lb/d	=	312	=	412	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	0	01/01 - Daily	CP - COMPOS
					Value NODI														
00610	Nitrogen, ammonia total [as N]	E - Secondary/Biological Process Complete	0	--	Sample	=	7702	=	9441	26 - lb/d	=	9.4	=	12.2	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	0	01/01 - Daily	CP - COMPOS
					Value NODI														
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	9081	=	9826	26 - lb/d	=	10	=	12.5	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	0	01/01 - Daily	CP - COMPOS
					Value NODI														
50050	Flow, in conduit or thru treatment plant	E - Secondary/Biological Process Complete	0	--	Sample	=	103.68	=	116.75	03 - MGD						0	99/99 - Continuous	CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD						0	99/99 - Continuous	CN - CONTIN	
					Value NODI														
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample								<	0.016	19 - mg/L	0	01/01 - Daily	GR - GRAB	
					Permit Req.								<=	.019 DAILY MX	19 - mg/L	0	01/01 - Daily	GR - GRAB	
					Value NODI														
74055	Coliform, fecal general	1 - Effluent Gross	2	--	Sample							=	170	=	368	13 - #/100mL	0	01/01 - Daily	GR - GRAB
					Permit Req.							<=	1000 30DA GEO	<=	2000 7 DA GEO	13 - #/100mL	0	01/01 - Daily	GR - GRAB
					Value NODI														
81010	BOD, 5-day, percent removal	K - Percent Removal	0	--	Sample					=	86				23 - %	0	01/30 - Monthly	CA - CALCTD	
					Permit Req.					>=	85 MO MIN				23 - %	0	01/30 - Monthly	CA - CALCTD	
					Value NODI														
X 81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample					=	83				23 - %	1	01/30 - Monthly	CA - CALCTD	
					Permit Req.					>=	85 MO MIN				23 - %	1	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.

<b>Edit Check Errors</b>						
Code	Parameter Name	Monitoring Location	Field	Type	Description	Acknowledge

00530	Solids, total suspended	E - Secondary/Biological Process Complete	Quality or Concentration Sample Value 2	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes
00530	Solids, total suspended	E - Secondary/Biological Process Complete	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes
81011	Solids, suspended percent removal	K - Percent Removal	Quality or Concentration Sample Value 1	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes
00310	BOD, 5-day, 20 deg. C	E - Secondary/Biological Process Complete	Quality or Concentration Sample Value 2	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes
00310	BOD, 5-day, 20 deg. C	E - Secondary/Biological Process Complete	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes

**Comments**

**Attachments**

Name	Type	Size
MFWQTCMOR012019.pdf	pdf	96337
MFWQTCoverletter012019.pdf	pdf	45634
January2019_OverflowReport_MorrisForman.pdf	pdf	115875

**Report Last Saved By**

**Morris Forman WQTC MSD**

User: kessel@louisvillemsd.org  
Name: John Kessel  
E-Mail: kessel@louisvillemsd.org  
Date/Time: 2019-02-21 13:21 (Time Zone: -05:00)

**Report Last Signed By**

User: kessel@louisvillemsd.org  
Name: John Kessel  
E-Mail: kessel@louisvillemsd.org  
Date/Time: 2019-02-21 13:21 (Time Zone: -05:00)

**DMR Copy of Record**

<b>Permit</b>			
Permit #:	KY0022411	Permittee:	Morris Forman WQTC MSD
Major:	Yes	Permittee Address:	700 W Liberty St Louisville, KY 40203
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 01/01/19 to 01/31/19	DMR Due Date:	02/28/19
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:	James A.	Title:	Executive Director
Last Name:	Parrott	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						=	79	=	141	19 - mg/L	16/30 - 16 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L 0
					Value NODI														
00310	BOD, 5-day, 20 deg. C	F - Primary/Preliminary Process Complete	0	--	Sample						=	129	=	196	19 - mg/L	16/30 - 16 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L 0
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample						=	110	=	284	19 - mg/L	16/30 - 16 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L 0
					Value NODI														
00530	Solids, total suspended	F - Primary/Preliminary Process Complete	0	--	Sample						=	120	=	175	19 - mg/L	16/30 - 16 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L 0
					Value NODI														
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample						=	7.8	=	8.9	19 - mg/L	16/30 - 16 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L 0
					Value NODI														
00610	Nitrogen, ammonia total [as N]	F - Primary/Preliminary Process Complete	0	--	Sample						=	10.6	=	12.3	19 - mg/L	16/30 - 16 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS		
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L 0
					Value NODI														
50050	Flow, in conduit or thru treatment plant	F - Primary/Preliminary Process Complete	0	--	Sample	=	29.6	=	37.7	03 - MGD					16/30 - 16 Per Month WH/DS - When Discharging	CN - CONTIN CN - CONTIN			
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD							0		
					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: kessel@louisvillemsd.org  
 Name: John Kessel  
 E-Mail: kessel@louisvillemsd.org  
 Date/Time: 2019-02-21 13:18 (Time Zone: -05:00)

**Report Last Signed By**

User: kessel@louisvillemsd.org  
 Name: John Kessel  
 E-Mail: kessel@louisvillemsd.org  
 Date/Time: 2019-02-21 13:21 (Time Zone: -05:00)

Report Selections: Period: 01/01/2019 00:00 thru 01/31/2019 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	16649	1726 FRASER DR		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	3040684		01/23/2019	DAVIS BROWN	MITCHELL	DOCUMENTED	01/24/2002	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATER S	01/23/19 06:15 PM	

**Discharge Reporting:**

Discharge Amount:	5,750 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO HEAVY RAIN.
Clean Up:	NO CLEANUP REQUIRED. DISCHARGE PIPE IS SUBMERGED.
Control Zone:	CONTROL ZONE WAS NOT ESTABLISHED DUE TO THE SIZE OF THE CREEK AND DIFFICULTY ACCESSING DISCHARGE AREAS.
Impact:	NONE OBSERVED. OVER FLOW NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE AND DOOR HANGERS TO AVOID DISCHARGED CONTENT.

**Notifications:**

1/24/19 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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Report Selections: Period: 01/01/2019 00:00 thru 01/31/2019 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	45796	1011 ALTA CIR		MIDDLE 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	3040342		01/23/2019	DAVIS BROWN	MITCHELL	DOCUMENTED	05/10/2014	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATER S	01/24/19 05:20 AM	

**Discharge Reporting:**

Discharge Amount:	142,500 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO HEAVY RAIN.
Clean Up:	WO#3040688
Control Zone:	TEMPORARY DISCHARGE SIGNS PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMPORARY AND PERMANENT OVER FLOW SIGNS TO AVOID DISCHARGED CONTENT.

**Notifications:**

1/23/19 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO: DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/23/19 1:00 pm	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 01/01/2019 00:00 thru 01/31/2019 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
SV Sewer Valve	69041B-V	4212 RIVIERA DR		OHIO RIVER	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISDW: DRY WEATHER DISCHARGE	3038452		01/15/2019	ROTTET JR	NOE	REPAIRED - ISSUE RESOLVED	01/15/2019	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE-WATER S	01/15/19 11:00 AM	

**Discharge Reporting:**

Discharge Amount:	3,000 GAL
Cause:	MECHANICAL FAILURE. SUCTION HOSE ON PUMPER TRUCK BROKE WHILE DRAINING FORCEMAIN FOR VALVE REPLACEMENT.
Clean Up:	MSD PERSONNEL AND CONTRACTOR (SES ENVIRONMENTAL) CLEANED AND SANITIZED IMPACTED AREA.
Control Zone:	TEMPORARY SIGNS PLACED AROUND IMPACTED AREA.
Impact:	SEWAGE ON THE GROUND. ENTERED INTO STORM DRAIN.
Repair:	SHUT OFF VALVE TO STOP DISCHARGE.
Public Notification:	TEMPORARY SIGNS. MSD PERSONNEL NOTIFIED CUSTOMERS ON SITE. PAGE SENT OUT TO UPDATE MSDNET WEBSITE.

**Notifications:**

1/15/19 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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Report Selections: Period: 01/01/2019 00:00 thru 01/31/2019 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	72289	1700 SULGRAVE 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
: DISREV: RAIN EVENT DISCHARGE	3040343		01/23/2019	DAVIS BROWN	MITCHELL	DOCUMENTED	05/29/2012	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATER S	01/24/19 05:25 AM	

**Discharge Reporting:**

Discharge Amount:	34,200 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO HEAVY RAIN.
Clean Up:	CLEAN UP NOT NEEDED. NO SOLID OR DEBRIS OBSERVED.
Control Zone:	BARRICADES AND TEMPORARY DISCHARGE SIGNS PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING. NO SOLIDS OR DEBRIS OBSERVED.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMPORARY AND PERMANENT OVER FLOW SIGNS TO AVOID DISCHARGED CONTENT.

**Notifications:**

1/23/19 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO: DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/23/19 1:00 pm	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



Report Selections: Period: 01/01/2019 00:00 thru 01/31/2019 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
SMN Sewer Main	79113-V	2201 INDIAN HILLS TRL		MUDDY 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	3038576		01/15/2019	ROTTET JR	BANKS	REPAIRED - ISSUE RESOLVED	01/15/2019	STRUCTURAL FAILURE	UNAUTHORIZED DISCHARGE-WATER S	01/15/19 02:20 PM	

**Discharge Reporting:**

Discharge Amount:	9,000 GAL
Cause:	STRUCTURAL FAILURE. FORCE MAIN BREAK.
Clean Up:	PIPE SUBMERGED. NO CLEANUP NEEDED.
Control Zone:	TEMPORARY SIGNS PLACED AROUND IMPACTED AREA.
Impact:	SEWAGE AT IMPACTED SITE.
Repair:	SHUT OFF PUMPS AT MUDDY FORK PUMP STATION. VALVED IN OLD FORCEMAIN AND VALVED OUT NORTH BARREL OF OHIO RIVER FORCE MAIN.
Public Notification:	TEMPORARY SIGNS AT IMPACTED AREA AND PAGE SENT OUT TO UPDATE MSDNET WEBSITE.

**Notifications:**

1/16/19 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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Report Selections: Period: 01/01/2019 00:00 thru 01/31/2019 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	IS021A-SI	1201 OLD CANNONS LN		MIDDLE FORK BEARGRASS CREEK	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3036333		01/04/2019	DAVIS BROWN	MITCHELL	DOCUMENTED	08/01/1969	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATER S	01/05/19 12:45 AM	

**Discharge Reporting:**

Discharge Amount:	94,000 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	NO CLEANUP REQUIRED. MANHOLE IS DISCHARGING DIRECTLY INTO CREEK.
Control Zone:	CONTROL ZONE WAS NOT ESTABLISHED. NO PUBLIC ACCESS TO THE DISCHARGE SITE.
Impact:	NONE OBSERVED. OVER FLOW NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK, TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT.

**Notifications:**

1/5/19 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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Report Selections: Period: 01/01/2019 00:00 thru 01/31/2019 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 (Cont'd)	MSD0278	MORRIS FORMAN			OHIO RIVER			WEST			
Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREVRAIN EVENT DISCHARGE	3040682		1/19/2019 7:15:00PM	MITCHELL	DAVIS BROWN	DOCUMENTED	08/01/1969	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATER S	01/19/19 11:45 PM	

**Discharge Reporting:**

Discharge Amount:	181,000 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO HEAVY RAIN.
Clean Up:	CLEAN UP NOT PERFORMED. NO PUBLIC ACCESS TO THE DISCHARGE SITE.
Control Zone:	CONTROL ZONE WAS NOT ESTABLISHED DUE TO LACK OF PUBLIC ACCESS TO THE DISCHARGE SITE.
Impact:	NONE OBSERVED. OVER FLOW NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK, TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT.

**Notifications:**

1/24/19 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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Report Selections: Period: 01/01/2019 00:00 thru 01/31/2019 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 (Cont'd)	MSD0278	MORRIS FORMAN				OHIO RIVER				WEST	
Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREVRAIN EVENT DISCHARGE	3040344		1/23/2019 11:57:00AM	MITCHELL	DAVIS BROWN	DOCUMENTED	08/01/1969	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATER S	01/24/19 11:30 PM	

**Discharge Reporting:**

Discharge Amount:	2,476,000 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO HEAVY RAIN.
Clean Up:	NO CLEANUP REQUIRED. MANHOLE IS DISCHARGING DIRECTLY INTO CREEK.
Control Zone:	CONTROL ZONE WAS NOT ESTABLISHED. NO PUBLIC ACCESS TO THE DISCHARGE SITE.
Impact:	NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK, TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT.

**Notifications:**

1/23/19 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/23/19 1:00 pm	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Total Facilities Printed: 6

Total Work Orders Printed: 8

Format: Month/Day/Year

Enter Start Date : 1/1/19

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF January-19  
 KPDES PERMIT NO. KY0022411 PLANT CAPACITY - 120 MGD RECEIVING STREAM-OHIO RIVER

DATE	WASTEWATER FLOWS (Million Gallons)			TEMP (DEGF)		pH		SETS (ML)		TSS (mg/L)		D.O. (mg/L)	5-DAY BOD (mg/L)			RETURN SLUDGE			AERATION BASIN					ACTIVE		CHLORINATION			FINAL EFFLUENT			
	Final Effluent	Sec. Effluent	Bypass	raw	final	raw	final	raw	final	raw	final	final	raw	prim. final	final	FLOW MG	TSS g/L	TVSS g/L	D.O. mg/L	MLSS g/L	MLVSS g/L	SET	SVI	Sludge Wasted MG	Primary Sludge MG	Chlorine Dosage KLBS	Resid mg/L	Fecal Coliform #/100 ml	NH3-N mg/L	Pump. Hours		
																															Final Effluent	Sec. Effluent
1/1/19	174.05	118.52	55.53	59	59	7.0	6.3	7.8	52.0	448	1320	5.5	204	157	635	25.2	20.6	17.6	26.0	10.1	8.6	116	51	0.88	0.17	3.44	0.016	15	9.8	24.0		
1/2/19	174.73	125.51	49.22	58	58	6.8	6.4	2.5	4.0	188	217	8.5	190	162	118	25.1	19.1	16.4	28.7	10.3	8.7	100	26	1.13	0.29	2.54	0.016	880	1.6	24.0		
1/3/19	120.03	114.26	5.77	58	58	7.0	6.6	10.0	2.0	748	138	5.6	272	173	85	25.2	18.8	16.0	25.3	2.7	2.3	83	55	1.12	0.43	1.88	0.016	38	3.2	24.0		
1/4/19	150.56	115.09	35.47	55	55	6.7	6.4	9.5	0.3	308	30	7.6	363	220	22	25.1	17.8	15.2	26.6	7.3	6.3	90	21	1.01	0.28	2.34	0.016	3850	2.6	24.0		
1/5/19	152.87	114.08	38.79	57	57	7.0	6.3	13.0	0.3	337	37	6.1	287	350	30	25.5	18.5	15.6	28.9	4.5	3.8	92	53	0.94	0.06	3.00	0.016	740	5.2	24.0		
1/6/19	131.88	117.62	14.24	58	58	6.8	6.4	11.0	1.5	360	135	5.9	412	363	88	25.2	18.7	15.8	27.0	4.2	3.7	81	54	0.90	0.11	2.08	0.016	320	6.8	24.0		
1/7/19	112.34	112.14	0.20	59	59	6.8	6.2	18.0	0.3	376	56	8.8	455	424	48	25.3	19.3	16.7	26.9	5.4	4.7	77	16	0.90	0.32	2.09	0.016	284	7.1	24.0		
1/8/19	101.22	101.22	0.00	61	61	6.8	6.5	14.8	4.1	420	280	6.8	272	382	195	25.3	20.5	17.5	21.5	5.7	4.9	86	50	0.84	0.41	1.89	0.016	7	7.1	24.0		
1/9/19	91.91	91.91	0.00	59	59	7.0	6.8	15.5	6.0	400	268	6.8	376	251	148	25.3	19.4	16.7	16.3	4.8	4.1	106	56	0.78	0.39	1.99	0.016	79	8.4	24.0		
1/10/19	84.52	84.52	0.00	57	57	7.1	6.5	18.5	7.0	472	316	7.0	392	285	162	25.3	19.0	16.3	14.2	5.1	4.5	112	55	0.84	0.32	1.73	0.016	65	12.1	24.0		
1/11/19	88.63	88.63	0.00	60	60	7.0	6.5	29.5	10.0	496	372	5.9	559	372	206	25.3	18.8	15.7	14.4	5.4	4.6	118	58	0.92	0.25	1.84	0.016	79	16.8	12.4		
1/12/19	95.82	95.82	0.00	58	58	7.0	6.3	11.0	3.5	400	220	5.4	503	343	117	23.7	19.3	16.5	16.4	7.1	6.0	151	57	0.86	0.12	2.24	0.016	174	15.2	0.0		
1/13/19	131.94	115.88	16.26	57	57	6.9	6.4	16.0	6.0	428	293	6.0	494	461	154	23.3	18.8	16.4	17.0	5.2	4.5	154	24	0.83	0.20	3.85	0.016	237	14.7	0.0		
1/14/19	82.50	82.50	0.00	60	60	6.7	6.5	22.0	19.0	725	636	8.8	574	411	408	23.5	15.4	13.2	17.8	5.8	5.0	187	54	0.92	0.42	1.66	0.016	220	18.5	0.0		
1/15/19	80.38	80.38	0.00	57	57	6.8	6.2	7.5	13.0	240	448	8.2	209	155	274	23.5	20.2	17.3	15.9	9.0	7.7	178	64	0.97	0.27	1.71	0.016	1100	7.4	0.0		
1/16/19	77.04	77.04	0.00	56	56	7.3	6.4	4.5	2.5	138	128	6.3	188	107	111	23.4	20.3	17.8	11.6	7.5	6.6	188	51	1.01	0.28	1.90	0.016	360	5.3	0.0		
1/17/19	92.52	90.18	2.34	60	60	7.2	6.7	11.0	0.2	324	37	6.5	278	164	28	23.4	18.8	16.2	7.0	4.3	3.7	314	78	1.00	0.38	3.10	0.016	250	6.6	0.0		
1/18/19	77.97	77.97	0.00	59	59	7.1	6.6	10.8	0.2	324	42	6.1	303	224	18	23.2	18.9	16.3	4.7	3.0	2.7	301	69	1.01	0.34	2.67	0.016	172	8.6	0.0		
1/19/19	191.17	116.25	74.92	59	59	6.9	6.3	12.5	0.2	384	40	6.8	383	231	36	23.1	18.5	16.2	12.1	3.2	2.8	279	67	1.16	0.16	8.45	0.016	180	7.8	0.0		
1/20/19	145.51	117.12	28.39	51	51	7.0	6.4	14.0	4.5	396	224	7.7	283	254	194	23.4	17.9	15.5	22.5	3.3	3.0	172	71	1.30	0.15	4.22	0.016	27	10.3	16.5		
1/21/19	113.95	112.38	1.57	52	52	7.0	6.4	7.5	1.5	208	132	4.6	261	145	108	23.4	18.4	15.8	8.8	3.1	2.7	161	63	1.30	0.18	2.37	0.016	555	6.3	24.0		
1/22/19	102.76	102.76	0.00	54	54	7.2	6.5	11.0	0.3	297	42	6.0	264	108	32	23.4	17.5	15.2	6.5	2.9	2.5	187	57	1.30	0.20	2.59	0.016	55	4.0	24.0		
1/23/19	168.49	106.43	62.06	57	57	7.0	6.5	9.5	0.1	176	43	6.8	125	144	31	23.1	16.3	14.2	15.7	8.0	7.0	167	50	1.30	0.26	6.25	0.016	89	7.5	24.0		
1/24/19	162.78	101.88	60.90	53	53	7.4	6.7	11.0	0.4	343	67	6.7	296	176	39	23.2	15.1	13.0	14.8	5.5	4.7	182	72	1.29	0.30	5.59	0.016	10	12.6	24.0		
1/25/19	137.91	112.06	25.85	50	50	7.3	6.5	10.5	0.4	148	63	6.1	165	147	44	23.1	14.0	12.1	18.4	7.1	6.1	150	63	1.26	0.27	4.19	0.016	98	12.7	24.0		
1/26/19	118.97	116.91	2.06	51	51	7.4	6.6	15.0	0.2	328	46	5.4	277	144	24	23.5	14.2	12.2	16.0	2.8	2.5	148	72	1.28	0.19	3.19	0.016	30	15.7	24.0		
1/27/19	117.75	117.75	0.00	54	54	7.4	6.7	16.0	2.8	320	110	4.8	193	159	88	23.4	13.9	12.0	10.1	2.4	2.1	160	56	1.28	0.19	3.56	0.016	34	16.4	24.0		
1/28/19	117.66	117.66	0.00	55	55	7.4	6.9	12.9	0.1	258	31	5.3	175	91	30	23.2	13.6	11.7	13.1	2.4	2.0	153	62	1.28	0.30	3.21	0.016	325	9.2	24.0		
1/29/19	107.39	107.39	0.00	54	54	7.4	6.7	7.8	0.1	198	17	6.5	157	74	13	23.0	13.2	11.3	16.4	2.4	2.0	187	68	1.23	0.32	2.65	0.016	27	10.2	24.0		
1/30/19	93.26	93.26	0.00	50	50	7.4	7	9.8	0.1	163	24	5.5	143	80	24	23.3	14.0	11.9	23.3	1.8	1.4	194	77	1.24	0.29	2.30	0.016	430	13.7	24.0		
1/31/19	89.30	89.30	0.00	51	51	7.0	6.5	7.5	6.0	196	204	5.6	173	149	142	23.4	12.4	10.5	23.3	3.8	3.2	191	74	1.25	0.29	2.20	0.016	317	8.8	24.0		
Sum	3687.8	3020.9	473.6												744.3																	532.6
Average	119.0	104.2	29.6	56.4	56.4	7.1	6.5	12.2	4.8	340.2	194.1	6.5	297.6	222.8	117.8	24.0	17.5	15.0	17.7	5.0	4.3	156.9	56.3	1.1	0.3	3.0	0.0	134.1	9.4			

SEWER CONNECTIONS 147634 TIMES 4 = 590536 SEWER POPULATION IND. WASTER POPULATION EQ CUSTOMERS 376  
 FLOW 536702  
 BOD 1193493  
 TSS 1060827

Authorized Agent

Certification No. 28893

MORRIS FORMAN WASTEWATER TREATMENT PLANT    JEFFERSON COUNTY, KY

Month of Jan-19

Average Flow

SETTLING TANKS	Primary	Secondary		
		Battery A	Battery B	Battery C
Average Flow (MGD)	118.36	30.60	34.40	10.00
Tanks in Service	4.00	7.0	7.0	2.0
Surface Area (Ft.2)	77000.00	59142.64	60350.60	23660.39
Volume (MG)	8.33	6.06	6.18	2.42
Weir Length (Ft.)	2860.00	2451.17	2501.24	980.61
Avg. Weir Overflow (GPD/Ft)	41384.62	12484.43	13755.13	10196.22
Avg. Settling Rate (GPD/Ft2)	1537.14	682.70	735.78	603.91
Avg. Detention Time	1.69	4.75	4.31	5.82

AERATION TANKS

	Battery A	Battery B	Battery C
Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	40.38	44.40	14.29
Avg. Detention Time (Hours)	3.29	2.93	5.04

CHLORINE CONTACT CHAMBERS

Contact Chambers in Use	2.0
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	0.92

Remarks: BY-PASS REPORTS (See Attached)