



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

November 18, 2021

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 October 1st through October 31st 2021 are provided through NetDMR. The Morris Forman Water Quality Treatment Center (MFWQTC) did not meet permit for 30 day BOD, 7 day BOD, 30 day TSS, 7 day TSS, TSS and BOD percent removal reporting requirements.

Compromised solids handling equipment continue to contribute to our effluent exceedances. MSD has installed dewatering services at a satellite facility. This dewatering service has reduced the solids loading to the Morris Forman plant. Additionally an Emergency Design Build Project for new solids handling equipment will be installed and in service in Early 2022 at Morris Forman.

Should you have any questions, please contact me at (502) 540-6222.

Sincerely,

John Kessel
Assistant Director-Treatment Facilities

DMR Copy of Record

Permit		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-B SECONDARY BYPASS					

Report Dates & Status			
Monitoring Period: From 10/01/21 to 10/31/21	DMR Due Date: 11/28/21	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: Anthony J	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
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample						=	99.0	=	181.0	19 - mg/L	0	13/30 - 13 Per Month WH/DS - When Discharging	CP - COMPOS 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						=	153.0	=	246.0	19 - mg/L	0	13/30 - 13 Per Month WH/DS - When Discharging	CP - COMPOS 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						=	162.0	=	197.0	19 - mg/L	0	13/30 - 13 Per Month WH/DS - When Discharging	CP - COMPOS 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						=	133.0	=	216.0	19 - mg/L	0	13/30 - 13 Per Month WH/DS - When Discharging	CP - COMPOS 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						=	7.6	=	11.2	19 - mg/L	0	13/30 - 13 Per Month WH/DS - When Discharging	CP - COMPOS 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						=	10.7	=	13.5	19 - mg/L	0	13/30 - 13 Per Month WH/DS - When Discharging	CP - COMPOS 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	=	32.4	=	38.3	03 - MGD					0	13/30 - 13 Per Month WH/DS - When Discharging	CN - CONTIN 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: kessel@louisvillemsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemsd.org
 Date/Time: 2021-11-18 06:11 (Time Zone: -05:00)

Report Last Signed By
 User: kessel@louisvillemsd.org

Name: John Kessel
E-Mail: kessel@louisvillemsd.org
Date/Time: 2021-11-18 06:12 (Time Zone: -05:00)

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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
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. Please verify that the value you have provided is correct.	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. Please verify that the value you have provided is correct.	Yes
81010	BOD, 5-day, percent removal	K - Percent Removal	Quality or Concentration Sample Value 1	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes
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. Please verify that the value you have provided is correct.	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. Please verify that the value you have provided is correct.	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. Please verify that the value you have provided is correct.	Yes

Comments**Attachments**

Name	Type	Size
10_October_Discharge_Report_All_Services_FIN.pdf	pdf	19306.0
Oct2021CoverLetterMFWQTC.Pdf	pdf	39798.0
MFWQTCMORSignedCopyOctober2021.Pdf	pdf	115055.0

Report Last Saved By**Morris Forman WQTC MSD**

User: kessel@louisvillemsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemsd.org
 Date/Time: 2021-11-18 06:12 (Time Zone: -05:00)

Report Last Signed By

User: kessel@louisvillemsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemsd.org
 Date/Time: 2021-11-18 06:12 (Time Zone: -05:00)

Format: Month/Day/Year
 Enter Start Date: 10/1/21

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF October-21
 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	0.00	raw	final	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	Wasted MG	Primary Sludge MG	Chlorine Dosage KLBS	Resid mg/L	Fecal Coliform #/100 ml	NH3-N mg/L	Pump. Hours
10/1/21	69.44	69.44	0.00		76	76	7.0	6.3	12.0	0.1	316	40	5.5	364	236	32	25.4	22.8	19.9	0.7	5.9	5.2	399	67	0.25	0.16	2.80	0.016	36	7.3	0.0		
10/2/21	68.17	68.17	0.00		75	75	7.1	6.3	10.0	0.2	248	119	5.8	244	200	59	25.5	23.5	20.5	1.1	6.4	5.6	447	68	0.00	0.04	2.55	0.016	8	5.9	0.0		
10/3/21	187.09	105.59	81.50		75	75	7.0	6.3	8.5	6.1	196	280	5.7	179	204	116	25.2	21.9	19.2	3.7	6.3	5.5	385	62	0.16	0.12	5.03	0.016	12	5.7	0.0		
10/4/21	126.44	122.04	4.40		72	72	7.0	6.4	7.1	0.6	200	178	6.0	145	89	72	24.8	18.9	16.3	11.1	3.4	2.9	210	61	0.54	0.47	5.03	0.016	140	5.3	0.0		
10/5/21	103.77	89.39	14.38		73	73	7.0	6.4	12.7	0.5	320	136	5.9	240	145	54	24.5	19.1	16.4	8.6	4.6	3.9	262	56	0.61	0.54	3.76	0.016	148	8.8	0.0		
10/6/21	190.62	137.64	52.98		72	72	6.9	6.4	4.2	0.7	215	146	6.2	143	102	68	24.7	20.4	17.6	6.0	3.3	2.8	170	51	0.62	0.44	5.83	0.016	7	4.6	0.0		
10/7/21	110.13	110.13	0.00		72	72	7.0	6.3	5.5	0.3	192	99	6.6	240	136	38	24.8	18.9	16.2	7.2	3.4	2.9	242	71	0.43	0.44	5.83	0.016	24	5.0	0.0		
10/8/21	95.19	95.19	0.00		73	73	7.0	6.4	8.2	0.2	256	90	6.5	304	221	52	24.7	19.6	16.7	3.3	4.0	3.4	231	57	0.32	0.23	3.96	0.016	84	7.5	0.0		
10/9/21	83.86	83.86	0.00		74	74	7.1	6.4	7.6	0.2	160	61	6.9	187	138	36	24.9	19.8	17.0	3.2	4.7	4.1	286	60	0.00	0.00	3.12	0.016	8	5.6	0.0		
10/10/21	77.27	77.27	0.00		74	74	7.0	6.4	7.5	0.3	152	116	6.3	132	105	41	25.1	18.5	15.9	7.7	7.8	6.8	333	44	0.09	0.05	3.12	0.016	10	6.6	0.0		
10/11/21	77.14	77.14	0.00		74	74	6.8	6.6	10.1	0.3	226	60	6.3	230	145	23	24.9	17.8	15.4	11.8	4.3	3.7	312	71	0.48	0.41	2.53	0.016	148	14.3	0.0		
10/12/21	73.42	73.42	0.00		76	76	6.7	6.4	12.5	0.1	298	35	5.9	416	215	27	24.8	18.0	15.6	2.5	5.0	4.3	379	75	0.45	0.42	2.54	0.016	128	14.2	0.0		
10/13/21	73.87	73.87	0.00		73	73	6.8	6.3	11.1	0.5	308	130	6.0	443	316	106	25.0	19.3	16.8	0.4	7.2	6.4	361	50	0.46	0.51	3.02	0.016	4	17.0	0.0		
10/14/21	75.16	75.16	0.00		75	75	6.8	6.5	12.1	0.3	276	132	4.9	305	180	94	25.3	20.4	17.9	0.5	3.8	3.3	227	59	0.47	0.55	2.88	0.016	294	19.6	0.0		
10/15/21	141.06	88.28	52.78		73	73	6.8	6.5	14.1	1.6	320	257	5.0	308	238	166	25.2	21.1	18.5	0.5	3.5	3.1	212	60	0.29	0.29	5.69	0.016	388	15.8	0.0		
10/16/21	108.21	90.62	17.59		70	70	7.0	6.4	6.1	0.3	150	137	4.7	428	253	196	24.7	20.8	18.3	0.7	3.9	3.4	163	42	0.00	0.08	5.69	0.016	1380	6.5	0.0		
10/17/21	79.69	79.69	0.00		70	70	7.0	6.4	6.5	0.3	145	118	4.6	254	211	232	24.2	23.5	20.3	0.7	3.6	3.1	192	54	0.18	0.10	3.14	0.016	228	7.1	0.0		
10/18/21	74.07	74.07	0.00		69	69	6.9	6.4	8.5	0.3	272	92	5.3	265	40	78	24.0	23.6	20.5	0.9	3.4	3.0	187	54	0.47	0.35	3.02	0.016	381	11.4	0.0		
10/19/21	71.73	71.73	0.00		66	66	6.8	6.4	10.1	0.3	335	83	5.6	373	194	68	24.3	24.1	21.1	0.9	4.2	3.8	253	61	0.34	0.39	3.18	0.016	12	13.8	0.0		
10/20/21	69.83	69.83	0.00		70	70	6.8	6.5	12.1	0.5	336	113	6.6	314	223	82	24.0	23.8	20.8	0.7	4.3	3.6	215	51	0.44	0.46	3.18	0.016	242	15.2	0.0		
10/21/21	70.07	70.07	0.00		72	72	6.8	6.3	15.1	0.3	308	126	6.0	351	232	107	23.8	16.2	14.3	0.6	3.8	3.3	208	56	0.60	0.48	3.85	0.016	880	17.0	0.0		
10/22/21	68.99	68.99	0.00		69	69	7.0	6.3	13.8	0.1	374	89	5.2	411	268	102	23.8	23.2	20.6	1.0	5.0	4.4	210	43	0.31	0.32	3.85	0.016	880	17.0	0.0		
10/23/21	67.01	67.01	0.00		69	69	7.0	6.4	10.8	0.1	266	120	6.6	222	203	72	24.0	24.2	21.4	0.9	4.1	3.7	210	51	0.00	0.00	3.21	0.016	32	9.5	0.0		
10/24/21	96.75	80.12	16.63		68	68	6.9	6.4	15.1	1.3	308	280	6.2	188	188	153	23.7	23.4	20.6	3.7	4.1	3.6	205	51	0.14	0.05	4.85	0.016	55	8.3	0.0		
10/25/21	144.66	84.88	59.78		67	67	6.9	6.3	9.5	1.1	374	146	5.8	209	140	102	23.2	22.2	19.4	11.7	3.0	2.7	153	51	0.45	0.73	4.85	0.016	28600	8.2	0.0		
10/26/21	79.94	79.51	0.43		66	66	6.8	6.3	7.5	0.1	290	77	5.9	265	146	53	23.1	22.6	19.5	16.3	2.9	2.6	168	57	0.37	0.66	4.24	0.016	1430	9.1	0.0		
10/27/21	70.15	70.15	0.00		66	66	6.9	6.3	5.7	0.1	284	62	6.1	397	177	50	23.3	22.6	19.5	10.8	3.7	3.2	197	54	0.37	0.46	3.48	0.016	32	10.6	0.0		
10/28/21	93.16	78.25	14.91		68	68	6.8	6.3	12.1	0.1	374	76	4.9	431	222	70	23.0	22.5	19.8	4.3	4.5	4.0	182	41	0.40	0.40	3.75	0.016	12	13.2	0.0		
10/29/21	85.85	79.18	6.67		66	66	6.8	6.2	9.5	0.1	292	98	5.8	369	66	58	23.2	23.7	21.0	4.1	3.3	3.0	182	54	0.28	0.24	3.75	0.016	12	6.6	0.0		
10/30/21	187.25	94.87	92.38		63	63	7.1	6.3	5.5	1.3	140	163	5.1	127	119	108	23.4	23.6	20.8	12.9	3.2	2.9	170	53	0.00	0.04	5.28	0.016	500	4.1	0.0		
10/31/21	102.41	95.17	7.24		61	61	7.1	6.4	5.5	0.3	79	130	6.5	93	72	67	23.2	21.2	18.9	19.6	2.2	1.9	152	71	0.20	0.16	5.28	0.016	800	2.2	0.0		
Sum	3022.40	2600.73	421.67														753.7	661.2	576.6	157.7	133.0	116.2	7502	1756	9.7	9.59	122.30					0.0	
Average	97.50	83.89	32.44		71	71	6.9	6.4	9.6	0.6	258	122	6.8	277	175	83	24.3	21.3	18.6	5.1	4.3	3.7	242	57	0.3	0.31	3.95	0.016	99	9.8			

SEWER CONNECTIONS 148053 TIMES 4 = 562212 SEWER POPULATION IND. WASTER POPULATION EQ
 CUSTOMERS 387
 FLOW 305240
 BOD 739989
 TSS 413196

Authorized Agent

Certification No. 26893



KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0078956	MSD0277	DEREK R. GUTHRIE	OHIO RIVER	NA

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMNSewer Main	106733-V	7318 REGIMENT RD		PENNSYLVANIA RUN	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISDW: DRY WEATHER DISCHARGE	3431596		10/10/2021	ROTTET JR	ROTTET JR	REPAIRED - ISSUE RESOLVED	10/10/2021	STRUCTURAL FAILURE	UNAUTHORIZED DISCHARGE- WATERS	10/10/21 09:30 PM	

Discharge Reporting:

Discharge Amount:	30,000 GAL
Cause:	STRUCTURAL FAILURE (FORCE MAIN BREAK).
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.
Control Zone:	PLACED CAUTION TAPE AROUND THE IMPACTED AREA AND TEMPORARY SIGNS.
Impact:	SEWAGE/DEBRIS/SOLIDS/PERSONAL HYGIENE PRODUCTS FOUND ON THE GROUND AND STREAM.
Repair:	HAULED SEWAGE UNTIL REPAIRS MADE. TRC REPAIRED FORCE MAIN.
Public Notification:	TALKED TO CUSTOMER ON SITE AND PAGE SENT OUT TO UPDATE MSD WEBSITE.

Notifications:

10/11/21 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
10/11/21 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0102784	MSD0294	FLOYDS FORK	FLOYDS FORK	NA

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMNSewer Main	80581A-AG	611 WOODLAKE DR		CHENOWETH RUN	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
: DISDW: DRY WEATHER DISCHARGE	3439668		10/21/2021	ROTTET JR	ROTTET JR	REPAIRED - ISSUE RESOLVED	07/27/2020	STRUCTURAL FAILURE	UNAUTHORIZED DISCHARGE-WATERS	10/21/21 02:44 PM	

Discharge Reporting:

Discharge Amount:	207 GAL
Cause:	STRUCTURAL FAILURE (FORCE MAIN BREAK).
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	SEWAGE FOUND ON THE GROUND AND IN STREAM.
Repair:	SHUT OFF PUMP AND ISOLATED FORCE MAIN. CONTRACTOR TO MAKE REPAIRS.
Public Notification:	TEMPORARY SIGNS AROUND IMPACTED AREA. BREAK IS WITHIN FENCED AREA OF MSD PUMP STATION.

Notifications:

10/22/21 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN		NA

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	CSO125	376 CRESCENT SPRING DR		MIDDLE FORK BEARGRASS	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
: DISDW: DRY WEATHER DISCHARGE	3430480		10/01/2021	FRENCH	FRENCH	REPAIRED - ISSUE RESOLVED	10/16/2015	UTILITY DAMAGED MSD ASSET	UNAUTHORIZED DISCHARGE-WATERS	10/01/21 03:25 PM	

Discharge Reporting:

Discharge Amount:	325,000 GAL
Cause:	DISCHARGED WATER INCLUDES RESIDUAL WASTE STREAM FROM MUNICIPAL DRINKING WATER TREATMENT.
Clean Up:	MSD CREWS WILL CLEAN AND SANITIZE IMPACTED AREAS.
Control Zone:	MSD CREWS WILL CLEAN AND SANITIZE THE IMPACTED AREA.
Impact:	MOSTLY CLEAR WATER DISCHARGING FROM CSO OUTFALL TO CREEK.
Repair:	LWC WORKING TO REPAIR LINE.
Public Notification:	MSD WEBSITE UPDATED TO NOTIFY THE PUBLIC OF A DRY WEATHER OVERFLOW.

Notifications:

10/2/21 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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Total Facilities Printed: 3

Total Work Orders Printed: 3