



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

December 18, 2020

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 November 1st to November 30th 2020 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, and TSS percent removal reporting requirements.

Compromised solids handling equipment continue to contribute to our effluent exceedances. MSD has installed temporary dewatering services at a satellite facility. This temporary dewatering service will reduce 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 the late spring of 2021.

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

Sincerely,

A handwritten signature in blue ink, appearing to read 'J. Kessel', written over the word 'Sincerely,'.

John Kessel
Assistant Director Treatment Facilities

DMR Copy of Record

Permit

Permit #:

KY0022411

Major:

Yes

Permittee:

Morris Forman WQTC MSD

Permittee Address:

700 W Liberty St
Louisville, KY 40203

Facility:

MORRIS FORMAN WQTC MSD

Facility Location:

4522 ALGONQUIN PKWY
LOUISVILLE, KY 40211

Permitted Feature:

001
External Outfall

Discharge:

001-1
MUNICIPAL DISCHARGE

Report Dates & Status

Monitoring Period:

From 11/01/20 to 11/30/20

DMR Due Date:

12/28/20

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:

James A

Last Name:

Parrott

Title:

Executive Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form NODI: --

				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																		
Parameter		Monitoring Location	Field	Type	Description	Acknowledge												
Code	Name																	
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. (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. Please verify that the value you have provided is correct. (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. Please verify that the value you have provided is correct. (Error Code: 1)	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. (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. Please verify that the value you have provided is correct. (Error Code: 1)	Yes												
Comments																		
Attachments																		
Name										Type				Size				
MFWQTCoverletter112020.pdf										pdf				40382.0				
DischargeReportMorrisForman.pdf										pdf				15416.0				
MFWQTCMOR112020.pdf										pdf				129282.0				
Report Last Saved By																		
Morris Forman WQTC MSD																		
User:		kessel@louisvillemasd.org																
Name:		John Kessel																
E-Mail:		kessel@louisvillemasd.org																
Date/Time:		2020-12-16 12:25 (Time Zone: -05:00)																
Report Last Signed By																		
User:		kessel@louisvillemasd.org																
Name:		John Kessel																
E-Mail:		kessel@louisvillemasd.org																
Date/Time:		2020-12-16 12:28 (Time Zone: -05:00)																

DMR Copy of Record

Permit

Permit #:

KY0022411

Major:

Yes

Permittee:

Morris Forman WQTC MSD

Permittee Address:

700 W Liberty St
Louisville, KY 40203

Facility:

MORRIS FORMAN WQTC MSD

Facility Location:

4522 ALGONQUIN PKWY
LOUISVILLE, KY 40211

Permitted Feature:

001
External Outfall

Discharge:

001-B
SECONDARY BYPASS

Report Dates & Status

Monitoring Period:

From 11/01/20 to 11/30/20

DMR Due Date:

12/28/20

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:

James A.

Last Name:

Parrott

Title:

Executive Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form 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:

2020-12-16 12:25 (Time Zone: -05:00)

Report Last Signed By

User:

kessel@louisvillemSD.org





11/1/2020 12:00:00 AM to 11/30/2020 12:00:00 AM

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

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	46150	9801 BUNSEN PKY		CHENOWETH 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	3313765		11/05/2020	BIVIN	BIVIN	REPAIRED - ISSUE RESOLVED	11/05/2020	OBSTRUCTION- NOT GREASE / ROOTS	UNAUTHORIZED DISCHARGE- WATERS	11/05/20 11:28 AM	MAIN

Discharge Reporting:

Discharge Amount:	100 GAL
Cause:	GREASE AND RAGS WERE IN THE SEWER.
Clean Up:	MSD WILL CLEAN AREA.
Control Zone:	MSD ADVISED CUSTOMER TO AVOID SEWAGE CONTACT.
Impact:	OBSERVED DISCHARGE FROM MH# 56150.
Repair:	CLEANED MAIN SEWERS PLACED ONE DISCLEAN AND LOCATES ON TWO BURIED MANHOLES.
Public Notification:	ON SITE AND SIGNS IN AREA.

Notifications:

11/5/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
-----------------	--------	---

KPDES #
KY0022411

Facility ID
MSD0278

Water Quality Treatment Center
MORRIS FORMAN

Receiving Stream of Treatment Center
MIDDLE FORK BEAR GRASS

Region
WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	CSO166	2201 CROSS HILL RD		MIDDLE FORK BEAR GRASS	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISDW: DRY WEATHER DISCHARGE	3313896		11/05/2020	DAVIS BROWN	MITCHELL	REPAIRED - ISSUE RESOLVED	11/05/2020	OBSTRUCTION- NOT GREASE / ROOTS	UNAUTHORIZED DISCHARGE- WATERS	11/06/20 12:15 AM	MAIN

Discharge Reporting:

Discharge Amount:	24,792 GAL
Cause:	WATER MAIN BREAK AT CANNONS LANE.
Clean Up:	NONE REQUIRED. DISCHARGED INTO THE CREEK.
Control Zone:	CONTROL ZONE WAS NOT ESTABLISHED. THE PIPE DISCHARGES DIRECTLY TO CREEK.
Impact:	NONE OBSERVED. OVERFLOW NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	REPAIRS COMPLETED.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK, TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT.

Notifications:

11/6/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
-----------------	--------	---

Total Facilities Printed: 2

Total Work Orders Printed: 2

Format: Month/Day/Year
Enter Start Date : 11/1/20

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY November-20
KPDES PERMIT NO. KY0022411 PLANT CAPACITY - 120 MGD RECEIVING STREAM-OHIO RIVER

DATE	WASTEWATER FLOWS (Million Gallons)			TEMP (DEGF)		pH		SETS (M/L)		TSS (mg/L)		5-DAY BOD (mg/L)			RETURN SLUDGE			AERATION BASIN					ACTIVE		CHLORINATION			FINAL EFFLUENT	
															FLOW	TSS	TVSS	D.O	MLSS	MLVSS	SET	SVI	Sludge Wasted	Primary Sludge	Chlorine Dosage	Residual	Fecal Coliform	NH3-N	Pump.
												prim.			MG	g/L	g/L	mg/L	g/L	g/L			MG	MG	KLBS	mg/L	#/100 ml	mg/L	Hours
	Effluent	Sec. Effluent	Bypass	raw	final	raw	final	raw	final	raw	final	raw	final	final															
11/1/20	104.24	104.24	0.00	62	62	6.8	6.3	8	0.1	166	58	216	166	45	26.9	3.5	3.1	5.0	15.3	12.9	351	99	0.19	0.33	2.78	0.016	2200	0.4	0.0
11/2/20	86.36	86.36	0.00	59	59	7.2	6.2	6	0.1	197	16	272	179	12	26.0	4.5	3.9	5.1	15.0	13.1	428	96	0.54	0.47	2.78	0.016	104	2	0.0
11/3/20	70.50	70.50	0.00	64	64	7	6.5	9	0.1	305	16	374	255	13	26.3	6.5	5.7	4.9	15.1	13.1	524	93	0.37	0.75	2.34	0.016	81	6	0.0
11/4/20	66.09	66.09	0.00	65	65	6.9	6.4	9	0.1	330	32	480	276	20	26.6	5.2	4.6	6.7	15.0	13.4	637	122	0.37	0.51	1.87	0.016	154	8.5	0.0
11/5/20	65.81	65.81	0.00	68	68	7.2	6.5	8	0.1	256	21	370	215	14	26.4	5.4	4.8	5.6	15.0	13.2	592	88	0.36	0.64	1.73	0.016	77	9.4	0.0
11/6/20	61.08	61.08	0.00	67	67	7	6.6	11	0.1	436	9	456	265	6	26.9	4.1	3.7	6.2	14.0	12.3	470	113	0.27	0.58	1.73	0.016	25	13.1	0.0
11/7/20	54.91	54.91	0.00	68	68	7.1	6.5	10	0.1	335	29	363	241	12	26.6	4.3	3.8	5.8	13.8	12.0	559	131	0.07	0.00	1.44	0.016	24	10.7	0.0
11/8/20	53.55	53.55	0.00	69	69	7	6.6	9	0.1	260	39	279	214	18	26.9	4.9	4.3	6.0	13.3	11.7	589	119	0.10	0.29	1.31	0.016	4	10	0.0
11/9/20	55.74	55.74	0.00	70	70	6.9	6.6	10	0.1	328	74	369	291	39	26.9	4.9	4.3	5.3	12.8	11.2	610	125	0.29	0.67	1.43	0.016	10	15.1	0.0
11/10/20	58.13	58.13	0.00	73	73	6.9	6.5	11	0.1	332	34	451	355	20	27.0	4.9	4.3	5.7	13.1	11.5	573	117	0.49	0.51	1.72	0.016	4	16.1	0.0
11/11/20	83.16	80.77	2.39	67	67	7	6.6	25	1.5	460	168	443	291	88	26.9	3.7	3.3	6.1	13.6	11.9	473	127	0.22	0.58	1.72	0.016	225	13.4	0.0
11/12/20	57.57	57.57	0.00	66	66	7	6.5	8	0.1	252	18	492	379	11	26.7	5.5	4.9	4.8	14.3	12.7	583	108	0.26	0.64	1.76	0.016	880	9.8	0.0
11/13/20	54.72	54.72	0.00	65	65	6.8	6.4	9	0.1	343	14	586	400	12	26.9	5.6	5.0	5.2	14.4	12.7	718	88	0.25	0.33	1.76	0.016	560	10.8	0.0
11/14/20	56.19	56.19	0.00	65	65	6.8	6.4	9	0.1	325	130	517	354	83	27.1	5.8	5.1	5.2	14.1	12.6	719	88	0.07	0.00	1.57	0.016	177	7.8	0.0
11/15/20	139.02	106.45	32.57	63	63	7	6.3	10	31	284	530	266	280	206	23.4	3.7	3.4	2.0	14.1	12.7	509	135	0.06	0.27	4.66	0.016	297	8.2	0.0
11/16/20	70.21	70.21	0.00	62	62	7	6.5	8.5	0.1	268	70	279	244	35	27.7	4.3	3.8	6.6	13.5	11.9	516	120	0.26	0.62	4.66	0.016	200	7.2	0.0
11/17/20	59.78	59.78	0.00	64	64	7	6.5	8	0.1	368	76	390	238	22	27.6	6.4	5.4	5.6	13.4	11.4	644	100	0.33	0.72	1.76	0.016	400	12.2	0.0
11/18/20	56.78	56.78	0.00	62	62	7.1	6.6	10	0.1	345	45	490	306	22	27.5	5.0	4.2	5.8	13.4	11.3	676	137	0.37	0.50	1.44	0.016	174	15	0.0
11/19/20	65.41	65.41	0.00	64	64	7	6.6	12	0.2	412	114	662	360	51	27.4	5.2	4.5	5.7	13.9	11.8	633	121	0.45	0.57	2.04	0.016	147	13.5	0.0
11/20/20	71.69	71.69	0.00	66	66	7.3	6.5	13	0.2	487	73	438	253	36	27.6	5.2	4.7	5.3	14.2	12.5	474	90	0.22	0.18	2.04	0.016	347	9.1	0.0
11/21/20	60.16	60.16	0.00	66	66	7.1	6.4	12	1.1	340	112	579	371	58	26.0	5.0	4.4	6.5	14.1	12.4	623	124	0.01	0.00	2.01	0.016	137	9.9	0.0
11/22/20	76.22	76.02	0.20	66	66	6.9	6.4	12	16	400	310	274	186	144	27.4	6.1	5.3	6.9	15.1	13.2	654	111	0.06	0.16	2.53	0.016	77	6.2	0.0
11/23/20	57.77	57.77	0.00	63	63	7	6.5	9	0.1	300	66	458	315	42	27.2	5.6	5.0	5.7	14.2	12.3	637	114	0.40	0.72	2.53	0.016	37	7.9	0.0
11/24/20	57.82	57.82	0.00	64	64	7.2	6.5	9.5	0.1	320	68	501	310	36	27.2	3.9	3.4	5.6	14.9	13.1	773	208	0.41	0.63	1.57	0.016	219	11.8	0.0
11/25/20	196.00	118.82	77.18	60	60	7.1	6.4	25	35	380	524	262	200	232	27.1	4.6	4.1	2.3	14.4	12.7	403	88	0.38	0.57	4.79	0.016	198	11.4	0.0
11/26/20	108.16	107.13	1.03	61	61	7.2	6.6	4	0.2	118	63	150	97	25	27.1	3.3	2.8	4.9	12.9	11.1	348	106	0.11	0.06	4.79	0.016	94	3.6	0.0
11/27/20	74.17	74.17	0.00	62	62	7.4	6.7	4.5	0.2	142	54	205	73	26	27.0	3.5	3.0	6.4	12.1	10.6	472	137	0.11	0.43	2.05	0.016	10	6.3	0.0
11/28/20	62.57	62.57	0.00	60	60	7.4	6.8	5	0.1	152	36	206	80	20	27.2	4.6	4.0	6.5	11.6	10.1	507	113	0.07	0.00	1.49	0.016	6	12	0.0
11/29/20	61.74	61.74	0.00	60	60	7.2	6.8	6	0.1	174	45	199	149	26	27.0	4.6	3.9	6.3	11.7	10.2	511	113	0.10	0.11	1.19	0.016	39	12.8	0.0
11/30/20	174.25	133.59	40.66	57	57	7.1	6.6	9	13	193	264	174	146	163	26.6	2.8	2.3	6.7	12.3	10.5	326	114	0.25	0.70	4.54	0.016	1140	8.6	0.0
Sum	2319.80	2165.77	154.03												805.1								7.44	12.52					0.0
Average	77.33	72.19	25.67	60	60	7.1	6.5	10	3	300	104	373	250	51	26.8	4.8	4.2	5.5	13.8	12.1	551	115	0.25	0.42	2.33	0.016	97	9.6	

SEWER CONNECTIONS

148073 TIMES 4 =

592292 SEWER POPULATION

IND. WASTER POPULATION EQ

CUSTOMERS 387

FLOW 112322

BOD 563045

TSS 159695

Authorized Agent

Certification No. 26893

MORRIS FORMAN WASTEWATER TREATMENT PLANT

JEFFERSON COUNTY, KY

Month of

Nov-20

Average Flow	Primary	Secondary		
SETTLING TANKS		Battery A	Battery B	Battery C
Average Flow (MGD)	73.98	16.28	21.07	8.98
Tanks in Service	4.00	8.0	8.0	4.0
Surface Area (Ft.2)	77000.00	68983.98	68974.63	34423.11
Volume (MG)	8.33	7.07	7.07	3.53
Weir Length (Ft.)	2860.00	2859.05	2858.66	1426.67
Avg. Weir Overflow (GPD/Ft)	25868.70	5695.08	7371.66	6295.00
Avg. Settling Rate (GPD/Ft2)	960.84	407.52	450.50	406.69
Avg. Detention Time	2.70	10.42	8.05	9.42

AERATION TANKS		Battery A	Battery B	Battery C
Volume (Gallons)		4200000	4200000	2100000
Avg. Flow (MGD)		28.11	31.07	14.00
Avg. Detention Time (Hours)		6.19	4.78	5.61

CHLORINE CONTACT CHAMBERS

Contact Chambers in Use	2.0
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	1.72

Remarks: BY-PASS REPORTS (See Attached)