



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

November 18, 2022

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, 2022, 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, 30 Day Fecal, 7 Day Fecal, 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 2022 at Morris Forman.

Should you have any questions, please contact me at (502) 540-6765.

Sincerely,

James Skinner
Treatment Facilities Manager

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					
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
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
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
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
74055	Coliform, fecal general	1 - Effluent Gross	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
74055	Coliform, fecal general	1 - Effluent Gross	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

Comments**Attachments**

Name	Type	Size
Oct2022MorrisFormanDischarges.pdf	pdf	11239.0
MFWQTCMOR10022.pdf	pdf	119717.0
MFWQTCOct2022CoverLetter.pdf	pdf	46588.0

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

User: AJOP1117
 Name: Amber Pauly
 E-Mail: amber.pauly@louisvillemmsd.org
 Date/Time: 2022-11-18 08:45 (Time Zone: -05:00)

Report Last Signed By

User: SKINNER@LOUISVILLEMSD.ORG
 Name: James skinner
 E-Mail: james.skinner@louisvillemmsd.org
 Date/Time: 2022-11-18 09:12 (Time Zone: -05:00)

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 10/01/22 to 10/31/22	DMR Due Date:	11/28/22	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	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						=	205.0	=	205.0	19 - mg/L	0	02/30 - Twice 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						=	440.0	=	440.0	19 - mg/L	0	02/30 - Twice 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						=	374.0	=	374.0	19 - mg/L	0	02/30 - Twice 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						=	236.0	=	236.0	19 - mg/L	0	02/30 - Twice 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						=	13.4	=	13.4	19 - mg/L	0	02/30 - Twice 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						=	22.6	=	22.6	19 - mg/L	0	02/30 - Twice 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	=	4.9	=	4.9	03 - MGD					0	02/30 - Twice 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: AJOP1117
 Name: Amber Pauly
 E-Mail: amber.pauly@louisvillemSD.org
 Date/Time: 2022-11-18 08:34 (Time Zone: -05:00)

Report Last Signed By
 User: SKINNER@LOUISVILLEMSD.ORG

Name: James skinner
E-Mail: james.skinner@louisvillemsd.org
Date/Time: 2022-11-18 09:16 (Time Zone: -05:00)

Format: Month/Day/Year
 Enter Start Date : 10/1/22

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF October-22
 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	
																															MG
10/1/22	53.56	53.56	0.00	75	75	6.6	6.3	7.0	0.5	300	260	4.1	860	660	231	23	18.0	15.8	0.4	5.3	4.7	422	79	0.00	0.12	74.98	0.016	4	13.1	0.0	
10/2/22	51.00	51.00	0.00	77	77	6.7	6.3	9.0	0.3	320	172	3.8	587	436	448	19.8	18.9	16.4	2.4	5.2	4.5	400	76	0.00	0.10	78.79	0.016	1040	15.3	0.0	
10/3/22	53.11	53.11	0.00	75	75	6.6	6.3	10.0	5.0	336	444	3.1	393	317	226	25.3	19.5	17.5	0.4	5.3	4.7	422	80	0.35	0.31	83.36	0.016	12400	16.0	0.0	
10/4/22	52.95	52.95	0.00	75	75	6.8	6.3	10.0	3.0	412	400	4.2	537	324	229	26.1	19.4	16.9	0.3	4.9	4.3	443	90	0.41	0.27	87.64	0.016	47200	17.5	0.0	
10/5/22	52.88	52.88	0.00	75	75	6.7	6.3	5.0	0.6	445	325	4.1	457	398	198	26.0	19.0	16.5	0.3	6.4	5.5	426	67	0.38	0.22	89.32	0.016	476000	18.2	0.0	
10/6/22	56.83	56.83	0.00	76	76	6.6	6.3	12.0	2.0	390	330	6.1	602	476	177	26.1	18.2	16.0	0.5	5.2	4.7	387	75	0.23	0.16	6.51	0.016	50	16.3	0.0	
10/7/22	59.99	59.99	0.00	75	75	6.7	6.3	15.0	7.0	430	520	4.6	628	822	342	25.4	17.2	15.1	0.4	4.9	4.3	381	76	0.41	0.22	10.91	0.016	4	18.0	0.0	
10/8/22	51.09	51.09	0.00	73	73	6.7	6.4	10.5	7.5	390	470	6.3	644	602	247	25.6	18.7	16.5	0.9	5.4	4.8	389	71	0.00	0.06	14.73	0.016	20	13.2	0.0	
10/9/22	51.12	51.12	0.00	71	71	6.8	6.3	10.0	8.0	307	515	4.3	458	566	253	25.6	21.1	18.5	0.4	5.4	4.9	417	79	0.00	0.01	18.49	0.016	9900	8.5	0.0	
10/10/22	53.66	53.66	0.00	73	73	7.0	6.5	10.0	0.9	332	276	6.0	395	361	219	25.3	21.2	18.9	0.7	5.8	5.2	426	72	0.18	0.24	23.12	0.016	20	9.8	0.0	
10/11/22	56.06	56.06	0.00	73	73	6.8	6.3	15.0	1.5	472	352	4.1	690	584	238	24.9	20.8	18.3	0.7	5.6	5.0	426	75	0.18	0.26	27.78	0.016	7	13.9	0.0	
10/12/22	58.31	58.31	0.00	75	75	6.8	6.4	13.0	5.0	405	405	4.2	796	660	319	24.5	20.6	18.5	0.4	6.2	5.6	447	71	0.24	0.15	32.44	0.016	60000	15.0	0.0	
10/13/22	54.65	54.65	0.00	73	73	7.0	6.4	15.0	6.0	516	268	4.0	768	708	284	25.2	20.9	19.4	0.4	4.9	4.5	389	78	0.28	0.22	37.54	0.016	9430	16.6	0.0	
10/14/22	58.06	58.06	0.00	71	71	6.7	6.3	15.0	1.0	440	344	3.4	637	737	326	25.3	20.3	17.9	0.4	5.3	4.7	403	75	0.32	0.18	41.75	0.016	7	16.5	0.0	
10/15/22	51.35	51.35	0.00	71	71	6.9	6.2	12.0	0.4	410	265	3.8	728	530	263	25.3	19.6	17.1	0.5	6.1	5.3	440	72	0.00	0.11	45.91	0.016	60000	13.8	0.0	
10/16/22	52.17	52.17	0.00	73	73	6.7	6.3	10.5	0.5	340	324	3.9	712	605	224	25.5	22.4	19.8	0.4	7.3	6.5	479	65	0.00	0.14	49.93	0.016	4160	11.8	0.0	
10/17/22	53.83	53.83	0.00	71	71	6.8	6.3	10.5	7.0	308	600	6.0	555	603	273	25.6	19.4	17.1	0.6	5.9	5.2	436	74	0.28	0.14	53.51	0.016	20	11.8	0.0	
10/18/22	47.30	47.30	0.00	69	69	6.8	6.3	8.0	0.4	312	248	3.8	539	396	167	25.8	17.5	15.6	1.1	5.1	4.6	433	85	0.52	0.07	57.96	0.016	20	13.6	0.0	
10/19/22	48.23	48.23	0.00	67	67	6.7	6.3	15.0	0.3	432	232	4.0	855	508	147	25.9	17.3	15.3	0.8	5.3	4.6	394	76	0.20	0.25	62.04	0.016	4	15.5	0.0	
10/20/22	53.88	53.88	0.00	63	63	6.6	6.4	14.0	6.5	484	493	3.4	776	580	186	25.2	18.3	16.4	0.5	5.1	4.7	461	92	0.04	0.34	64.92	0.016	60000	14.8	0.0	
10/21/22	56.37	56.37	0.00	70	70	6.6	6.3	12.0	0.4	392	356	3.5	876	589	223	25.3	17.7	15.8	0.4	5.3	4.8	466	89	0.51	0.33	67.29	0.016	40	16.1	0.0	
10/22/22	28.64	28.64	0.00	71	71	6.7	6.2	13.0	7.0	430	520	6.3	874	608	370	26.2	18.8	16.7	0.7	5.6	5.0	443	81	0.00	0.04	2.99	0.016	26000	16.0	0.0	
10/23/22	52.56	52.56	0.00	73	73	7.0	6.2	13.0	3.5	424	405	6.0	519	358	256	26.2	18.6	16.5	0.6	4.9	4.4	448	92	0.00	0.04	6.36	0.016	6580	7.8	0.0	
10/24/22	50.38	50.38	0.00	73	73	6.7	6.3	9.0	0.5	450	313	3.7	1120	349	185	26.2	18.5	17.0	1.8	4.8	4.4	454	98	0.39	0.24	7.37	0.016	4	7.4	0.0	
10/25/22	61.12	61.08	0.04	73	73	6.5	6.4	13.0	10.0	475	475	3.9	608	551	260	27.7	16.3	14.4	1.0	4.3	3.8	401	96	0.81	0.32	8.62	0.016	4	20.2	0.0	
10/26/22	100.87	91.20	9.67	72	72	6.7	6.2	15.0	1.5	940	272	4.2	495	328	149	26.8	16.7	15.1	2.7	4.1	3.6	281	71	0.44	0.31	13.73	0.016	4	6.6	0.0	
10/27/22	51.36	51.36	0.00	66	66	6.8	6.6	10.0	0.1	585	86	3.8	942	574	172	25.5	16.3	14.7	1.1	4.3	3.9	387	90	1.04	0.31	17.85	0.016	100	9.2	0.0	
10/28/22	55.31	55.31	0.00	68	68	6.6	6.2	14.0	0.1	580	84	3.7	851	549	229	25.3	17.0	14.9	0.6	4.8	4.2	369	76	0.86	0.33	22.03	0.016	4	18.4	0.0	
10/29/22	53.18	53.18	0.00	72	72	6.7	6.2	12.0	1.0	788	128	3.8	842	618	235	26.6	19.2	16.9	0.8	7.9	6.9	434	55	0.00	0.33	26.75	0.016	116	11.3	0.0	
10/30/22	76.64	76.64	0.00	71	71	6.7	6.2	11.0	5.5	655	410	4.1	629	552	329	26.4	18.1	15.9	1.4	4.6	4.2	422	91	0.00	0.27	31.54	0.016	5600	9.4	0.0	
10/31/22	96.34	96.34	0.00	75	75	6.8	6.1	7.0	0.9	304	236	6.3	393	189	171	25.4	17.5	15.4	5.1	3.7	3.2	266	73	0.19	0.19	34.97	0.016	180	2.1	0.0	
Sum	1752.82	1743.11	9.71												789.0										8.27	8.29					0.0
Average	56.54	56.23	4.86	72	72	6.7	6.3	11.5	3.0	445	340	4.4	670	521	244	25.5	18.8	16.7	0.9	5.3	4.7	413	79	0.27	0.20	38.75	0.016	285	13.3		

SEWER CONNECTIONS 148469 TIMES 4 = IND. WASTER POPULATION EQ
 CUSTOMERS 406
 FLOW -55375
 BOD 1264287
 TSS 408045

Authorized Agent

Certification No. 29841

MORRIS FORMAN WASTEWATER JEFFERSON COUNTY, KY

Month of Oct-22

Average Flow

SETTLING TANKS	Primary	Secondary		
	Battery A	Battery B	Battery C	

Average Fl	56.54	13.77	10.94	6.94
Tanks in Se	4.00	6.6	8.0	4.0
Surface Are	77000.00	56723.73	69194.79	34600.00
Volume (M	8.33	5.81	7.09	3.54
Weir Lengt	2860.00	2350.92	2867.78	1434.00
Avg. Weir C	19770.13	5855.89	3816.19	4838.56
Avg. Settlin	734.32	431.51	315.15	312.01
Avg. Deten	3.54	10.13	15.54	12.26

AERATION TANKS

	Battery A	Battery B	Battery C
Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	24.48	21.81	10.80
Avg. Detention Time (h)	7.32	9.21	7.26

CHLORINE CONTACT CHAMBERS

Contact Ch	2.0
Volume (G)	2337211
Avg. Deten	2.04

Remarks: BY-PASS REPORTS (See Attached)



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

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Station	Receiving Stream	Discharge To
Sewer Manhole	48681	4545 TAYLORSVILLE RD	MORRIS FORMAN	SOUTH FORK BEARGRASS CREEK	GROUND

Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISDW: DRY WEATHER DISCHARGE	3576058		10/22/2022 7:00:00 PM	BOWLIN JR		REPAIRED - ISSUE RESOLVED	10/22/2022 12:00:00 AM	OBSTRUCTION-NOT GREASE / ROOTS	UNAUTHORIZED DISCHARGE-WATERS	10/22/22 08:00 PM	MAIN

Discharge Reporting:

Discharge Amount:	1 GAL
Cause:	UNKNOWN OBSTRUCTION IN THE MAIN SEWER.
Clean Up:	REFERRED TO AREA SUPERVISOR FOR DISCLN.
Control Zone:	SECURED THE AREA WITH STAKE AND TAPE. ALSO PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	SEWAGE/ DEBRIS AROUND THE MANHOLE.
Repair:	FLUSHED THE MAIN TO REMOVE OBSTRUCTION; #3576070.
Public Notification:	ADVISED CUSTOMER ON SITE.

Notifications:

10/23/22 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
------------------	--------	---