



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

September 20, 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

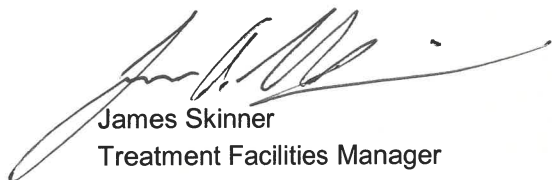
Dear Ms. Dennis:

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 August 1st through August 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

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 08/01/22 to 08/31/22	DMR Due Date:	09/28/22	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						=	103.0	=	206.0	19 - mg/L	0	10/30 - Ten 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						=	210.0	=	347.0	19 - mg/L	0	10/30 - Ten 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						=	140.0	=	216.0	19 - mg/L	0	10/30 - Ten 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						=	103.0	=	122.0	19 - mg/L	0	10/30 - Ten 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						=	6.6	=	11.3	19 - mg/L	0	10/30 - Ten 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						=	10.2	=	10.5	19 - mg/L	0	10/30 - Ten 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	=	31.4	=	54.7	03 - MGD					0	10/30 - Ten 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@louisvillemgd.org
 Date/Time: 2022-09-21 11:17 (Time Zone: -04:00)

Report Last Signed By
 User: SKINNER@LOUISVILLEMSD.ORG

Name: James skinner
E-Mail: james.skinner@louisvillemsd.org
Date/Time: 2022-09-21 13:25 (Time Zone: -04:00)

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					
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 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
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
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

Comments**Attachments**

Name	Type	Size
Coverletter082022.Pdf	pdf	83231.0
MOR082022MFWQTC.Pdf	pdf	233228.0

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

User: AJOP1117
 Name: Amber Pauly
 E-Mail: amber.pauly@louisvillemmsd.org
 Date/Time: 2022-09-21 11:21 (Time Zone: -04:00)

Report Last Signed By

User: SKINNER@LOUISVILLEMSD.ORG
 Name: James skinner
 E-Mail: james.skinner@louisvillemmsd.org
 Date/Time: 2022-09-21 13:22 (Time Zone: -04:00)

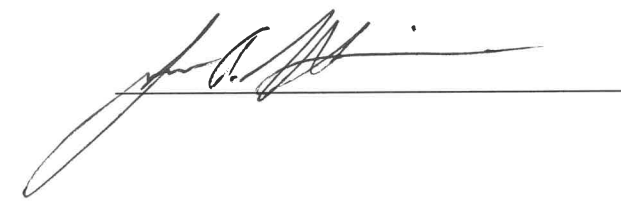
Format: Month/Day/Year
 Enter Start Date : 8/1/22

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF August-22
 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)		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/L
8/1/22	173.06	136.34	36.72	79	79	7.1	6.6	2.5	0.3	112	56	5.3	88	52	44	21.0	14.3	11.8	18.7	2.0	1.7	141	70	0.79	0.52	25.57	0.016	400	5.1	0.0	
8/2/22	110.72	110.54	0.18	79	79	7.1	6.6	5.9	0.1	208	25	4.7	173	139	24	21.0	13.7	11.2	15.9	2.4	2.0	140	58	0.64	0.49	28.41	0.016	30	8.1	0.0	
8/3/22	89.43	89.43	0.00	80	80	7.1	6.5	7.0	0.1	180	34	6.3	220	203	26	21.0	12.7	10.5	8.5	2.7	2.2	171	63	0.77	0.62	30.83	0.016	30	11.1	0.0	
8/4/22	87.23	87.23	0.00	82	82	7.1	6.5	6.7	0.1	188	31	6.0	322	273	24	21.5	12.7	10.7	5.3	2.8	2.4	211	74	0.36	0.41	33.22	0.016	4	10.5	0.0	
8/5/22	172.20	124.92	47.28	79	79	7.1	6.5	7.0	0.5	260	68	5.8	190	126	50	21.1	11.2	9.4	7.5	2.9	2.4	190	66	0.46	0.33	38.53	0.016	144	5.2	0.0	
8/6/22	113.06	103.61	9.45	79	79	7.1	6.3	6.5	0.1	274	40	6.1	284	225	33	20.7	12.2	10.2	6.4	2.5	2.0	200	81	0.86	0.41	41.67	0.016	4	5.1	0.0	
8/7/22	84.99	84.99	0.00	81	81	6.9	6.7	8.0	0.1	236	35	4.1	449	299	40	20.9	17.4	14.9	1.3	2.9	2.5	220	78	0.86	0.06	44.50	0.016	4	4.2	0.0	
8/8/22	65.32	65.32	0.00	83	83	6.8	6.3	9.8	0.1	444	49	6.6	485	369	126	21.1	20.3	17.5	0.5	3.7	3.2	253	70	0.77	0.44	47.71	0.016	168	5.1	0.0	
8/9/22	74.69	74.69	0.00	83	83	6.9	6.3	7.5	0.1	228	46	6.5	359	261	66	21.5	12.7	11.1	1.1	4.2	3.7	261	65	0.41	0.23	51.22	0.016	156	3.3	0.0	
8/10/22	119.47	90.11	29.36	79	79	6.8	6.2	7.5	1.9	306	210	7.1	350	247	145	21.2	17.4	15.3	2.1	5.3	4.6	290	64	0.90	0.67	5.19	0.016	26	8.5	0.0	
8/11/22	211.29	131.34	79.95	81	81	7.0	6.4	4.0	0.4	168	60	4.1	236	145	63	20.5	18.4	15.9	9.4	2.5	2.2	172	70	0.88	0.62	11.95	0.016	4	2.4	0.0	
8/12/22	111.84	111.84	0.00	79	79	6.9	6.4	3.0	0.1	180	33	4.5	222	157	32	21.4	18.0	15.4	4.1	3.0	2.6	233	81	0.41	0.12	16.38	0.016	52	2.2	0.0	
8/13/22	82.54	82.54	0.00	80	80	6.8	6.4	5.5	0.1	200	25	5.4	484	335	32	21.2	19.1	16.4	3.5	3.9	3.4	322	85	1.06	0.35	19.02	0.016	180	4.0	0.0	
8/14/22	78.15	78.15	0.00	80	80	6.8	6.8	8.5	0.1	220	33	4.7	378	279	46	21.4	16.8	14.8	1.3	4.3	3.8	327	79	0.75	0.52	21.74	0.016	8	6.2	0.0	
8/15/22	80.62	80.62	0.00	81	81	6.9	6.2	9.2	0.1	272	43	5.2	352	214	48	21.4	16.4	14.4	2.7	3.3	2.9	310	96	0.81	0.36	21.74	0.016	4	6.3	0.0	
8/16/22	73.74	73.74	0.00	81	81	6.8	6.3	9.9	0.1	253	33	5.0	373	298	36	22.3	16.4	14.5	2.9	4.8	4.2	373	80	0.78	0.57	4.20	0.016	36	11.9	0.0	
8/17/22	73.13	73.13	0.00	80	80	6.5	6.4	10.1	0.1	434	37	5.7	828	386	148	22.5	16.8	14.7	1.7	4.2	3.7	361	87	0.59	0.56	7.32	0.016	4	14.8	0.0	
8/18/22	69.09	69.09	0.00	80	80	6.6	6.2	10.3	0.1	380	40	4.4	460	421	147	22.4	16.9	15.1	0.7	4.4	3.9	399	92	0.54	0.54	12.52	0.016	100	10.5	0.0	
8/19/22	69.43	69.43	0.00	82	82	6.7	6.2	12.5	0.1	368	39	4.1	529	341	76	22.3	14.2	12.6	1.3	4.1	3.6	399	98	0.93	0.57	17.90	0.016	4	11.5	0.0	
8/20/22	68.16	68.16	0.00	80	80	6.7	6.8	9.5	0.1	364	56	4.9	1180	934	333	21.9	16.5	14.7	0.8	5.0	4.5	391	81	1.02	0.58	23.45	0.016	33	20.6	0.0	
8/21/22	103.64	81.47	22.17	81	81	6.7	6.1	8.1	0.9	345	216	3.3	445	347	206	22.5	15.9	14.3	0.4	4.0	3.6	333	83	0.00	0.19	28.83	0.016	1200	11.3	0.0	
8/22/22	107.02	93.80	13.22	81	81	6.9	6.3	5.1	0.1	206	112	6.1	326	343	92	22.6	17.5	15.6	1.5	4.0	3.6	299	75	0.00	0.07	30.72	0.016	4100	0.9	0.0	
8/23/22	65.21	65.21	0.00	80	80	6.7	6.1	9.9	0.1	310	71	5.1	599	489	91	22.3	16.8	14.9	1.1	5.9	5.2	413	77	0.03	0.05	4.93	0.016	26	3.3	0.0	
8/24/22	63.53	63.53	0.00	81	81	6.7	6.3	9.8	0.1	376	144	4.7	562	392	152	23.7	19.0	16.9	0.9	4.5	4.1	413	91	0.13	0.16	9.05	0.016	680	10.6	0.0	
8/25/22	63.94	63.94	0.00	78	78	6.6	6.2	10.1	0.1	360	124	4.2	725	561	286	23.7	18.2	16.3	0.2	4.3	3.8	467	109	0.32	0.25	13.55	0.016	30	14.8	0.0	
8/26/22	63.52	63.52	0.00	82	82	6.7	6.2	10.0	0.1	424	176	6.6	615	432	230	23.8	16.2	14.4	0.2	5.1	4.5	419	83	0.24	0.25	17.59	0.016	60000	14.5	0.0	
8/27/22	61.07	61.07	0.00	82	82	6.9	6.1	10.0	3.0	276	336	4.3	480	407	228	24.0	17.8	15.9	0.2	5.9	5.2	447	79	0.00	0.06	21.06	0.016	60000	11.9	0.0	
8/28/22	59.98	59.98	0.00	83	83	6.7	6.1	10.0	0.3	328	292	6.0	493	333	393	24.1	18.7	16.7	0.3	4.6	4.0	469	103	0.00	0.07	24.19	0.016	100000	8.7	0.0	
8/29/22	94.40	74.65	19.75	84	84	6.8	6.2	9.9	3.6	380	412	4.0	317	299	215	23.6	16.4	14.5	0.5	4.5	4.0	423	94	0.27	0.12	30.62	0.016	60000	13.0	0.0	
8/30/22	184.81	128.59	56.22	81	81	6.7	6.1	4.5	0.7	232	204	2.2	261	178	154	23.1	16.8	14.7	1.0	2.6	2.3	208	78	0.37	0.23	35.94	0.016	240000	5.3	0.0	
8/31/22	84.19	84.19	0.00	80	80	6.8	6.4	5.2	0.1	252	70	4.1	323	225	90	23.0	17.6	15.3	0.3	3.6	3.1	293	82	0.56	0.38	37.89	0.016	20	10.1	0.0	
Sum	2959.47	2645.17	314.30													684.7								16.53	10.80						0.0
Average	95.5	85.3	31.4	81	81	6.8	6.3	7.9	0.4	283	102	5	423	313	119	22	16.3	14.2	3.3	3.9	3.4	308	80	0.53	0.35	24.43	0.016	136	8.4		

SEWER CONNECTIONS 148453 TIMES 4 = 593812 SEWER POPULATION IND. WASTER POPULATION EQ CUSTOMERS 405
 FLOW 332317
 BOD 1466453
 TSS 508844

Author ized Agent



Certification No. 29841

MORRIS FORMAN WASTEWATER JEFFERSON COUNTY, KY

Month of Aug-22

Average Flow

SETTLING TANKS	Primary	Secondary		
	Battery A	Battery B	Battery C	

Average Fl	97.24	29.59	25.57	8.97
Tanks in Se	4.00	6.0	7.8	4.0
Surface Are	77000.00	51934.33	67456.24	34351.60
Volume (M	8.33	5.32	6.91	3.52
Weir Leng	2860.00	2152.42	2795.73	1423.71
Avg. Weir (34001.24	13746.07	9144.64	6303.03
Avg. Settli	1262.90	722.12	526.15	382.98
Avg. Deten	2.06	4.32	6.49	9.41

AERATION TANKS	Battery A	Battery B	Battery C
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Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	37.50	35.49	13.16
Avg. Detention Time (t)	3.41	3.94	5.62

CHLORINE CONTACT CHAMBERS

Contact Ch	2.0
Volume (G)	2340000
Avg. Deten	0.95

Remarks: BY-PASS REPORTS (See Attached)