



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

September 15, 2025

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) Report for the reporting period August 1st through August 31st, 2025, are provided through NetDMR. The Morris Forman Water Quality Treatment Center (MFWQTC) did not meet permit for 30-day TSS and BOD, 7-day TSS and BOD, 7 Day Fecal Coliform and TSS and BOD percent removal reporting requirements.

MSD operates solids dewatering at both Hite Creek and Derek Guthrie WQTC's. Overall, this has reduced the solids loading to the Morris Forman plant. However, compromised solids handling equipment at Morris Forman continue to contribute to our effluent exceedances. Morris Forman currently has several process improvement projects in progress. The Dryer replacement project has been completed. A Dissolved Air Flotation Thickening (DAFT) rehabilitation project has been awarded. Demolition continues to make way for the Thermal Hydrolysis Process (THP), and due to the Primary Sedimentation Project, Sedimentation Basins 1 and 2 have taken out of service for the installation of new valves, gates, and bridges.

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

Sincerely,



James Skinner
Director of Treatment Facilities

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the [NPDES eReporting Help Desk](#) for further guidance. Please note that EPA may contact you after you submit this report for more information.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit			
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

Report Dates & Status			
Monitoring Period:	From 08/01/25 to 08/31/25	DMR Due Date:	09/28/25
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
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						=	0.0	=	0.0	19 - mg/L	0	01/30 - Monthly WH/DS - When Discharging	CP - Composite CP - Composite			
					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						=	0.0	=	0.0	19 - mg/L	0	01/30 - Monthly WH/DS - When Discharging	CP - Composite CP - Composite			
					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						=	0.0	=	0.0	19 - mg/L	0	01/30 - Monthly WH/DS - When Discharging	CP - Composite CP - Composite			
					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						=	0.0	=	0.0	19 - mg/L	0	01/30 - Monthly WH/DS - When Discharging	CP - Composite CP - Composite			
					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						=	0.0	=	0.0	19 - mg/L	0	01/30 - Monthly WH/DS - When Discharging	CP - Composite CP - Composite			
					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						=	0.0	=	0.0	19 - mg/L	0	01/30 - Monthly WH/DS - When Discharging	CP - Composite CP - Composite			
					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	=	0.0	=	0.0	03 - MGD						0	01/30 - Monthly WH/DS - When Discharging	CN - Continuous CN - Continuous			
					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: BURCH@LOUISVILLEMSD.ORG
Name: Robin Burch
E-Mail: robin.burch@louisvillemmsd.org
Date/Time: 2025-09-16 11:06 (Time Zone: -04:00)

Report Last Signed By

User: SKINNER@LOUISVILLEMSD.ORG
Name: James skinner
E-Mail: james.skinner@louisvillemmsd.org
Date/Time: 2025-09-18 09:11 (Time Zone: -04:00)

Format: Month/Day/Year
 Enter Start Date : 8/1/25

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF Aug 25
 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	Sec.	Bypass	raw	final	raw	final	raw	final	raw	final	final	raw	prim.	final	final	FLOW	TSS	TVSS	D.O.	MLSS	MLVSS	SET	SVI	Sludge Wasted	Primary Sludge	Chlorine Dosage	Resid	Fecal Coliform	NH3-N	Pump.
	Effluent	Effluent															MG	g/L	g/L	mg/L	g/L	g/L			MG	MG	KLBS	mg/L	#/100 ml	mg/L	Hours
8/1/25	57.03	57.03	0.00	79	79	7	6.6	7.5	0.8	342	22	5.1	359	314	35	20.3	24.7	18.7	0.8	5.9	13.7	314	48	0.249259	0.130744	2.62	0.016	224	18.6	0	
8/2/25	50.87	50.87	0.00	77	77	7.2	6.7	6	0.1	209	20	4.1	248	173	34	20.2	25.1	19.1	0.9	6.2	14.3	301	49	-0.003338	0.158531	2.52	0.016	112	15.5	0	
8/3/25	51.33	51.33	0.00	77	77	7.2	6.5	3	0.1	124	26	5.3	187	186	28	20.2	22.6	17.4	3.8	5.8	13.4	317	51	0.000603	0.128759	2.68	0.016	112	13.8	0	
8/4/25	55.75	55.75	0.00	77	77	7.3	6.5	3.5	0.3	160	44	5.9	249	220	28	18.4	26.1	19.8	6.7	6.0	13.6	400	52	0.495115	0.119618	2.91	0.016	92	20.3	0	
8/5/25	63.27	63.27	0.00	79	79	7.1	6.6	10	0.1	547	53	5.7	407	400	21	18.2	22.6	17.3	5.5	6.0	13.8	381	52	0.360912	0.133288	3.27	0.016	104	22.30	0	
8/6/25	75.19	75.19	0.00	79	79	7	6.4	4	3	437	233	6.7	392	418	134	12.6	24.4	18.7	9.7	3.5	8.1	460	56	0.309459	0.056387	3.94	0.016	125	11.3	0	
8/7/25	59.84	59.84	0.00	78	78	7	6.5	2.5	4.5	528	332	5.9	385	382	102	7.8	28.5	23.9	6.4	3.0	4.3	162	58	0.250303	0.106082	2.99	0.016	240	9.4	0	
8/8/25	63.66	63.66	0.00	78	78	6.8	6.4	2	2	407	680	6.0	530	486	219	7.7	29.2	22.9	6.3	4.0	6.4	162	56	0.301925	0.134721	3.21	0.016	236	13.0	0	
8/9/25	52.44	52.44	0.00	78	78	7	6.6	1	2	186	385	5.3	442	428	222	8.1	24.7	19.3	2.7	3.4	5.4	185	55	0.000655	0.137733	2.76	0.016	3600	13.9	0	
8/10/25	52.66	52.66	0.00	78	78	7.2	6.5	4	0.5	187	180	6.1	196	178	74	8.0	28.7	22.9	2.3	3.0	4.7	182	55	0.000654	0.123482	2.84	0.016	600	6.8	0	
8/11/25	54.28	54.28	0.00	79	79	7.1	6.4	5	1.5	303	344	4.9	237	292	106	7.5	17.6	13.9	3.3	5.4	8.5	175	52	0.237262	0.083873	2.73	0.016	188	11.2	0	
8/12/25	57.14	57.14	0.00	80	80	7	6.6	4	3.5	283	340	5.3	308	293	117	7.5	29.4	23.5	2.9	3.9	6.2	167	49	0.353824	0.090514	2.88	0.016	1040	19.9	0	
8/13/25	64.50	64.50	0.00	79	79	6.8	6.6	7.5	9	336	516	6.6	423	334	188	7.4	18.3	14.6	3.8	3.6	5.8	152	46	0.244816	0.094214	3.65	0.016	2180	20.7	0	
8/14/25	55.14	55.14	0.00	79	79	6.8	6.6	14	3	420	276	6.5	347	292	121	7.4	20.8	16.6	5.1	3.5	5.4	163	45	0.317212	0.126577	3.37	0.016	840	18.1	0	
8/15/25	51.58	51.58	0.00	80	80	6.8	6.6	10	1	422	188	4.1	371	278	114	7.6	20.1	16.4	2.7	4.1	6.4	152	44	0.298533	0.127103	3.67	0.016	144	15.2	0	
8/16/25	48.26	48.26	0.00	79	79	7.1	6.4	7.5	1.7	242	218	6.1	285	305	134	8.1	27.5	22.7	4.3	3.7	5.9	158	43	0.000632	0.053346	3.69	0.016	100	7.5	0	
8/17/25	48.76	48.76	0.00	77	77	7.2	6.3	6	0.5	167	102	6.5	233	225	68	8.3	24.4	20.0	8.2	3.2	5.2	153	41	0.000626	0.122867	3.52	0.016	13	4.4	0	
8/18/25	49.77	49.77	0.00	79	79	7.1	6.4	6	0.1	236	67	6.3	382	262	68	8.1	20.9	17.4	4.8	3.3	5.4	177	44	0.082832	0.159004	3.07	0.016	94	10.8	0	
8/19/25	55.17	55.17	0.00	80	80	7	6.5	8.5	0.5	347	160	6.8	376	343	96	7.6	28.5	23.5	2.3	3.0	5.1	172	47	0.264228	0.093539	3.44	0.016	124	18.0	0	
8/20/25	66.81	66.81	0.00	79	79	7	6.5	6	1.5	312	236	5.5	265	219	104	7.6	24.5	20.5	4.8	3.3	5.6	138	47	0.315696	0.057985	3.97	0.016	33	11.8	0	
8/21/25	64.85	64.85	0.00	78	78	6.9	6.4	1.5	0.7	354	207	5.2	344	329	72	7.6	32.8	27.1	2.7	2.0	3.2	145	50	0.243273	0.067658	3.85	0.016	52	15.0	0	
8/22/25	57.10	57.10	0.00	78	78	6.8	6.7	7.5	1	320	220	4.5	436	359	103	8.7	31.4	25.9	3.1	3.0	5.0	142	52	0.174093	0.109087	3.40	0.016	30	18.4	0	
8/23/25	51.64	51.64	0.00	77	77	7	6.5	6.5	0.5	217	188	4.8	251	274	110	10.1	26.8	22.3	2.0	8.1	13.4	205	49	0.000602	0.108198	3.07	0.016	128	11.6	0	
8/24/25	52.54	52.54	0.00	78	78	7	6.4	1	1.6	170	192	3.9	218	232	93	9.9	27.6	23.3	2.4	3.6	6.0	195	50	0.000576	0.147112	3.00	0.016	12	5.5	0	
8/25/25	51.95	51.95	0.00	72	72	7	6.5	6	0.1	244	66	5.3	356	300	61	9.5	21.8	17.9	3.8	4.0	6.2	183	49	0.350828	0.140621	2.90	0.016	42	13.2	0	
8/26/25	51.31	51.31	0.00	75	75	7	6.5	5.5	0.1	356	54	4.0	384	285	56	9.6	34.9	28.6	2.4	6.3	10.2	164	44	0.433318	0.159124	2.63	0.016	33	20.3	0	
8/27/25	50.72	50.72	0.00	75	75	6.9	6.5	1.7	0.1	213	94	5.2	331	260	55	10.0	26.7	21.7	2.8	4.4	7.1	148	44	0.223616	0.158542	2.61	0.016	55	19.6	0	
8/28/25	49.99	49.99	0.00	75	75	6.9	6.6	4	0.1	384	212	6.4	678	361	47	10.3	24.7	20.5	2.6	4.0	6.8	205	41	0.121965	0.087724	2.64	0.016	75	21.0	0	
8/29/25	48.91	48.91	0.00	76	76	6.8	6.5	7.4	1.2	484	200	3.2	437	298	81	10.3	25.0	20.4	3.1	3.8	6.2	187	42	0.000548	0.034526	2.90	0.016	44	18.3	0	
8/30/25	45.33	45.33	0.00	78	78	6.9	6.5	6.2	0.3	308	127	5.3	298	267	58	8.9	27.0	21.9	10.9	4.9	7.9	200	44	0.000546	0.000000	3.06	0.016	10	13.9	0	
8/31/25	44.38	44.38	0.00	75	75	7.1	6.6	6	0.3	243	88	6.1	232	245	53	8.3	27.4	22.2	8.5	3.4	2.9	197	44	0.000542	0.000000	2.75	0.016	26	13.5	0	
SUM	1702.2	1702.2	0.00													321.8								5.63	3.25					0.0	
Average	54.9	54.9	0.00	78	78	7.0	6.5	5.5	1.3	306	196	5.4	342	298	90	10.4	25.6	20.7	4.2	4.2	7.5	207.8	48	0.18	0.10	3.11	0.016	109	14.6		

SEWER CONNECTIONS 148624 TIMES 4 = 148537
 594496 SEWER POPULATION
 IND. WASTER POPULATION EQ
 CUSTOMERS 405
 FLOW 405 67829
 BOD 325456.17
 TSS 72920.038

Authorized Agent

Certification No. 29841

MORRIS FORMAN WASTEWATER TREATMENT PLANT

JEFFERSON COUNTY, KY

Month of Aug-25

Average Flow

SETTLING TANKS	Primary	Secondary		
		Battery A	Battery B	Battery C
Average Flow (MGD)	54.91	0.00	28.95	16.45
Tanks in Service	2.00	0.0	7.8	4.0
Surface Area (Ft.2)	38500.00	0.00	67488.61	34600.00
Volume (MG)	4.17	0.00	6.91	3.54
Weir Length (Ft.)	1430.00	0.00	2797.07	1434.00
Avg. Weir Overflow (GPD/Ft)	38397.32	0.00	10348.48	11474.05
Avg. Settling Rate (GPD/Ft2)	1426.19	0.00	544.39	497.55
Avg. Detention Time	1.82	0.00	5.73	5.17

AERATION TANKS

	Battery A	Battery B	Battery C
Volume (Gallons)	0	4200000	2100000
Avg. Flow (MGD)	0.00	36.74	17.22
Avg. Detention Time (Hours)	0.00	3.48	3.06

CHLORINE CONTACT CHAMBERS

Contact Chambers in Use	2.0
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	0.51

Remarks: BY-PASS REPORTS (See Attached)



KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Discharge	Region
KY0022411	WQTCMF	MORRIS FORMAN WQTC	OHIO RIVER	JEFFERSON

Facility Type	Facility ID	Facility Address	Receiving Stream	Discharge To
Sewer Manhole	16649	1726 FRASER DR	SOUTH FORK BEARGRASS CREEK	DITCH

Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	3980804		8/5/2025 7:30:00 PM	DAVIS BROWN	HENDERSON SR	DOCUMENTED	1/24/2002 12:00:00 AM	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATERS	08/05/25 09:00 PM	MAIN

Discharge Reporting:

Discharge Amount:	5,000 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.
Control Zone:	CONTROL ZONE WAS NOT ESTABLISHED DUE TO THE SIZE OF THE CREEK AND DIFFICULTY ACCESSING DISCHARGE AREAS.
Impact:	NONE OBSERVED OVERFLOW NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.
Public Notification:	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT.

Notifications:

8/6/25 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
8/6/25 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION