



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

December 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 November 1st through November 30th, 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.

\*\*We experienced a PI data logging error, which caused some of the flow data for 11/20/22 to 11/28/22 to log the same number repeatedly. This data was unrecoverable.

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. <b>Please verify that the value you have provided is correct.</b>	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. <b>Please verify that the value you have provided is correct.</b>	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. <b>Please verify that the value you have provided is correct.</b>	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. <b>Please verify that the value you have provided is correct.</b>	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. <b>Please verify that the value you have provided is correct.</b>	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. <b>Please verify that the value you have provided is correct.</b>	Yes
74055	Coliform, fecal general	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. <b>Please verify that the value you have provided is correct.</b>	Yes
74055	Coliform, fecal general	1 - Effluent Gross	Quality or Concentration Sample Value 2	Soft	The provided sample value is outside the permit limit. <b>Please verify that the value you have provided is correct.</b>	Yes

**Comments****Attachments**

Name	Type	Size
MFWQTCCoverLetterNov22.pdf	pdf	50172.0
MFWQTCMOR11022.pdf	pdf	122121.0

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

User: AJOP1117  
 Name: Amber Pauly  
 E-Mail: amber.pauly@louisvillemsd.org  
 Date/Time: 2022-12-14 12:58 (Time Zone: -05:00)

**Report Last Signed By**

User: SKINNER@LOUISVILLEMSD.ORG  
 Name: James skinner  
 E-Mail: james.skinner@louisvillemsd.org  
 Date/Time: 2022-12-15 07:12 (Time Zone: -05:00)

**DMR Copy of Record**

<b>Permit</b>					
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		

<b>Report Dates &amp; Status</b>					
Monitoring Period:	From 11/01/22 to 11/30/22	DMR Due Date:	12/28/22	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.

<b>Principal Executive Officer</b>					
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						=	319.0	=	507.0	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						=	392.0	=	436.0	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						=	423.0	=	640.0	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						=	226.0	=	310.0	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						=	8.1	=	13.5	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						=	14.2	=	15.1	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	=	2.9	=	4.0	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: SKINNER@LOUISVILLEMSD.ORG  
 Name: James skinner  
 E-Mail: james.skinner@louisvillemsd.org  
 Date/Time: 2022-12-15 07:19 (Time Zone: -05:00)

**Report Last Signed By**  
 User: SKINNER@LOUISVILLEMSD.ORG

Name: James skinner  
E-Mail: james.skinner@louisvillemsd.org  
Date/Time: 2022-12-15 07:20 (Time Zone: -05:00)

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 Sludge Wasted MG	Primary Sludge MG	CHLORINATION			FINAL EFFLUENT	
	Final	Sec.	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	Chlorine Dosage KLBS	Resid mg/L	Fecal Coliform #/100 ml	NH3-N mg/L	Pump. Hours	
	Effluent	Effluent																												
11/1/22	76.15	74.29	1.86	74	74	6.7	6.2	6.0	0.5	287	206	4.7	476	347	130	25.8	18.4	15.8	3.4	5.3	4.5	326	62	0.36	0.06	37.79	0.016	20	2.6	0.0
11/2/22	55.28	55.28	0.00	74	74	6.7	6.2	10.0	0.4	456	207	4.0	575	433	144	26.0	17.9	15.9	2.1	5.2	4.8	411	81	0.07	0.08	40.97	0.016	30	4.0	0.0
11/3/22	58.75	58.75	0.00	73	73	6.7	6.3	15.0	10.0	580	455	6.6	759	608	271	26.4	14.7	13.2	0.4	4.5	4.2	394	92	0.16	0.05	44.66	0.016	152	5.9	0.0
11/4/22	62.73	62.73	0.00	69	69	6.6	6.2	13.0	1.0	508	328	3.5	770	710	278	25.5	16.9	15.0	0.3	5.1	4.5	442	87	0.42	0.11	47.47	0.016	37200	10.8	0.0
11/5/22	61.29	61.29	0.00	70	70	6.6	6.2	14.0	2.0	660	424	6.0	728	623	295	25.9	19.2	17.0	0.3	5.4	4.8	376	70	0.00	0.10	49.95	0.016	10	9.5	0.0
11/6/22	55.73	55.73	0.00	67	67	6.6	6.2	10.0	10.0	356	496	4.4	621	500	326	25.7	20.3	18.1	0.4	4.6	4.1	367	80	0.00	0.08	52.77	0.016	3700	4.4	0.0
11/7/22	56.75	56.75	0.00	72	72	6.7	6.3	10.0	3.0	444	420	4.2	623	622	321	24.9	15.8	14.9	0.5	5.1	4.8	347	67	0.53	0.05	56.72	0.016	60000	7.8	0.0
11/8/22	54.28	54.28	0.00	75	75	6.7	6.3	15.0	7.0	420	528	6.2	639	483	372	25.7	20.0	17.9	0.5	5.0	4.5	377	77	0.32	0.20	61.43	0.016	60000	12.9	0.0
11/9/22	52.52	52.52	0.00	73	73	6.5	6.4	10.0	7.5	496	565	5.0	681	490	378	28.3	17.7	15.6	0.6	4.8	4.3	387	80	0.16	0.24	66.27	0.016	248000	12.7	0.0
11/10/22	56.37	56.37	0.00	73	73	6.5	6.3	12.0	0.8	516	287	3.6	701	754	288	27.8	16.8	15.1	0.8	9.9	8.8	369	37	0.47	0.22	71.26	0.016	200	15.1	0.0
11/11/22	98.04	94.09	3.95	72	72	6.6	6.2	10.0	11.0	496	640	3.7	483	436	507	25.9	18.2	16.1	3.9	7.2	6.4	331	46	0.44	0.23	77.41	0.016	304000	13.5	0.0
11/12/22	88.32	88.32	0.00	63	63	7.0	6.2	5.0	1.0	236	340	4.8	385	268	292	25.2	18.8	16.9	1.8	3.9	3.5	249	64	0.22	0.13	81.65	0.016	60000	3.4	0.0
11/13/22	88.32	88.32	0.00	62	62	6.9	6.3	4.0	0.5	244	247	4.8	573	415	245	24.4	15.6	14.1	1.9	4.4	3.9	277	63	0.45	0.21	85.56	0.016	20	2.6	0.0
11/14/22	73.29	73.29	0.00	65	65	6.7	6.2	10.0	0.5	400	240	4.6	799	541	351	24.4	16.5	14.5	1.0	3.9	3.5	310	80	0.70	0.20	88.63	0.016	60000	4.4	0.0
11/15/22	66.80	66.80	0.00	70	70	6.2	6.1	8.0	1.0	448	324	3.0	677	510	375	24.4	19.7	17.6	0.6	4.7	4.2	352	75	0.59	0.22	92.22	0.016	60000	7.8	0.0
11/16/22	63.82	63.82	0.00	66	66	6.6	6.1	8.0	1.5	332	320	6.0	515	414	254	24.5	18.7	17.8	0.5	4.5	4.2	334	75	0.51	0.21	96.77	0.016	30000	8.9	0.0
11/17/22	60.20	60.20	0.00	65	65	6.8	6.2	10.0	0.5	452	267	5.0	486	376	171	25.2	17.9	16.4	0.6	4.4	4.0	356	81	0.61	0.22	100.75	0.016	268000	9.9	0.0
11/18/22	57.46	57.46	0.00	64	64	6.7	6.1	10.0	0.7	407	284	3.6	612	477	367	25.7	18.6	17.4	0.6	5.8	5.3	438	75	0.03	0.19	104.02	0.016	521000	8.4	0.0
11/19/22	55.00	55.00	0.00	63	63	6.4	6.3	11.0	3.5	460	453	4.1	812	582	332	25.6	18.6	17.2	0.7	4.9	4.7	418	84	0.00	0.24	104.77	0.016	600000	6.6	0.0
11/20/22	49.79	49.79	0.00	63	63	6.6	6.2	12.0	2.0	487	527	4.6	480	400	276	25.5	19.5	17.3	0.8	5.1	4.5	423	84	0.00	0.05	3.55	0.016	895000	4.0	0.0
11/21/22	55.61	55.61	0.00	62	62	6.8	6.2	14.0	1.9	376	316	4.1	527	435	260	24.9	19.7	17.3	1.0	8.4	7.3	379	46	0.67	0.23	0.10	0.016	7	8.8	0.0
11/22/22	58.72	58.72	0.00	63	63	6.6	6.2	11.0	9.0	452	544	4.4	451	408	255	24.9	17.0	15.1	0.8	5.2	4.6	347	68	0.74	0.25	0.03	0.016	4500	15.7	0.0
11/23/22	56.09	56.09	0.00	64	64	6.4	6.2	12.0	5.5	460	528	6.6	799	595	420	24.9	16.7	14.6	0.6	5.4	4.6	351	65	0.74	0.25	0.03	0.016	60000	15.5	0.0
11/24/22	53.99	53.99	0.00	64	64	6.7	6.1	9.0	11.0	256	608	3.8	448	738	491	24.9	15.9	13.9	0.6	5.0	4.4	360	73	0.74	0.25	0.03	0.016	22000	9.6	0.0
11/25/22	51.65	51.65	0.00	67	67	7.0	6.0	3.0	1.8	95	455	4.4	226	222	239	24.9	15.7	14.1	4.7	5.1	4.5	334	66	0.74	0.25	0.03	0.016	13	6.7	0.0
11/26/22	56.67	56.67	0.00	64	64	7.0	6.3	3.0	0.6	140	300	3.8	264	216	182	24.9	14.5	13.1	2.4	4.7	4.3	389	83	0.74	0.25	0.03	0.016	7	7.5	0.0
11/27/22	103.08	103.08	0.00	64	64	6.7	6.3	13.0	1.2	368	376	3.6	249	172	207	24.9	15.1	13.4	9.4	3.8	3.4	306	82	0.74	0.25	0.03	0.016	3500	6.8	0.0
11/28/22	72.73	72.73	0.00	62	62	6.7	6.3	10.0	1.0	344	328	6.0	285	204	167	24.9	14.9	13.5	10.4	3.7	3.3	317	87	0.74	0.25	0.03	0.016	4	6.2	0.0
11/29/22	66.69	66.69	0.00	67	67	6.8	6.3	12.2	1.5	372	284	5.4	403	247	164	24.7	14.1	12.9	2.4	3.8	3.5	346	92	0.79	0.27	0.51	0.016	4	12.8	0.0
11/30/22	91.89	91.89	0.00	63	63	6.8	6.3	8.0	1.7	292	288	6.3	240	233	174	25.0	15.0	13.5	2.5	3.1	2.9	286	91	0.03	0.27	3.37	0.016	4	9.7	0.0
Sum	1958.01	1952.20	5.81													761.4								12.71	5.62					0.0
Average	65.27	65.07	2.91	67	67	6.7	6.2	9.9	3.3	395	386	5	543	449	284	25.4	17.3	15.5	1.9	5.1	4.5	357	74	0.42	0.19	45.63	0.016	2282	8.5	0.0

SEWER CONNECTIONS

148468 TIMES 4 =

593872 SEWER POPULATION

IND. WASTER POPULATION EQ

CUSTOMERS 405

FLOW 31237

BOD 1187924

TSS 444046

Authorized Agent

Certification No. 29841

\*\*We experienced a PI data logging error which caused some of the flow data for 11/20/22 to 11/28/22 to log the same number over and over again. This data was unrecoverable.

MORRIS FORMAN WASTEWATER JEFFERSON COUNTY, KY

Month of Nov-22

Average Flow

SETTLING TANKS	Primary	Secondary		
	Battery A	Battery B	Battery C	
Average Flr	65.64	18.63	9.53	9.29
Tanks in Se	2.00	7.0	8.0	4.0
Surface Arri	77000.00	60195.37	69200.00	34595.71
Volume (M)	8.33	6.17	7.09	3.54
Weir Length	2860.00	2494.80	2868.00	1433.82
Avg. Weir (	22949.81	7469.39	3323.89	6477.44
Avg. Settlin	852.42	496.10	290.05	373.76
Avg. Deten	3.05	7.94	17.85	9.16

AERATION TANKS

	Battery A	Battery B	Battery C
Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	29.86	20.07	12.93
Avg. Detention Time (l	5.41	10.57	5.43

CHLORINE CONTACT CHAMBERS

Contact Ch	1.2
Volume (G)	1444647
Avg. Deten	0.93

Remarks: BY-PASS REPORTS (See Attached)