



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

January 11, 2024

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 December 1st through December 31st, 2023, are provided through NetDMR. The Morris Forman Water Quality Treatment Center (MFWQTC) did not meet permit for 7 day Fecal Coliform, 30 day Fecal Coliform, 30 day BOD, 7 day BOD, 30 day TSS, 7 day TSS, TSS and BOD percent removal reporting requirements.

MSD has installed dewatering services at a satellite facility. This dewatering service has reduced the solids loading to the Morris Forman plant, but compromised solids handling equipment at Morris Forman continue to contribute to our effluent exceedances.

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
Major:	Yes	Permittee Address:	700 W Liberty St Louisville, KY 40203
Permitted Feature:	001 External Outfall	Discharge:	001-P4 PRETREATMENT
Facility:		Facility Location:	MORRIS FORMAN WQTC MSD 4522 ALGONQUIN PKWY LOUISVILLE, KY 40211

Report Dates & Status			
Monitoring Period:	From 01/01/23 to 12/31/23	DMR Due Date:	01/28/24
Status:	NetDMR Validated		

Considerations for Form Completion
 FOR LEAD(PB), COPPER(CU), ZINC(ZN)AND CADMIUM(CD) REPORT ONLY THE RESULTS NOT ASSOCIATED WITHBIOMONITORING TESTS.

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			
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample						=	7.72	=	12.8	19 - mg/L	01/YR - Annual	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI												
00665	Phosphorus, total [as P]	G - Raw Sewage Influent	0	--	Sample						=	8.2	=	12.6	19 - mg/L	01/YR - Annual	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI												
00722	Cyanide, free [amenable to chlorination]	1 - Effluent Gross	0	--	Sample						<	0.005	<	0.005	19 - mg/L	01/YR - Annual	GR - GRAB
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI												
00722	Cyanide, free [amenable to chlorination]	G - Raw Sewage Influent	0	--	Sample						<	0.02	<	0.02	19 - mg/L	01/YR - Annual	GR - GRAB
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI												
00940	Chloride [as Cl]	1 - Effluent Gross	0	--	Sample						=	282.5	=	290.0	19 - mg/L	01/YR - Annual	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI												
00940	Chloride [as Cl]	G - Raw Sewage Influent	0	--	Sample						=	373.0	=	487.0	19 - mg/L	01/YR - Annual	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI												
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.05	<	0.05	19 - mg/L	01/YR - Annual	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI												
00978	Arsenic, total recoverable	G - Raw Sewage Influent	0	--	Sample						<	0.05	<	0.05	19 - mg/L	01/YR - Annual	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI												
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.886	=	1.62	19 - mg/L	01/YR - Annual	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI												
00980	Iron, total recoverable	G - Raw Sewage Influent	0	--	Sample						=	1.094	=	1.68	19 - mg/L	01/YR - Annual	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI												
00981	Selenium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.05	<	0.05	19 - mg/L	01/YR - Annual	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI												
00981	Selenium, total recoverable	G - Raw Sewage Influent	0	--	Sample						<	0.05	<	0.05	19 - mg/L	01/YR - Annual	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI												
01074	Nickel, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.05	<	0.05	19 - mg/L	01/YR - Annual	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI												

78247	Chromium, hexavalent tot recoverable	G - Raw Sewage Influent	0	--	Sample															=	0.006	=	0.012	19 - mg/L	01/YR - Annual	CP - COMPOS			
					Permit Req.																			Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	01/YR - Annual	CP - COMPOS
					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: 2024-01-17 10:08 (Time Zone: -05:00)

Report Last Signed By

User: SKINNER@LOUISVILLEMSD.ORG
 Name: James skinner
 E-Mail: james.skinner@louisvillemsd.org
 Date/Time: 2024-01-17 10:22 (Time Zone: -05:00)

DMR Copy of Record

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-Y BIOMONITORING/ONCE PER QUARTER
Facility:		Facility:	MORRIS FORMAN WQTC MSD
		Facility Location:	4522 ALGONQUIN PKWY LOUISVILLE, KY 40211

Report Dates & Status			
Monitoring Period:	From 10/01/23 to 12/31/23	DMR Due Date:	01/28/24
Status:	NetDMR Validated		

Considerations for Form Completion

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			
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample						=	486.0	=	486.0	19 - mg/L		01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L				
					Value NODI													
01025	Cadmium, dissolved [as Cd]	1 - Effluent Gross	0	--	Sample						<	0.01	<	0.01	19 - mg/L		01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L				
					Value NODI													
01040	Copper, dissolved [as Cu]	1 - Effluent Gross	0	--	Sample						<	0.01	<	0.01	19 - mg/L		01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L				
					Value NODI													
01049	Lead, dissolved [as Pb]	1 - Effluent Gross	0	--	Sample						<	0.05	<	0.05	19 - mg/L		01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L				
					Value NODI													
01090	Zinc, dissolved [as Zn]	1 - Effluent Gross	0	--	Sample						=	0.076	=	0.076	19 - mg/L		01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L				
					Value NODI													
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.095	=	0.095	19 - mg/L		01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L				
					Value NODI													
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.01	<	0.01	19 - mg/L		01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L				
					Value NODI													
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.05	<	0.05	19 - mg/L		01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L				
					Value NODI													
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.034	=	0.034	19 - mg/L		01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L				
					Value NODI													
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample								<	1.0	2F - tox acute		01/90 - Quarterly	G2 - GRAB-2
					Permit Req.								<=	1.0 DAILY MX	2F - tox acute			
					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@louisvillemad.org
Date/Time: 2024-01-17 06:18 (Time Zone: -05:00)

Report Last Signed By

User: SKINNER@LOUISVILLEMSD.ORG
Name: James skinner
E-Mail: james.skinner@louisvillemad.org
Date/Time: 2024-01-17 07:26 (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 12/01/23 to 12/31/23	DMR Due Date:	01/28/24	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						=	271.0	=	357.0	19 - mg/L	0	04/30 - Four 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						=	302.0	=	424.0	19 - mg/L	0	04/30 - Four 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						=	433.0	=	536.0	19 - mg/L	0	04/30 - Four 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						=	237.0	=	408.0	19 - mg/L	0	04/30 - Four 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						=	7.2	=	9.3	19 - mg/L	0	04/30 - Four 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						=	13.4	=	17.3	19 - mg/L	0	04/30 - Four 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	=	1.3	=	1.6	03 - MGD					0	04/30 - Four 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: 2024-01-17 06:14 (Time Zone: -05:00)

Report Last Signed By
 User: SKINNER@LOUISVILLEMSD.ORG

Name: James skinner
E-Mail: james.skinner@louisvillemsd.org
Date/Time: 2024-01-17 07:22 (Time Zone: -05:00)

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
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
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
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

Comments**Attachments**

Name	Type	Size
Dec2023MorrisFormanDischargeReport.pdf	pdf	14703.0
MFWQTCDec2023CoverLetter.pdf	pdf	38977.0
MFWQTCMOR12023.pdf	pdf	142290.0

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

User: AJOP1117
 Name: Amber Pauly
 E-Mail: amber.pauly@louisvillemSD.org
 Date/Time: 2024-01-17 06:14 (Time Zone: -05:00)

Report Last Signed By

User: SKINNER@LOUISVILLEMSD.ORG
 Name: James skinner
 E-Mail: james.skinner@louisvillemSD.org
 Date/Time: 2024-01-17 07:16 (Time Zone: -05:00)

MORRIS FORMAN WASTEWATER JEFFERSON COUNTY, KY

Month of Dec-23

Average Flow

Primary	Battery A	Battery B	Battery C
Secondary			

AERATION TANKS			
Average Flow	73.01	23.13	16.16
Tanks in Se	2.00	8.0	4.0
Surface Area	38500.00	69200.00	69190.51
Volume (M)	4.17	7.09	7.09
Weir Length	1430.00	2867.61	1434.00
Avg. Weir (51057.58	8065.59	5635.14
Avg. Settlin	1896.42	505.30	431.10
Avg. Deten	1.37	7.35	10.53

CHLORINE CONTACT CHAMBERS			
Volume (Gallons)	420000	210000	210000
Avg. Flow (MGD)	34.97	29.83	8.71
Avg. Detention Time (4.36	6.24	18.91

Contact Ch 2.0
Volume (G: 234000
Avg. Deten 1.21

Remarks: BY-PASS REPORTS (See Attached)



IMSAST0004
Overflow Report
12/1/2023 12:00:00 AM to 12/31/2023 12:00:00 AM

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	28453	3402 CHARLANE PKY	MORRIS FORMAN	CHENOWETH RUN	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	3729895		12/9/2023 5:45:00 PM	DAVIS BROWN		DOCUMENTED	10/28/2015 12:00:00 AM	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATERS	12/10/23 01:40 AM	MAIN

Discharge Reporting:

Discharge Amount:	1 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3729897.
Control Zone:	CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA.
Impact:	NONE OBSERVED OVERFLOW NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMP SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT.

Notifications:

12/10/23 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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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 Treatment Plant	MSD0278	4522 ALGONQUIN PKY	MORRIS FORMAN	OHIO RIVER	STREAM

Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	3736251		12/25/2023 2:55:00 AM	BURCH		REPAIRED - ISSUE RESOLVED	12/25/2023 12:00:00 AM	ELECTRICAL PROBLEMS AT MSD	UNAUTHORIZED DISCHARGE-WATERS	12/25/23 02:55 PM	

Discharge Reporting:

Discharge Amount:	30,300,000 GAL
Cause:	POWER FAILURE.
Clean Up:	N/A.
Control Zone:	PLACED SIGNS AROUND THE IMPACTED AREA.
Impact:	NO IMPACT OBSERVED.
Repair:	POWER RESTORED AND PUMPS FUNCTIONAL.
Public Notification:	SIGN AT OUTFALL.

Notifications:

12/25/23 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
12/25/23 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION