February 26th, 2024

Crystal Dennis
300 Sower Blvd., 3rd Floor
Frankfort, Kentucky 40601

RE: **Ohio River STP, KPDES No: KY0106143**
     Discharge Monitoring Report for January 2024.

Dear Ms. Dennis:

Attached are the Discharge Monitoring Report (DMR) for the Ohio River STP, for the month January 2024.

There were no overflows or bypasses. There were 4 exceedances, one for TSS monthly average permit limit of 30.0 mg/L with a result of 50.0 mg/L, one for TSS Daily maximum permit limit of 45.0mg/L with a result of 76.0 mg/L, one for pounds TSS maximum weekly average limit of 563.0 lbs./day with a result of 601.0 lbs./day and one for TSS percent removal with a permit limit of 85% with a result of 84.3%. We have found issues with the clarifier running at the time of these samples. We made repairs to the other out of service clarifier and put it into service in place of the current clarifier. The quality of the effluent should increase immediately.

If you have any questions concerning the attached DMR's, please contact me at (502) 264-2804.

Sincerely,

Alex Smither
Process Supervisor

CAS/OR 1/24.

Cc: V. Teague, B. Tinnel

DMR Copy of Record

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Quality or Concentration Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample						=	8.5					19 - mg/L	0	01/07 - Weekly	GR - GRAB
					Permit Req.						>=	2.0 INST MIN					19 - mg/L		01/07 - Weekly	GR - GRAB
					Value NODI															
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample	=	60.8	=	171.9	26 - lb/d			=	9.0	=	16.0	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Permit Req.	<=	375.0 MO AVG	<=	563.0 MX WK AV	26 - lb/d			<=	30.0 MO AVG	<=	45.0 MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00310	BOD, 5-day, 20 deg. C	G - Raw Sewage Influent	0	--	Sample						=	202.0	=	287.0			19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV			19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	6.39			=	6.88	12 - SU	0	01/07 - Weekly	GR - GRAB
					Permit Req.						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		01/07 - Weekly	GR - GRAB
					Value NODI															
X 00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	305.9	=	601.0	26 - lb/d			=	50.0	=	76.0	19 - mg/L	3	05/30 - 5 Times Every Month	24 - COMP24
					Permit Req.	<=	375.0 MO AVG	<=	563.0 MX WK AV	26 - lb/d			<=	30.0 MO AVG	<=	45.0 MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample						=	281.0	=	327.0			19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV			19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample						=	50.625	=	58.4			19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Permit Req.							Req Mon MO AVG		Req Mon DAILY MX			19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00600	Nitrogen, total [as N]	G - Raw Sewage Influent	0	--	Sample						=	61.0	=	78.3			19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Permit Req.							Req Mon MO AVG		Req Mon DAILY MX			19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample						=	0.25	=	0.3			19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Permit Req.						<=	20.0 MO AVG	<=	30.0 DAILY MX			19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample						=	4.55	=	5.42			19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Permit Req.							Req Mon MO AVG		Req Mon DAILY MX			19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00665	Phosphorus, total [as P]	G - Raw Sewage Influent	0	--	Sample						=	6.51	=	7.4			19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Permit Req.							Req Mon MO AVG		Req Mon DAILY MX			19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0.666	=	1.482	03 - MGD								0	99/99 - Continuous	RC - Recorder (auto)
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD									99/99 - Continuous	RC - Recorder (auto)
					Value NODI															
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	0.761	=	1.606	03 - MGD								0	99/99 - Continuous	RC - Recorder (auto)
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD									99/99 - Continuous	RC - Recorder (auto)
					Value NODI															

Code	Parameter	Monitoring Location		Row		Quality/Conc				Units	# Excursions	Frequency of Analysis	Sample Type
51040	E. coli	1 - Effluent Gross	0	--	Sample			=	3.0	=	47.0	13 - #/100mL		01/07 - Weekly	GR - GRAB
					Permit Req.			<=	130.0 30DA GEO	<=	240.0 7 DA GEO	13 - #/100mL	0	01/07 - Weekly	GR - GRAB
					Value NODI										
81010	BOD, 5-day, percent removal	K - Percent Removal	0	--	Sample			=	96.0			23 - %		01/30 - Monthly	CA - CALCTD
					Permit Req.			>=	85.0 MO AV MN			23 - %	0	01/30 - Monthly	CA - CALCTD
					Value NODI										
X 81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample			=	84.3			23 - %		01/30 - Monthly	CA - CALCTD
					Permit Req.			>=	85.0 MO AV MN			23 - %	1	01/30 - Monthly	CA - CALCTD
					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

Code	Name	Monitoring Location	Field	Type	Description	Acknowledge
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
00530	Solids, total suspended	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
00530	Solids, total suspended	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
00530	Solids, total suspended	1 - Effluent Gross	Quantity or Loading 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
OHIO_RIVER_COVER_1_24.pdf	pdf	50870.0

Report Last Saved By

Louisville and Jefferson County MSD

User:	ALEX.SMITHER@LOUISVILLEMSD.ORG
Name:	Charles Smither
E-Mail:	alex.smither@louisvillemsd.org
Date/Time:	2024-02-26 11:28 (Time Zone: -05:00)

Report Last Signed By

User:	ALEX.SMITHER@LOUISVILLEMSD.ORG
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