



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

August 14th, 2024

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

**RE: SORF STP, KPDES No: KY0111716
Discharge Monitoring Report for July 2024.**

Dear Ms. Dennis:

Attached are the Discharge Monitoring Report (DMR) for the SORF STP, for the month July 2024.

There were no overflows or bypasses. There were two exceedances, one for monthly average phosphorus with a result of 1.67 mg/L with a limit of 1.0 mg/L and one for daily maximum phosphorus with a result of 2.1 mg/L with a limit of 2.0 mg/L. We finally were able to isolate and repair the chemical feed issues with the phosphorous removal chemical system. We have tested multiple times in the month of August well below 1.0 mg/L.

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

Sincerely,

Alex Smither
Process Supervisor

CAS/SORF 7/24.

Cc: V. Teague, B. Tinnel

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.

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Permit			
Permit #:	KY0111716	Permittee:	Louisville and Jefferson County MSD
Major:	Yes	Permittee Address:	700 W Liberty St Louisville, KY 40203
Permitted Feature:	001 External Outfall	Discharge:	001-1 Domestic Wastewater from Publicly Owned Treatment Works
Facility:	OLDHAM COUNTY ENVIRONMENTAL AUTHORITY REGIONAL WWTP		
Facility Location:	6115 HITT LN CRESTWOOD, KY 40241		

Report Dates & Status			
Monitoring Period:	From 07/01/24 to 07/31/24	DMR Due Date:	08/28/24
Status:	NetDMR Validated		
Considerations for Form Completion			

Principal Executive Officer			
First Name:	Tony	Title:	Executive Director
Last Name:	Parrott	Telephone:	502-540-6533

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				
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample					=	7.3					19 - mg/L	0	01/07 - Weekly	GR - GRAB				
					Permit Req.					>=	7.0 INST MIN					19 - mg/L		01/07 - Weekly	GR - GRAB				
					Value NODI																		
00400	pH	1 - Effluent Gross	0	--	Sample					=	7.12			=	7.53	12 - SU	0	01/07 - Weekly	GR - GRAB				
					Permit Req.					>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		01/07 - Weekly	24 - COMP24				
					Value NODI																		
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	10.6	=	15.7	26 - lb/d			=	7.0	=	10.0	19 - mg/L	0	01/07 - Weekly	CP - COMPOS			
					Permit Req.	<=	312.8 MO AVG	<=	469.1 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							=	321.0	=	470.0	19 - mg/L	0	01/07 - Weekly	CP - COMPOS				
					Permit Req.														19 - mg/L	01/07 - Weekly	24 - COMP24		
					Value NODI																		
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample							=	2.98	=	3.5	19 - mg/L	0	01/07 - Weekly	CP - COMPOS				
					Permit Req.															19 - mg/L	01/07 - Weekly	24 - COMP24	
					Value NODI																		
00600	Nitrogen, total [as N]	G - Raw Sewage Influent	0	--	Sample							=	41.38	=	55.3	19 - mg/L	0	01/07 - Weekly	CP - COMPOS				
					Permit Req.															19 - mg/L	01/07 - Weekly	24 - COMP24	
					Value NODI																		
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	1	--	Sample							=	0.2	=	0.2	19 - mg/L	0	01/07 - Weekly	CP - COMPOS				
					Permit Req.															19 - mg/L	01/07 - Weekly	24 - COMP24	
					Value NODI																		
X 00665	Phosphorus, total [as P]	1 - Effluent Gross	1	--	Sample							=	1.67	=	2.1	19 - mg/L	0	01/07 - Weekly	24 - COMP24				
					Permit Req.																19 - mg/L	01/07 - Weekly	24 - COMP24
					Value NODI																		
00665	Phosphorus, total [as P]	G - Raw Sewage Influent	0	--	Sample							=	5.99	=	9.7	19 - mg/L	0	01/07 - Weekly	CP - COMPOS				
					Permit Req.																19 - mg/L	01/07 - Weekly	24 - COMP24
					Value NODI																		
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0.2106	=	0.4667	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)		

Code	Parameter	Monitoring Location	Field	Type	Description	Units	Frequency	Sample Type
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Value NODI Sample = 0.2325 = 0.5504 03 - MGD Permit Req. Req Mon MO AVG Req Mon DAILY MX 03 - MGD Value NODI		0	01/07 - Weekly 99/99 - Continuous CA - CALCTD RC - Recorder (auto)
51040	E. coli	1 - Effluent Gross	0	--	Value NODI Sample = 1.8 = 3.0 Permit Req. <= 130.0 30DA GEO <= 240.0 7 DA GEO Value NODI	13 - #/100mL	0	01/07 - Weekly 01/07 - Weekly GR - GRAB GR - GRAB
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Value NODI Sample = 7.95 = 11.4 26 - lb/d = 5.0 = 7.0 19 - mg/L Permit Req. <= 104.4 MO AVG <= 156.4 MX WK AV 26 - lb/d <= 10.0 MO AVG <= 15.0 MX WK AV 19 - mg/L Value NODI		0	01/07 - Weekly 01/07 - Weekly CP - COMPOS 24 - COMP24
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Value NODI Sample = 152.0 = 196.0 19 - mg/L Permit Req. Req Mon MO AVG Req Mon MX WK AV 19 - mg/L Value NODI		0	01/07 - Weekly 01/07 - Weekly CP - COMPOS 24 - COMP24
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Value NODI Sample = 96.5 23 - % Permit Req. >= 85.0 MO AV MN 23 - % Value NODI		0	01/30 - Monthly 01/30 - Monthly CA - CALCTD CA - CALCTD
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Value NODI Sample = 97.8 23 - % Permit Req. >= 85.0 MO AV MN 23 - % Value NODI		0	01/30 - Monthly 01/30 - Monthly CA - CALCTD CA - CALCTD

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	Parameter Name	Monitoring Location	Field	Type	Description	Acknowledge
00665	Phosphorus, total [as P]	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
00665	Phosphorus, total [as P]	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

Comments

We finally were able to isolate and repair the chemical feed issues with the phosphorous removal chemical system. We have tested multiple times in the month of August well below 1.0 mg/L.

Attachments

Name	Type	Size
SORF_COVER_7_24.pdf	pdf	38405.0

Report Last Saved By

Louisville and Jefferson County MSD

User: ALEX.SMITHER@LOUISVILLEMSD.ORG
 Name: Charles Smither
 E-Mail: alex.smither@louisvillemmsd.org
 Date/Time: 2024-08-14 09:27 (Time Zone: -04:00)

Report Last Signed By

User: ALEX.SMITHER@LOUISVILLEMSD.ORG
 Name: Charles Smither
 E-Mail: alex.smither@louisvillemmsd.org
 Date/Time: 2024-08-14 09:27 (Time Zone: -04:00)