



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

March 20th, 2025

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

**RE: Kentucky State Reformatory STP, KPDES No: KY00400126
Discharge Monitoring Report for February 2025.**

Dear Ms. Dennis:

Attached are the Discharge Monitoring Report (DMR) for the Kentucky State Reformatory STP, for the month February 2025.

See attached overflow documentation.

There were no bypasses. There were three exceedances. One for BOD monthly average with a limit of 10 mg/L with a result of 13.3 mg/L. The second was for BOD weekly maximum with a limit of 15 mg/L and a result of 26 mg/L. The third was for maximum weekly average lbs. of BOD with a limit of 125 lbs. and a result of 154 lbs. We have made some repairs to our sampler and some process changes to the plant to combat BOD.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'AS' or 'Alex Smither', written over a large, faint, yellow circular graphic that resembles a stylized leaf or a large 'O'.

Alex Smither
Process Supervisor

CAS 2/25

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 #:
Major:

KY0040126
Yes

Permittee:
Permittee Address:

Louisville and Jefferson County MSD
700 West Liberty St
Louisville, KY 40203

Facility:
Facility Location:

KY STATE REFORMATORY WWTP
3001 W HWY 146
LA GRANGE, KY 40031

Permitted Feature:

001
External Outfall

Discharge:

001-1
SANITARY WASTEWATER

Report Dates & Status

Monitoring Period:

From 02/01/25 to 02/28/25

DMR Due Date:

03/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:
Last Name:

Tony
Parrott

Title:

Executive Director

Telephone:

502-540-6533

No Data Indicator (NODI)

Form NODI:

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Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					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						=	14.0					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						=	8.3			=	8.8	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															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	28.4	=	52.1	26 - lb/d			=	4.8	=	9.0	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.	<=	250.0 MO AVG	<=	376.0 MX WK AV	26 - lb/d			<=	30.0 MO AVG	<=	45.0 MX WK AV	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite
					Value NODI															
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample								=	135.5	=	243.0	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite
					Value NODI															
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample								=	13.2	=	18.9	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite
					Value NODI															
00600	Nitrogen, total [as N]	G - Raw Sewage Influent	0	--	Sample								=	33.8	=	41.6	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample								=	0.2	=	0.2	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.								<=	5.0 MO AVG	<=	7.5 DAILY MX	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample								=	1.97	=	2.37	19 - mg/L	3	01/07 - Weekly	CP - Composite
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite
					Value NODI															
00665	Phosphorus, total [as P]	G - Raw Sewage Influent	0	--	Sample								=	5.67	=	7.2	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite
					Value NODI															
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample								=	245.3	=	256.0	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite

					Value NODI																
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample								=	0.0113	=	0.014	19 - mg/L		01/07 - Weekly	CP - Composite	
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite	
					Value NODI																
34306	Chlorodibromomethane	1 - Effluent Gross	0	--	Sample								=	5.0			28 - ug/L		01/07 - Weekly	CP - Composite	
					Permit Req.									<=	13.0 MO AVG				28 - ug/L	01/07 - Weekly	24 - 24 Hour Composite
					Value NODI																
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0.8419	=	1.04	03 - MGD								0	99/99 - Continuous	RC - Recorder (auto)	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD									99/99 - Continuous	RC - Recorder (auto)	
					Value NODI																
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	0.9463	=	1.22	03 - MGD								0	01/07 - Weekly	CA - Calculated	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD									01/07 - Weekly	CA - Calculated	
					Value NODI																
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample								=	0.01	=	0.01	19 - mg/L		01/07 - Weekly	GR - Grab	
					Permit Req.								<=	0.011 MO AVG	<=	0.019 DAILY MX	19 - mg/L		01/07 - Weekly	GR - Grab	
					Value NODI																
51040	E. coli	1 - Effluent Gross	0	--	Sample								=	36.4	=	100.0	13 - #/100mL	0	01/07 - Weekly	GR - Grab	
					Permit Req.								<=	130.0 30DA GEO	<=	240.0 7 DA GEO	13 - #/100mL		01/07 - Weekly	GR - Grab	
					Value NODI																
X 80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	77.0	=	154.0	26 - lb/d			=	13.3	=	26.0	19 - mg/L	0	01/07 - Weekly	CP - Composite	
					Permit Req.	<=	83.5 MO AVG	<=	125.0 MX WK AV	26 - lb/d			<=	10.0 MO AVG	<=	15.0 MX WK AV	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite	
					Value NODI																
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample								=	135.0	=	166.0	19 - mg/L	0	01/07 - Weekly	CP - Composite	
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite	
					Value NODI																
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample						=	90.2					23 - %	0	01/30 - Monthly	CA - Calculated	
					Permit Req.							>=	85.0 MO AV MN				23 - %		01/30 - Monthly	CA - Calculated	
					Value NODI																
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	96.5					23 - %	0	01/30 - Monthly	CA - Calculated	
					Permit Req.							>=	85.0 MO AV MN				23 - %		01/30 - Monthly	CA - Calculated	
					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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
80082	BOD, carbonaceous [5 day, 20 C]	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
80082	BOD, carbonaceous [5 day, 20 C]	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
80082	BOD, carbonaceous [5 day, 20 C]	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

Comments

Attachments		
Name		Size
KSR_OVERFLOW_2_25.pdf		170542.0
KSR_COVER_2_25.pdf		49503.0

Report Last Saved By
Louisville and Jefferson County MSD

User: ALEX.SMITHER@LOUISVILLEMSD.ORG
Name: Charles Smither
E-Mail: alex.smither@louisvillemسد.org
Date/Time: 2025-03-20 10:35 (Time Zone: -04:00)

Report Last Signed By

User: ALEX.SMITHER@LOUISVILLEMSD.ORG
Name: Charles Smither
E-Mail: alex.smither@louisvillemسد.org
Date/Time: 2025-03-20 10:35 (Time Zone: -04:00)





IMSAST0004
Overflow Report
2/1/2025 12:00:00 AM to 2/28/2025 12:00:00 AM

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Steam of Discharge	Region
KY0040126	MSD0411	KSR	CEDAR CREEK	NA

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Station	Receiving Stream	Discharge To
Sewer Lift Station	SSPSKS-DISW	1815 N STHY 393	KSR	CURRYS FORK	GROUND

Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	3897591		2/6/2025 7:14:00 AM	PARKER	PARKER	QUEUED FOR INVESTIGATION / REPAIR	1/12/2023 12:00:00 AM	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATERS	02/07/25 07:31 AM	

Discharge Reporting:

Discharge Amount:	4,125 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	NONE OBSERVED BY MSD PERSONNEL.
Repair:	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
Public Notification:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.

Notifications:

2/6/25 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
2/6/25 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



IMSAST0004
Overflow Report
2/1/2025 12:00:00 AM to 2/28/2025 12:00:00 AM

KPDES #	Facility ID	Water Quality Treatment Center	Recieving Steam of Discharge	Region
KY0040126	MSD0411	KSR	CEDAR CREEK	NA

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Station	Recieving Stream	Discharge To
Sewer Lift Station	SSPSKS-DISW	1815 N STHY 393	KSR	CURRYS FORK	GROUND

Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	3897909		2/7/2025 7:51:00 AM	PARKER	PARKER	QUEUED FOR INVESTIGATION / REPAIR	1/12/2023 12:00:00 AM	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATERS	02/10/25 07:53 AM	

Discharge Reporting:

Discharge Amount:	6,000 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	CLEANED AND SANITIZED THE IMPACTED AREA.
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	NONE OBSERVED BY MSD PERSONNEL.
Repair:	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
Public Notification:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.

Notifications:

2/7/25 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG. SAYRE.DENNIS@EPAMAIL.EPA.GOV
2/7/25 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



IMSAST0004
Overflow Report
2/1/2025 12:00:00 AM to 2/28/2025 12:00:00 AM

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Discharge	Region
KY0040126	MSD0411	KSR	CEDAR CREEK	NA

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Station	Receiving Stream	Discharge To
Sewer Lift Station	SSPSKS-DISW	1815 N STHY 393	KSR	CURRYS FORK	GROUND

Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	3899310		2/16/2025 12:55:00 AM	HUBER IV	HUBER IV	QUEUED FOR INVESTIGATION / REPAIR	1/12/2023 12:00:00 AM	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATERS	02/17/25 11:23 AM	

Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	3899310		2/16/2025 12:55:00 AM	HUBER IV	HUBER IV	QUEUED FOR INVESTIGATION / REPAIR	1/12/2023 12:00:00 AM	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATERS	02/17/25 11:23 AM	

Discharge Reporting:

Discharge Amount:	400 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	CLEANED AND SANITIZED IMPACTED AREA.
Control Zone:	PLACED TEMPORARY SIGNS.
Impact:	NONE PRESENT.
Repair:	FOUND DURING RECON.
Public Notification:	PLACED TEMPORARY SIGNS.

Notifications:

2/16/25 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
2/16/25 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION