



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

February 25th, 2025

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

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

Dear Ms. Dennis:

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

See attached overflow documentation.

There were no bypasses. There were two exceedances. One for BOD monthly average with a limit of 10 mg/L with a result of 15.3 mg/L. The second was for BOD weekly maximum with a limit of 15 mg/L and a result of 50 mg/L.

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 'Alex Smither', written over a light blue circular background.

Alex Smither
Process Supervisor

CAS 1/25

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 01/01/25 to 01/31/25

DMR Due Date:

02/28/25

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: --

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						=	12.2					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						=	7.56			=	7.56	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	=	18.7	=	32.4	26 - lb/d			=	4.3	=	6.0	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								=	87.8	=	184.0	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								=	17.1	=	21.4	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								=	34.3	=	43.9	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															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample								=	0.3	=	0.4	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								=	3.62	=	3.76	19 - mg/L	4	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								=	5.31	=	6.2	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								=	273.5	=	288.0	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									=	0.0105	=	0.012	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	=	0.6423	=	1.442	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	=	0.6924	=	1.5054	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									=	2.3	=	6.0	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	=	43.0	=	114.0	26 - lb/d				=	15.3	=	50.0	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									=	204.0	=	441.0	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						=	92.5					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						=	95.2					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	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	Type	Size
KSR_OVERFLOW_1_25.pdf	pdf	169219.0
KSR_COVER_1_25.pdf	pdf	42508.0

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: 2025-02-25 08:12 (Time Zone: -05:00)

Report Last Signed By

User: ALEX.SMITHER@LOUISVILLEMSD.ORG

Name: Charles Smither

E-Mail: alex.smither@louisvillemsd.org

Date/Time: 2025-02-25 08:12 (Time Zone: -05:00)



IMSAST0004
Overflow Report
1/1/2025 12:00:00 AM to 1/31/2025 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	3891653		1/18/2025 8:01:00 AM	MILES		QUEUED FOR INVESTIGATION N / REPAIR	1/12/2023 12:00:00 AM	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE- WATERS	01/22/25 09:12 AM	

Discharge Reporting:

Discharge Amount:	1,500 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.
Repair:	HAUL STATION.
Public Notification:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.

Notifications:

1/18/25 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/18/25 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



IMSAST0004
Overflow Report
1/1/2025 12:00:00 AM to 1/31/2025 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 Main	122738A-V	2040 COX LN		KSR		CEDAR CREEK		GROUND			
Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISDW: DRY WEATHER DISCHARGE	3891830		1/21/2025 9:36:00 AM	HUBER IV	MSD CONTRACTOR	REPAIRED - ISSUE RESOLVED	1/21/2025 12:00:00 AM	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE- WATERS	01/21/25 01:30 PM	

Discharge Reporting:

Discharge Amount:	71,100 GAL
Cause:	MECHANICAL FAILURE (BROKEN FORCE MAIN).
Clean Up:	MSD CONTRACTOR CLEANED AND SANITIZED THE IMPACTED AREA.
Control Zone:	PLACED (SIGNS, BARRICADES, CAUTION TAPE) AROUND THE IMPACTED AREA.
Impact:	WUS
Repair:	REPAIRED THE (15-FOOT SECTION OF 16-INCH PIPE).
Public Notification:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.

Notifications:

1/22/25 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO: DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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**IMSAST0004
Overflow Report**

1/1/2025 12:00:00 AM to 1/31/2025 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	3896876		1/31/2025 8:31:00 AM	BROADEN	BROADEN	QUEUED FOR INVESTIGATION / REPAIR	1/12/2023 12:00:00 AM	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE- WATERS	02/02/25 07:20 AM	

Discharge Reporting:

Discharge Amount:	500 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:	PUBLIC NOTIFICATION PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.

Notifications:

1/31/25 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/31/25 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION