



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

January 23, 2023

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

**RE: Kentucky State Reformatory STP, KPDES No: KY00400126
Discharge Monitoring Report for December 2022.**

Dear Ms. Dennis:

Attached are the Discharge Monitoring Report (DMR) for the Kentucky State Reformatory STP, for the month December 2022.

Also attached are 4th quarter biomonitoring, annual sampling 2–4-year, Pretreatment.

There were no overflows, bypasses, or exceedance.

If you have any questions concerning the attached DMR's, please contact me at (502)587-5858.

Sincerely,

A handwritten signature in black ink, appearing to read 'Curt Otto', written over a light yellow circular background.

Curt Otto
Process Supervisor

CEO/ AA 12/22.

Cc: V. Teague, B. Tinnel

DMR Copy of Record

Permit

Permit #:

KY0040126

Major:

Yes

Permittee:

Louisville and Jefferson County MSD

Permittee Address:

700 West Liberty St
Louisville, KY 40203

Facility:

KY STATE REFORMATORY WWTP

Facility Location:

3001 W HWY 146
LA GRANGE, KY 40031

Permitted Feature:

001
External Outfall

Discharge:

001-1
SANITARY WASTEWATER

Report Dates & Status

Monitoring Period:

From 12/01/22 to 12/31/22

DMR Due Date:

01/28/23

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

James

Last Name:

Parrot

Title:

Executive Director

Telephone:

502-540-6000

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						=	7.2					19 - mg/L		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						=	7.4			=	8.05	12 - SU		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	=	24.33	=	28.97	26 - lb/d			<	6.0	<	6.0	19 - mg/L		01/07 - Weekly	24 - COMP24
					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 - COMP24
					Value NODI															
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample								=	98.0	=	137.0	19 - mg/L		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								=	23.8	=	28.3	19 - mg/L		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								=	37.3	=	42.9	19 - mg/L		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	2	--	Sample								=	0.43	=	1.1	19 - mg/L		01/07 - Weekly	24 - COMP24
					Permit Req.								<=	5.0 MO AVG	<=	7.5 DAILY MX	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample								=	4.42	=	5.64	19 - mg/L		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								=	6.9	=	7.98	19 - mg/L		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															
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample								=	231.0	=	274.0	19 - mg/L		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															
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample								=	0.0148	=	0.017	19 - mg/L		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															
34306	Chlorodibromomethane	1 - Effluent Gross	0	--	Sample								<	5.0			28 - ug/L		01/07 - Weekly	24 - COMP24
					Permit Req.								<=	13.0 MO AVG			28 - ug/L		01/07 - Weekly	24 - COMP24
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0.518	=	0.962	03 - MGD									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	=	0.538	=	1.015	03 - MGD								01/07 - Weekly	CA - CALCTD
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD								01/07 - Weekly	CA - CALCTD
					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								=	6.0	=	4.0	13 - #/100mL	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														
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	24.03	=	32.4	26 - lb/d			=	6.0	=	10.0	19 - mg/L	01/07 - Weekly	24 - COMP24
					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 - COMP24
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample								=	186.0	=	209.0	19 - mg/L	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														
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample					=	97.0						23 - %	01/30 - Monthly	CA - CALCTD
					Permit Req.					>=	85.0 MO AV MN						23 - %	01/30 - Monthly	CA - CALCTD
					Value NODI														
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample					=	94.0						23 - %	01/30 - Monthly	CA - CALCTD
					Permit Req.					>=	85.0 MO AV MN						23 - %	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

No errors.

Comments

Attachments

Name	Type	Size
Dec22KSRCover.pdf	pdf	37495.0

Report Last Saved By

Louisville and Jefferson County MSD

User: CURT.OTTO@LOUISVILLEMSD.ORG

Name: Curt Otto

E-Mail: curt.otto@louisvillemSD.org

Date/Time: 2023-01-23 11:11 (Time Zone: -05:00)

Report Last Signed By

User: CURT.OTTO@LOUISVILLEMSD.ORG

Name: Curt Otto

E-Mail: curt.otto@louisvillemSD.org

Date/Time: 2023-01-23 11:12 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:

KY0040126

Major:

Yes

Permittee:

Louisville and Jefferson County MSD

Permittee Address:

700 West Liberty St
Louisville, KY 40203

Facility:

KY STATE REFORMATORY WWTP

Facility Location:

3001 W HWY 146
LA GRANGE, KY 40031

Permitted Feature:

001
External Outfall

Discharge:

001-2
QUARTERLY BIOMONITORING

Report Dates & Status

Monitoring Period:

From 10/01/22 to 12/31/22

DMR Due Date:

01/28/23

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

James

Last Name:

Parrot

Title:

Executive Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form 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

Louisville and Jefferson County MSD

User:

CURT.OTTO@LOUISVILLEMSD.ORG

Name:

Curt Otto

E-Mail:

curt.otto@louisvillemسد.org

Date/Time:

2023-01-23 11:11 (Time Zone: -05:00)

Report Last Signed By

User:

CURT.OTTO@LOUISVILLEMSD.ORG

Name:

Curt Otto

E-Mail:

curt.otto@louisvillemسد.org

Date/Time:

2023-01-23 11:12 (Time Zone: -05:00)