



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

September 22, 2020

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

**RE: Floyds Fork WQTC, KPDES No: KY0102784
Discharge Monitoring Report for August 2020.**

Dear Ms. Dennis:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operator Report (MOR) for the Floyds Fork Water Quality Treatment Center for the month of August 2020.

There were no bypasses, discharges, or exceedances.

If you have any questions concerning the attached DMR's, please contact me at (502) 540-6952.

Sincerely,

A handwritten signature in black ink, appearing to read 'William Ford', written over a light gray circular background.

William Ford
Process Supervisor-Operations

WEF/ Floyds Fork 08/20.

Cc: V. Teague
R. Shaw

DMR Copy of Record

Permit

Permit #:

KY0102784

Major:

Yes

Permitted Feature:

001
External Outfall

Permittee:

Floyds Fork WQTC MSD

Permittee Address:

700 W Liberty St
Louisville, KY 40203

Discharge:

001-1
MUNICIPAL DISCHARGE

Facility:

FLOYDS FORK WQTC MSD

Facility Location:

1100 BLUE HERON RD
LOUISVILLE, KY 40245

Report Dates & Status

Monitoring Period:

From 08/01/20 to 08/31/20

DMR Due Date:

09/28/20

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

James A.

Last Name:

Parrott

Title:

Executive Director

Telephone:

502-540-6000

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	=	10.0				=	10.0				19 - mg/L		0	01/07 - Weekly	GR - GRAB
					Permit Req.	>=	7.0 INST MIN					7.0 INST MIN				19 - mg/L			01/07 - Weekly	GR - GRAB
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample	=	7.7				=	7.7			=	8.3	12 - SU	0	01/07 - Weekly	GR - GRAB
					Permit Req.	>=	6.0 MINIMUM					6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		01/07 - Weekly	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	91.0	=	151.0	26 - lb/d			=	3.0	=	3.0	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.	<=	1626.0 MO AVG	<=	2439.0 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								=	171.0	=	238.0	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					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								=	10.0	=	14.0	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	1	--	Sample	=	17.2	=	32.2	26 - lb/d			=	0.6	=	1.4	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.	<=	54.2 MO AVG	<=	81.3 MX WK AV	26 - lb/d			<=	1.0 MO AVG	<=	1.5 MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample	=	9.1	=	15.1	26 - lb/d			=	0.3	=	0.3	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.	<=	27.1 MO AVG	<=	40.7 MX WK AV	26 - lb/d			<=	0.5 MO AVG	<=	0.75 MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	3.133	=	4.051	03 - MGD								0	99/99 - Continuous	CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD									99/99 - Continuous	RE - Record (manual)
					Value NODI															
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	3.287	=	4.104	03 - MGD								0	99/99 - Continuous	RE - Record (manual)
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD									99/99 - Continuous	RE - Record (manual)
					Value NODI															
51040	E. coli	1 - Effluent Gross	0	--	Sample								=	1.0	=	1.0	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															
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	103.0	=	151.0	26 - lb/d			=	4.0	=	5.0	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.	<=	325.0 MO AVG	<=	488.0 MX WK AV	26 - lb/d			<=	6.0 MO AVG	<=	9.0 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								=	145.0	=	187.0	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					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						=	98.0					23 - %	0	01/30 - Monthly	CA - CALCTD
					Permit Req.						>=	85.0 MO AV MN					23 - %		01/30 - Monthly	CA - CALCTD
					Value NODI															

NAME OF TREATMENT PLANT FLOYDS FORK COUNTY JEFFERSON MONTH OF: August 2020
 KPDES PERMIT NUMBER KY0102784 PLANT CAPACITY 3.5 MGD RECEIVING STREAM FLOYDS FORK

DATE	TOTAL FLOW (MILLION GALLONS)	RAW SEWAGE		pH		SETTLABLE SOLIDS (mg/L)		DISSOLVED OXYGEN (mg/L)		SUSPENDED SOLIDS (mg/L)		5 DAY CBOD (mg/L)		ACTIVATED SLUDGE			AERATION BASIN						SLUDGE HANDLING						FINAL			Total Nitrogen	TOTAL FLOW (MILLION GALLONS)		
		GRIT REMOVED (CUBIC FEET)	SCREENINGS (CUBIC FEET)	RAW	FINAL	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	STREAM ABOVE	FINAL EFFLUENT	STREAM BELOW	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	RETURN		WASTED	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) x 1000	MLVSS (mg/L) x 1000	SETTLED SLUDGE VOLUME		RAW		HAULED		PHOSPHORUS, TOTAL (mg/L)	NH3-N (mg/L)			ECOLI	
																		GAL/DAY x 1000	MLSS x 1000					GAL/DAY x 1000	30 MIN.	60 MIN.	GALLONS x 1000	% DRY SOLIDS	% VOLATILE SOLIDS						% DRY SOLIDS
1	5.551	2.48	2.48															2.50		50000	6.0			250		5.12								5.1192837	
2	6.017	2.48	2.48								133		3	68				2.20		50000	6.2			300		6.26			0	0.30	0.35		6.26	6.2557216	
3	4.211	2.48	2.48	7.3														0.90	9360	50000	3.0	3520	2220	300		4.24			1.78	59000			1	4.2391057	
4	3.886	2.48	2.48	7.3														0.90	9450	60000	3.7	3630	2560	300		3.71			0				3.7129309		
5	3.056	2.48	2.48	7.3	8.3				10.4									0.90	8870	60000	4.0	3050	1930	280		3.30			59000					3.2997966	
6	2.887	2.48	2.48	7.2														0.90	7570	50000	4.4	2890	1790	290		3.11			0					3.1131842	
7	2.748	2.48	2.48	7.3														0.95	7060	50000	3.1	3190	2080	300		2.99			56700					2.9860919	
8	2.691	2.48	2.48															0.86		50000	3.0			300		2.94			0					2.9421072	
9	2.755	2.48	2.48								238		3	187				0.95		50000	3.2			300		2.97			0	0.30	1.40		13.5	2.9715495	
10	3.339	2.48	2.48	7.4														1.02	6640	50000	2.4	3060	2030	300		3.28			1.99	63000			1	3.2754257	
11	3.242	2.48	2.48	7.2														0.97	8310	50000	3.0	3130	2160	300		3.55			63000					3.5484054	
12	2.852	2.48	2.48	7.2	7.8				10.4									0.97	8300	50000	3.1	3200	2240	290		3.07			0					3.0738535	
13	2.722	2.48	2.48	7.2														0.99	6360	50000	3.0	3160	2210	300		2.94			63000					2.9428422	
14	3.641	2.48	2.48	7.3														1.07	6490	50000	3.4	2900	2000	290		3.73			0					3.7288411	
15	3.188	2.48	2.48															1.18		40000	3.6			300		3.50			0					3.4965539	
16	2.946	2.48	2.48								134		3	186				1.28		50000	3.4			300		3.22			0	0.30	0.02		11.2	3.2186222	
17	2.820	2.48	2.48	7.4														0.81	7200	50000	3.2	2960	2110	300		3.05			1.82	69300			1	3.0537133	
18	2.740	2.48	2.48	7.2														0.83	7660	50000	3.0	2720	1910	290		2.92			56700					2.9229109	
19	2.712	2.48	2.48	7.5	7.7				10.0									0.79	7200	50000	3.1	2600	1860	290		2.89			63000					2.8862977	
20	2.612	2.48	2.48	7.3														0.88	7050	40000	3.1	2550	1800	300		2.799			44100					2.798861	
21	2.601	2.48	2.48	7.4														0.91	7020	40000	3.3	3020	2280	310		2.71			63000					2.7083256	
22	2.708	2.48	2.48															0.94		40000	2.6			340		2.86			0					2.8549349	
23	2.783	2.48	2.48								178		3	137				0.85		40000	2.5			350		3.02			0	0.30	0.80		10.2	3.0194986	
24	2.608	2.48	2.48	7.4														0.90	7000	30000	3.1	3160	2490	320		2.84			1.86	0			1	2.8398185	
25	2.524	2.48	2.48	7.1														0.76	6920	40000	3.3	2910	2190	340		2.75			63000					2.7514472	
26	2.559	2.48	2.48	7.2	7.7				10.0									0.77	6460	50000	3.0	2930	2140	350		2.71			44100					2.7121959	
27	2.515	2.48	2.48	7.1														0.82	8650	40000	2.8	2800	2090	340		2.64			31500					2.6407869	
28	2.774	2.48	2.48	7.3														0.72	6830	50000	2.6	3140	2410	380		2.90			75600					2.9037604	
29	3.436	2.48	2.48															0.61		40000	2.9			310		3.62			0					3.6235681	
30	2.893	2.48	2.48															0.88		40000	3.7			310		3.13			0					3.1250408	
31	3.091	2.48	2.48	7.1														8.68	8780	50000	3.1	3130	2480	370		3.12			85000					3.1211076	
Tot.	97.11	76.88	76.88															38.68									101.9			959000					101.89
Avg.	3.133	2.48	2.48	7.3	7.9				10.2		171		3	145				1.248	7580	47097	3.348	3031	2142	309.7		3.287			1.863	30935	0.30	0.64	1	10.29	3.287

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT
29833 FLOW 22206 CBOD 21242 TSS

Randolph Kustes Jr
OPERATOR

35823
CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS

SEWER CONNECTIONS 0 X 4 = 0 SEWERED POPULATION

502-540-6000

PLANT TELEPHONE