



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

September 20, 2023

Ms. Crystal Dennis
Kentucky Division of Water
300 Sower Blvd., 3rd Floor
Frankfort, Kentucky 40601

**Re: Derek Guthrie Water Quality Treatment Center
KPDES Permit No. KY0078956,
Discharge monitoring report for August 2023.**

Dear Ms. Crystal Dennis:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Derek Guthrie WQTC, KPDES No: KY0078956, for the month of August 2023.

There were no bypasses, overflow or exceedances for the Derek Guthrie WQTC.

If you have any questions concerning the attached DMR's, please contact me at (502)540-6031.
Sincerely,

Kevin Thompson
Process Supervisor, West Region

KLT/West County 8/23

Enclosures

cc: B. Tinnell
V. Graves
M. Saylor

Name of Sewage Treatment Plan West County WTP Jefferson County Month of: August 2023
 KPDES Permit Number: KY0078956 Plant Capacity: 30 MGD Receiving Stream: Ohio River

Date	Total Flow (MG) <small>(MGD)</small>	Raw Sewage		pH		Settleable Solids (mL/L)			Dissolved Oxygen (mg/L)			Suspended Solids (mg/L)			Total Solids (mg/L)			5-day BOD (mg/L)			Activated Sludge		Aeration Basin						Phosphorus mg/L		Final			Total mg/L		Cr +6 mg/L												
		Removed (cu. ft.)	Screenings (cu. ft.)	Raw	Final	Raw	Primary (or Sec.)	Final	Stream Above	Final	Stream Below	Raw	Primary (or Sec.)	Final	Raw	Primary (or Sec.)	Final	Raw	Primary (or Sec.)	Final	Raw	Primary (or Sec.)	Final	Gal/Day	MLSS mg/L X 1000	Gal/Day X 1000	Oxygen (mg/L) #1	Oxygen (mg/L) #2	(mg/L) X 1000 #1	MLVSS (mg/L) X 1000	30 min. SVI	60 min. SVI	% Solids	Raw	Final	Chlorine Residual (mg/L)	NH3-N (mg/L)	E. Coli (MPN)	Raw	Final	Final							
1	20.29			7.3	7.2				6.0		1200.0		10.0			665.0		10.0				2480						2280	1860	100					13.20	3.31	0.016	3.10	4									
2	19.74			7.2	7.5				5.5		890.0		9.0			662.0		45.0				4380						2240	1840	110							0.016	6.50	2	55	14							
3	23.67			7.3	7.6				6.0		956.0		7.0			827.0		24.0				3060						2730	2220	150							0.016	6.40	47									
4	22.39			7.4	7.5				6.0		1080.0		10.0			876.0		20.0				5140						3000	2420	180							0.016	7.30	29									
5	19.47			7.4	7.3				6.0		1010.0		7.0			637.0		19.0				4420						2520	2080	160							0.016	9.40	63									
6	21.85			7.4	7.2				6.4		984.0		6.0			687.0		15.0				7180						3230	2640	180							0.016	4.50	4									
7	25.23			7.1	7.5				6.2		884.0		6.0			618.0		11.0				5040						3050	2500	200							0.016	2.10	4									
8	36.32			7.0	7.4				5.5		1030.0		10.0			853.0		33.0				7200						3380	2740	190							0.016	6.50	20									
9	33.64			7.3	7.4				5.3		920.0		10.0			615.0		22.0				7760						4180	3440	220			18.20	1.83	0.016	7.10	2	65	10									
10	40.75			7.2	7.5				5.0		676.0		8.0			553.0		31.0				8280						4280	3580	270							0.016	7.00	11									
11	36.51			7.4	7.2				6.7		776.0		6.0			477.0		11.0				7300						3880	3190	240							0.016	5.00	2									
12	39.75			7.4	7.4				6.5		376.0		9.0			401.0		30.0				8560						3470	2880	220							0.016	4.70	2									
13	41.11			7.4	7.5				5.9		628.0		8.0			507.0		15.0				8140						3900	3280	180							0.016	4.00	38									
14	45.67			7.2	7.3				5.6		608.0		10.0			550.0		23.0				7580						2450	2050	160							0.016	5.00	11									
15	49.69			7.2	7.3				5.9		1770.0		13.0			939.0		29.0				9960						3330	2780	200							0.016	5.80	256									
16	40.00			7.3	7.3				6.4		704.0		9.0			597.0		17.0				8460						3100	2580	200			14.30	1.17	0.016	5.20	2	45	10									
17	37.29			7.3	7.2				6.4		748.0		6.0			582.0		19.0				8460						3140	2600	200							0.016	3.90	329									
18	15.59			7.2	7.3				6.1		500.0		7.0			485.0		25.0				8440						3410	2860	220							0.016	5.70	209									
19	35.43			7.2	7.3				5.4		1140.0		9.0			779.0		26.0				7940						3600	3030	200							0.016	7.00	2									
20	32.44			7.3	7.3				5.0		716.0		10.0			630.0		29.0				7840						3030	2540	200							0.016	7.00	7									
21	32.63			7.3	7.3				6.8		1110.0		9.0			690.0		15.0				7300						4680.00	3990	200							0.016	5.00	2									
22	29.69			7.3	7.5				7.0		1290.0		9.0			962.0		26.0				8200						1730	1470	100							0.016	9.20	22									
23	20.83			7.3	7.7				6.7		1670.0		8.0			1160.0		23.0				7060						4310.00	3670	250			29.50	2.04	0.016	13.00	4620	98	16									
24	21.05			7.4	7.3				6.5		1640.0		9.0			949.0		22.0				5740						3720	3170	200							0.016	13.00	2									
25	20.58			7.4	7.6				6.0		1310.0		7.0			1010.0		23.0				6020						3510	3000	200							0.016	10.00	2									
26	31.18			7.3	7.0				5.1		1420.0		12.0			1570.0		21.0				7660						2520	2120	110							0.016	11.00	97									
27	35.63			7.2	7.4				6.5		468.0		10.0			441.0		23.0				6820						3790	3020	200							0.016	6.50	11									
28	24.84			7.3	7.6				6.5		756.0		6.0			640.0		15.0				6880						3510	2970	200							0.016	4.70	2									
29	27.29			7.3	7.6				6.1		788.0		8.0			681.0		36.0				7780						2470	2100	150							0.016	9.40	7									
30	20.31			7.2	7.6				6.3		372.0		10.0			354.0		22.0				6820						2620	2220	170							0.016	13.00	2									
31	21.26			7.3	7.6				6.8		1390.0		8.0			917.0		11.0				5480						2670	2260	150							0.016	9.80	2									
Total	922.1	0	0																			0.0		0.0																								
Avg	29.75			7.3	7.4				6.1		961.6		8.6			719.8		22.3				6735.48						3217.10	2680.00	184.19			18.80	2.09	0.016	7.03	11	63	12									

Industrial Connections: 36173
34248
1907
18
 Sewer Connections X 3 = 102744

Flow 180547
 BOD 947657
 TSS 1033233

Operator Gary Phelps
 Cert. # 30428
 Phone # 502-540-6000