

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: August 2020

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT*

TOTAL FLOW TO PLANT: 144,085,000 GALLONS
AVERAGE B.O.D. : 289 mg/L
AVERAGE SUSPENDED SOLIDS : 221 mg/L
AVERAGE PHOSPHORUS : 5.89 mg/L
AVERAGE AMMONIA-N : 40.89 mg/L
AVERAGE CHLORIDES : 805.38 mg/L

MAXIMUM DAILY FLOW TO PLANT:
5,320,000

PERCENT (%) BY COMMUNITY OF TOTAL MONTHLY VOLUME TREATED AT WWTP

<u>COMMUNITY</u>	<u>FLOW</u>	<u>BOD</u>	<u>TSS</u>	<u>PHOSPHORUS</u>	<u>AMMONIA</u>	<u>CHLORIDES</u>
KAUKAUNA	36.40	25.83	29.42	31.15	28.03	28.04
LITTLE CHUTE	29.09	35.70	29.39	28.92	43.57	38.08
KIMBERLY	11.21	10.48	10.50	10.23	7.38	19.41
COMBINED LOCKS	4.66	5.52	7.62	6.87	4.12	1.20
DARBOY	18.64	22.47	23.07	22.83	16.91	13.27

<u>AVERAGE DAILY INFLUENT LOADINGS</u>	<u>%</u>	<u>MAX</u>	<u>PLANT DESIGN CRITERIA</u>	<u>AVG</u>	<u>%</u>
FLOW : 4,647,903 GALLONS	39.1	11,900,000	GALLONS/DAY	8,500,000	54.68
B.O.D. : 11,210 POUNDS	76.5	14,651	POUNDS/DAY	12,209	91.82
SUSPENDED SOLIDS : 8,592 POUNDS	52.8	16,278	POUNDS/DAY	13,565	63.34
PHOSPHORUS : 228.52 POUNDS	56.1	407	POUNDS/DAY	339	67.41
AMMONIA-N : 1,580 POUNDS	82.3	1,920	POUNDS/DAY	1,600	98.72
CHLORIDES : 31,427 POUNDS					

FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>%</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
FLOW: 1,069,935			
SUSPENDED SOLIDS : 11.42 mg/L	38.1	30	mg/L
SUSPENDED SOLIDS : 100.44 lbs	12.5	801	lbs
B.O.D. : 10.24 mg/L	41.0	25	mg/L
PHOSPHORUS : 0.29 mg/L	29.2	1	mg/L
AMMONIA-N : 0.52 mg/L	11.8	4.4	mg/L
CHLORIDES : 769.23 mg/L			

FOX ENERGY CENTER PUMPED: 110,917,000 GALLONS

Effluent to Fox Energy
77%

* INCLUDES HAULED WASTE

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: AUGUST

YEAR: 2020

<u>DATE</u>	<u>PLANT INCHES</u>	<u>KAUKAUNA INCHES</u>	<u>LITTLE CHUTE INCHES</u>	<u>KIMBERLY INCHES</u>	<u>DARBOY INCHES</u>
1	0.00	0.00	0.00	No Data	0.00
2	0.26	0.14	0.14	No Data	0.06
3	0.00	0.00	0.00	No Data	0.00
4	0.00	0.00	0.00	No Data	0.00
5	0.00	0.00	0.00	No Data	0.00
6	0.00	0.00	0.00	No Data	0.00
7	0.00	0.00	0.00	No Data	0.00
8	0.21	0.14	0.19	No Data	0.10
9	0.00	0.00	0.00	No Data	0.00
10	0.00	0.01	0.00	No Data	0.00
11	0.00	0.00	0.00	No Data	0.00
12	0.00	0.00	0.00	No Data	0.00
13	0.00	0.00	0.00	No Data	0.00
14	0.00	0.00	0.00	No Data	0.00
15	0.00	0.00	0.00	No Data	0.00
16	0.00	0.00	0.00	No Data	0.00
17	0.00	0.00	0.00	No Data	0.00
18	0.00	0.00	0.00	No Data	0.00
19	0.00	0.00	0.00	No Data	0.00
20	0.00	0.00	0.00	No Data	0.00
21	0.00	0.00	0.00	No Data	0.00
22	0.00	0.00	0.00	No Data	0.00
23	0.00	0.00	0.00	No Data	0.00
24	0.00	0.00	0.00	No Data	0.00
25	0.22	0.54	0.62	No Data	0.41
26	0.00	0.00	0.00	No Data	0.00
27	0.01	0.24	0.25	No Data	0.64
28	0.12	0.28	0.26	No Data	0.27
29	0.05	0.00	0.00	No Data	0.00
30	0.02	0.00	0.00	No Data	0.00
31	0.01	0.04	0.05	No Data	0.05
TOTAL:	0.90	1.39	1.51	0.00	1.53