

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: November 2020

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT*

TOTAL FLOW TO PLANT: 167,558,000 GALLONS
AVERAGE B.O.D. : 240 mg/L
AVERAGE SUSPENDED SOLIDS : 193 mg/L
AVERAGE PHOSPHORUS : 4.71 mg/L
AVERAGE AMMONIA-N : 35.59 mg/L
AVERAGE CHLORIDES : 564.62 mg/L

MAXIMUM DAILY FLOW TO PLANT:
8,353,000

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	38.70	23.86	25.52	28.92	24.57	36.80
LITTLE CHUTE	27.77	36.56	33.88	29.16	48.89	32.90
KIMBERLY	12.27	10.67	10.11	11.39	7.34	16.15
COMBINED LOCKS	6.07	6.37	6.35	7.59	4.56	1.97
DARBOY	15.19	22.54	24.14	22.95	14.63	12.18

AVERAGE DAILY INFLUENT LOADINGS

FLOW : 5,585,267 GALLONS
B.O.D. : 10,919 POUNDS
SUSPENDED SOLIDS : 8,928 POUNDS
PHOSPHORUS : 214.05 POUNDS
AMMONIA-N : 1,605 POUNDS
CHLORIDES : 25,765 POUNDS

PLANT DESIGN CRITERIA

<u>%</u>	<u>MAX</u>	<u>AVG</u>	<u>%</u>
46.9	11,900,000	8,500,000	65.71
74.5	14,651	12,209	89.43
54.8	16,278	13,565	65.82
52.6	407	339	63.14
83.6	1,920	1,600	100.28

FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>%</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
FLOW: 2,762,467			
SUSPENDED SOLIDS : 17.99 mg/L	60.0	30	mg/L
SUSPENDED SOLIDS : 401.29 lbs	50.1	801	lbs
B.O.D. : 13.93 mg/L	55.7	25	mg/L
PHOSPHORUS : 0.39 mg/L	39.2	1	mg/L
AMMONIA-N : 1.32 mg/L	7.3	18	mg/L
CHLORIDES : 576.15 mg/L			

FOX ENERGY CENTER PUMPED: 84,684,000 GALLONS

Effluent to Fox Energy
51%

* INCLUDES HAULED WASTE

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: NOVEMBER

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	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00
10	0.99	1.03	1.08	1.30	1.13
11	0.00	0.00	0.00	0.00	0.00
12	0.02	0.03	0.03	0.05	0.04
13	0.02	0.01	0.01	0.01	0.01
14	0.08	0.05	0.10	0.05	0.05
15	0.28	0.29	0.37	0.32	0.32
16	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00
24	0.23	0.22	0.29	0.19	0.19
25	0.01	0.00	0.01	0.00	0.01
26	0.00	0.01	0.01	0.01	0.00
27	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00
TOTAL:	1.63	1.64	1.90	1.93	1.75