

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: MARCH 2020

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT*

TOTAL FLOW TO PLANT: 290,643,000 GALLONS
AVERAGE B.O.D. : 156 mg/L
AVERAGE SUSPENDED SOLIDS : 125 mg/L
AVERAGE PHOSPHORUS : 2.97 mg/L
AVERAGE AMMONIA-N : 22.59 mg/L
AVERAGE CHLORIDES : 487.14 mg/L

MAXIMUM DAILY FLOW TO PLANT:
15,293,000

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	40.17	27.16	33.43	29.92	26.10	32.56
LITTLE CHUTE	28.12	33.17	23.71	28.02	43.35	32.60
KIMBERLY	13.59	8.77	9.62	10.51	7.82	16.60
COMBINED LOCKS	6.46	7.00	6.07	6.27	5.68	2.34
DARBOY	11.67	23.90	27.18	25.27	17.04	15.91

<u>AVERAGE DAILY INFLUENT LOADINGS</u>	<u>%</u>	<u>MAX</u>	<u>PLANT DESIGN CRITERIA</u>	<u>AVG</u>	<u>%</u>
FLOW : 9,375,581 GALLONS	78.8	11,900,000	GALLONS/DAY	8,500,000	110.30
B.O.D. : 11,253 POUNDS	76.8	14,651	POUNDS/DAY	12,209	92.17
SUSPENDED SOLIDS : 8,921 POUNDS	54.8	16,278	POUNDS/DAY	13,565	65.76
PHOSPHORUS : 211.82 POUNDS	52.0	407	POUNDS/DAY	339	62.48
AMMONIA-N : 1,571 POUNDS	81.8	1,920	POUNDS/DAY	1,600	98.18
CHLORIDES : 35,116 POUNDS					

FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>%</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
FLOW: 6,741,258			
SUSPENDED SOLIDS : 10.76 mg/L	35.9	30	mg/L
SUSPENDED SOLIDS : 720.66 lbs	90.0	801	lbs
B.O.D. : 8.27 mg/L	33.1	25	mg/L
PHOSPHORUS : 0.19 mg/L	19.4	1	mg/L
AMMONIA-N : 0.27 mg/L	2.7	10	mg/L
CHLORIDES : 493.57 mg/L			

FOX ENERGY CENTER PUMPED: 81,664,000 GALLONS

Effluent to Fox Energy
28%

* INCLUDES HAULED WASTE