

# HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: JANUARY 2020

## HYDRAULIC AND ORGANIC LOADINGS DATA

### INFLUENT\*

**TOTAL FLOW TO PLANT:** 172,999,000 GALLONS  
**AVERAGE B.O.D. :** 233 mg/L  
**AVERAGE SUSPENDED SOLIDS :** 174 mg/L  
**AVERAGE PHOSPHORUS :** 4.41 mg/L  
**AVERAGE AMMONIA-N :** 33.93 mg/L  
**AVERAGE CHLORIDES :** 618.46 mg/L

**MAXIMUM DAILY FLOW TO PLANT:**  
8,538,000

### 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	38.93	26.31	30.55	29.15	22.94	33.27
LITTLE CHUTE	28.17	38.06	29.76	30.78	47.58	31.86
KIMBERLY	12.15	9.14	9.13	10.62	7.96	16.93
COMBINED LOCKS	5.79	5.61	5.69	6.50	5.10	2.04
DARBOY	14.97	20.89	24.88	22.95	16.42	15.91

<u>AVERAGE DAILY INFLUENT LOADINGS</u>	<u>%</u>	<u>MAX</u>	<u>PLANT DESIGN CRITERIA</u>	<u>AVG</u>	<u>%</u>
<b>FLOW :</b> 5,580,613 GALLONS	46.9	11,900,000	GALLONS/DAY	8,500,000	65.65
<b>B.O.D. :</b> 10,496 POUNDS	71.6	14,651	POUNDS/DAY	12,209	85.97
<b>SUSPENDED SOLIDS :</b> 7,805 POUNDS	48.0	16,278	POUNDS/DAY	13,565	57.54
<b>PHOSPHORUS :</b> 198 POUNDS	48.7	407	POUNDS/DAY	339	58.48
<b>AMMONIA-N :</b> 1,530 POUNDS	79.7	1,920	POUNDS/DAY	1,600	95.62
<b>CHLORIDES :</b> 28,151 POUNDS					

### FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>%</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
<b>FLOW:</b> 2,794,839			
<b>SUSPENDED SOLIDS :</b> 9.64 mg/L	32.1	30	mg/L
<b>SUSPENDED SOLIDS :</b> 218.70 lbs	27.3	801	lbs
<b>B.O.D. :</b> 7.20 mg/L	28.8	25	mg/L
<b>PHOSPHORUS :</b> 0.19 mg/L	19.4	1	mg/L
<b>AMMONIA-N :</b> 0.24 mg/L	2.4	10	mg/L
<b>CHLORIDES :</b> 632.31 mg/L			

**FOX ENERGY CENTER PUMPED:** 86,359,000 GALLONS

Effluent to Fox Energy  
**50%**

\* INCLUDES HAULED WASTE