

# HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: October 2020

## HYDRAULIC AND ORGANIC LOADINGS DATA

### INFLUENT\*

**TOTAL FLOW TO PLANT:** 164,399,000 GALLONS  
**AVERAGE B.O.D. :** 256 mg/L  
**AVERAGE SUSPENDED SOLIDS :** 205 mg/L  
**AVERAGE PHOSPHORUS :** 5.41 mg/L  
**AVERAGE AMMONIA-N :** 41.27 mg/L  
**AVERAGE CHLORIDES :** 613.85 mg/L

**MAXIMUM DAILY FLOW TO PLANT:**  
12,572,000

### 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	39.04	25.84	29.53	30.20	27.30	33.13
LITTLE CHUTE	26.85	34.57	30.08	27.10	44.67	34.92
KIMBERLY	12.05	10.21	10.06	12.02	7.42	15.48
COMBINED LOCKS	5.81	6.08	6.59	6.78	4.71	2.14
DARBOY	16.24	23.30	23.75	23.90	15.91	14.32

<u>AVERAGE DAILY INFLUENT LOADINGS</u>	<u>%</u>	<u>MAX</u>	<u>PLANT DESIGN CRITERIA</u>	<u>AVG</u>	<u>%</u>
<b>FLOW :</b> 5,303,194 GALLONS	44.6	11,900,000	GALLONS/DAY	8,500,000	62.39
<b>B.O.D. :</b> 10,539 POUNDS	71.9	14,651	POUNDS/DAY	12,209	86.32
<b>SUSPENDED SOLIDS :</b> 8,432 POUNDS	51.8	16,278	POUNDS/DAY	13,565	62.16
<b>PHOSPHORUS :</b> 221.72 POUNDS	54.5	407	POUNDS/DAY	339	65.40
<b>AMMONIA-N :</b> 1,747 POUNDS	91.0	1,920	POUNDS/DAY	1,600	109.20
<b>CHLORIDES :</b> 26,406 POUNDS					

### FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>%</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
<b>FLOW:</b> 3,175,871			
<b>SUSPENDED SOLIDS :</b> 19.91 mg/L	66.4	30	mg/L
<b>SUSPENDED SOLIDS :</b> 516.84 lbs	64.5	801	lbs
<b>B.O.D. :</b> 13.09 mg/L	52.4	25	mg/L
<b>PHOSPHORUS :</b> 0.47 mg/L	46.7	1	mg/L
<b>AMMONIA-N :</b> 0.84 mg/L	4.7	18	mg/L
<b>CHLORIDES :</b> 594.62 mg/L			

**FOX ENERGY CENTER PUMPED:** 65,947,000 GALLONS

Effluent to Fox Energy  
**40%**

\* INCLUDES HAULED WASTE

# RAIN GAUGES

## DAILY RAINFALL TOTALS

MONTH: OCTOBER

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	0.01	0.08	0.00	0.01
2	0.00	0.01	0.00	0.00	0.00
3	0.22	0.22	0.32	0.34	0.35
4	0.01	0.00	0.01	0.01	0.01
5	0.00	0.00	0.00	0.00	0.00
6	0.00	0.03	0.00	0.00	0.00
7	0.03	0.02	0.02	0.02	0.01
8	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00
12	0.30	0.35	0.32	0.27	0.41
13	0.00	0.00	0.00	0.00	0.01
14	0.01	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00
16	0.02	0.03	0.03	0.05	0.05
17	0.02	0.03	0.02	0.01	0.02
18	0.02	0.01	0.02	0.02	0.02
19	0.00	0.00	0.00	0.00	0.00
20	0.14	0.14	0.16	0.18	0.16
21	0.01	0.01	0.01	0.01	0.01
22	1.58	1.49	1.50	1.78	1.93
23	0.79	0.84	0.82	1.02	0.92
24	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00
26	0.04	0.06	0.06	0.06	0.06
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
31	0.00	0.00	0.00	0.00	0.00
<b>TOTAL:</b>	<b>3.19</b>	<b>3.25</b>	<b>3.37</b>	<b>3.77</b>	<b>3.97</b>