

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: AUGUST 2016

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT

TOTAL FLOW TO PLANT: 131,529,000 GALLONS
AVERAGE B.O.D. : 217 mg/L
AVERAGE SUSPENDED SOLIDS : 240 mg/L
AVERAGE PHOSPHORUS : 6.59 mg/L
AVERAGE AMMONIA-N : 40.64 mg/L
AVERAGE CHLORIDES : 693.85 mg/L

MAXIMUM DAILY FLOW TO PLANT:
5,507,000 Gallons

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	34.19	24.18	24.67	27.68	30.02	26.29
LITTLE CHUTE	26.09	29.21	29.57	27.51	34.90	31.27
KIMBERLY	14.01	16.19	14.55	13.06	10.85	19.50
COMBINED LOCKS	5.57	5.91	6.29	6.68	5.58	1.53
DARBOY	20.14	24.51	24.93	25.07	18.66	21.41

AVERAGE DAILY INFLUENT LOADINGS

FLOW : 4,242,871 GALLONS
B.O.D. : 7,920 POUNDS
SUSPENDED SOLIDS : 8,780 POUNDS
PHOSPHORUS : 241 POUNDS
AMMONIA-N : 1,486 POUNDS
CHLORIDES : 25,371 POUNDS

<u>%</u>
35.7
54.1
53.9
59.2
77.4

PLANT DESIGN CRITERIA

11,900,000 GALLONS/DAY
 14,651 POUNDS/DAY
 16,278 POUNDS/DAY
 407 POUNDS/DAY
 1,920 POUNDS/DAY

FINAL EFFLUENT

**MONTHLY
AVERAGE**

cB.O.D. : 4.60 mg/L
SUSPENDED SOLIDS : 23.37 mg/L
PHOSPHORUS : 0.55 mg/L
AMMONIA-N : 0.57 mg/L
CHLORIDES : 762.31 mg/L

<u>%</u>
18.4
77.9
55.2

**PERMIT
LIMIT**

25 mg/L
 30 mg/L
 1 mg/L

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: AUGUST

YEAR: 2016

<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
2	0.00	0.00	0.00	GAUGE	0.00
3	0.00	0.00	0.00	NOT	0.00
4	0.02	0.03	0.02	WORKING	0.03
5	0.00	0.00	0.00	NEEDS	0.01
6	0.00	0.00	0.00	TO BE	0.00
7	0.00	0.00	0.00	CHECKED	0.00
8	0.00	0.00	0.00	OUT	0.00
9	0.00	0.00	0.00		0.00
10	0.00	0.00	0.00		0.00
11	0.04	0.04	0.06		0.04
12	0.00	0.00	0.00		0.00
13	0.39	0.41	0.42		0.39
14	0.00	0.00	0.00		0.00
15	0.00	0.00	0.00		0.00
16	0.00	0.19	0.02	0.17	0.34
17	0.12	0.08	0.08	0.08	0.07
18	0.00	0.00	0.00	0.00	
19	0.37	0.38	0.20	0.20	GAUGE
20	1.01	0.89	0.68	0.62	NOT
21	0.03	0.11	0.10	0.18	WORKING
22	0.00	0.00	0.00	0.00	NEEDS
23	0.00	0.00	0.00	0.00	TO BE
24	0.56	0.46	0.41	0.41	CHECKED
25	0.00	0.00	0.00	0.00	OUT
26	0.00	0.00	0.00	0.00	
27	0.20	0.18	0.18	0.18	
28	0.00	0.01	0.00	0.00	
29	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	
TOTAL:	2.74	2.78	2.17	1.84	0.88