

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: APRIL 2016

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT

TOTAL FLOW TO PLANT: 201,541,000 GALLONS
AVERAGE B.O.D. : 168 mg/L
AVERAGE SUSPENDED SOLIDS : 161 mg/L
AVERAGE PHOSPHORUS : 4.00 mg/L
AVERAGE AMMONIA-N : 21.70 mg/L
AVERAGE CHLORIDES : 462.50 mg/L

MAXIMUM DAILY FLOW TO PLANT:
10,628,000 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	40.57	27.58	29.53	27.89	31.55	34.17
LITTLE CHUTE	24.95	28.12	24.86	30.08	29.10	30.56
KIMBERLY	13.49	14.93	17.12	14.18	11.75	16.60
COMBINED LOCKS	6.28	6.38	6.90	6.54	7.10	2.37
DARBOY	14.71	22.99	21.60	21.31	20.50	16.29

AVERAGE DAILY INFLUENT LOADINGS

FLOW : 6,718,033 GALLONS
B.O.D. : 9,409 POUNDS
SUSPENDED SOLIDS : 9,037 POUNDS
PHOSPHORUS : 224 POUNDS
AMMONIA-N : 1,216 POUNDS
CHLORIDES : 25,913 POUNDS

<u>%</u>
56.5
64.2
55.5
55.0
63.3

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. : 4.84 mg/L
SUSPENDED SOLIDS : 9.61 mg/L
PHOSPHORUS : 0.21 mg/L
AMMONIA-N : 0.35 mg/L
CHLORIDES : 447.50 mg/L

<u>%</u>
19.4
32.0
20.9

PERMIT LIMIT

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

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: APRIL

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	0.02		0.02	0.00
2	0.01	0.01		0.03	0.03
3	0.00	0.01		0.01	0.00
4	0.00	0.00		0.00	0.00
5	0.00	0.01		0.01	0.01
6	0.29	0.23		0.22	0.26
7	0.00	0.01	INTERNAL	0.02	0.02
8	0.06	0.04	BATTERY	0.03	0.04
9	0.01	0.02	REPLACED	0.02	0.01
10	0.00	0.00	ON	0.00	0.00
11	0.00	0.00	APRIL 12TH	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00
13	0.20	0.20	0.23	0.18	0.22
14	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00
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	0.01	0.01	0.01	0.01	0.01
20	0.01	0.01	0.00	0.03	0.04
21	0.02	0.01	0.05	0.01	0.01
22	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00
24	0.18	0.18	0.20	0.21	0.24
25	0.01	0.01	0.01	0.01	0.00
26	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00
28	0.06	0.07	0.06	0.07	0.06
29	0.03	0.01	0.01	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00
TOTAL:	0.89	0.85	0.57	0.88	0.95