

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: MAY 2018

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT*

TOTAL FLOW TO PLANT: 249,379,000 GALLONS
AVERAGE B.O.D. : 179 mg/L
AVERAGE SUSPENDED SOLIDS : 151 mg/L
AVERAGE PHOSPHORUS : 3.61 mg/L
AVERAGE AMMONIA-N : 23.48 mg/L
AVERAGE CHLORIDES : 510.67 mg/L

MAXIMUM DAILY FLOW TO PLANT:
23,269,000

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	41.70	31.97	33.55	31.84	27.95	35.79
LITTLE CHUTE	24.77	28.68	24.96	24.70	34.00	31.00
KIMBERLY	13.94	12.00	13.05	12.59	9.58	14.35
COMBINED LOCKS	6.55	5.94	6.47	7.24	6.91	2.07
DARBOY	13.04	21.41	21.97	23.63	21.56	16.79

AVERAGE DAILY INFLUENT LOADINGS

FLOW : 8,044,484 GALLONS
B.O.D. : 12,034 POUNDS
SUSPENDED SOLIDS : 10,103 POUNDS
PHOSPHORUS : 242 POUNDS
AMMONIA-N : 1,575 POUNDS
CHLORIDES : 34,261 POUNDS

%

67.6
82.1
62.1
59.6
82.0

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

<u>MONTHLY AVERAGE</u>	<u>%</u>	<u>MONTHLY AVG PERMIT LIMIT</u>
FLOW: 6,132,129		
SUSPENDED SOLIDS : 11.15 mg/L	37.2	30 mg/L
SUSPENDED SOLIDS : 649.27 lbs	81.1	801 lbs
cB.O.D. : 4.51 mg/L	18.1	25 mg/L
PHOSPHORUS : 0.20 mg/L	19.9	1 mg/L
AMMONIA-N : 0.24 mg/L	2.4	10 mg/L
CHLORIDES : 466.67 mg/L		

FOX ENERGY CENTER PUMPED: 59,283,000 GALLONS

Effluent to Fox Energy
24%

* INCLUDES HAULED WASTE

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: MAY

YEAR: 2018

<u>DATE</u>	<u>PLANT</u> <u>INCHES</u>	<u>KAUKAUNA</u> <u>INCHES</u>	<u>LITTLE CHUTE</u> <u>INCHES</u>	<u>KIMBERLY</u> <u>INCHES</u>	<u>DARBOY</u> <u>INCHES</u>
1	0.25	0.20	0.28	0.29	0.26
2	0.73	0.56	0.60	0.51	0.63
3	0.83	0.80	0.69	0.65	NR
4	0.69	0.69	0.71	0.70	NR
5	0.00	0.00	0.00	0.00	NR
6	0.08	0.08	0.06	0.06	NR
7	0.00	0.00	0.00	0.00	NR
8	0.00	0.00	0.00	0.00	NR
9	0.77	0.64	0.72	0.60	NR
10	0.00	0.01	0.00	0.00	NR
11	0.24	0.19	0.22	0.24	NR
12	0.01	0.02	0.02	0.01	NR
13	0.00	0.00	0.00	0.00	NR
14	0.01	0.01	0.02	0.03	NR
15	0.16	0.16	0.13	0.14	NR
16	0.00	0.00	0.00	0.00	NR
17	0.00	0.00	0.00	0.00	NR
18	0.00	0.00	0.00	0.00	NR
19	0.00	0.00	0.00	0.00	NR
20	0.00	0.00	0.00	0.00	NR
21	0.07	0.07	0.08	0.07	NR
22	0.00	0.00	0.00	0.00	NR
23	0.00	0.00	0.00	0.00	NR
24	0.00	0.00	0.00	0.00	NR
25	0.00	0.00	0.00	0.00	NR
26	0.00	0.00	0.00	0.00	NR
27	0.00	0.00	0.02	0.00	NR
28	0.03	0.02	0.00	0.02	NR
29	0.00	0.00	0.06	0.00	NR
30	0.10	0.15	0.17	0.20	NR
31	0.00	0.00	0.00	0.00	NR
TOTAL:	3.97	3.60	3.78	3.52	0.89