

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: JUNE 2019

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT*

TOTAL FLOW TO PLANT: 195,654,000 GALLONS
 AVERAGE B.O.D. : 213 mg/L
 AVERAGE SUSPENDED SOLIDS : 153 mg/L
 AVERAGE PHOSPHORUS : 4.02 mg/L
 AVERAGE AMMONIA-N : 28.78 mg/L
 AVERAGE CHLORIDES : 565.38 mg/L

MAXIMUM DAILY FLOW TO PLANT: 8,789,000

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	40.49	25.92	29.21	30.46	27.87	31.43
LITTLE CHUTE	26.54	32.67	26.21	26.08	37.09	29.27
KIMBERLY	12.36	10.64	11.22	11.49	9.38	18.58
COMBINED LOCKS	5.77	6.24	7.22	6.83	5.75	1.66
DARBOY	14.85	24.53	26.14	25.15	19.91	19.06

AVERAGE DAILY INFLUENT LOADINGS

FLOW : 6,521,800 GALLONS
 B.O.D. : 11,315 POUNDS
 SUSPENDED SOLIDS : 8,214 POUNDS
 PHOSPHORUS : 214.10 POUNDS
 AMMONIA-N : 1,498 POUNDS
 CHLORIDES : 69,471 POUNDS

PLANT DESIGN CRITERIA

<u>%</u>	<u>MAX</u>		<u>AVG</u>	<u>%</u>
54.8	11,900,000	GALLONS/DAY	8,500,000	76.73
77.2	14,651	POUNDS/DAY	12,209	92.68
50.5	16,278	POUNDS/DAY	13,565	60.55
52.6	407	POUNDS/DAY	339	63.16
78.0	1,920	POUNDS/DAY	1,600	93.62

FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>MONTHLY AVG PERMIT LIMIT</u>
FLOW: 3,725,400	
SUSPENDED SOLIDS : 7.52 mg/L	25.1 30 mg/L
SUSPENDED SOLIDS : 235.43 lbs	29.4 801 lbs
B.O.D. : 10.94 mg/L	36.5 30 mg/L
PHOSPHORUS : 0.21 mg/L	21.4 1 mg/L
AMMONIA-N : 2.11 mg/L	48.0 4.4 mg/L
CHLORIDES : 568.46 mg/L	

FOX ENERGY CENTER PUMPED: 83,892,000 GALLONS

Effluent to Fox Energy
43%

* INCLUDES HAULED WASTE

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: JUNE

YEAR: 2019

<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	0.39	0.28	0.29	0.41	0.23
2	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00
4	0.05	0.13	0.05	0.16	0.13
5	0.01	0.01	0.02	0.02	0.02
6	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00
9	0.06	0.08	0.06	0.05	0.06
10	0.00	0.01	0.01	0.01	0.00
11	0.00	0.00	0.00	0.00	0.00
12	0.76	0.64	0.58	0.94	0.63
13	0.00	0.00	0.00	0.00	0.00
14	0.33	0.32	0.30	0.42	0.40
15	0.00	0.01	0.01	0.02	0.02
16	0.04	0.05	0.08	0.11	0.10
17	0.00	0.00	0.00	0.00	0.00
18	0.33	0.18	0.32	0.30	0.20
19	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.03	0.00	0.00
24	0.78	0.92	0.60	0.51	0.73
25	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00
27	0.29	0.32	0.32	0.36	0.31
28	0.40	0.54	0.62	0.77	0.77
29	0.00	0.00	0.00	0.00	0.00
30	0.12	0.24	0.42	0.75	0.56
TOTAL:	3.56	3.73	3.71	4.83	4.16