

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: APRIL 2019

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT*

TOTAL FLOW TO PLANT: 239,147,000 GALLONS
 AVERAGE B.O.D. : 172 mg/L
 AVERAGE SUSPENDED SOLIDS : 136 mg/L
 AVERAGE PHOSPHORUS : 3.25 mg/L
 AVERAGE AMMONIA-N : 25.05 mg/L
 AVERAGE CHLORIDES : 513.08 mg/L

MAXIMUM DAILY FLOW TO PLANT: 12,967,000
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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	41.00	27.05	34.07	30.93	27.74	32.00
LITTLE CHUTE	26.61	38.53	27.18	27.91	38.76	33.92
KIMBERLY	13.35	10.53	11.04	13.26	9.15	15.07
COMBINED LOCKS	6.74	5.97	7.03	6.13	5.94	2.57
DARBOY	12.31	17.91	20.68	21.77	18.41	16.44

PLANT DESIGN CRITERIA

<u>AVERAGE DAILY INFLUENT LOADINGS</u>	<u>%</u>	<u>MAX</u>	<u>UNIT</u>	<u>AVG</u>	<u>%</u>	
FLOW :	7,971,567 GALLONS	67.0	11,900,000	GALLONS/DAY	8,500,000	93.78
B.O.D. :	10,997 POUNDS	75.1	14,651	POUNDS/DAY	12,209	90.07
SUSPENDED SOLIDS :	8,827 POUNDS	54.2	16,278	POUNDS/DAY	13,565	65.07
PHOSPHORUS :	207.05 POUNDS	50.9	407	POUNDS/DAY	339	61.08
AMMONIA-N :	1,609 POUNDS	83.8	1,920	POUNDS/DAY	1,600	100.58
CHLORIDES :	32,733 POUNDS					

FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	<u>UNIT</u>
FLOW: 5,016,400		
SUSPENDED SOLIDS : 11.23	37.4	mg/L
SUSPENDED SOLIDS : 555.09	69.3	lbs
B.O.D. : 11.87	47.5	mg/L
PHOSPHORUS : 0.38	38.4	mg/L
AMMONIA-N : 1.12	10.2	mg/L
CHLORIDES : 503.85		mg/L

FOX ENERGY CENTER PUMPED: 88,655,000 GALLONS

Effluent to Fox Energy
37%

* INCLUDES HAULED WASTE

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: APRIL

YEAR: 2019

<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	0.00
2	0.00	0.04	0.04	0.04	0.07
3	0.00	0.01	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00
5	0.00	0.01	0.02	0.01	0.00
6	0.00	0.01	0.01	0.02	0.02
7	0.00	0.17	0.22	0.22	0.20
8	0.10	0.10	0.08	0.13	0.14
9	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	faulty	0.00
11	0.11	0.00	0.00		0.00
12	0.03	0.22	0.09		0.22
13	0.00	0.00	0.00		0.00
14	0.00	0.00	0.00		0.00
15	0.00	0.00	0.00		0.00
16	0.23	0.11	0.18		0.11
17	0.59	0.39	0.46		0.39
18	0.01	0.00	0.01		0.00
19	0.00	0.00	0.00		0.00
20	0.00	0.00	0.00		0.00
21	0.00	0.00	0.00		0.00
22	1.17	0.91	0.82		0.91
23	0.02	0.02	0.01		0.02
24	0.00	0.00	0.00		0.00
25	0.12	0.14	0.13		0.14
26	0.00	0.01	0.00		0.01
27	0.00	0.00	0.00		0.00
28	0.00	0.00	0.00		0.00
29	0.16	0.15	0.21		0.15
30	0.01	0.01	0.02		0.01
TOTAL:	2.55	2.30	2.30	0.42	2.39