

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: OCTOBER 2018

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT*

TOTAL FLOW TO PLANT: 235,273,000 GALLONS
AVERAGE B.O.D. : 225 mg/L
AVERAGE SUSPENDED SOLIDS : 169 mg/L
AVERAGE PHOSPHORUS : 3.75 mg/L
AVERAGE AMMONIA-N : 24.72 mg/L
AVERAGE CHLORIDES : 414.62 mg/L

MAXIMUM DAILY FLOW TO PLANT:
18,291,000

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	41.93	23.07	31.78	31.47	25.06	33.55
LITTLE CHUTE	25.91	47.65	32.66	29.42	44.54	37.07
KIMBERLY	13.42	8.74	11.20	11.79	8.06	11.18
COMBINED LOCKS	6.35	4.84	5.66	6.77	5.75	1.96
DARBOY	12.39	15.70	18.70	20.55	16.58	16.24

<u>AVERAGE DAILY INFLUENT LOADINGS</u>	<u>%</u>	<u>MAX</u>	<u>PLANT DESIGN CRITERIA</u>	<u>AVG</u>	<u>%</u>
FLOW : 7,589,452 GALLONS	63.8	11,900,000	GALLONS/DAY	8,500,000	89.29
B.O.D. : 14,225 POUNDS	97.1	14,651	POUNDS/DAY	12,209	116.51
SUSPENDED SOLIDS : 10,726 POUNDS	65.9	16,278	POUNDS/DAY	13,565	79.07
PHOSPHORUS : 238 POUNDS	58.4	407	POUNDS/DAY	339	70.11
AMMONIA-N : 1,564 POUNDS	81.5	1,920	POUNDS/DAY	1,600	97.77
CHLORIDES : 26,244 POUNDS					

FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>%</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
FLOW: 5,941,710			
SUSPENDED SOLIDS : 18.19 mg/L	60.6	30	mg/L
SUSPENDED SOLIDS : 937.08 lbs	117.0	801	lbs
cB.O.D. : 5.14 mg/L	20.5	25	mg/L
PHOSPHORUS : 0.26 mg/L	26.4	1	mg/L
AMMONIA-N : 0.69 mg/L	3.8	18	mg/L
CHLORIDES : 404.62 mg/L			

FOX ENERGY CENTER PUMPED: 50,499,000 GALLONS

Effluent to Fox Energy
21%

* INCLUDES HAULED WASTE

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: OCTOBER

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	0.00	0.74	0.79	0.80	0.87
2	0.00	0.00	0.01	0.00	0.00
3	0.00	0.29	0.14	0.26	0.20
4	0.00	0.00	0.00	0.00	0.00
5	0.08	0.06	0.11	0.10	0.07
6	0.07	0.08	0.01	0.02	0.11
7	0.08	0.08	0.08	0.09	0.09
8	1.26	0.95	1.15	1.02	1.20
9	0.74	0.93	0.90	0.85	0.96
10	0.50	0.40	0.33	0.27	0.44
11	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00
14	0.16	0.16	0.16	0.17	0.16
15	0.02	0.02	0.01	0.02	0.03
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	0.10	0.07	0.05	0.04	0.06
20	0.01	0.04	0.01	0.10	0.01
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	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	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	0.31	0.27	0.27	0.29	0.33
29	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00
TOTAL:	3.33	4.09	4.02	4.03	4.53