

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: DECEMBER 2018

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT*

TOTAL FLOW TO PLANT: 170,368,000 GALLONS
 AVERAGE B.O.D. : 226 mg/L
 AVERAGE SUSPENDED SOLIDS : 191 mg/L
 AVERAGE PHOSPHORUS : 4.74 mg/L
 AVERAGE AMMONIA-N : 22.26 mg/L
 AVERAGE CHLORIDES : 518.46 mg/L

MAXIMUM DAILY FLOW TO PLANT:
7,433,000

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	38.67	25.22	28.78	29.66	28.28	32.24
LITTLE CHUTE	24.19	35.96	31.07	27.50	36.35	31.48
KIMBERLY	13.76	10.88	12.44	12.24	9.71	16.36
COMBINED LOCKS	6.38	5.48	5.71	6.26	5.70	1.91
DARBOY	17.00	22.46	22.01	24.34	19.96	18.01

AVERAGE DAILY INFLUENT LOADINGS

FLOW : 5,495,742 GALLONS
 B.O.D. : 10,372 POUNDS
 SUSPENDED SOLIDS : 8,765 POUNDS
 PHOSPHORUS : 217 POUNDS
 AMMONIA-N : 1,020 POUNDS
 CHLORIDES : 23,763 POUNDS

PLANT DESIGN CRITERIA

<u>%</u>	<u>MAX</u>		<u>AVG</u>	<u>%</u>
46.2	11,900,000	GALLONS/DAY	8,500,000	64.66
70.8	14,651	POUNDS/DAY	12,209	84.95
53.8	16,278	POUNDS/DAY	13,565	64.61
53.4	407	POUNDS/DAY	339	64.08
53.1	1,920	POUNDS/DAY	1,600	63.76

FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>%</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
FLOW: 3,538,161			
SUSPENDED SOLIDS : 11.17 mg/L	37.2	30	mg/L
SUSPENDED SOLIDS : 321.08 lbs	40.1	801	lbs
c.B.O.D. : 4.16 mg/L	16.6	25	mg/L
PHOSPHORUS : 0.23 mg/L	23.1	1	mg/L
AMMONIA-N : 0.38 mg/L	2.1	18	mg/L
CHLORIDES : 546.15 mg/L			

FOX ENERGY CENTER PUMPED: 60,685,000 GALLONS

Effluent to Fox Energy
36%

* INCLUDES HAULED WASTE

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: DECEMBER

YEAR: 2018

<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	0.21	0.11	0.07	0.11	0.11
2	0.26	0.30	0.45	0.35	0.37
3	0.00				
4	0.00				
5	0.00	END OF	END OF	END OF	END OF
6	0.00	RAIN GAUGE	RAIN GAUGE	RAIN GAUGE	RAIN GAUGE
7	0.00	DATA	DATA	DATA	DATA
8	0.00	FOR YEAR	FOR YEAR	FOR YEAR	FOR YEAR
9	0.00				
10	0.00				
11	0.00				
12	0.01				
13	0.00				
14	0.01				
15	0.00				
16	0.00				
17	0.00				
18	0.00				
19	0.00				
20	0.05				
21	0.00				
22	0.00				
23	0.00				
24	0.00				
25	0.00				
26	0.00				
27	0.30				
28	0.09				
29	0.01				
30	0.00				
31	0.40				
TOTAL:	1.34	0.41	0.52	0.46	0.48