

# HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: OCTOBER 2015

## HYDRAULIC AND ORGANIC LOADINGS DATA

### INFLUENT

TOTAL FLOW TO PLANT: 132,217,000 GALLONS  
 AVERAGE B.O.D. : 217 mg/L  
 AVERAGE SUSPENDED SOLIDS : 213 mg/L  
 AVERAGE PHOSPHORUS : 5.69 mg/L  
 AVERAGE AMMONIA-N : 32.01 mg/L  
 AVERAGE CHLORIDES : 572.50 mg/L

**MAXIMUM DAILY FLOW TO PLANT:**  
6,463,000 GALLONS

### 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	37.37	26.12	30.51	31.58	32.08	36.74
LITTLE CHUTE	23.33	27.52	20.72	22.03	27.20	28.78
KIMBERLY	11.63	11.37	13.82	12.30	10.32	12.18
COMBINED LOCKS	6.46	8.38	7.01	7.44	7.35	1.94
DARBOY	21.21	26.60	27.93	26.65	23.05	20.36

### AVERAGE DAILY INFLUENT LOADINGS

FLOW : 4,265,065 GALLONS  
 B.O.D. : 7,704 POUNDS  
 SUSPENDED SOLIDS : 7,561 POUNDS  
 PHOSPHORUS : 203 POUNDS  
 AMMONIA-N : 1,139 POUNDS  
 CHLORIDES : 20,364 POUNDS

<u>%</u>
35.8
52.6
46.5
49.8
59.3

### 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

MONTHLY  
AVERAGE

cB.O.D. : 6.77 mg/L  
 SUSPENDED SOLIDS : 28.99 mg/L  
 PHOSPHORUS : 0.70 mg/L  
 AMMONIA-N : 0.70 mg/L  
 CHLORIDES : 610.83 mg/L

<u>%</u>
27.1
96.6
69.5

### PERMIT LIMIT

25 mg/L  
 30 mg/L  
 1 mg/L

# RAIN GAUGES

## DAILY RAINFALL TOTALS

MONTH: OCTOBER

YEAR: 2015

<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	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00
8	0.45	0.38	0.38	0.33	0.47
9	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00
12	0.06	0.08	0.06	0.04	0.06
13	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00
15	0.00	0.03	0.01	0.01	0.01
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	0.01	0.00	0.01	0.01	0.00
20	0.01	0.01	0.00	0.00	0.01
21	0.00	0.02	0.02	0.03	0.00
22	0.00	0.00	0.00	0.00	0.00
23	0.27	0.24	0.33	0.25	0.26
24	0.22	0.22	0.45	0.34	0.31
25	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00
27	0.12	0.03	0.04	0.03	0.04
28	0.45	0.47	0.73	0.47	0.63
29	0.03	0.03	0.00	0.03	0.04
30	0.00	0.00	0.00	0.00	0.00
31	0.28	0.26	0.00	0.26	0.27
<b>TOTAL:</b>	<b>1.90</b>	<b>1.77</b>	<b>2.03</b>	<b>1.80</b>	<b>2.10</b>