

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: June 2020

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT*

TOTAL FLOW TO PLANT: 205,368,000 GALLONS
 AVERAGE B.O.D. : 191 mg/L
 AVERAGE SUSPENDED SOLIDS : 151 mg/L
 AVERAGE PHOSPHORUS : 3.93 mg/L
 AVERAGE AMMONIA-N : 29.17 mg/L
 AVERAGE CHLORIDES : 519.23 mg/L

MAXIMUM DAILY FLOW TO PLANT:
10,913,000

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 | 39.55 | 26.38 | 29.75 | 28.07 | 26.03 | 29.47 |
| LITTLE CHUTE | 27.94 | 32.37 | 28.59 | 28.21 | 40.01 | 36.73 |
| KIMBERLY | 12.26 | 11.20 | 10.62 | 11.88 | 9.11 | 16.28 |
| COMBINED LOCKS | 5.86 | 6.62 | 5.80 | 6.38 | 5.74 | 1.91 |
| DARBOY | 14.39 | 23.43 | 25.25 | 25.46 | 19.11 | 15.61 |

AVERAGE DAILY INFLUENT LOADINGS

FLOW : 6,845,600 GALLONS
 B.O.D. : 10,598 POUNDS
 SUSPENDED SOLIDS : 8,384 POUNDS
 PHOSPHORUS : 218.73 POUNDS
 AMMONIA-N : 1,568 POUNDS
 CHLORIDES : 28,258 POUNDS

PLANT DESIGN CRITERIA

| <u>%</u> | <u>MAX</u> | <u>AVG</u> | <u>%</u> |
|----------|------------|------------|----------|
| 57.5 | 11,900,000 | 8,500,000 | 80.54 |
| 72.3 | 14,651 | 12,209 | 86.80 |
| 51.5 | 16,278 | 13,565 | 61.81 |
| 53.7 | 407 | 339 | 64.52 |
| 81.7 | 1,920 | 1,600 | 97.99 |

FINAL EFFLUENT

| <u>MONTHLY AVERAGE</u> | <u>%</u> | <u>MONTHLY AVG PERMIT LIMIT</u> | |
|-------------------------------|----------|---|------|
| FLOW: 3,461,733 | | | |
| SUSPENDED SOLIDS : 5.71 mg/L | 19.0 | 30 | mg/L |
| SUSPENDED SOLIDS : 161.23 lbs | 20.1 | 801 | lbs |
| B.O.D. : 6.05 mg/L | 24.2 | 25 | mg/L |
| PHOSPHORUS : 0.17 mg/L | 17.4 | 1 | mg/L |
| AMMONIA-N : 0.48 mg/L | 10.9 | 4.4 | mg/L |
| CHLORIDES : 515.38 mg/L | | | |

FOX ENERGY CENTER PUMPED: 101,516,000 GALLONS

Effluent to Fox Energy
49%

* INCLUDES HAULED WASTE

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: JUNE

YEAR: 2020

| <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 | 0.08 | 0.09 | 0.09 | 0.08 | 0.08 |
| 2 | 0.40 | 0.17 | 0.34 | 0.17 | 0.13 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 0.23 | 0.19 | 0.18 | 0.23 | 0.18 |
| 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 | 0.39 | 0.38 | 0.50 | 0.44 | 0.47 |
| 10 | 0.43 | 0.27 | 0.21 | 0.37 | 0.36 |
| 11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 0.01 | 0.00 | 0.00 | 0.01 | 0.01 |
| 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 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 |
| 20 | 1.01 | 1.04 | 1.19 | 1.39 | 1.06 |
| 21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 0.73 | 1.20 | 1.10 | 0.63 | 0.70 |
| 23 | 0.45 | 0.03 | 0.04 | 0.45 | 0.47 |
| 24 | 0.02 | 0.07 | 0.05 | 0.09 | 0.07 |
| 25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 |
| 27 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 0.20 | 0.32 | 0.00 | 0.00 | 0.01 |
| 30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL: | 4.00 | 3.82 | 3.77 | 3.91 | 3.59 |