

# HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: APRIL 2015

## HYDRAULIC AND ORGANIC LOADINGS DATA

### INFLUENT

TOTAL FLOW TO PLANT: 182,911,000 GALLONS  
 AVERAGE B.O.D. : 176 mg/L  
 AVERAGE SUSPENDED SOLIDS : 184 mg/L  
 AVERAGE PHOSPHORUS : 4.55 mg/L  
 AVERAGE AMMONIA-N : 25.11 mg/L  
 AVERAGE CHLORIDES : 492.31 mg/L

**MAXIMUM DAILY FLOW TO PLANT:**  
11,230,000 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         | 38.45       | 28.28      | 30.81      | 32.07             | 33.04          | 33.99            |
| LITTLE CHUTE     | 25.32       | 24.87      | 23.06      | 21.98             | 29.42          | 28.92            |
| KIMBERLY         | 13.38       | 14.03      | 12.65      | 12.45             | 11.07          | 13.27            |
| COMBINED LOCKS   | 6.23        | 8.32       | 9.05       | 7.44              | 6.38           | 5.36             |
| DARBOY           | 16.63       | 24.49      | 24.43      | 26.06             | 20.09          | 18.46            |

### AVERAGE DAILY INFLUENT LOADINGS

FLOW : 6,097,033 GALLONS  
 B.O.D. : 8,929 POUNDS  
 SUSPENDED SOLIDS : 9,343 POUNDS  
 PHOSPHORUS : 231 POUNDS  
 AMMONIA-N : 1,277 POUNDS  
 CHLORIDES : 25,033 POUNDS

| <u>%</u> |
|----------|
| 51.2     |
| 60.9     |
| 57.4     |
| 56.8     |
| 66.5     |

### 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

|                    | <u>MONTHLY<br/>AVERAGE</u> |      | <u>PERMIT<br/>LIMIT</u> |
|--------------------|----------------------------|------|-------------------------|
| cB.O.D. :          | 5.64 mg/L                  | 22.5 | 25 mg/L                 |
| SUSPENDED SOLIDS : | 9.20 mg/L                  | 30.7 | 30 mg/L                 |
| PHOSPHORUS :       | 0.29 mg/L                  | 28.6 | 1 mg/L                  |
| AMMONIA-N :        | 0.26 mg/L                  |      |                         |
| CHLORIDES :        | 520.00 mg/L                |      |                         |

# RAIN GAUGES

## DAILY RAINFALL TOTALS

MONTH: APRIL

YEAR: 2015

| <u>DATE</u>   | <u>PLANT</u><br><u>INCHES</u> | <u>KAUKAUNA</u><br><u>INCHES</u> | <u>LITTLE CHUTE</u><br><u>INCHES</u> | <u>KIMBERLY</u><br><u>INCHES</u> | <u>DARBOY</u><br><u>INCHES</u> |
|---------------|-------------------------------|----------------------------------|--------------------------------------|----------------------------------|--------------------------------|
| 1             | 0.00                          | 0.00                             | 0.00                                 | 0.00                             | 0.00                           |
| 2             | 0.03                          | 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             | 0.21                          | 0.24                             | 0.21                                 | 0.27                             | 0.33                           |
| 6             | 0.00                          | 0.00                             | 0.00                                 | 0.00                             | 0.00                           |
| 7             | 0.16                          | 0.15                             | 0.14                                 | 0.17                             | 0.22                           |
| 8             | 0.08                          | 0.10                             | 0.10                                 | 0.10                             | 0.12                           |
| 9             | 0.84                          | 0.66                             | 0.80                                 | 0.69                             | 0.81                           |
| 10            | 0.13                          | 0.13                             | 0.15                                 | 0.19                             | 0.17                           |
| 11            | 0.00                          | 0.00                             | 0.00                                 | 0.00                             | 0.00                           |
| 12            | 0.00                          | 0.00                             | 0.00                                 | 0.00                             | 0.00                           |
| 13            | 0.08                          | 0.07                             | 0.07                                 | 0.06                             | 0.08                           |
| 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            | 0.14                          | 0.13                             | 0.10                                 | 0.13                             | 0.14                           |
| 20            | 0.24                          | 0.25                             | 0.27                                 | 0.30                             | 0.35                           |
| 21            | 0.00                          | 0.01                             | 0.00                                 | 0.01                             | 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            | 0.00                          | 0.00                             | 0.00                                 | 0.00                             | 0.00                           |
| 29            | 0.00                          | 0.00                             | 0.00                                 | 0.00                             | 0.00                           |
| 30            | 0.00                          | 0.00                             | 0.00                                 | 0.00                             | 0.00                           |
| <b>TOTAL:</b> | 1.91                          | 1.74                             | 1.84                                 | 1.92                             | 2.22                           |