

## **AGENDA**

### **KANKAKEE RIVER METROPOLITAN AGENCY MEETING**

**Thursday, August 26, 2021**

**9:00 AM in KRMA Board Room**

**1600 Brookmont Blvd., Kankakee, IL 60901**

**I. Roll Call**

**II. Public Comment**

**III. Approval of Board Minutes**

- A. July 22, 2021 – Regular Board Meeting

**IV. Reports**

- A. Operations & Maintenance Report  
1. Monthly Report (MOR)  
B. Executive Director Report  
1. Water, Gas & Electric Use/Cost  
2. Hauled in Waste Summary  
3. Operations Report  
C. Financial Report  
1. Reports  
2. Hauled in Waste Report  
3. Flows Graphs  
D. Communications

**V. Old Business**

- A. Blowers Update  
B. Republic Service Update  
C. CSL Update  
D. Proposals for the Project Development Plan  
E. NARP Program

**VI. New Business**

- A. Approval for River Clean Up Donation  
B. Review of Aqua transaction with Bourbonnais and impact on KRMA bonds.  
C. Consideration of an ordinance providing for the payment of certain of the outstanding Senior Lien Sewerage Treatment Facility Refunding Bonds, Series 2016, of the Kankakee River Metropolitan Agency in advance of maturity and authorizing and directing the execution of an Escrow Agreement in connection therewith.  
D. Draft Audit Report  
E. Alerus 401(k) Plan-Hardship Withdrawal

**VII. Executive Session**

- A. Personnel & Probable or Imminent Litigation

**VIII. Next Meeting**

**Thursday, September 23, 2021 (9:00 AM in KRMA Boardroom)**

**KANKAKEE RIVER METROPOLITAN AGENCY**  
**MINUTES**  
**July 22, 2021 – 9:00 A.M**  
**1600 W Brookmont Blvd.**

In attendance:

**Board of Directors:**

Mayor Christopher Curtis, City of Kankakee  
Mayor Paul Schore, Village of Bourbonnais  
Alderman Danita Swanson, City of Kankakee  
Alderman Larry Osenga, City of Kankakee  
Steven Hunter, Representative, City of Kankakee  
Michael Ingalls, Alternate, Village of Aroma Park  
Terry Memenga, Alternate, Village of Bradley

**Administration:**

Dave Tyson, KRMA Executive Director  
Karen Benson, Smith, Koelling, Dykstra & Ohm, P.C.

**Attorney:**

Neal Smith, Robbins Schwartz

**KRMA Staff:**

Arthur Strother, Superintendent  
Dustin Scheppler, Asst. Superintendent, Operations  
Melanie Gossett, Asst. Superintendent, Technical Services

**Other:**

Dan Small, Strand Associates

Chairman, Mayor Curtis called the meeting to order

I. **Roll Call**

All board member present except for Dir Brian Stump and Dir Robert Romo. However, they did send their alternate for their deciding vote, Dir Michael Ingalls, Village of Aroma Park and Dir Terry Memenga, Village of Bradley.

II. **Public Comment**

None

III. **Approval of Board Minutes June 24, 2021 – Regular Board Meeting**

Motion to approve the June 24, 2021, Regular Board Meeting minutes was made by: Dir. Hunter and seconded by Dir Schore. All board members and alternates Michael Ingalls and Terry Memenga present voted in favor and Dir Brian Stump and Dir Robert Romo absent. Motion Carries.

IV. **Reports**

A. **Operations & Maintenance Report**

**Monthly Report**

Art stated there were no violations this month. The request for permit limits to be added to our DMR report was complete. Art referred to Melanie to discuss the wastewater study program. Melanie explained that it's a National Program that is sponsored through CDC and HSS. It's a predictive type of study within wastewater where the trends of the virus can be tracked and detected within our county. It a 10-week program, and we have only 3 weeks left to go at no cost to KRMA. Art also stated that it is suggested that we share this information with our local agencies to see if they would like to move forward with this program study.

**B. Executive Director Report**

1. Water, Gas & Electric Use/Cost

Exec. Dir. Dave Tyson presented the monthly utility sheets. Exec Dir Tyson stated Aqua bill is back down, electric bill is a little higher than what we thought it will be once we changed to Champion Energy. Champion Energy is going to reimburse KRMA \$5700 from last month bills. Everything else is in line.

2. Hauled In Waste Summary

Exec. Dir. Tyson stated hauled in waste has increased for this month.

3. Operations Report

Exec Dir Dave Tyson discussed the new hire process, stating that we received 15 applications and 14 of the applicants have tested and one already started a different job. Management team will be grading the tests and the applicants that passed, will get an interview. Exec Dir Tyson also asked the board members to forward a copy of their sexual harassment prevention certificate for acknowledgement of completion. Also, congratulation was given to Melanie Gossett for completion of her Human Resource Certification through SHRM.

**C. Financial Report**

1. Reports

Karen Benson presented the financial statements. Karen explained some year-end adjustments on Statement of net position for each municipality. The change in net position shows a negative amount because of the annual fee of \$75,000 we pay towards the E-Waste bill and doubling up on a utility bill.

2. Hauled In Waste Report

Karen stated our hauled in waste is above what we budgeted which is good for revenue.

3. Flows Graphs

Karen Benson presented the year-to-date flow graphs which display where each municipality is at thus far based off the last year's average that was used as a budget.

**D. Communications**

None

**V. Old Business**

**A. Blowers Update**

Exec Dir Tyson stated Atlas Copco finished testing on July 21, 2021. Now KRMA will start the 14-day running cycle to make sure everything is working properly, then Atlas Copco will come back and test again. There is a meeting scheduled with Atlas Copco on Wednesday, July 28, 2021, at 9am. Once the 14-day period is complete, we will do a final walk through.

**B. Republic Service Update**

Exec Dir Tyson gave us an update regarding the service agreement KRMA currently has with Republic. There has been continuous discussion about the proposed Republic Service Agreement.

**C. E-Waste Update**

Exec Dir Tyson stated KRMA has no affiliation with E-Waste except for the annual fee of \$75,000.

**D. CSL Update**

Exec Dir Tyson stated there was meeting with CSL on July 21, 2021, with an update on their pretreatment plan. CSL is experiencing some delays with the pretreatment plan due to deliveries of material in resulting from Covid-19 and Texas storm. Also, the scope of the infrastructures which is being discussed with Village of Bradley is delayed. We informed CSL to put all extension request in writing.

**E. Approval of Budget Ordinance No. 2020-01 for fiscal year end April 30, 2022**

Karen gave a detailed summarization involving the revenue on how it increased the municipalities fee. The expense is an estimation from prior year. The depreciation of fixed assets has an increase due to the increase in the liability insurance and she explained why there are some conservative numbers within the budget. She also gave an explanation about the fixed expenses regarding the IEPA and other loans and how the set-side revenue reflects within the completed budget. Dir Hunter asked is KRMA able to get some of the recovery fund to help pay back the loans? Dan responded, each community received the Cares Act Funding that could be used for a variety of related Covid things. Therefore, that would be the decision of each municipality. IEPA has tried to

allow a little Principal Forgiveness every year. However, to get in line to qualify for the IEPA loan, KRMA needs to submit the Project Plan and increase KRMA scoring and ranking. Dan also stated for KRMA to received other funding, each municipality should speak to their individual representatives. Motion for final passage of Budget Ordinance No.2020-01 for fiscal year end April 30, 2022, was made by Dir Hunter and seconded Vice Chairman Schore. All board members and alternates Michael Ingalls and Terry Memenga present voted in favor and Dir Brian Stump and Dir Robert Romo absent. Motion Carries.

F. **Resolution Approving an Amendment to Article II, Section 9 of the By-Laws of the Agency Concerning Compensation of Directors**

Chairman Curtis stated there was previously a discussion about reducing the pay for the KRMA Board Directors. Attorney Neal Smith explained that the law for reducing and/or increasing compensation pay for elective officials during the term of office is not applicable to the KRMA Board Member. KRMA Board Members are governed under an Intergovernmental Agreement By-Laws. However, the ruling can only be passed with a three-fourth (5 out of 7) majority vote. Motion to approve the Resolution of Amendment Article II, Section 9 of the By-Laws of the Agency Compensation of Directors Fee to a flat rate of two hundred dollars effective for August 1, 2021, was made by Dir Swanson and seconded by Dir Osenga. All board members and alternates Michael Ingalls and Terry Memenga present voted in favor and Dir Brian Stump and Dir Robert Romo absent. Motion Carries.

VI. **New Business**

A. **Proposals for the Project Development Plan**

Exec Dir Tyson reported that all proposals for the Project Development Plan were due back on July 20, 2021, at 11am. We only received two proposals. The proposals will be reviewed by the Superintendent Art Strother and Assistant Superintendents Dustin Scheppler and Melanie Gossett. Chairman Curtis asked will their decision be ready by next board meeting and Dir Hunter asked, will there be a written narrative of decision made? Art responded yes to both questions.

B. **NARP Program**

Exec Dir Tyson informed the board we have a kickoff meeting with Dan Small, Strand Associates on July 28, 2021.

VII. **Executive Session**

Motion to go into Executive Session to discuss Personnel, and probable or imminent litigation pursuant to Sections 2(c)(1) of the open meetings act, was made by: Dir. Hunter and seconded by: Dir. Swanson. Motion carried.

Roll call was taken, and all Board Members and Alternates Michael Ingalls and Terry Memenga were present and Dir Brian Stump and Dir Robert Romo absent.

The Board went into Executive Session to discuss Personnel and probable or imminent litigation.

Return to Open Session.

Roll call was taken, and all Board Members and Alternates Michael Ingalls and Terry Memenga present were present and Dir Brian Stump and Dir Robert Romo absent.

With the Board back in open session, there was no motion.

VIII. **Next Meeting**

Next Regular Board Meeting- **Thursday, August 26, 2021 (9:00 A.M. at KRMA Board Room)**

Motion to Adjourn was made by: Dir. Osenga and seconded by Alternate Terry Memenga. All board members and Alternates Michael Ingalls and Terry Memenga present voted in favor and Dir Brian Stump and Dir Robert Romo absent. Motion carried.



*Providing Wastewater Treatment to the Kankakee River Valley*



**Monthly Operations Report**

**July 2021**

## KRMA's JULY HIGHLIGHTS:

The Kankakee River Metropolitan Agency received Statements of Qualification from engineering firms regarding its' (RFQ) Request for Qualification posted in the Kankakee Journal and the KRMA website.

There was a kickoff meeting to address the Nutrient Reduction Assessment Plan (NARP), which is required by Special Condition 20 in its National Pollutant Discharge Elimination System Permit. The plan will begin with the continuous sampling and grab sampling of the upstream and downstream of the Kankakee River of the KRMA facility.

The Agency continue to meet with several vendors to address the facility improvements and ability to perform at a level that will meet all permit parameters set forth by the Illinois Environmental Protection Agency (IEPA).

The Agency acknowledge the achievement of Melanie Gossett, Assistant Superintendent of Technical Services, which acquired a certificate of competency in the field of Human Resource. Congratulation!

The month of July, the KRMA staff met all limits of the Illinois Environmental Protection Agency NPDES (National Pollutant Discharge Elimination System) permits.

## 1.0 WASTEWATER TREATMENT FACILITY OPERATION

**Attachment A** Details the monthly operational information for the facility.

## 2.0 INFLUENT FLOW

**Table 2.1** Summarizes total flow and average daily flow to the facility from each municipality.

**Attachment B** for details of daily flow rates.

**Table 2.1**  
*Plant Flows*

| Municipality             | Plant Influent | Kankakee | Bourbonnais | Bradley | Aroma Park |
|--------------------------|----------------|----------|-------------|---------|------------|
| Total Flow (MGD)         | 419.52         | 296.23   | 88.232      | 33.961  | 1.102      |
| Daily Average Flow (MGD) | 13.53          | 9.56     | 2.846       | 1.096   | 0.036      |

### 3.0 EFFLUENT QUALITY

Table 3.1 Summarizes the effluent quality data.

**Table 3.1**  
*Effluent Quality*

|  | IEPA Limits       | Effluent Average  |
|--|-------------------|-------------------|
| <b>Biochemical Oxygen Demand (BOD) – Monthly Average</b> | <b>20 mg/l</b>    | <b>4 mg/l</b>     |
| <b>Total Suspended Solids (TSS) - Monthly Average</b>    | <b>25 mg/l</b>    | <b>9 mg/l</b>     |
| <b>PH</b>  | <b>6-9 SU</b>     | <b>7.36 SU</b>    |
| <b>Chlorine Residual</b>                                 | <b>0.05 mg/l</b>  | <b>0.018 mg/l</b> |
| <b>Fecal Coliform</b>                                    | <b>400/100 ml</b> | <b>17 ml</b>      |

### ODOR ISSUES:

- There were one odor complaints registered at the KRMA facility in July.
- There were no odor complaints registered at the East Gate site in July.

### 4.0 PERSONNEL

The Agency would like to Congratulate these KRMA employees for July work anniversaries. Thank you all for being such a valuable and loyal member of our team. Your knowledge, hard work and dedication is greatly appreciated.

Shawn Malone, O & M Operator Specialist, 11 years

Melanie Gossett, Assistant Superintendent of Technical Services, 9 years

Jennifer Salan, Administrative Assistant, 5 years

Tawonda Brown-Davis, Office Coordinator, 2 years

#### **Congratulations are also in honor for achieving Certificate of Competency**

Michael Arseneau, Class 4 Wastewater Treatment Works Operator

Brian Power, Class 1 Wastewater Treatment Works Operator

Bryan Kennedy, Class 1 Wastewater Treatment Works Operator

Melanie Gossett, Field of Human Resource

The Agency would like to say “HAPPY BIRTHDAY” to all the employees’ born in July.

Employees continue to follow the COVID-19 Warning signs and Safety Tips. One of the best ways to help keep workers healthy is to stay home **except** for necessary outings, and when you do go out for the necessities, there are steps you can take to minimize the risk of spreading illness.

## 5.0 MAINTENANCE AND REPAIR

|   |        |
|---|--------|
| Number of Work Orders Closed for the Month: | 1149   |
| Hours of Scheduled Work Orders Performed:   | 770.48 |

## 6.0 SLUDGE HANDLING

Start Date: 07/01/2021  
End Date: 07/31/2021

|  |              |
|--|--------------|
| Gallons of sludge produced and sent to thickening:   | 2,419,592.00 |
| Gallons of sludge put into storage after thickening: | 1,064,400.00 |
| Sludge removed from the plant for land application:  | 289,800.00   |
| Sludge remaining in storage as of March 30th:        | 3,985,000.00 |

## 7.0 WATER USAGE

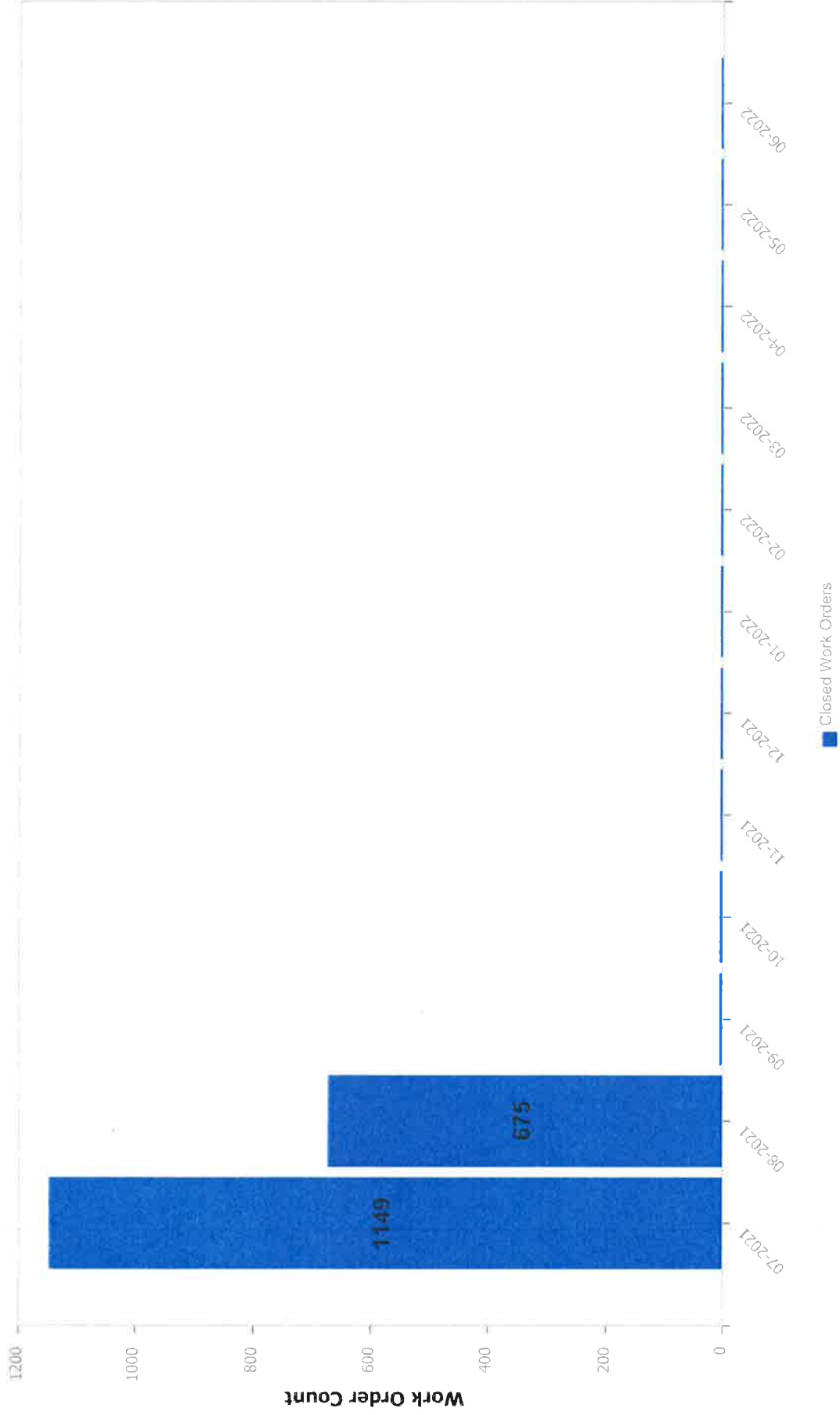
JULY 2021 (42 DAYS): 54,809 CU FT= 410,000 GALS. = \$ 3,406.72

NUMBER OF DAYS IN THE BILLING CYCLE: 42



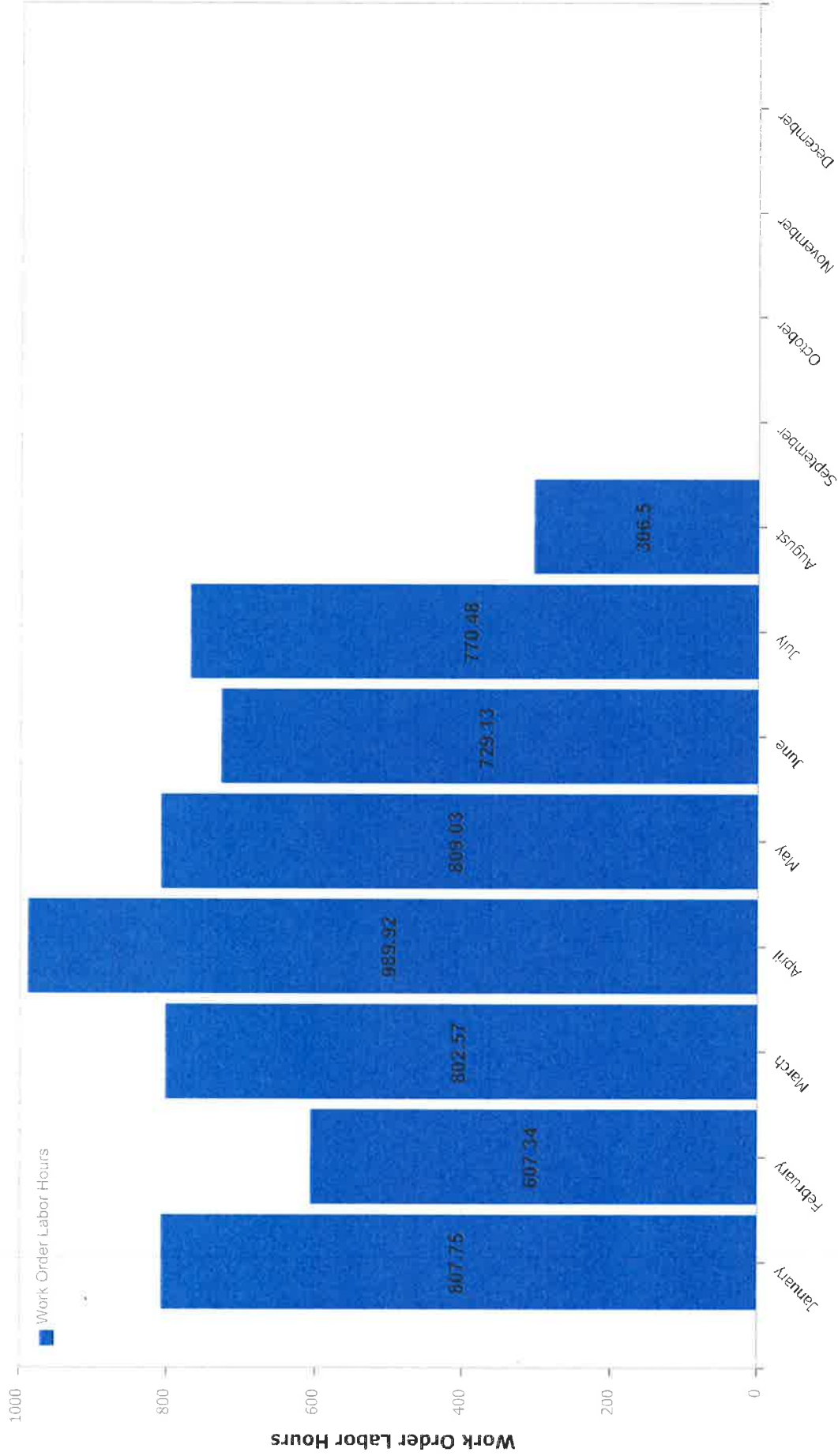
# Work Orders Closed By Month

From July, 2021 to June, 2022



# Work Order Labor Hours by Month

2021



# **ATTACHMENT**

## **A**

**DMR Monthly Report**

7/1/2021 to 7/31/2021

| Var #     | 452      | 159        | 119           | 236                | 454     | 351              | 113        | 237                | 386       |
|-----------|----------|------------|---------------|--------------------|---------|------------------|------------|--------------------|-----------|
|           | EFF FLOW | 001 Eff pH | FINAL EFF TSS | Weekly ave Eff TSS | EFF TSS | WeeklyAv eEffTSS | EFF-C-BO D | Weekly Ave EffCBOD | EFF C-BOD |
| Date      | MGD      | STD UNIT   | mg/L          | MG/L               | LBS/D   | LBS/Day          | mg/l       | MG/L               | lbs/day   |
| 7/1/2021  | 22.330   | 7.48       | 13            |                    | 2,421   |                  | 7          |                    | 1,304     |
| 7/2/2021  | 21.077   | 7.40       | 12            |                    | 2,109   |                  |            |                    |           |
| 7/3/2021  | 18.885   |            | 6             | 11                 | 945     | 2,193            | 2          | 4                  | 315       |
| 7/4/2021  | 17.204   |            | 7             |                    | 1,004   |                  | 3          |                    | 430       |
| 7/5/2021  | 15.557   |            | 6             |                    | 778     |                  | 3          |                    | 389       |
| 7/6/2021  | 14.710   | 7.25       | 12            |                    | 1,472   |                  | 4          |                    | 491       |
| 7/7/2021  | 14.113   | 7.27       | 10            |                    | 1,177   |                  | 4          |                    | 471       |
| 7/8/2021  | 14.237   | 7.70       | 13            |                    | 1,544   |                  | 4          |                    | 475       |
| 7/9/2021  | 14.617   | 7.67       | 12            |                    | 1,463   |                  |            |                    |           |
| 7/10/2021 | 13.526   |            | 5             | 9                  | 564     | 1,143            | 3          | 4                  | 338       |
| 7/11/2021 | 13.191   |            | 10            |                    | 1,100   |                  | 4          |                    | 440       |
| 7/12/2021 | 13.101   | 7.29       | 7             |                    | 765     |                  | 2          |                    | 219       |
| 7/13/2021 | 13.078   | 7.05       | 18            |                    | 1,963   |                  | 5          |                    | 545       |
| 7/14/2021 | 12.542   | 7.29       | 14            |                    | 1,464   |                  | 3          |                    | 314       |
| 7/15/2021 | 12.403   | 7.46       | 6             |                    | 621     |                  | 4          |                    | 414       |
| 7/16/2021 | 13.050   | 7.31       | 10            |                    | 1,088   |                  |            |                    |           |
| 7/17/2021 | 13.397   |            | 3             | 10                 | 335     | 1,048            | 3          | 4                  | 335       |
| 7/18/2021 | 12.359   |            | 6             |                    | 618     |                  | 3          |                    | 309       |
| 7/19/2021 | 11.752   | 6.93       | 12            |                    | 1,176   |                  | 4          |                    | 392       |
| 7/20/2021 | 11.698   | 7.13       | 7             |                    | 683     |                  | 5          |                    | 488       |
| 7/21/2021 | 11.512   | 7.04       | 11            |                    | 1,056   |                  | 5          |                    | 480       |
| 7/22/2021 | 11.379   | 7.56       | 11            |                    | 1,044   |                  | 4          |                    | 380       |
| 7/23/2021 | 11.204   | 7.55       | 3             |                    | 280     |                  |            |                    |           |
| 7/24/2021 | 11.881   |            | 6             | 8                  | 595     | 779              | 2          | 4                  | 198       |
| 7/25/2021 | 12.264   |            | 5             |                    | 511     |                  | 3          |                    | 307       |
| 7/26/2021 | 11.447   | 7.56       | 10            |                    | 955     |                  | 5          |                    | 477       |
| 7/27/2021 | 11.365   | 7.43       | 12            |                    | 1,137   |                  | 6          |                    | 569       |
| 7/28/2021 | 11.196   | 7.40       | 9             |                    | 840     |                  | 5          |                    | 467       |
| 7/29/2021 | 11.647   | 7.36       | 10            |                    | 971     |                  | 4          |                    | 389       |
| 7/30/2021 | 11.964   | 7.50       | 12            |                    | 1,197   |                  |            |                    |           |
| 7/31/2021 | 10.837   |            | 6             | 9                  | 542     | 879              | 3          | 4                  | 271       |

|         |         |             |          |          |              |              |          |          |            |
|---------|---------|-------------|----------|----------|--------------|--------------|----------|----------|------------|
| Minimum | 10.837  | <b>6.93</b> | 3        | 8        | 280          | 779          | 2        | 4        | 198        |
| Maximum | 22.330  | <b>7.70</b> | 18       | 11       | 2,421        | 2,193        | 7        | 4        | 1,304      |
| Average | 13.533  | 7.36        | <b>9</b> | <b>9</b> | <b>1,046</b> | <b>1,208</b> | <b>4</b> | <b>4</b> | <b>431</b> |
| Sum     | 419.523 | 154.63      | 284      | 47       | 32,422       | 6,043        | 100      | 19       | 11,206     |

|              |  |                  |           |           |              |              |           |           |              |
|--------------|--|------------------|-----------|-----------|--------------|--------------|-----------|-----------|--------------|
| <b>Limit</b> |  | <b>Range 6-9</b> | <b>25</b> | <b>45</b> | <b>5,213</b> | <b>9,383</b> | <b>20</b> | <b>40</b> | <b>4,170</b> |
|--------------|--|------------------|-----------|-----------|--------------|--------------|-----------|-----------|--------------|

**DMR Monthly Report**

7/1/2021 to 7/31/2021

| Var #     | 352                  | 187            | 191               | 401               | 101             | 450             | 115             | 451     | 455            |
|-----------|----------------------|----------------|-------------------|-------------------|-----------------|-----------------|-----------------|---------|----------------|
|           | WeeklyAv<br>eEffCBOD | 001 EFF<br>CL2 | FECAL<br>COLI 001 | TOTAL<br>INF FLOW | INFLUENT<br>BOD | INF BOD<br>LOAD | INFLUENT<br>TSS | INF TSS | BOD<br>REMOVAL |
| Date      | LBS/Day              | mg/L           | #/100ml           | MGD               | mg/L            | LBS/D           | mg/L            | LBS/D   | %              |
| 7/1/2021  |                      | 0.014          | 8                 | 22.33             | 250             | 46,558          | 230             | 42,833  | 97             |
| 7/2/2021  |                      | 0.022          | 1                 | 21.08             |                 |                 | 216             | 37,969  |                |
| 7/3/2021  | 797                  |                |                   | 18.89             | 133             | 20,948          | 142             | 22,365  | 98             |
| 7/4/2021  |                      |                |                   | 17.20             | 162             | 23,244          | 74              | 10,618  | 98             |
| 7/5/2021  |                      |                |                   | 15.56             | 104             | 13,494          | 69              | 8,952   | 97             |
| 7/6/2021  |                      | 0.012          | 6                 | 14.71             | 180             | 22,083          | 203             | 24,904  | 98             |
| 7/7/2021  |                      | 0.012          | 3                 | 14.11             | 244             | 28,719          | 238             | 28,013  | 98             |
| 7/8/2021  |                      | 0.017          | 24                | 14.24             | 217             | 25,766          | 292             | 34,671  | 98             |
| 7/9/2021  |                      | 0.020          | 11                | 14.62             |                 |                 | 290             | 35,353  |                |
| 7/10/2021 | 432                  |                |                   | 13.53             | 224             | 25,269          | 248             | 27,976  | 99             |
| 7/11/2021 |                      |                |                   | 13.19             | 133             | 14,632          | 115             | 12,651  | 97             |
| 7/12/2021 |                      | 0.031          | 4                 | 13.10             | 360             | 39,334          | 386             | 42,175  | 99             |
| 7/13/2021 |                      | 0.001          | 4                 | 13.08             | 301             | 32,830          | 284             | 30,976  | 98             |
| 7/14/2021 |                      | 0.037          | 8                 | 12.54             | 295             | 30,857          | 346             | 36,192  | 99             |
| 7/15/2021 |                      | 0.018          | 5                 | 12.40             | 292             | 30,205          | 262             | 27,102  | 99             |
| 7/16/2021 |                      | 0.017          | 1                 | 13.05             |                 |                 | 178             | 19,373  |                |
| 7/17/2021 | 378                  |                |                   | 13.40             | 197             | 22,011          | 182             | 20,335  | 98             |
| 7/18/2021 |                      |                |                   | 12.36             | 146             | 15,049          | 202             | 20,821  | 98             |
| 7/19/2021 |                      | 0.022          | 17                | 11.75             | 332             | 32,540          | 282             | 27,639  | 99             |
| 7/20/2021 |                      | 0.011          | 24                | 11.70             | 354             | 34,537          | 274             | 26,732  | 99             |
| 7/21/2021 |                      | 0.022          | 36                | 11.51             | 384             | 36,868          | 476             | 45,701  | 99             |
| 7/22/2021 |                      | 0.038          | 30                | 11.38             | 285             | 27,047          | 316             | 29,989  | 99             |
| 7/23/2021 |                      | 0.015          | 1                 | 11.20             |                 |                 | 288             | 26,911  |                |
| 7/24/2021 | 374                  |                |                   | 11.88             | 164             | 16,250          | 112             | 11,098  | 99             |
| 7/25/2021 |                      |                |                   | 12.26             | 99              | 10,126          | 45              | 4,603   | 97             |
| 7/26/2021 |                      | 0.010          | 6                 | 11.45             | 348             | 33,223          | 286             | 27,304  | 99             |
| 7/27/2021 |                      | 0.020          | 26                | 11.37             | 326             | 30,900          | 130             | 12,322  | 98             |
| 7/28/2021 |                      | 0.011          | 34                | 11.20             | 237             | 22,130          | 362             | 33,802  | 98             |
| 7/29/2021 |                      | 0.015          | 69                | 11.65             | 365             | 35,455          | 306             | 29,724  | 99             |
| 7/30/2021 |                      | 0.015          | 31                | 11.96             |                 |                 | 286             | 28,537  |                |
| 7/31/2021 | 413                  |                |                   | 10.84             | 255             | 23,047          | 132             | 11,930  | 99             |

|         |       |       |     |        |       |         |       |         |       |
|---------|-------|-------|-----|--------|-------|---------|-------|---------|-------|
| Minimum | 374   | 0.001 | 1   | 10.84  | 99    | 10,126  | 45    | 4,603   | 97    |
| Maximum | 797   | 0.038 | 69  | 22.33  | 384   | 46,558  | 476   | 45,701  | 99    |
| Average | 479   | 0.018 | 17  | 13.53  | 246   | 26,659  | 234   | 25,793  | 98    |
| Sum     | 2,395 | 0.380 | 349 | 419.52 | 6,387 | 693,119 | 7,252 | 799,570 | 2,555 |

|              |              |             |            |  |  |  |  |  |  |
|--------------|--------------|-------------|------------|--|--|--|--|--|--|
| <b>Limit</b> | <b>8,340</b> | <b>0.05</b> | <b>400</b> |  |  |  |  |  |  |
|--------------|--------------|-------------|------------|--|--|--|--|--|--|

**DMR Monthly Report**

7/1/2021 to 7/31/2021

| Var #     | 456                 | 1040                                       | 1041                                       | 1042                                       | 1043                                     | 255                       | 297                        | 953  | 1023                                  |
|-----------|---------------------|--|--|--|--|---------------------------|----------------------------|--|---------------------------------------|
| Date      | TSS<br>REMOVAL<br>% | North<br>Effluent<br>DO -<br>SCADA<br>mg/l | South<br>Effluent<br>DO -<br>SCADA<br>mg/l | Daily<br>Average<br>Effluent<br>DO<br>mg/l | Effluent<br>DO weekly<br>average<br>mg/l | FINAL EFF<br>NH3N<br>mg/L | Eff<br>Nitrogen #<br>#/day | Eff_Total<br>Phosphoru<br>s- TP(TNT)<br>mg/l | Effluent<br>Total<br>Nitrogen<br>mg/l |
| 7/1/2021  | 94                  | 4.81                                       | 7.18                                       | 6.00                                       |  | 0.05                      | 9.31                       | 0.97   |                                       |
| 7/2/2021  | 94                  | 6.15                                       | 6.58                                       | 6.37                                       |  |                           |                            |  |                                       |
| 7/3/2021  | 96                  | 6.62                                       | 6.65                                       | 6.64                                       | 6.55                                     |                           |                            |  |                                       |
| 7/4/2021  | 91                  | 7.00                                       | 7.04                                       | 7.02                                       |  |                           |                            |  |                                       |
| 7/5/2021  | 91                  | 7.25                                       | 7.33                                       | 7.29                                       |  | 0.08                      | 10.55                      | 5.05   |                                       |
| 7/6/2021  | 94                  | 7.26                                       | 7.38                                       | 7.32                                       |  | 0.18                      | 21.59                      | 2.50   |                                       |
| 7/7/2021  | 96                  | 7.05                                       | 7.15                                       | 7.10                                       |  | 0.22                      | 25.78                      | 3.08   |                                       |
| 7/8/2021  | 96                  | 6.99                                       | 7.08                                       | 7.04                                       |  | 0.32                      | 37.52                      | 0.99   | 11.40                                 |
| 7/9/2021  | 96                  | 7.13                                       | 7.20                                       | 7.17                                       |  |                           |                            |  |                                       |
| 7/10/2021 | 98                  | 7.12                                       | 7.18                                       | 7.15                                       | 7.15                                     |                           |                            |  |                                       |
| 7/11/2021 | 91                  | 7.32                                       | 7.38                                       | 7.35                                       |  | 0.05                      | 5.50                       | 1.70   |                                       |
| 7/12/2021 | 98                  | 7.45                                       | 7.50                                       | 7.48                                       |  | 0.23                      | 24.91                      | 4.69   |                                       |
| 7/13/2021 | 94                  | 7.31                                       | 7.34                                       | 7.33                                       |  | 0.05                      | 5.45                       | 3.57   | 17.12                                 |
| 7/14/2021 | 96                  | 7.20                                       | 7.22                                       | 7.21                                       |  | 0.05                      | 5.23                       | 0.69   |                                       |
| 7/15/2021 | 98                  | 7.22                                       | 7.19                                       | 7.21                                       |  | 0.26                      | 26.48                      | 0.77   |                                       |
| 7/16/2021 | 94                  | 7.20                                       | 7.10                                       | 7.15                                       |  |                           |                            |  |                                       |
| 7/17/2021 | 98                  | 7.43                                       | 7.28                                       | 7.36                                       | 7.30                                     |                           |                            |  |                                       |
| 7/18/2021 | 97                  | 7.56                                       | 7.37                                       | 7.47                                       |  | 0.14                      | 14.02                      | 0.48   | 10.70                                 |
| 7/19/2021 | 96                  | 7.53                                       | 7.36                                       | 7.45                                       |  | 0.05                      | 4.90                       | 0.91   |                                       |
| 7/20/2021 | 97                  | 7.36                                       | 7.14                                       | 7.25                                       |  | 0.10                      | 9.39                       | 0.61   |                                       |
| 7/21/2021 | 98                  | 7.17                                       | 6.90                                       | 7.04                                       |  | 0.08                      | 8.13                       | 1.41   |                                       |
| 7/22/2021 | 97                  | 7.30                                       | 7.03                                       | 7.17                                       |  | 0.16                      | 15.47                      | 0.95   |                                       |
| 7/23/2021 | 99                  | 7.31                                       | 7.06                                       | 7.19                                       |  |                           |                            |  |                                       |
| 7/24/2021 | 95                  | 7.19                                       | 6.92                                       | 7.06                                       | 7.23                                     |                           |                            |  |                                       |
| 7/25/2021 | 89                  | 7.24                                       | 6.94                                       | 7.09                                       |  | 0.13                      | 13.50                      | 0.49   |                                       |
| 7/26/2021 | 97                  | 7.35                                       | 7.12                                       | 7.24                                       |  | 0.15                      | 14.51                      | 1.42   |                                       |
| 7/27/2021 | 91                  | 7.18                                       | 6.91                                       | 7.05                                       |  | 0.01                      | 0.47                       | 0.83   |                                       |
| 7/28/2021 | 98                  | 7.08                                       | 6.67                                       | 6.88                                       |  | 0.25                      | 22.88                      | 0.57   |                                       |
| 7/29/2021 | 97                  | 7.10                                       | 6.82                                       | 6.96                                       |  | 0.26                      | 25.64                      | 8.43   | 15.96                                 |
| 7/30/2021 | 96                  | 7.15                                       | 6.95                                       | 7.05                                       |  |                           |                            |  |                                       |
| 7/31/2021 | 95                  | 7.12                                       | 6.99                                       | 7.06                                       | 7.04                                     |                           |                            |  |                                       |

|         |       |        |        |        |       |      |        |       |       |
|---------|-------|--------|--------|--------|-------|------|--------|-------|-------|
| Minimum | 89    | 4.81   | 6.58   | 6.00   | 6.55  | 0.01 | 0.47   | 0.48  | 10.70 |
| Maximum | 99    | 7.56   | 7.50   | 7.48   | 7.30  | 0.32 | 37.52  | 8.43  | 17.12 |
| Average |       | 7.10   | 7.10   | 7.10   | 7.05  | 0.14 | 15.06  | 2.01  | 13.80 |
| Sum     | 2,955 | 220.15 | 219.96 | 220.06 | 35.27 | 2.80 | 301.24 | 40.10 | 55.18 |

|              |  |  |  |                |                 |            |             |  |  |
|--------------|--|--|--|----------------|-----------------|------------|-------------|--|--|
| <b>Limit</b> |  |  |  | <b>&gt;5.0</b> | <b>&gt;6.25</b> | <b>8.3</b> | <b>1731</b> |  |  |
|--------------|--|--|--|----------------|-----------------|------------|-------------|--|--|

# DMR Monthly Report

7/1/2021 to 7/31/2021

| Var #     |
|-----------|
| Date      |
| 7/1/2021  |
| 7/2/2021  |
| 7/3/2021  |
| 7/4/2021  |
| 7/5/2021  |
| 7/6/2021  |
| 7/7/2021  |
| 7/8/2021  |
| 7/9/2021  |
| 7/10/2021 |
| 7/11/2021 |
| 7/12/2021 |
| 7/13/2021 |
| 7/14/2021 |
| 7/15/2021 |
| 7/16/2021 |
| 7/17/2021 |
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| 7/22/2021 |
| 7/23/2021 |
| 7/24/2021 |
| 7/25/2021 |
| 7/26/2021 |
| 7/27/2021 |
| 7/28/2021 |
| 7/29/2021 |
| 7/30/2021 |
| 7/31/2021 |

| 1044                                 | 1048                            | 1045        | 102                | 116                | 1046                           | 1047                          |
|--------------------------------------|---------------------------------|-------------|--------------------|--------------------|--------------------------------|-------------------------------|
| Fecal Coliform at EQ Basin col/100ml | EQ Basin Residual Chlorine mg/l | EQ Basin pH | EQ Basin_ BOD mg/L | EQ Basin _TSS mg/L | EQ Basin Ammonia Nitrogen mg/l | EQ Basin Total Phosphoru mg/l |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |
|                                      |                                 |             |                    |                    |                                |                               |

|         |
|---------|
| Minimum |
| Maximum |
| Average |
| Sum     |

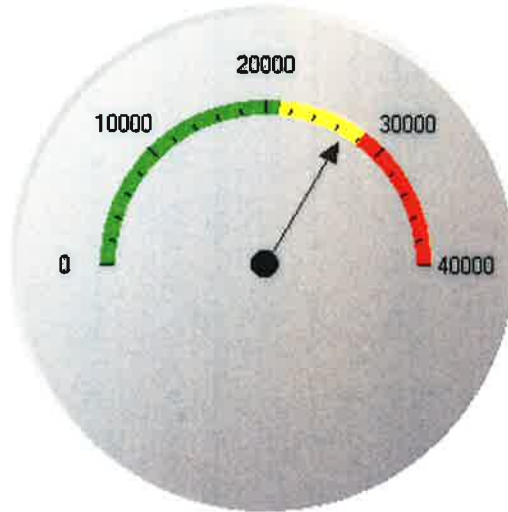
|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

|     |      |           |  |  |  |  |
|-----|------|-----------|--|--|--|--|
| 400 | 0.75 | Range 6-9 |  |  |  |  |
|-----|------|-----------|--|--|--|--|

**Influent BOD loading Lbs - Monthly AVG**

**26,658 Lbs./Day**

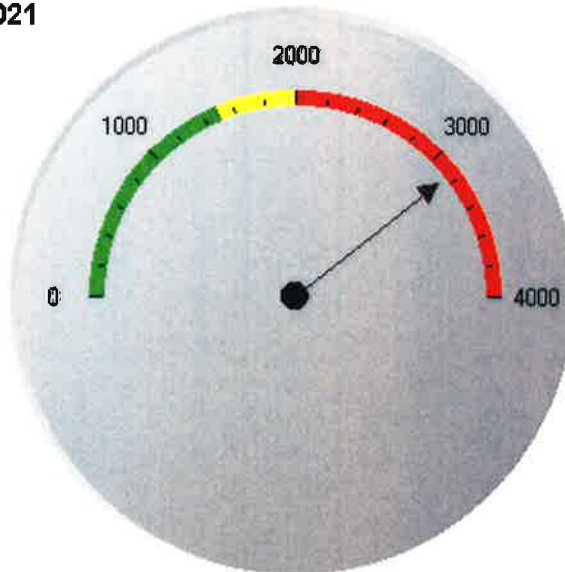
**07/01/2021 - 07/31/2021**



**Influent NH3 loading Lbs - Monthly AVG**

**3,141 Lbs./Day**

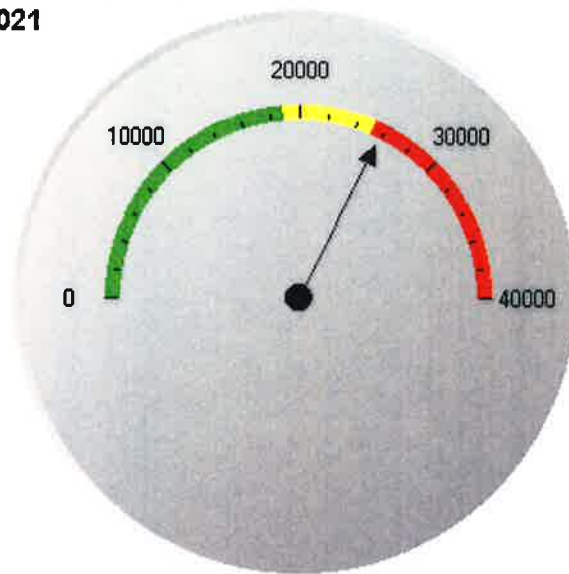
**07/01/2021 - 07/31/2021**





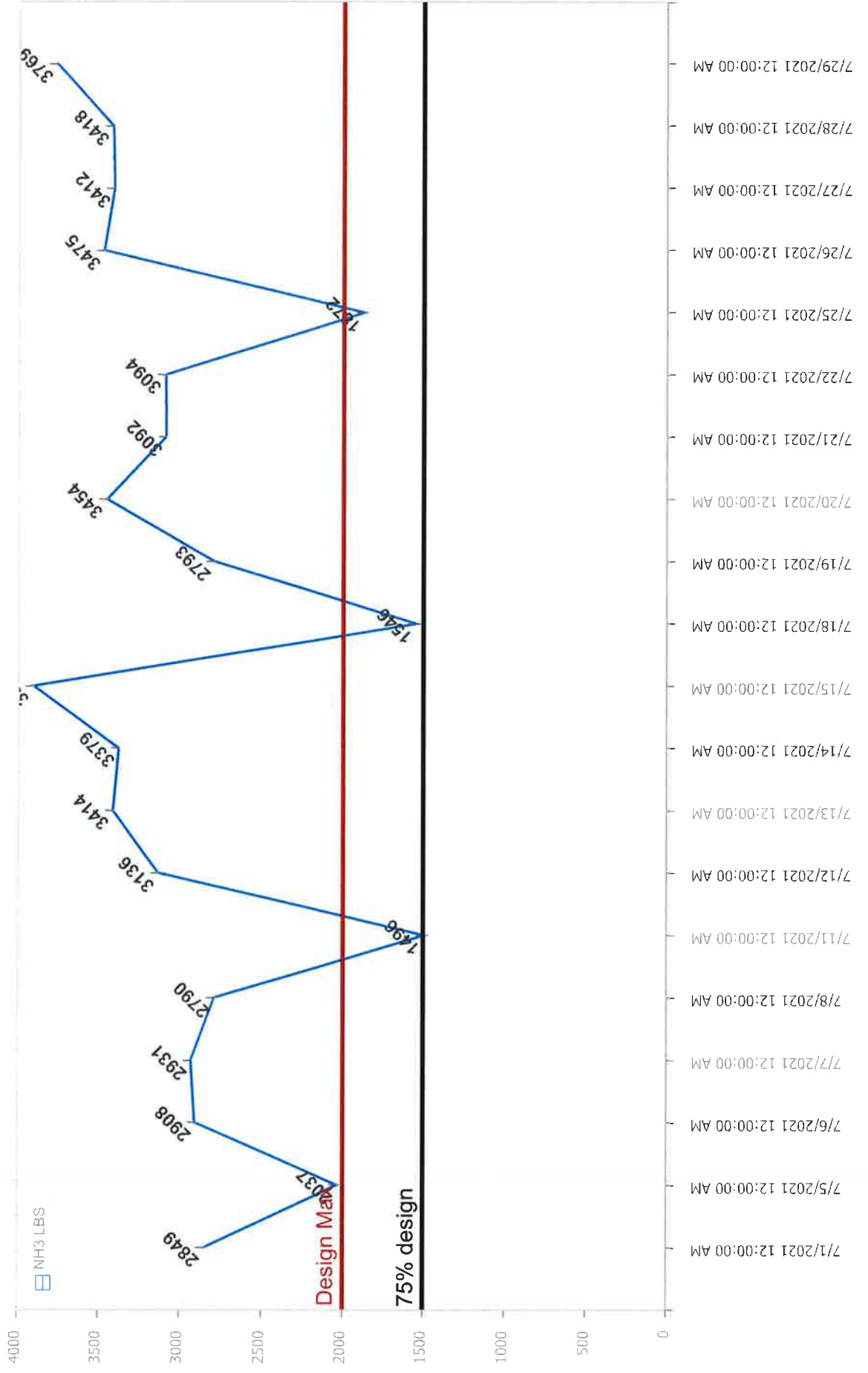
**Influent TSS loading Lbs - Monthly AVG**  
**07/01/2021 - 07/31/2021**

**25,793 Lbs./Day**

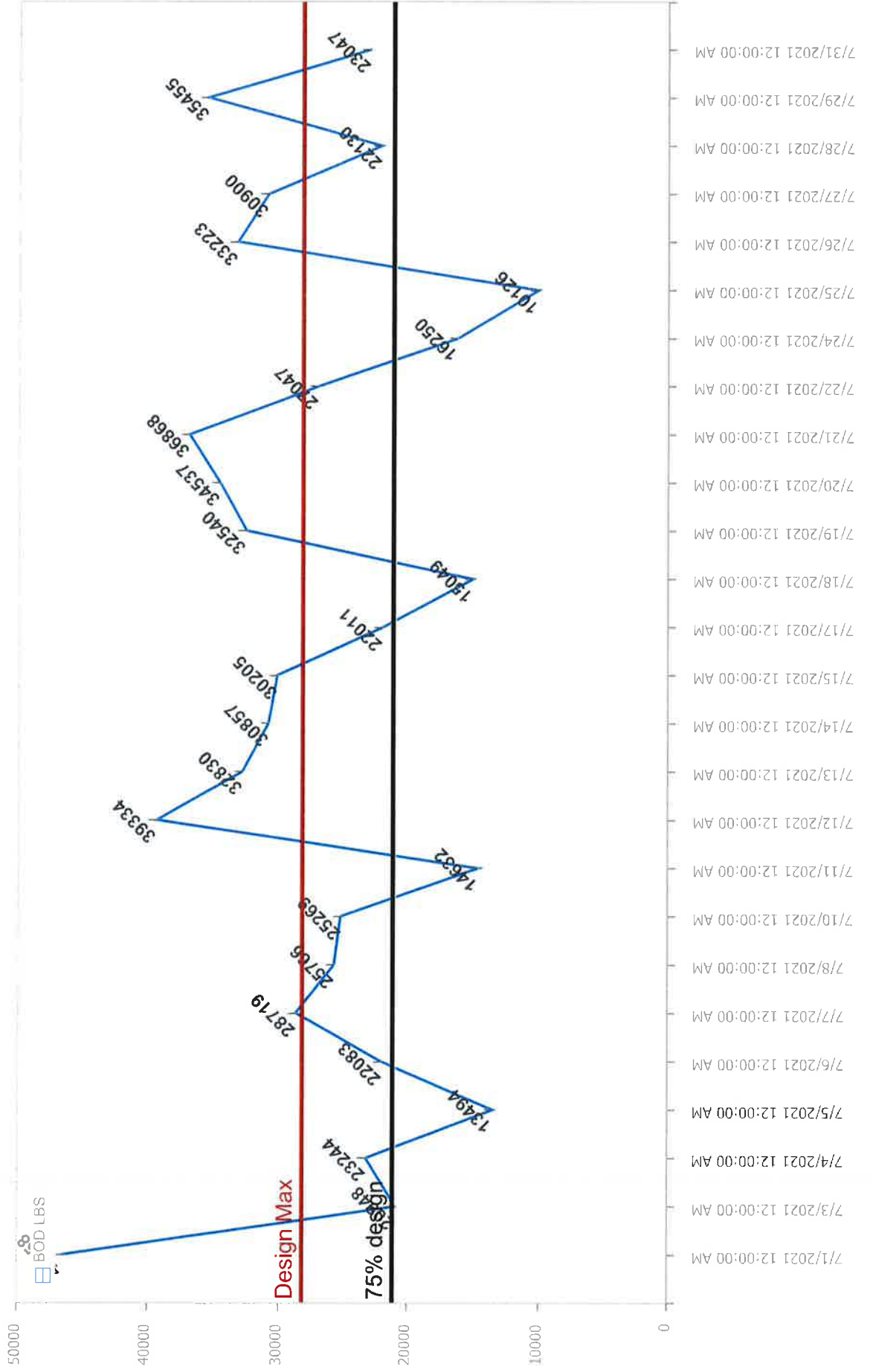


**0 to 18900 - Target Loading**  
**18900 to 25200 - Above 75% Threshold**  
**Above 25200**

**KRMA influent NH3 pounds**  
**Average Lbs. NH3: 2,938.75**



**KRMA influent BOD pounds**  
**Average Lbs. BOD: 26,658.54**



# **ATTACHMENT**

## **B**

**Flows**  
**KRMA Treatment Facility**  
**July, 2021**

| Date      | PRECIPITA<br>INCHES | PLANT<br>MGD | Kankakee<br>MGD | BOURB.<br>MGD | BradleyFlow<br>MGD | AromaPark<br>MGD |
|-----------|---------------------|--------------|-----------------|---------------|--------------------|------------------|
| 7/1/2021  | 0.00                | 22.33        | 15.02           | 4.733         | 2.526              | 0.047            |
| 7/2/2021  | 0.00                | 21.08        | 15.04           | 3.980         | 2.013              | 0.039            |
| 7/3/2021  | 0.00                | 18.89        | 13.76           | 3.491         | 1.594              | 0.039            |
| 7/4/2021  | 0.00                | 17.20        | 12.80           | 3.120         | 1.249              | 0.039            |
| 7/5/2021  | 0.00                | 15.56        | 11.04           | 3.224         | 1.256              | 0.039            |
| 7/6/2021  | 0.00                | 14.71        | 10.62           | 3.030         | 1.022              | 0.041            |
| 7/7/2021  | 0.30                | 14.11        | 9.82            | 3.211         | 1.046              | 0.035            |
| 7/8/2021  | 0.03                | 14.24        | 9.58            | 3.591         | 1.029              | 0.032            |
| 7/9/2021  | 0.00                | 14.62        | 10.78           | 2.794         | 1.008              | 0.033            |
| 7/10/2021 | 0.00                | 13.53        | 9.49            | 2.959         | 1.049              | 0.033            |
| 7/11/2021 | 0.20                | 13.19        | 8.79            | 3.220         | 1.148              | 0.033            |
| 7/12/2021 | 0.13                | 13.10        | 8.91            | 3.116         | 1.041              | 0.034            |
| 7/13/2021 | 0.00                | 13.08        | 9.03            | 2.981         | 1.029              | 0.034            |
| 7/14/2021 | 0.00                | 12.54        | 8.67            | 2.854         | 0.986              | 0.032            |
| 7/15/2021 | 0.10                | 12.40        | 8.68            | 2.700         | 0.987              | 0.032            |
| 7/16/2021 | 0.16                | 13.05        | 9.23            | 2.779         | 1.008              | 0.037            |
| 7/17/2021 | 0.00                | 13.40        | 9.80            | 2.582         | 0.978              | 0.037            |
| 7/18/2021 | 0.00                | 12.36        | 8.76            | 2.561         | 1.006              | 0.037            |
| 7/19/2021 | 0.00                | 11.75        | 8.31            | 2.512         | 0.894              | 0.033            |
| 7/20/2021 | 0.00                | 11.70        | 8.29            | 2.472         | 0.902              | 0.036            |
| 7/21/2021 | 0.08                | 11.51        | 8.06            | 2.510         | 0.909              | 0.032            |
| 7/22/2021 | 0.00                | 11.38        | 7.95            | 2.504         | 0.893              | 0.034            |
| 7/23/2021 | 0.00                | 11.20        | 7.83            | 2.461         | 0.873              | 0.035            |
| 7/24/2021 | 0.70                | 11.88        | 8.00            | 2.664         | 1.185              | 0.035            |
| 7/25/2021 | 0.00                | 12.26        | 8.33            | 2.885         | 1.013              | 0.035            |
| 7/26/2021 | 0.00                | 11.45        | 7.94            | 2.593         | 0.873              | 0.038            |
| 7/27/2021 | 0.00                | 11.37        | 8.19            | 2.258         | 0.878              | 0.034            |
| 7/28/2021 | 0.35                | 11.20        | 7.85            | 2.438         | 0.879              | 0.032            |
| 7/29/2021 | 0.00                | 11.65        | 9.09            | 1.591         | 0.935              | 0.035            |
| 7/30/2021 | 0.00                | 11.96        | 8.86            | 2.184         | 0.883              | 0.035            |
| 7/31/2021 | 0.00                | 10.84        | 7.70            | 2.234         | 0.868              | 0.035            |
| Total     | 2.05                | 419.52       | 296.23          | 88.232        | 33.961             | 1.102            |
| Average   | 0.07                | 13.53        | 9.56            | 2.846         | 1.096              | 0.036            |
| Minimum   | 0.00                | 10.84        | 7.70            | 1.591         | 0.868              | 0.032            |
| Maximum   | 0.70                | 22.33        | 15.04           | 4.733         | 2.526              | 0.047            |
| # of data | 31                  | 31           | 31              | 31            | 31                 | 31               |

# **ATTACHMENT**

## **C**



SAFETY MEETING  
August 12, 2021  
9:30am & 1:30pm  
Agenda

**I. Safety Minutes**

Review minutes from July 2021

**II. Old Business**

There were no lost time accidents for the month of July 2021

**III. New Business**

**A. Safety Training**

1. Confined Space Entry #2308 (CEU 12972)
2. Confined Space Entry permit & equipment use

**B. Safety Concerns**

**C. Safety Team Leader Report**

**D. Open Discussion**

1. Update on O&M selection
2. 39<sup>th</sup> Annual River Clean-up : September 18<sup>th</sup>, 2021 from 8am-1pm

**Next Meeting: Tuesday, September 14, 2021 9:30am & 1:30pm**



SAFETY MEETING  
July 13, 2021  
9:30am & 1:30pm  
Minutes

**In attendance:**

**9:30am session:**

Melanie Gossett, Facilitator

Shaun Ownbey            Dan Combs            Nick Scheppler            Mike Gowler

Andy Summers

Dave Tyson            Jackson Wade

**1:30pm session:**

Melanie Gossett, Facilitator

Jack Renchen            Shawn Malone            Jim Churney            Ron Haney

Josh Peters            Bryan Kennedy            John Lund            Max Gossett

Mike Arseneau            Nick Tucker

**Absent:**

Brian Power

**I. Safety Minutes**

Reviewed minutes from June 17, 2021 – Approved

**II. Old Business**

There were no lost time accidents reported for the month of June 2021.

**III. New Business**

**A. Safety Training**

1. HomeStar Insurance Services representative Suzie Werner discussed options for voluntary Short-term & Long-term Disability (as per Section 17 of the CBA)
2. Sexual Harassment Prevention training was conducted to satisfy the State of Illinois requirements of annual training.



**B. Safety Concerns**

1. The gaskets for the bar screen wash pans need to be replaced to eliminate water pooling on the floor.

✓ Gasket ordered for bar screen #3.

2. A new face shield is needed for the grinding station.

✓ Ordered

**C. Safety Team Report**

No Safety Team report; team leader absent.

**D. Open Discussion**

1. Everyone was updated on the O&M hiring status. Competency testing will be held on Saturday, July 17<sup>th</sup>.

2. A discussion was held in regards to better housekeeping practices.

a. Shovels and industrial squeegees need to be purchased for bldg. #15.

b. Hose nozzles with continuous flows may help in bldg. #15.

3. All employees were reminded of the importance of reporting injuries immediately, regardless of how minor the injury is.

Next Meeting:

**Thursday, August 12, 2021**

**9:30am & 1:30pm**

# **ATTACHMENT**

## **D**

## FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: KANKAKEE

FLOW METER MODEL: Siemens Hydro Ranger #1

Influent August 2nd, 2021

PRIMARY DEVICE: Flume

FLOW: 0-73 MGD

MEASURING DEVICE: Ultrasonic

**CHECK POINTS:**

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? Yes

BLOCKAGE? NO

SURFACE BUILD-UP? No

HEAD MEASURING DEVICE MOUNTED PROPERLY? YES

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

**CALIBRATION:**

**NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:**

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target Set 20.0MGD As Found 19.84 MGD LEVEL AFTER: 19.98 MGD

**LEVEL FLOW CONVERSION CHECK:**

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: YES/OK

**TOTALIZER CHECK:**

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: YES/OK

CALIBRATED BY: BRIAN SCHEPPLER

DATE: 8/2/2021

BC SYSTEMS INC.  
2778 N. 4000 E. ROAD  
BOURBONNAIS ILLINOIS 60914  
PHONE: 1-815-671-1257  
FAX: 1-815-802-0219

**FIELD CALIBRATION SHEET**

COMPANY: KRMA

CITY: KANKAKEE/BROOKMONT

FLOW METER MODEL: ISCO Signature

INFLUENT August 2nd, 2021

PRIMARY DEVICE: PHARSHAL

FLOW: 0-516 GPM 0-13.20 IN

MEASURING DEVICE: ULTRASONIC

**CHECK POINTS:**

LEVEL? YES

FREE FLOWING? YES

TURBULENCE? NO

BLOCKAGE? No

SURFACE BUILD-UP? NONE

HEAD MEASURING DEVICE MOUNTED PROPERLY?

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? Yes

**CALIBRATION:**

**NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:**

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target 24.125" Level 24.119

LEVEL AFTER: 24.119"

**LEVEL FLOW CONVERSION CHECK:**

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: Yes

**TOTALIZER CHECK:**

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: Yes

CALIBRATED BY: Brian Scheppler

DATE 8/2/2021

BC SYSTEMS INC.  
2778 N. 4000 E. ROAD  
BOURBONNAIS ILLINOIS 60914  
PHONE: 1-815-671-1257  
FAX: 1-815-802-0219

**FIELD CALIBRATION SHEET**

COMPANY: KRMA

CITY: BRADLEY/ RIVER DRIVE

FLOW METER MODEL: Isco Signature

INFLUENT August 2, 2021

PRIMARY DEVICE: PHARSHAL

FLOW: 0-21.36

MEASURING DEVICE: ULTRASONIC

**CHECK POINTS:**

LEVEL? YES

FREE FLOWING? NO

TURBULENCE? Yes

BLOCKAGE? NO

SURFACE BUILD-UP? NONE

HEAD MEASURING DEVICE MOUNTED PROPERLY? YES

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

**CALIBRATION:**

NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target 10.5" Level reading 10.361"

LEVEL AFTER: 10.504"

**LEVEL FLOW CONVERSION CHECK:**

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: YES/OK

**TOTALIZER CHECK:**

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: YES/OK

CALIBRATED BY: BRIAN SCHEPPLER

DATE: 8/2/2021

BC SYSTEMS INC.  
2778 N. 4000 E. ROAD  
BOURBONNAIS ILLINOIS 60914  
PHONE: 1-815-671-1257  
FAX: 1-815-802-0219

## FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: KANKAKEE

FLOW METER MODEL: Siemens Hydro Ranger #2

INFLUENT August 2nd, 2021

PRIMARY DEVICE: Flume

FLOW: 0-73.425 MGD

MEASURING DEVICE: Ultrasonic

### CHECK POINTS:

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? NO

BLOCKAGE? NO

SURFACE BUILD-UP? No

HEAD MEASURING DEVICE MOUNTED PROPERLY? YES

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

### CALIBRATION:

NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target Set 20.0 MGD AS Found 19.82 MGD

LEVEL AFTER: 19.99 MGD

### LEVEL FLOW CONVERSION CHECK:

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: YES/OK

### TOTALIZER CHECK:

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: YES/OK

CALIBRATED BY: BRIAN SCHEPPLER

DATE: 8/2/2021

BC SYSTEMS INC.  
2778 N. 4000 E. ROAD  
BOURBONNAIS ILLINOIS 60914  
PHONE: 1-815-671-1257  
FAX: 1-815-802-0219

**FIELD CALIBRATION SHEET**

COMPANY: KRMA

CITY: KANKAKEE/RIVERLANE

FLOW METER MODEL: Isco Signature

INFLUENT August 2nd, 2021

PRIMARY DEVICE: PHARSHAL

FLOW: 0-516 GPM 0-13.20 IN

MEASURING DEVICE: ULTRASONIC

**CHECK POINTS:**

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? NO

BLOCKAGE? No

SURFACE BUILD-UP? Yes

HEAD MEASURING DEVICE MOUNTED PROPERLY? Yes

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? Yes

**CALIBRATION:**

**NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:**

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT  
LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED  
POINT

C) LEVEL BEFORE: TARGET SET 24.125 Level 24.086"

LEVEL AFTER: 24.121"

**LEVEL FLOW CONVERSION CHECK:**

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH  
HANDBOOK OR PRIMARY DEVICE DATA SHEET: Yes

**TOTALIZER CHECK:**

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS  
INTEGRATING PROPERLY USING TIMED RATE METHOD: Yes

CALIBRATED BY: Brian Scheppler

DATE: 8/2/2021

BC SYSTEMS INC.  
2778 N. 4000 E. ROAD  
BOURBONNAIS ILLINOIS 60914  
PHONE: 1-815-671-1257  
FAX: 1-815-802-0219

## FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: Kankakee Influent

FLOW METER MODEL: Isco Laser Flow

INFLUENT August 3rd, 2021

PRIMARY DEVICE: 72" PIPE

FLOW: 0-115 MGD

MEASURING DEVICE:

CHECK POINTS:

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? NO

BLOCKAGE? NO

SURFACE BUILD-UP? Foam

HEAD MEASURING DEVICE MOUNTED PROPERLY? YES

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

CALIBRATION:

NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target level 36.5" As found 36.173"

LEVEL AFTER: 36.53"

LEVEL FLOW CONVERSION CHECK:

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: YES/OK

TOTALIZER CHECK:

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: YES/OK

CALIBRATED BY: BRIAN SCHEPPLER

DATE: 8/3/2021

BC SYSTEMS INC.  
2778 N. 4000 E. ROAD  
BOURBONNAIS ILLINOIS 60914  
PHONE: 1-815-671-1257  
FAX: 1-815-802-0219



## FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: BOURBONNAIS/New

FLOW METER MODEL: Isco Laser Flow

INFLUENT August 3rd, 2021

PRIMARY DEVICE: 36" PIPE

FLOW: 0-21.36 MGD

MEASURING DEVICE:

### CHECK POINTS:

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? NO

BLOCKAGE? NO

SURFACE BUILD-UP? None

HEAD MEASURING DEVICE MOUNTED PROPERLY? YES

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

### CALIBRATION:

NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target level 13.5" As found 13.230

LEVEL AFTER: 13.230" No adjustments made due to ISCO recommendations

### LEVEL FLOW CONVERSION CHECK:

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: YES/OK

### TOTALIZER CHECK:

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: YES/OK

CALIBRATED BY: BRIAN SCHEPPLER

DATE: 8/3/2021

BC SYSTEMS INC.  
2778 N. 4000 E. ROAD  
BOURBONNAIS ILLINOIS 60914  
PHONE: 1-815-671-1257  
FAX: 1-815-802-0219

# **ATTACHMENT**

**E**

July 2021 Monthly Pretreatment Sample Analysis (metals, cyanide & VOA) for the permitted industries were a total of **88 samples** and a total of **518 analyses**.

|  |            |
|--|------------|
| <b>Gilster-Mary Lee Corporation</b>              | 11 Samples |
| <b>Hoffman Transportation, LLC</b>               | 2 Samples  |
| <b>Laraway Recycling &amp; Disposal Facility</b> | 3 Samples  |
| <b>Liberty Landfill, LLC</b>                     | 9 Samples  |
| <b>Livingston Landfill</b>                       | 4 Samples  |
| <b>Natural Gas &amp; Pipeline Co. of America</b> | 4 Samples  |
| <b>Newton County Landfill</b>                    | 14 Samples |
| <b>Prairie View RDF</b>                          | 8 Samples  |
| <b>Tank Cleaning Solutions, LLC</b>              | 32 Samples |
| <b>Zutat Feed Solutions</b>                      | 1 Sample   |

Volumes Received for July 2021 for trucked-in industries.

|   |                       |                  |
|---|-----------------------|------------------|
| <b>Gilster-Mary Lee Corporation</b>                         | 95,000 gals           | 17 loads         |
| <b>Hoffman Transportation, LLC</b>                          | 20,000 gals           | 4 loads          |
| <b>Kankakee Recycling &amp; Disposal Facility</b>           | 0 gals                | 0 loads          |
| <b>Lake County C&amp;D Landfill</b>                         | 0 gals                | 0 loads          |
| <b>Laraway Recycling &amp; Disposal Facility</b>            | 30,586 gals           | 5 loads          |
| <b>Liberty 3 LFGTE Plant - Wabash Valley Power Alliance</b> | 0 gals                | 0 loads          |
| <b>Liberty Landfill, LLC</b>                                | 837,548 gals          | 125 loads        |
| <b>Livingston Landfill</b>                                  | 200,917 gals          | 31 loads         |
| <b>Natural Gas &amp; Pipeline Co. of America</b>            | 75,000 gals           | 15 loads         |
| <b>Newton County Landfill</b>                               | 1,526,979 gals        | 239 loads        |
| <b>Peoria Packing Co.</b>                                   | 0 gals                | 0 loads          |
| <b>Prairie View RDF</b>                                     | 372,450 gals          | 67 loads         |
| <b>Tank Cleaning Solutions, LLC</b>                         | 156,039 gals          | 33 loads         |
| <b>Zutat Feed Solutions</b>                                 | 24,000 gals           | 4 loads          |
| <b>Totals:</b>  | <b>3,338,519 gals</b> | <b>540 loads</b> |

The KRMA Facility received a total of **239 loads** of septage which totalled **725,100 gallons** for the month of July 2021

KRMA YEARLY UTILITY USAGE - (2021)

| KRMA ELECTRIC ENERGY USE |      |                     |                   |           |             |                  |              |           |         |      |                              | KRMA WATER USE |                   |  |  |  |
|--------------------------|------|---------------------|-------------------|-----------|-------------|------------------|--------------|-----------|---------|------|------------------------------|----------------|-------------------|--|--|--|
| Total KWH                | Days | Total Cost \$/month | Total Cost \$/day | Hydro KWH | Methane KWH | Mid-American KWH | KWH/HR (Avg) | \$/KWH    | Gallons | Days | Total Cost \$/Billing Period | Gallons/Day    | Total Cost \$/day |  |  |  |
| 923,110                  | 34   | \$ 58,146           | \$ 1,710          | -         | 0           | 923,110          | 1,131        | \$ 0.0630 | 620,000 | 66   | \$ 4,071                     | 9,394          | 62                |  |  |  |
| 805,257                  | 28   | \$ 67,560           | \$ 2,413          | -         | -           | 805,257          | 1,198        | \$ 0.0839 | 250,000 | 28   | \$ 2,165                     | 8,929          | 77                |  |  |  |
| 665,565                  | 28   | \$ 44,646           | \$ 1,595          | -         | -           | 665,565          | 990          | \$ 0.0671 | 170,000 | 27   | \$ 1,705                     | 6,296          | 63                |  |  |  |
| 809,326                  | 31   | \$ 53,787           | \$ 1,735          | -         | -           | 809,326          | 1,088        | \$ 0.0665 | 410,000 | 21   | \$ 2,898                     | 19,524         | 138               |  |  |  |
| 961,551                  | 31   | \$ 58,930           | \$ 1,901          | 35,134    | 100,555     | 825,862          | 1,292        | \$ 0.0613 | 480,000 | 37   | \$ 3,621                     | 12,973         | 98                |  |  |  |
| 1,040,131                | 29   | \$ 44,618           | \$ 1,539          | 190,806   | 217,853     | 631,472          | 1,494        | \$ 0.0429 | 410,000 | 48   | \$ 3,504                     | 8,542          | 73                |  |  |  |
| 920,402                  |      | \$ 42,734           | #DIV/0!           |           | 137,088     | 783,314          | #DIV/0!      | \$ 0.0464 | 410,000 | 42   | \$ 3,407                     | 9,762          | 81                |  |  |  |
| 0                        |      |                     | #DIV/0!           |           |             |                  | #DIV/0!      | #DIV/0!   |         |      |                              |                | #DIV/0!           |  |  |  |
| 0                        |      |                     | #DIV/0!           |           |             |                  | #DIV/0!      | #DIV/0!   |         |      |                              |                | #DIV/0!           |  |  |  |
| 0                        |      |                     | #DIV/0!           |           |             |                  | #DIV/0!      | #DIV/0!   |         |      |                              |                | #DIV/0!           |  |  |  |
| 0                        |      |                     | #DIV/0!           |           |             |                  | #DIV/0!      | #DIV/0!   |         |      |                              |                | #DIV/0!           |  |  |  |
| 0                        |      |                     | #DIV/0!           |           |             |                  | #DIV/0!      | #DIV/0!   |         |      |                              |                | #DIV/0!           |  |  |  |
| 6,125,342                | 181  | \$ 370,421          | #DIV/0!           | 225,940   | 455,496     | 5,443,906        | KWH/HR (Avg) | \$/KWH    | Gallons | Days | \$ 21,371                    | Gallons/Day    | Total Cost \$/day |  |  |  |
| Total KWH                | Days | Total Cost \$/month | Total Cost \$/day | Hydro KWH | Methane KWH | Mid-American KWH | KWH/HR (Avg) | \$/KWH    | Gallons | Days | Total Cost \$/Billing Period | Gallons/Day    | Total Cost \$/day |  |  |  |

Th

| KRMA NATURAL GAS USE |      |                              |            |                   |                   |
|----------------------|------|------------------------------|------------|-------------------|-------------------|
| Therms               | Days | Total Cost \$/Billing Period | Therms/Day | Total Cost \$/day | Total Cost \$/day |
| 44,638               | 31   | \$ 16,871                    | 1440       | \$ 544            | 544               |
| 47,672               | 28   | \$ 13,273                    | 1703       | \$ 474            | 474               |
| 31,730               | 31   | \$ 15,793                    | 1024       | \$ 509            | 509               |
| 23,881               | 30   | \$ 14,133                    | 796        | \$ 471            | 471               |
| 18,408               | 31   | \$ 8,306                     | 594        | \$ 268            | 268               |
| 9,907                | 30   | \$ 4,824                     | 330        | \$ 161            | 161               |
| 12,278               | 31   | \$ 6,549                     | 396        | \$ 211            | 211               |
|                      |      |                              | #DIV/0!    | #DIV/0!           | #DIV/0!           |
|                      |      |                              | #DIV/0!    | #DIV/0!           | #DIV/0!           |
|                      |      |                              | #DIV/0!    | #DIV/0!           | #DIV/0!           |
|                      |      |                              | #DIV/0!    | #DIV/0!           | #DIV/0!           |
|                      |      |                              | #DIV/0!    | #DIV/0!           | #DIV/0!           |
| 188,514              | 212  | \$ 79,749                    | #DIV/0!    | #DIV/0!           | #DIV/0!           |
| Therms               | Days | Total Cost \$/Billing Period | Therms/Day | Total Cost \$/day | Total Cost \$/day |

Annual Load / Gallon Totals

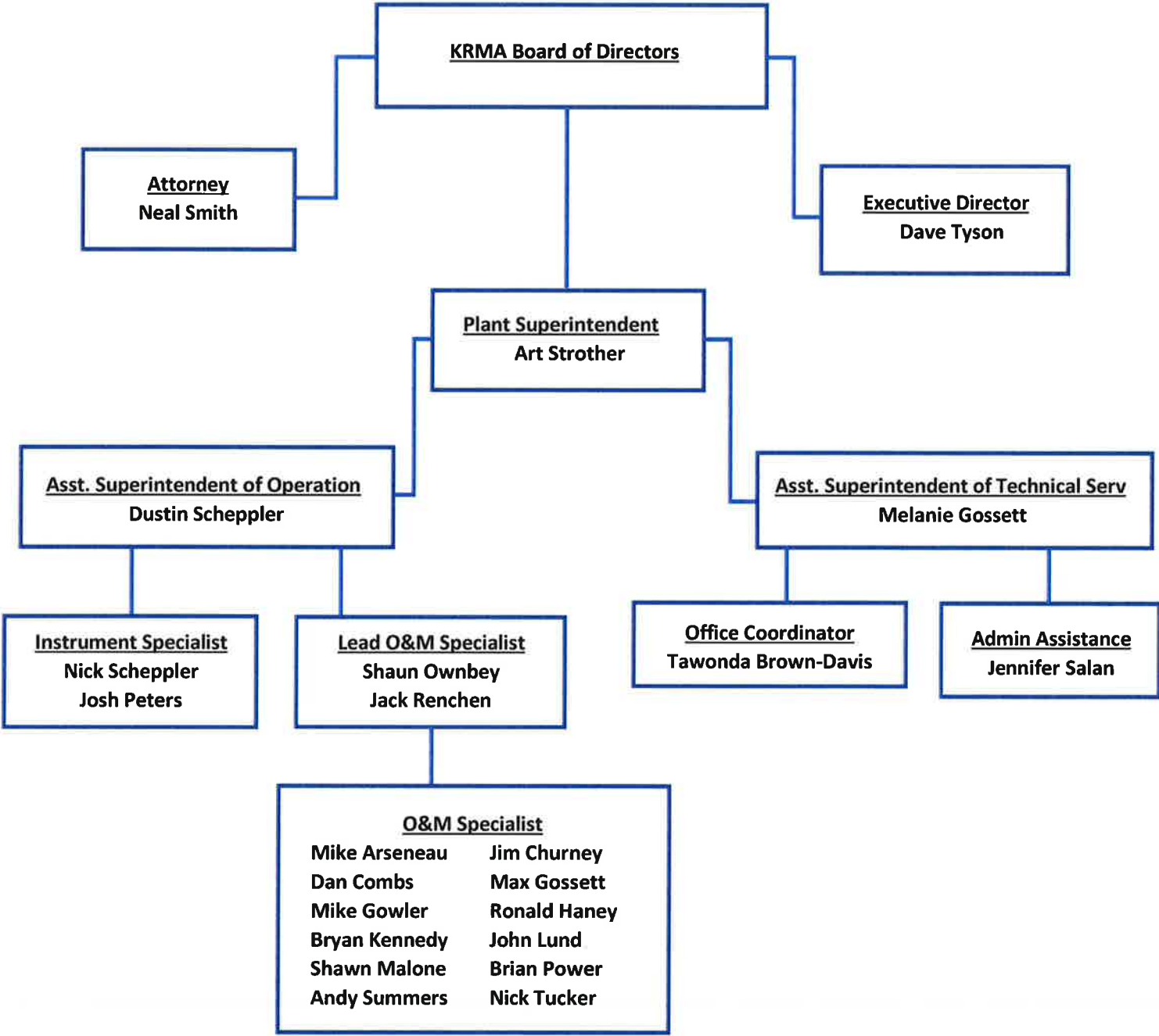
2021



|                                | City of Monroeville/Moemen LLC Packing | Glister-Navy Lee Corporation | Hoffman Transportation, LLC | Kankakee Recycling & Disposal Facility | Lake County C&D Landfill | Lawray Recycling & Disposal Facility | Liberty 3 LGTE Plant - Vabashi Alliance | Liberty Landfill LLC | Langston Landfill | Natural Gas & Pipeline Co of America | Newton County Landfill | Odyssey US LLC | Peoria Packing Co. | Prairie View RDF | Solvey USA Inc | Tank Cleaning Solutions, LLC | Zurat Feed Solutions | Total             | # Loads      |
|--------------------------------|--|------------------------------|-----------------------------|--|--------------------------|--------------------------------------|---|----------------------|-------------------|--------------------------------------|------------------------|----------------|--------------------|------------------|----------------|------------------------------|----------------------|-------------------|--------------|
| January                        | 138,200                                | 80,000                       | 10,000                      |  | 57,287                   |                                      |   | 912,664              | 255,040           | 50,000                               | 1,331,545              |                |                    | 95,432           | 72,194         | 180,472                      | 23,000               | 3,205,834         | 512          |
| February                       | 168,000                                | 61,000                       | 15,000                      |  |                          |                                      |   | 1,387,606            | 166,784           | 30,000                               | 913,999                |                |                    | 25,925           | 42,583         | 200,029                      | 18,000               | 3,028,926         | 487          |
| March                          |  | 109,000                      | 25,000                      | 7,000                                  |                          |                                      |   | 1,046,929            | 202,053           | 115,000                              | 1,405,353              | 72,338         | 3,500              | 74,567           | 244,479        | 36,000                       |                      | 3,341,219         | 548          |
| April                          |  | 87,000                       |                             | 7,000                                  |                          | 5,825                                |   | 951,099              | 162,572           | 35,000                               | 1,383,535              | 71,113         |                    | 196,500          | 157,934        | 30,000                       |                      | 3,087,578         | 503          |
| May                            |  | 67,000                       | 10,000                      |  |                          |                                      |   | 692,347              | 157,220           | 60,000                               | 1,540,176              | 50,123         | 8,600              | 238,613          | 116,493        | 42,000                       |                      | 2,982,572         | 482          |
| June                           |  | 87,000                       | 5,000                       |  |                          |                                      |   | 870,217              | 311,792           | 75,000                               | 1,609,740              | 72,321         | 1,000              | 258,602          | 209,940        | 12,000                       |                      | 3,512,812         | 570          |
| July                           |  | 95,000                       | 20,000                      |  |                          | 30,586                               |   | 837,548              | 200,917           | 75,000                               | 1,526,979              |                |                    | 372,450          | 156,039        | 24,000                       |                      | 3,336,519         | 540          |
| August                         |  |                              |                             |  |                          |                                      |   |                      |                   |                                      |                        |                |                    |                  |                |                              |                      |                   |              |
| September                      |  |                              |                             |  |                          |                                      |   |                      |                   |                                      |                        |                |                    |                  |                |                              |                      |                   |              |
| October                        |  |                              |                             |  |                          |                                      |   |                      |                   |                                      |                        |                |                    |                  |                |                              |                      |                   |              |
| November                       |  |                              |                             |  |                          |                                      |   |                      |                   |                                      |                        |                |                    |                  |                |                              |                      |                   |              |
| December                       |  |                              |                             |  |                          |                                      |   |                      |                   |                                      |                        |                |                    |                  |                |                              |                      |                   |              |
| <b>Totals</b>                  | <b>306,200</b>                         | <b>586,080</b>               | <b>85,000</b>               | <b>14,000</b>                          | <b>57,287</b>            | <b>36,411</b>                        | <b>0</b>                                | <b>6,698,410</b>     | <b>1,456,378</b>  | <b>440,000</b>                       | <b>9,711,327</b>       | <b>265,895</b> | <b>13,100</b>      | <b>1,262,289</b> | <b>114,777</b> | <b>1,265,386</b>             | <b>185,000</b>       | <b>22,497,460</b> | <b>3,642</b> |
| Average                        | 51,033                                 | 83,714                       | 12,142                      | 2,333                                  | 9,547                    | 5,201                                | 0.056                                   | 956,915              | 208,054           | 62,657                               | 1,387,332              | 66,473         | 2,183              | 180,327          | 57,388         | 180,769                      | 26,428               | 3,213,923         | 520          |
| Treatment Costs as of 05/01/21 | 0.082                                  | 0.082                        | 0.056                       | 0.056                                  | 0.056                    | 0.056                                | 0.056                                   | 0.056                | 0.056             | 0.082                                | 0.056                  | 0              | 0.082              | 0.056            | 0              | 0.082                        | 0.071                |                   |              |
| Treatment Costs as of 05/01/20 | 0                                      | 0.071                        | 0.049                       | 0.049                                  | 0.049                    | 0.049                                | 0                                       | 0.049                | 0.049             | 0.071                                | 0.042                  | 0              | 0.071              | 0.049            | 0              | 0.071                        | 0.071                |                   |              |



*Providing Wastewater Treatment to the Kankakee River Valley*





**Monthly TSS/BOD  
Loading Report**  
July, 2021

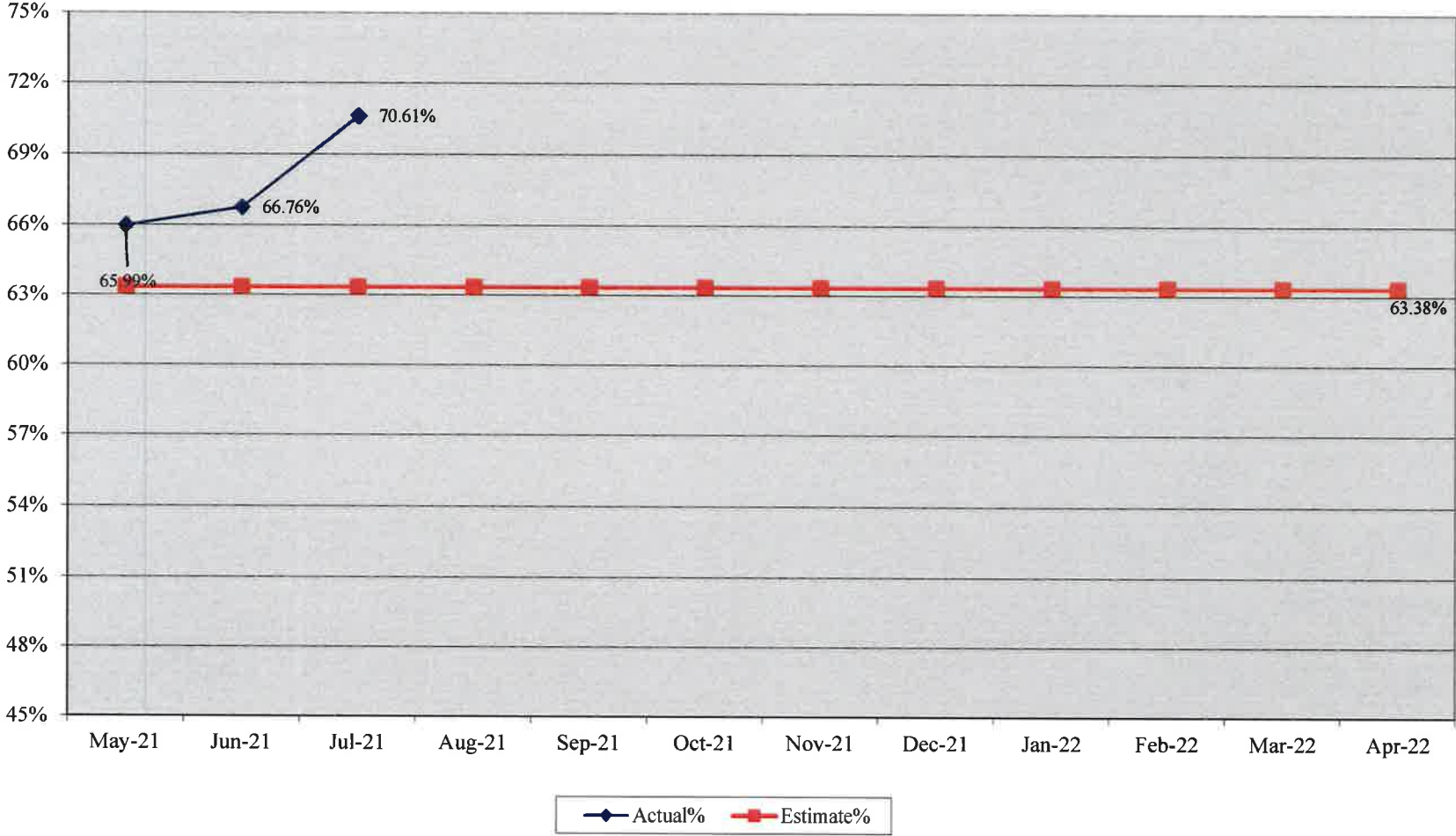
**IV-C-2**  
1600 West Brookmont Blvd.  
Kankakee, IL 60901  
Phone: 815-933-0444  
Fax: 815-933-0104

| <b>Hauler</b>                         | <b>Gallons</b>   | <b>Lbs TSS</b> | <b>Lbs BOD</b> |
|---------------------------------------|------------------|----------------|----------------|
| Gilster-Mary Lee Corporation          | 95,000           | 7,202          | 8,616          |
| Hoffman Transportation, LLC           | 20,000           | 11             | 248            |
| Laraway Recycling & Disposal Facility | 30,586           | 179            | 2,143          |
| Liberty Landfill, LLC                 | 837,548          | 1,765          | 17,335         |
| Livingston Landfill                   | 200,917          | 4,212          | 10,271         |
| Natural Gas & Pipeline Co. of America | 75,000           | 93             | 110            |
| Newton County Landfill                | 1,526,979        | 15,380         | 251,538        |
| Prairie View RDF                      | 372,450          | 1,586          | 21,396         |
| Tank Cleaning Solutions, LLC          | 156,039          | 134            | 1,949          |
| Zutat Feed Solutions                  | 24,000           | 2,056          | 2,391          |
| <b>Totals:</b>                        | <b>3,338,519</b> | <b>32,619</b>  | <b>315,994</b> |





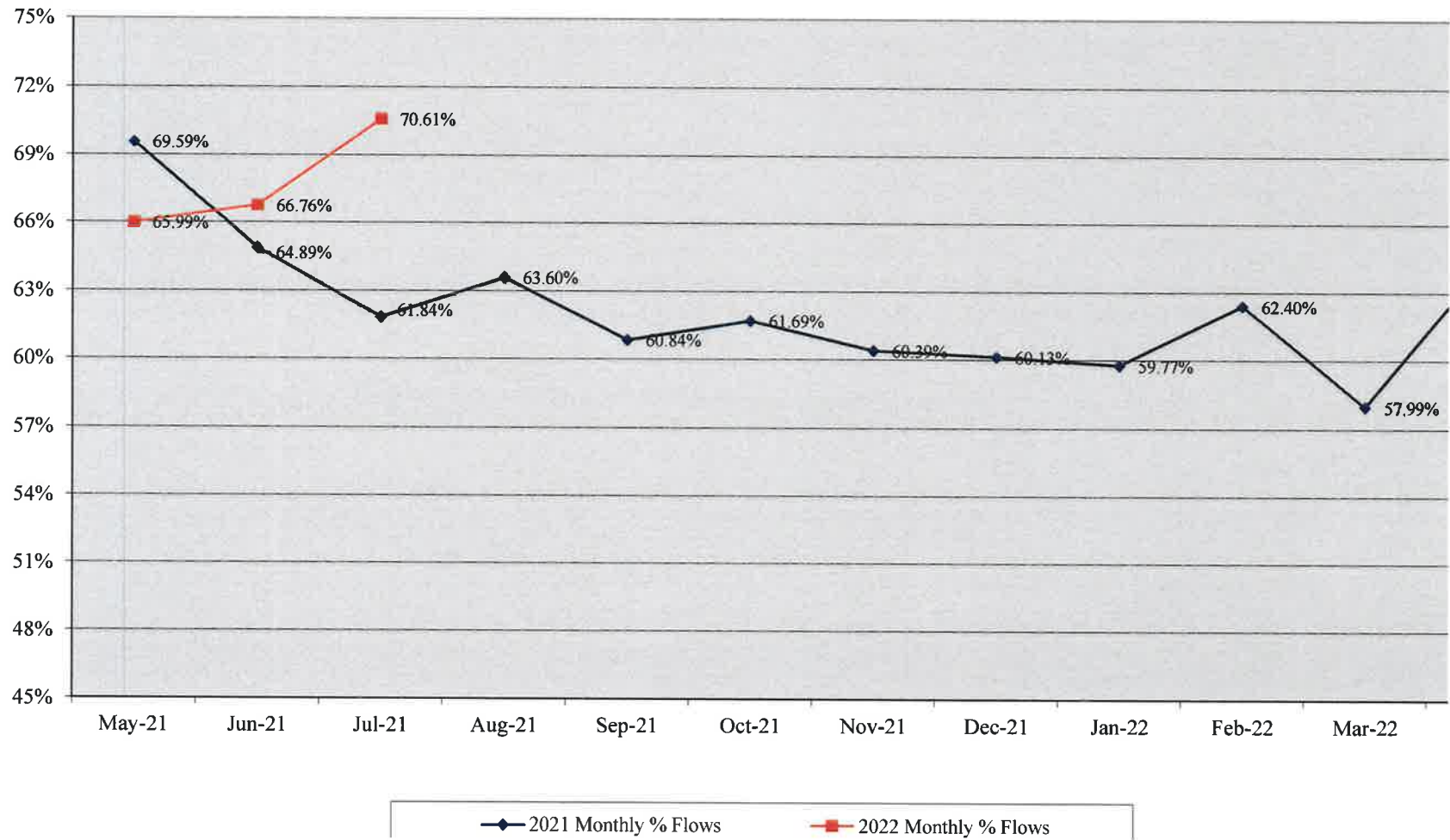
**Kankakee River Metropolitan Agency**  
**City of Kankakee**  
**Actual % vs. Estimate FYE 4-30-22**



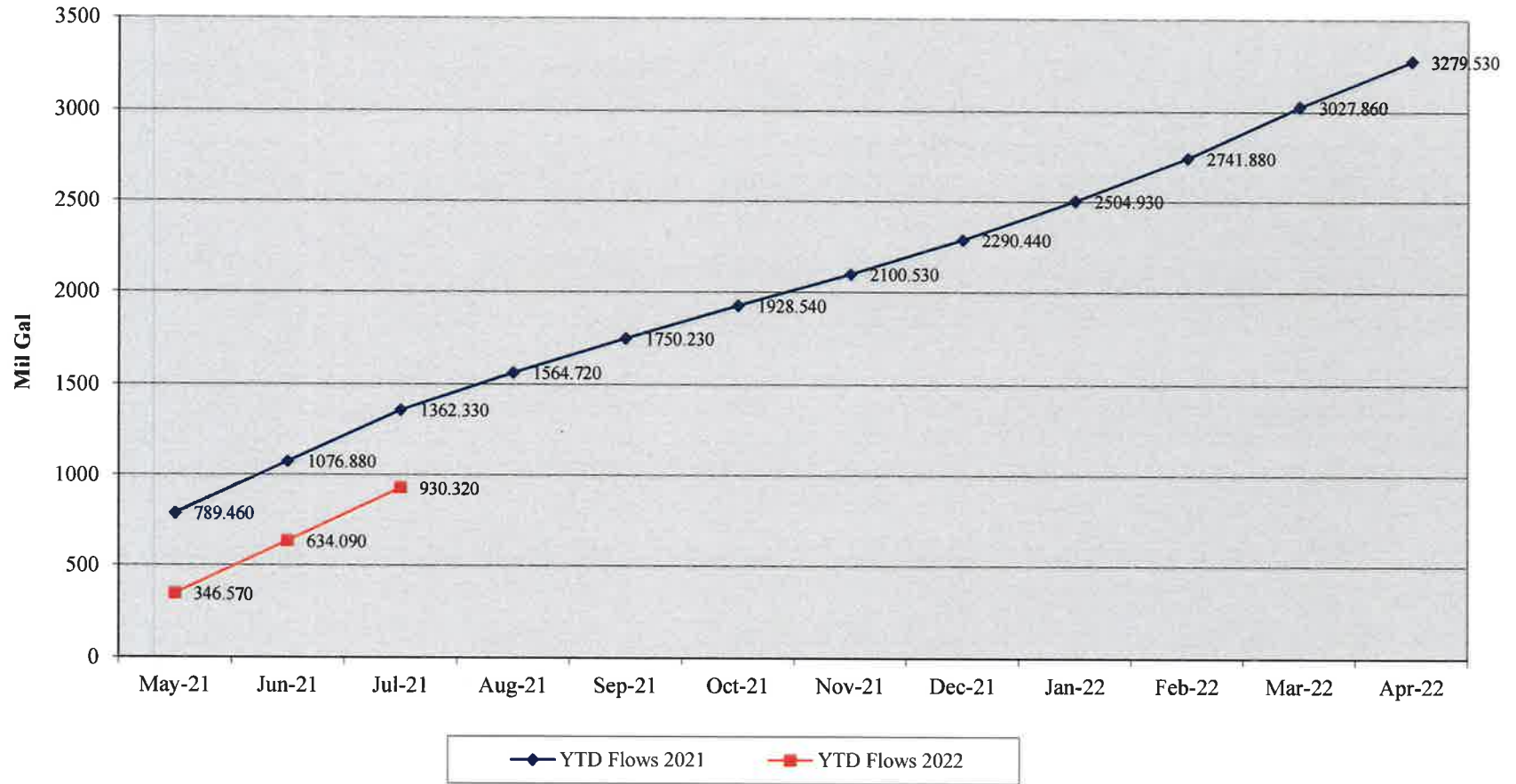
# Kankakee River Metropolitan Agency

## City of Kankakee

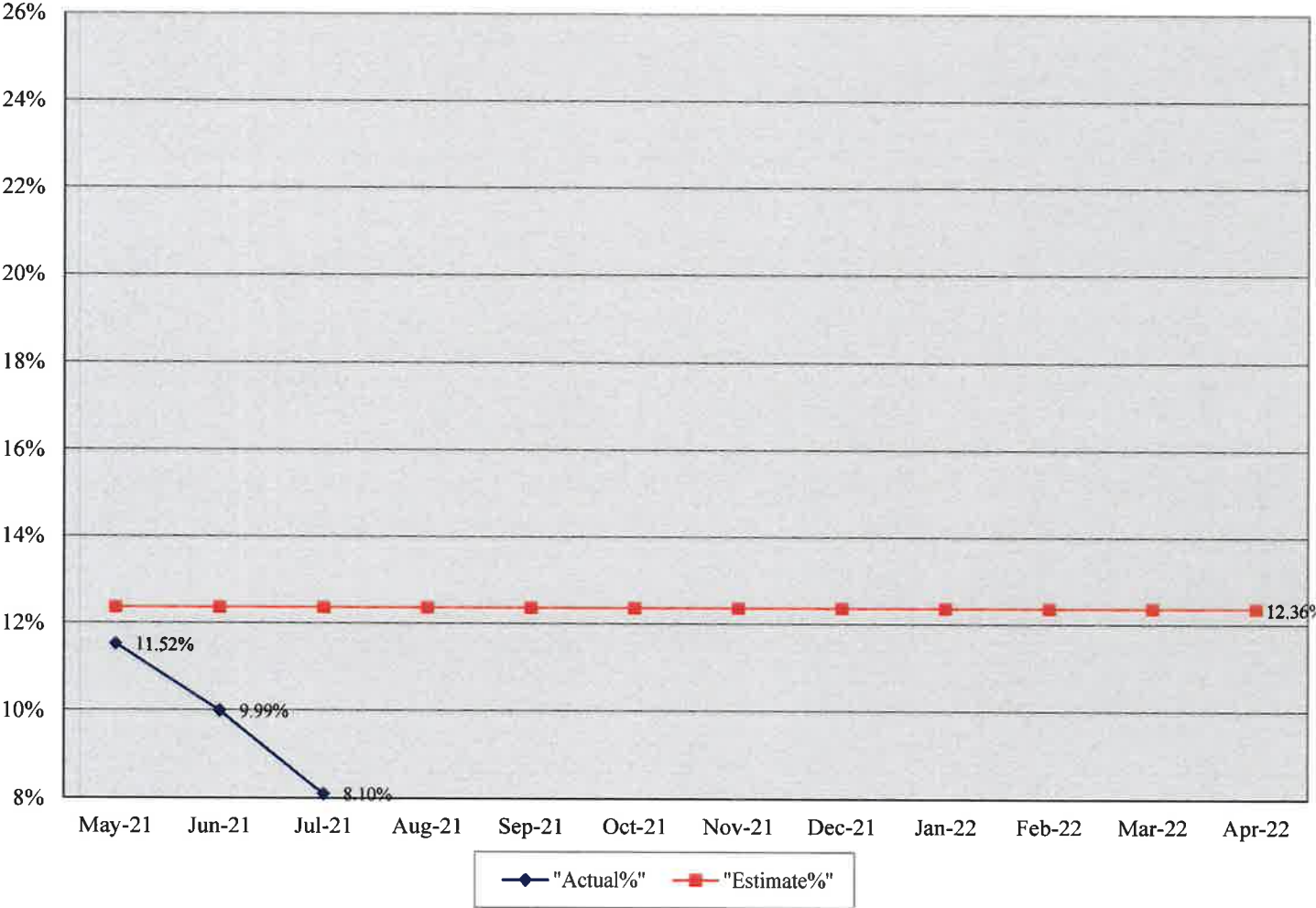
### Monthly % Flows - 2021 vs. 2022



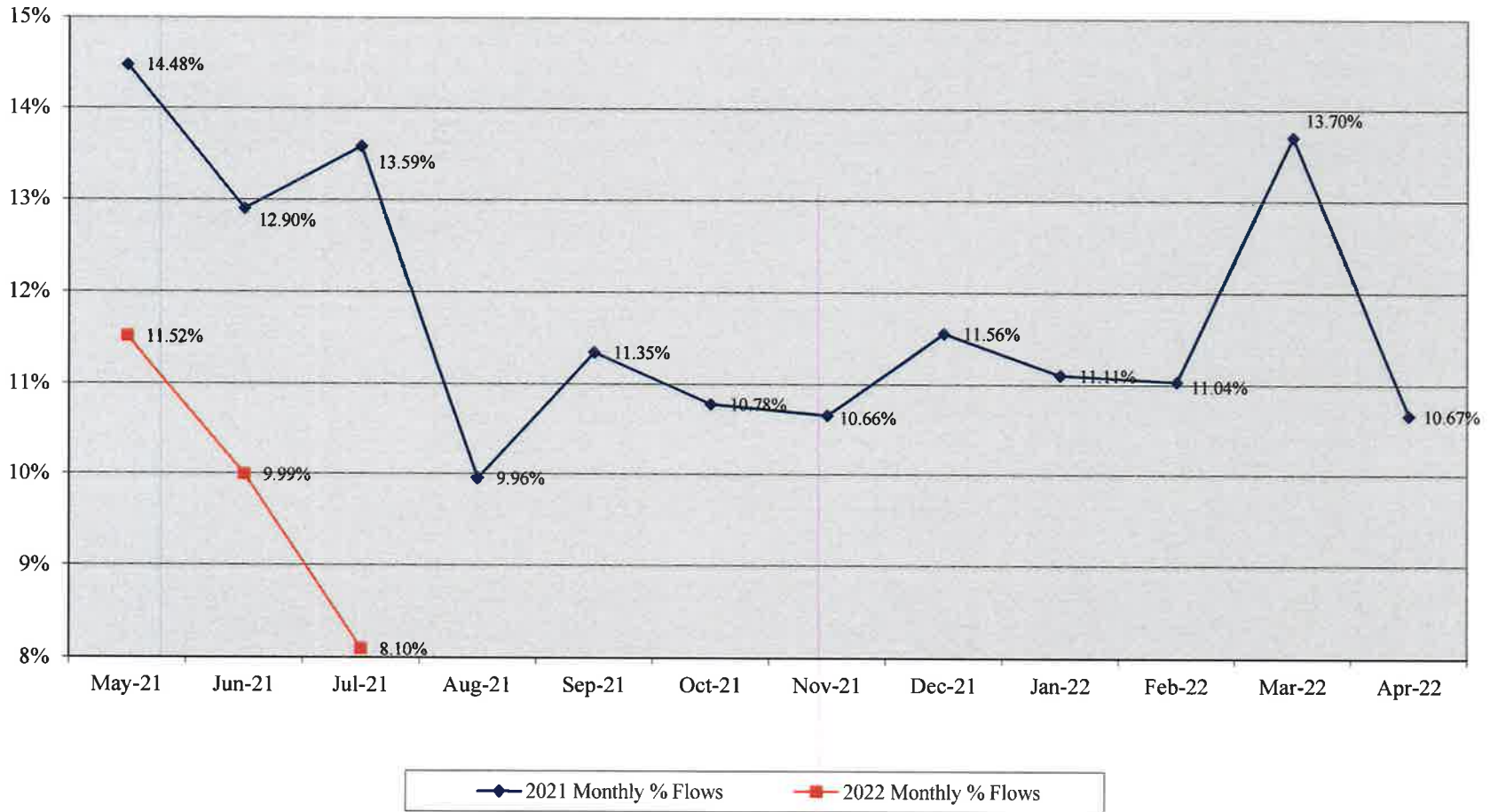
**Kankakee River Metropolitan Agency**  
**City of Kankakee**  
**YTD Flows 2021 vs. 2022**



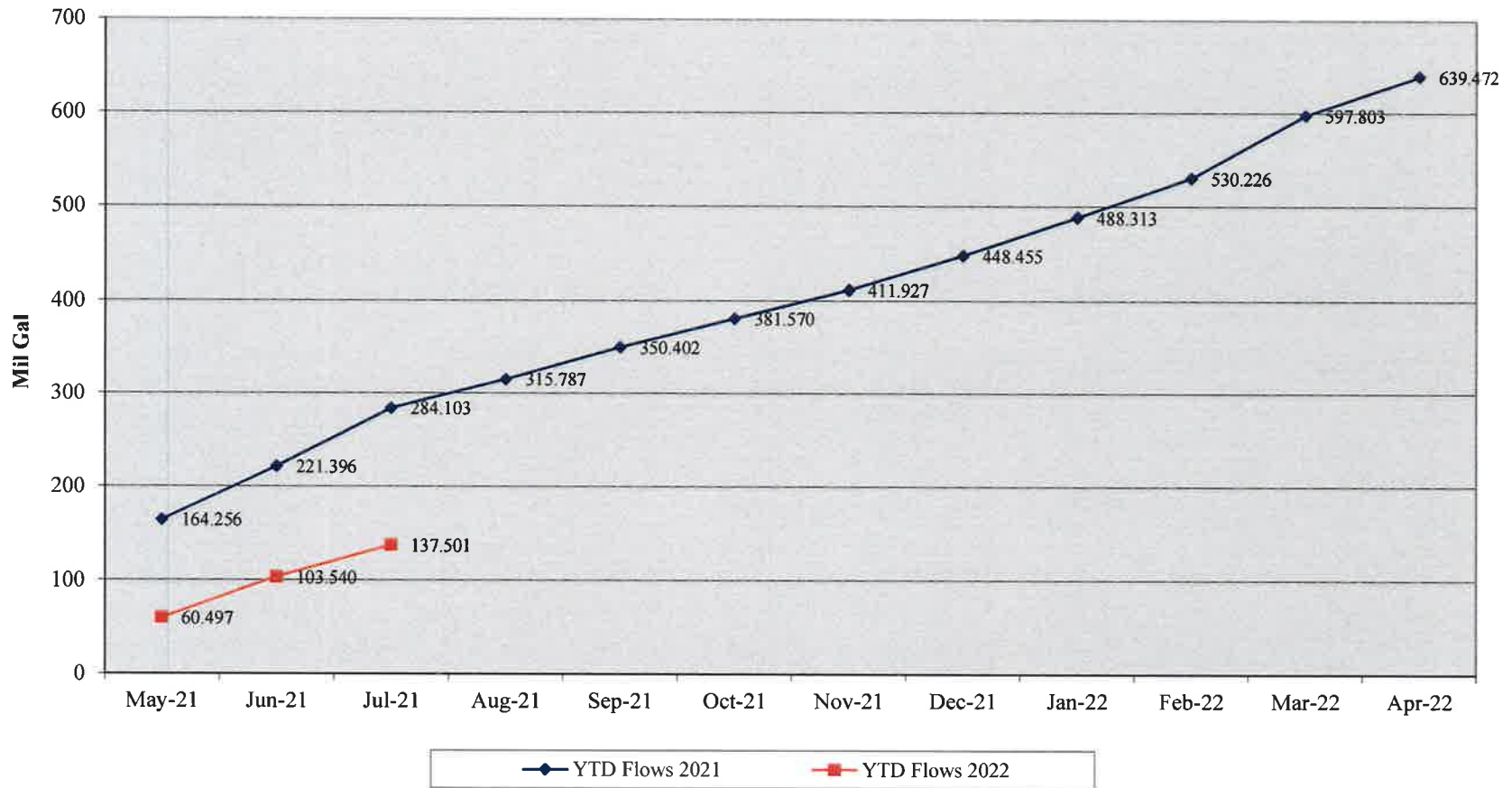
**Kankakee River Metropolitan Agency**  
**Village of Bradley**  
**Actual % vs. Estimate FYE 4-30-22**



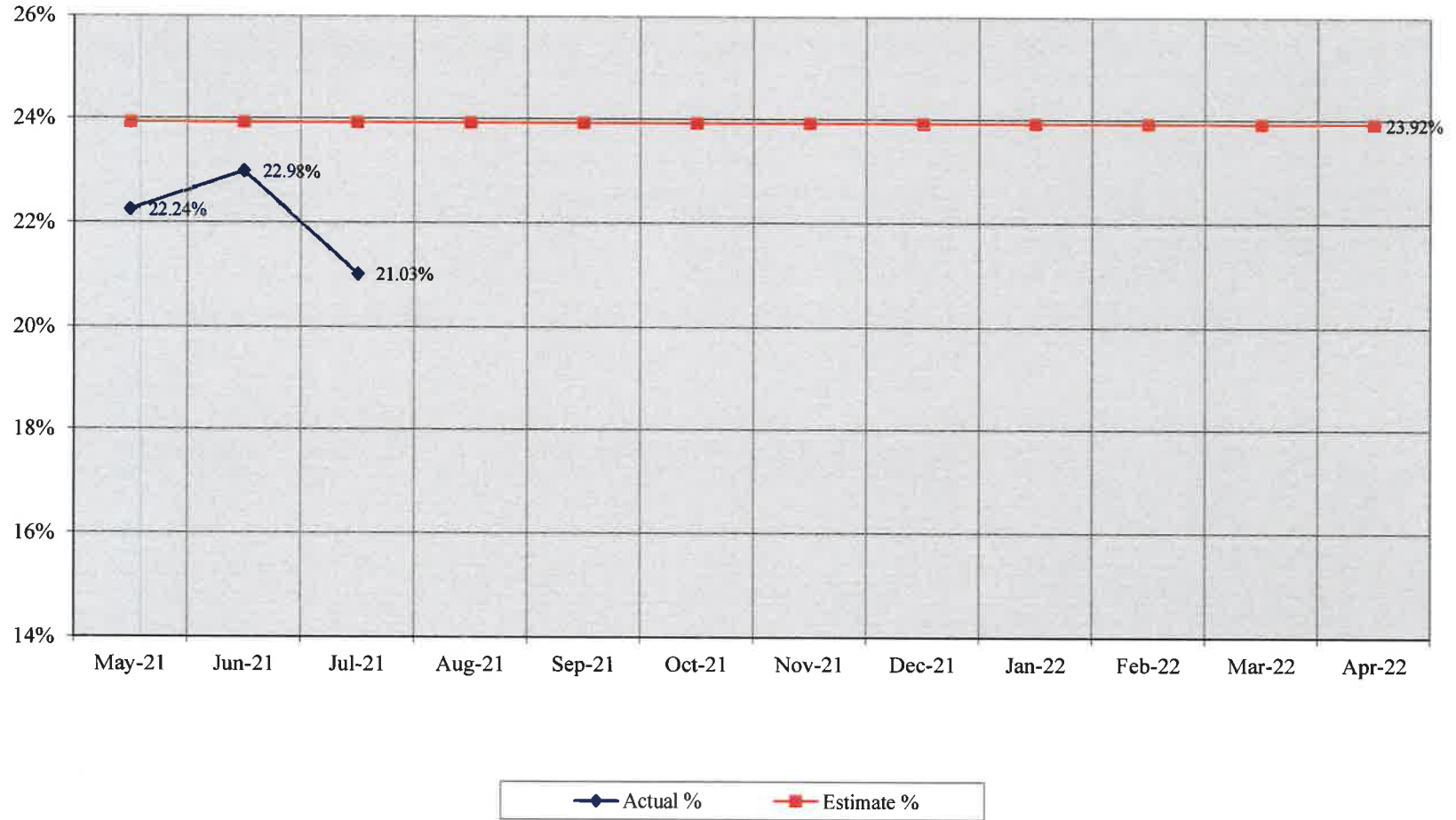
**Kankakee River Metropolitan Agency  
Village of Bradley  
Monthly % Flows 2021 vs. 2022**



# Kankakee River Metropolitan Agency Village of Bradley YTD Flows 2021 vs. 2022



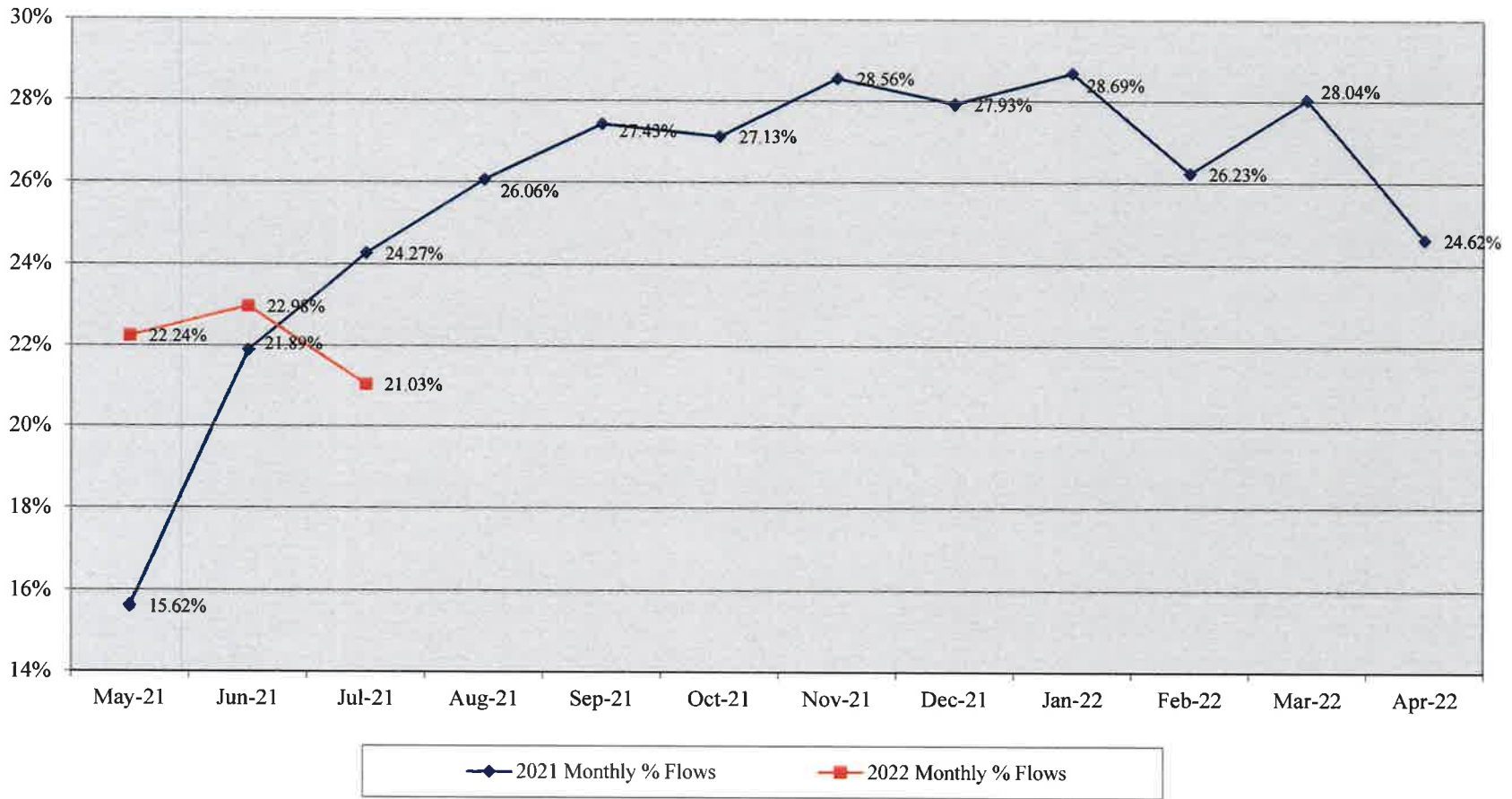
**Kankakee River Metropolitan Agency**  
**Village of Bourbonnais**  
**Actual % vs. Estimate FYE 4-30-22**



# Kankakee River Metropolitan Agency

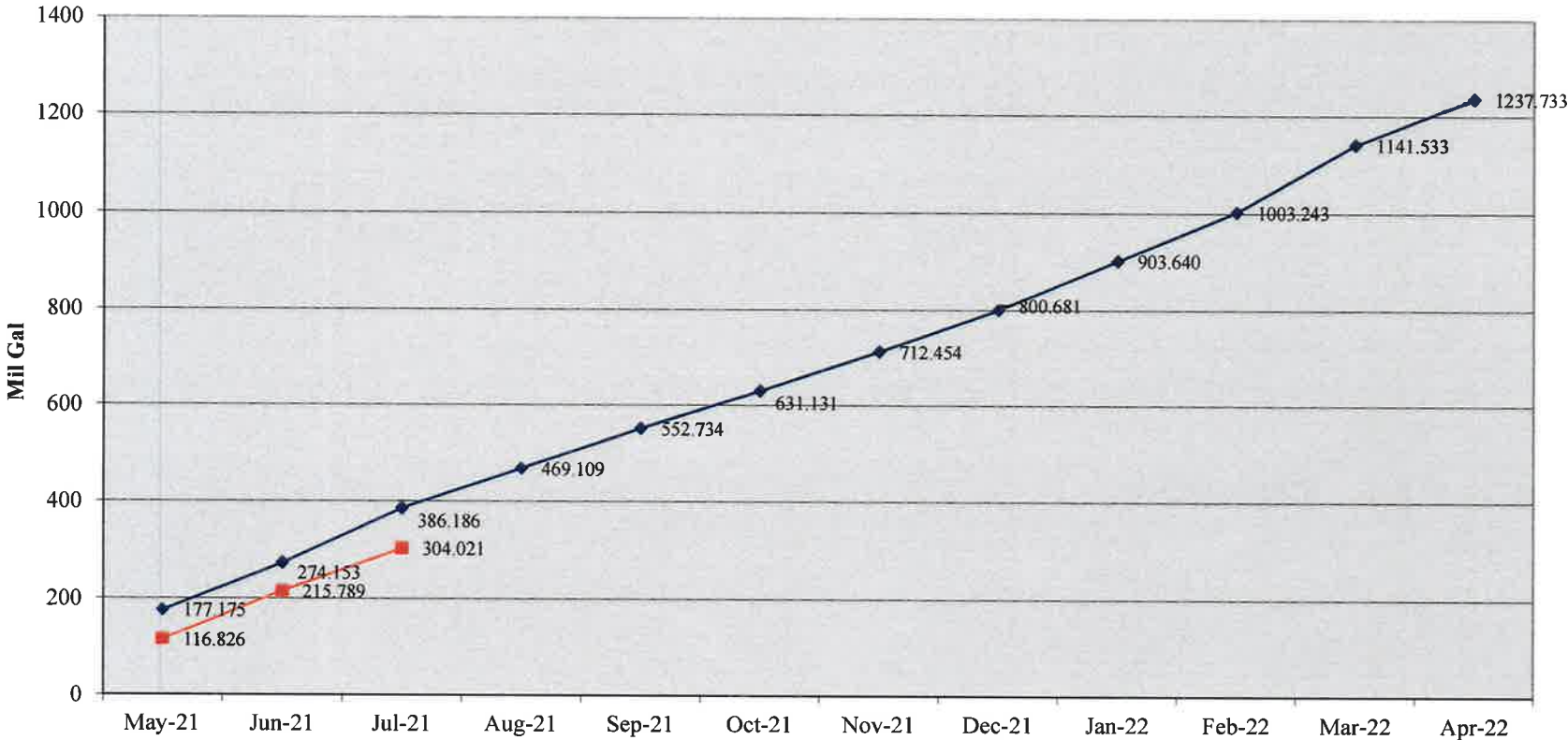
## Village of Bourbonnais

### Monthly % Flows - 2021 vs. 2022



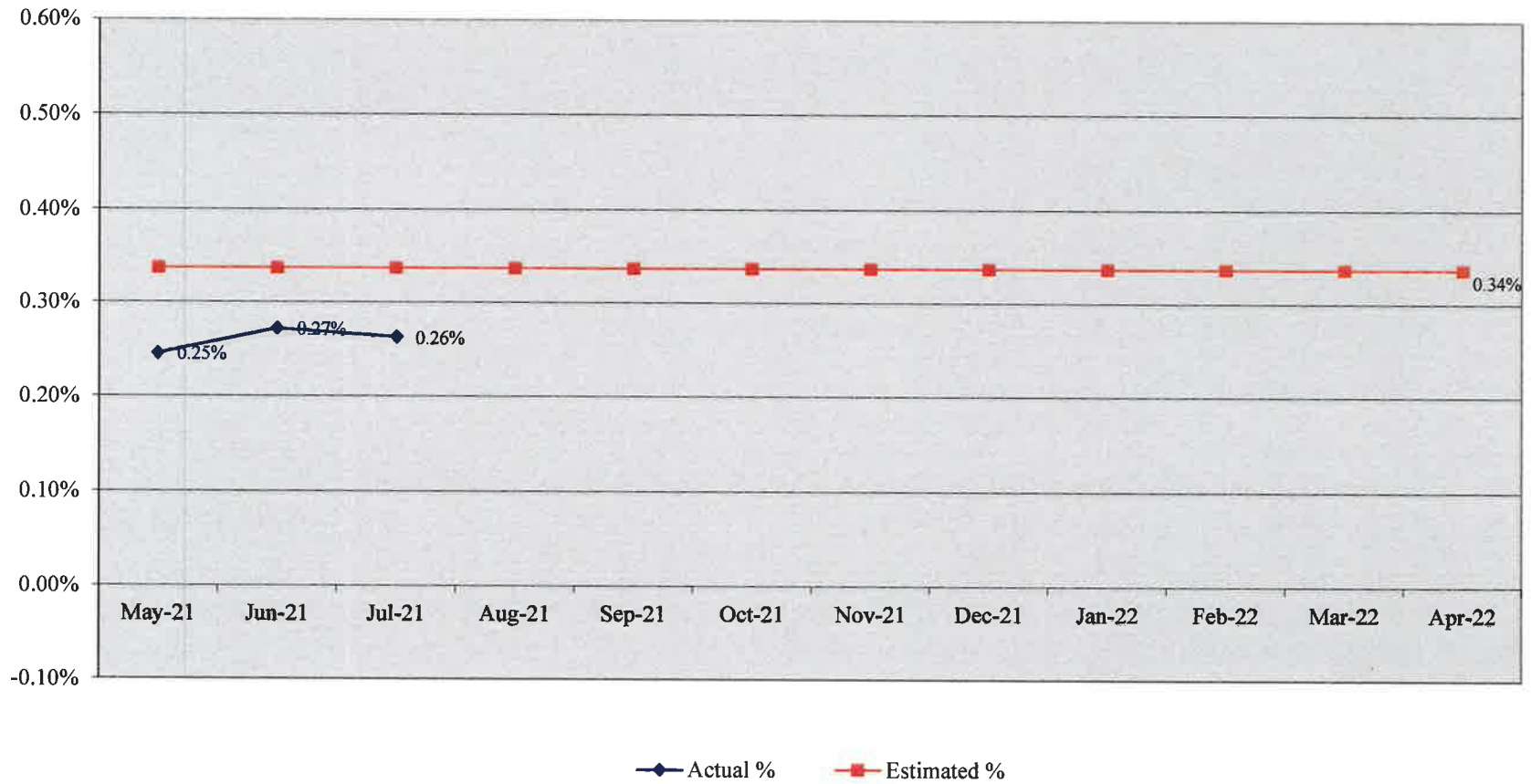


**Kankakee River Metropolitan Agency  
Village of Bourbonnais  
YTD Flows 2021 vs. 2022**

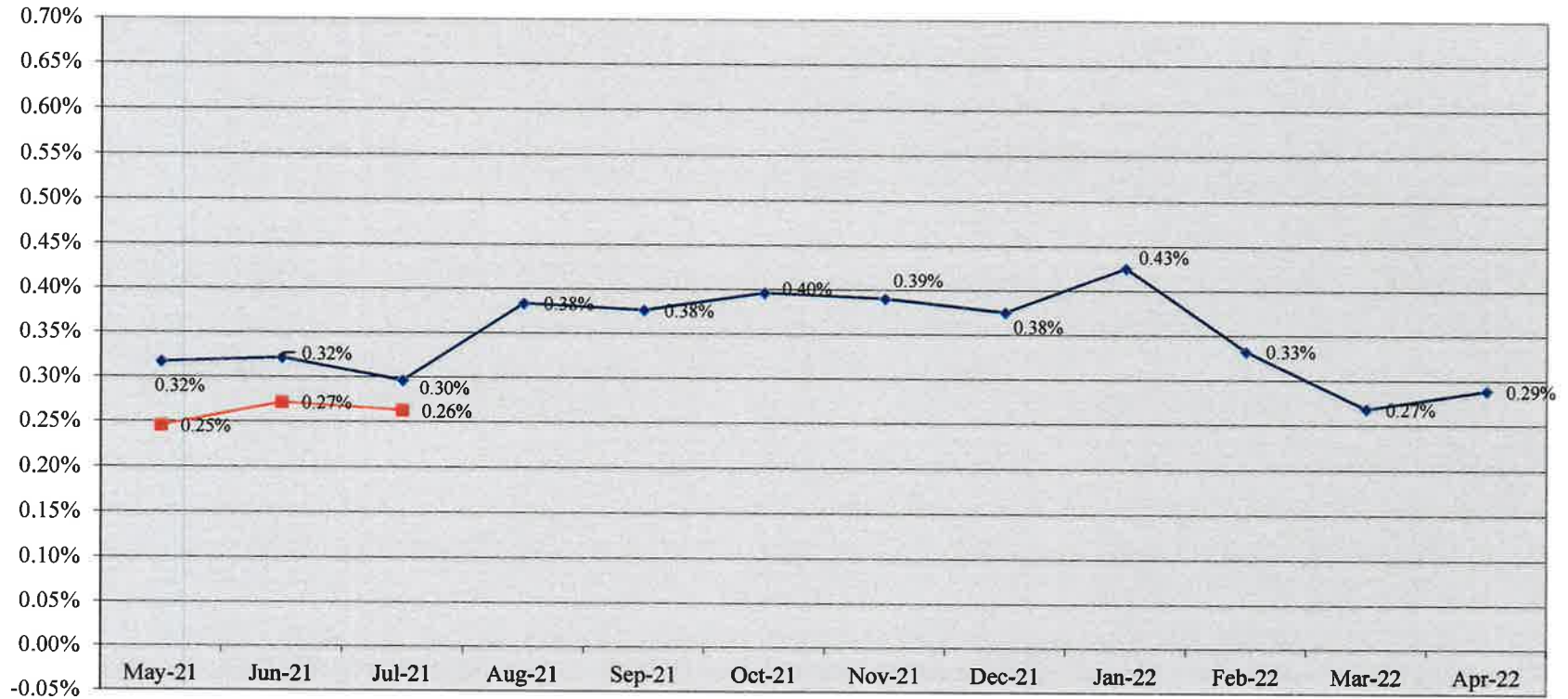


◆ YTD Flows 2021      ■ YTD Flows 2022

**Kankakee River Metropolitan Agency**  
**Village of Aroma Park**  
**Actual % vs. Estimate FYE 4-30-22**

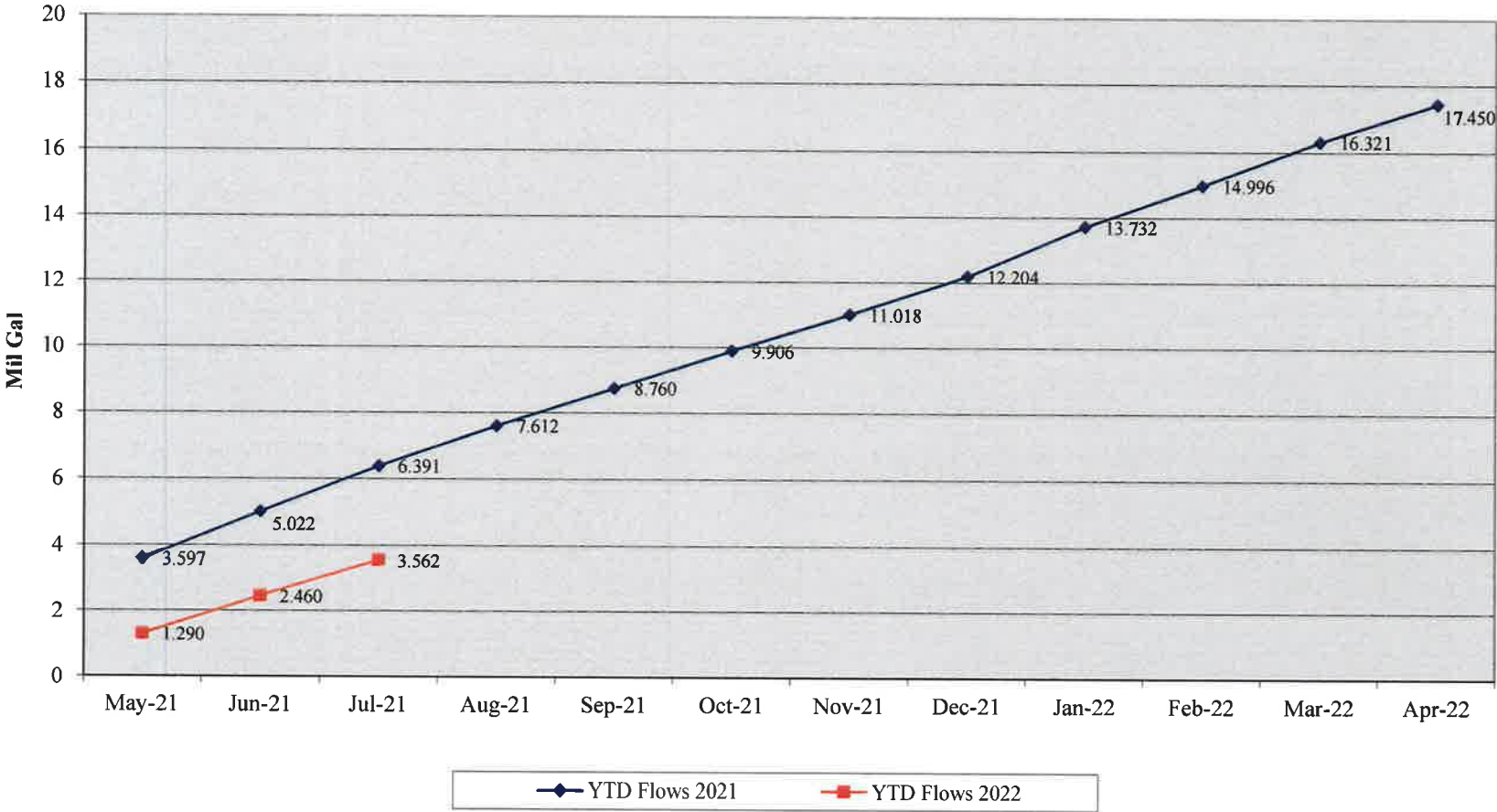


**Kankakee River Metropolitan Agency**  
**Village of Aroma Park**  
**Monthly % Flows - 2021 vs. 2022**



◆ 2021 Monthly % Flows      ■ 2022 Monthly % Flows

**Kankakee River Metropolitan Agency**  
**Village of Aroma Park**  
**YTD Flows 2021 vs. 2022**



**Flows**  
**KRMA Treatment Facility**  
**July, 2021**

| Date      | PRECIPITA<br>INCHES | PLANT<br>MGD | Kankakee<br>MGD | BOURB.<br>MGD | BradleyFlow<br>MGD | AromaPark<br>MGD |
|-----------|---------------------|--------------|-----------------|---------------|--------------------|------------------|
| 7/1/2021  | 0.00                | 22.33        | 15.02           | 4.733         | 2.526              | 0.047            |
| 7/2/2021  | 0.00                | 21.08        | 15.04           | 3.980         | 2.013              | 0.039            |
| 7/3/2021  | 0.00                | 18.89        | 13.76           | 3.491         | 1.594              | 0.039            |
| 7/4/2021  | 0.00                | 17.20        | 12.80           | 3.120         | 1.249              | 0.039            |
| 7/5/2021  | 0.00                | 15.56        | 11.04           | 3.224         | 1.256              | 0.039            |
| 7/6/2021  | 0.00                | 14.71        | 10.62           | 3.030         | 1.022              | 0.041            |
| 7/7/2021  | 0.30                | 14.11        | 9.82            | 3.211         | 1.046              | 0.035            |
| 7/8/2021  | 0.03                | 14.24        | 9.58            | 3.591         | 1.029              | 0.032            |
| 7/9/2021  | 0.00                | 14.62        | 10.78           | 2.794         | 1.008              | 0.033            |
| 7/10/2021 | 0.00                | 13.53        | 9.49            | 2.959         | 1.049              | 0.033            |
| 7/11/2021 | 0.20                | 13.19        | 8.79            | 3.220         | 1.148              | 0.033            |
| 7/12/2021 | 0.13                | 13.10        | 8.91            | 3.116         | 1.041              | 0.034            |
| 7/13/2021 | 0.00                | 13.08        | 9.03            | 2.981         | 1.029              | 0.034            |
| 7/14/2021 | 0.00                | 12.54        | 8.67            | 2.854         | 0.986              | 0.032            |
| 7/15/2021 | 0.10                | 12.40        | 8.68            | 2.700         | 0.987              | 0.032            |
| 7/16/2021 | 0.16                | 13.05        | 9.23            | 2.779         | 1.008              | 0.037            |
| 7/17/2021 | 0.00                | 13.40        | 9.80            | 2.582         | 0.978              | 0.037            |
| 7/18/2021 | 0.00                | 12.36        | 8.76            | 2.561         | 1.006              | 0.037            |
| 7/19/2021 | 0.00                | 11.75        | 8.31            | 2.512         | 0.894              | 0.033            |
| 7/20/2021 | 0.00                | 11.70        | 8.29            | 2.472         | 0.902              | 0.036            |
| 7/21/2021 | 0.08                | 11.51        | 8.06            | 2.510         | 0.909              | 0.032            |
| 7/22/2021 | 0.00                | 11.38        | 7.95            | 2.504         | 0.893              | 0.034            |
| 7/23/2021 | 0.00                | 11.20        | 7.83            | 2.461         | 0.873              | 0.035            |
| 7/24/2021 | 0.70                | 11.88        | 8.00            | 2.664         | 1.185              | 0.035            |
| 7/25/2021 | 0.00                | 12.26        | 8.33            | 2.885         | 1.013              | 0.035            |
| 7/26/2021 | 0.00                | 11.45        | 7.94            | 2.593         | 0.873              | 0.038            |
| 7/27/2021 | 0.00                | 11.37        | 8.19            | 2.258         | 0.878              | 0.034            |
| 7/28/2021 | 0.35                | 11.20        | 7.85            | 2.438         | 0.879              | 0.032            |
| 7/29/2021 | 0.00                | 11.65        | 9.09            | 1.591         | 0.935              | 0.035            |
| 7/30/2021 | 0.00                | 11.96        | 8.86            | 2.184         | 0.883              | 0.035            |
| 7/31/2021 | 0.00                | 10.84        | 7.70            | 2.234         | 0.868              | 0.035            |
| Total     | 2.05                | 419.52       | 296.23          | 88.232        | 33.961             | 1.102            |
| Average   | 0.07                | 13.53        | 9.56            | 2.846         | 1.096              | 0.036            |
| Minimum   | 0.00                | 10.84        | 7.70            | 1.591         | 0.868              | 0.032            |
| Maximum   | 0.70                | 22.33        | 15.04           | 4.733         | 2.526              | 0.047            |
| # of data | 31                  | 31           | 31              | 31            | 31                 | 31               |

| SCOPE OF SERVICES  | HOURS |
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| Attend one kickoff meeting with KRMA to review project scope, available information, project goals, funding options, schedule, Board and management goals, unit process review, list of potential alternatives, permitting, stakeholder involvement, and communication plan.   |       |
| Prepare a request for information for data and documentation for planning services and submit to KRMA. Request guidance from the IEPA on potential permit limits for the wastewater treatment plant (WWTP) discharges. Review regulatory parameters related to KRMA's existing WWTP discharges and the potential for more stringent limits. Review existing documentation, site conditions, site documentation related to zoning, and permit requirements.   |       |
| Perform one day of chemical phosphorus removal (CPR) jar testing at the WWTP on two separate events. Testing will include jar testing up to two phosphorus removal chemicals.  |       |
| Prepare a summary of the WWTP facilities, existing WWTP influent flow and loading data analyses, and WWTP effluent data and performance evaluation. Develop a Capital Improvement Plan (CIP) for WWTP maintenance and replacement needs. The CIP will identify potential future projects for the following categories for use by KRMA: 0 to 5 years, 6 to 10 years, and 11 to 20 years, with remaining needs included in a category greater than 20 years.   |       |
| Prepare a draft Phosphorus Discharge Optimization Plan report summarizing potential phosphorus source reduction measures and operational changes to promote biological phosphorus removal.   |       |
| Prepare summary of data provided by KRMA for KRMA's anticipated residential, commercial, and industrial growth to be served by the WWTP. Develop WWTP influent flow, loading, and biosolids projections for the next 20 years.   |       |
| Meet with KRMA staff for Working Session No. 1 to discuss progress of work.  |       |
| Summarize progress in a presentation to KRMA Board.  |       |
| Provide preliminary screening of up to five improvement alternatives for each unit process. Alternatives will be evaluated based on the ability to implement within the schedule, the impact of solids production, processing, and handling, regulatory and legal feasibility of the alternatives, and the adaptability with potential future treatment standards.   |       |
| Develop a No Feasible Alternatives Analysis, including the following elements: 1) Review the USEPA document Combined Sewer Overflows—Guidance for Financial Capability Assessment and Schedule Development and prepare a summary list of information; 2) Collect from KRMA and compile records of publically available local economic data, including median household income, unemployment rates, bond ratings, service area property values, and property taxes; cost-effective means of reducing collection system inflow and infiltration; and the capital cost and O&M cost projections related to reducing collection system inflow and infiltration; and 3) Provide a summary in accordance with the requirements of Special Condition 12 in the IEPA permit, effective March 1, 2020, including a Financial Capability Analysis consistent with IEPA guidelines to outline feasible alternatives to prevent and eliminate discharges from the equalization basin (Outfall 003) and review the financial feasibility of each alternative an evaluation of the outlined alternatives, a project implementation schedule that considers the fiscal impact of timing with project completion dates, and an opinion of the anticipated results of the project completion. |       |
| Meet with KRMA staff for Working Session No. 2 to discuss progress of work.  |       |
| Perform cost-benefit analysis of up to three alternatives for each unit process, including development of opinions of capital, O&M, 20-year total present worth costs, and the potential for future major industrial load changes. Include nonmonetary issues such as reliability, flexibility, constructability, ease of operation, environmental soundness, and ability to adapt to potential future regulatory standards.   |       |
| Meet with KRMA staff for Working Session No. 3 to discuss progress of work.  |       |
| Summarize progress in a presentation to KRMA Board.  |       |
| Prepare a plan for liquid treatment and biosolids management at the WWTP including preliminary site layout, preliminary design criteria, and staging of construction. Prepare an opinion of probable construction cost; operations, maintenance and repair costs; and preliminary schedule of implementation. Develop financial information, preliminary cost allocations, and preliminary user charges for the selected alternatives.   |       |

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| Perform an antidegradation analysis for the WWTP discharge. This will include: 1) a review of alternative receiving streams, treatment systems that do not discharge to surface waters, the potential for effluent reuse, and the cost-benefit and user affordability of higher levels of treatment; 2) prepare NPDES permit application for review by KRMA; 3) participate in one meeting with IEPA, environmental advocacy groups, and KRMA to discuss permit application; and 4) submit NPDES permit application to the IEPA, respond to IEPA comments, and participate in any public hearings related to the NPDES permit. |          |
| Summarize environmental impacts of the selected alternatives. Request environmental sign-offs from the appropriate agencies.   |          |
| Prepare up to three copies of a draft Project Plan that addresses all of the above scope items. Submit to KRMA for review and input. Meet with KRMA for Working Session No. 4.   |          |
| Present the draft Project Plan to KRMA's Board.  |          |
| Provide up to three paper copies and one electronic copy of the final Project Plan to KRMA, and submit three copies of the final Project Plan to IEPA for approval. Assist KRMA in preparing for and conducting a public hearing after receipt of the IEPA's Preliminary Environmental Impact Determination. Submit the public hearing documentation to the IEPA for final approval.   |          |
| <b>TOTAL HOURS</b>   | <b>0</b> |

| STAFF NAME AND PROJECT ROLE  | HOURS    | BILLING RATE |
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| <b>TOTAL HOURS (must match the total hours listed above for scope)</b> | <b>0</b> |              |

**TOTAL COST**  
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