

Director of Compliance and Innovation Report

July 19, 2023

Plant Loading, CSO Report, and Director's Notes

Plant Influent Report

| | |
|-------------------------------------------------------|----------------------|
| Biochemical Oxygen Demand, 5-Day (Avg. 24379 lbs/day) | 38 percent of design |
| Total Suspended Solids (Avg. 55260 lbs/day) | 51 percent of design |
| Average Daily Flow (24.36 million gallons/day) | 59 percent of design |
| Maximum Daily Flow (35.77 million gallons/day) | 29 percent of design |

Plant Effluent Report

| <u>Parameter</u> | <u>Report Frequency</u> | <u>Permit Limits</u> | <u>Reported Values</u> | <u>Violations</u> |
|--------------------------------|------------------------------|----------------------|------------------------|-------------------|
| CBOD ₅ , mg/L | Mo./Wk. Avg | 20/40 | 2/2 | 0 |
| TSS, mg/L | Mo./Wk. Avg | 25/45 | 4/5 | 0 |
| NH ₃ -N, mg/L | Mo. Avg/Weekly Avg/Daily Max | 1.1/2.8/3.0 | 0.47/0.53/0.60 | 0 |
| DO, mg/L | Wk. Avg/Daily Min | 6.25/5.0 | 6.96/6.89 | 0 |
| pH, S.U. | Daily Min/Max | 6.0/9.0 | 7.80/8.06 | 0 |
| Total Nickel, mg/L | Mo. Avg | 0.0381 | 0.020 | 0 |
| CL ₂ Residual, mg/L | Daily Max | 0.05 | <0.011 | 0 |
| Fecal Coliform CFU/100mL | Daily Max | 400 | 233 | 0 |

CSO Report

| Location | Events | Est. Total Duration of Discharges (hrs.) | Discharge (million gallons) |
|-------------------------------|--------|------------------------------------------|-----------------------------|
| Oakland Avenue (Outfall 003) | 1 | 4.1 | 0.9 |
| Lincoln Park (Outfall 004) | 0 | 0 | 0 |
| McKinley Avenue (Outfall 007) | 1 | 5.7 | 4.11 |
| Seventh Ward (Outfall 008) | 0 | 0 | 0 |

Director's Notes:

Disinfection Season:

The District staff continues to be successful in the operation of its disinfection system(s). Although there have been some issues with nitrite fluctuation and drought conditions to heavy rain flow the staff continue to meet all permit requirements to date.

Executive Order 22-002 Lifted:

Executive Order 22-002 was issued to ADM on October 11, 2022, for multiple violations stemming from FOG discharges from the West Complex to the SDD Lakeshore Drive Pump Station. The Executive Order required ADM to clean and televise the West Complex sewer system and submit a report on the findings.

Due to a satisfactory completion of the corrective actions according to the schedule set forth the Executive Order 22-002 was lifted June 13, 2023. District personnel will complete a follow-up inspection at the West Plant and discuss the corrective actions in more detail.

Staff Training Activities:

Kent Newton and Ashley Bailey attended a PFAS research workshop in Chicago on the 28th and 29th of June hosted by the Water Research Foundation (WRF). The workshop featured presentations and panel discussions on the current science around per- and polyfluoroalkyl substances (PFAS). Experts from The WRF along with other top organizations gave these presentations and facilitated discussions on topics such as occurrence of PFAS in wastewater treatment plants, transport of PFAS in biosolids, composting and agricultural implications, and recent research on destruction of PFAS in biosolids.

Operations, Laboratory, and Pretreatment Activity Reports – June/July 2023

Operations Activities:

Normal operational activities were conducted as prescribed by standard procedures or in response to conditions within the plant. These include operating, monitoring, and adjusting facility equipment, performing process control testing, records keeping, and coordination with the other departments to realize optimal performance of the Plant.

- 1) Digester #2- Operators have removed all the sludge that they can. Maintenance will finish pumping sludge before checking the attic space.
- 2) Operators drained the water tower for painting and monitored painters while they washed the sludge from the tower. Tower is now back in service.
- 3) Disinfection is going well. Operators are adjusting the chemicals as needed to keep the usage down.
- 4) Operations staff continue to actively address PMs as time, workload, and staff levels allow.
- 5) Blower usage has been higher than normal due to low flows and higher concentrations of Ammonia and Nitrates. We continue to make adjustments to find something that helps lower usage.

Laboratory Activities:

Routine:

A total of 1,804 analyses were performed in the laboratory during the month of June 2023.

Monitoring of treatment plant, industrial users, and receiving stream samples for compliance purposes and process monitoring continued. Laboratory personnel continued to perform additional background nutrient monitoring to help fully characterize the nutrient loading on the plant.

Non-Routine:

- 1) The SDD laboratory continued to send samples of raw influent twice a week throughout the month of June 2023 for the "COVID-19 in Wastewater" study funded by the Illinois Department of Public Health. A Zoom call was held on June 2, 2023, with the study participants and the researchers to discuss the results of the study thus far. The monthly calls now qualify for CEU credits for wastewater operators, so several SDD operators watched the June call to obtain no cost CEU credits.
- 2) Keith Richard attended a webinar hosted by the Illinois Water Environment Association on June 7, 2023, titled "Wastewater Microbiology & Process Control". The webinar focused on managing the health of the microorganisms in wastewater treatment plants to ensure proper control of the treatment process. The webinar was very informative.
- 3) Samples were collected of the influent, primary effluent, final effluent, primary sludge, sludge to the Wyckles Lagoon, sludge in the Wyckles Lagoon, and landfill leachate on June 13, 2023, for PFAS testing. Going forward, we will be conducting PFAS sampling/testing on a quarterly basis to characterize the PFAS compounds in our system.
- 4) The SDD laboratory/pretreatment collected and analyzed samples on June 25, 2023, for the ongoing nutrient study for Black and Veatch.

Pretreatment Activities:

Pretreatment - General Activities:

- 1) Pretreatment personnel monitored seven commercial and industrial users (IU) during June 2023. An industrial site inspection was completed at **Primient**, completing all first half inspections for all permitted industrial users.
- 2) Bimonthly sampling for the Nutrient Study is ongoing. SDD personnel are utilizing our portable samplers to collect the extra samples from **Primient** and **ADM**.
- 3) No industrial user permit renewals took place in the month of June.
- 4) No Wastehauler Permit Applications were granted in the month of June.
- 5) Executive Order 22-002 concerning ADM's repeated discharge of FOG to the Lake Shore Pump Station has been lifted following satisfactory completion of corrective actions according to the compliance schedule set forth in the Executive Order. District personnel will complete a follow-up inspection at the West Plant and discuss the corrective actions in more detail.

Pretreatment Ordinance - Verbal Notices:

The SDD issued a total of 2 Verbal Notices to **Primient** and **ADM James R. Randall Research Center** in June 2023:

1. The **ADM James R. Randall Research Center (JRRRC)** was issued a verbal notice for the improper discharge of 2 gallons of fermentation broth to the district on June 29th. They submitted an acceptable 5-day response letter detailing their corrective actions that will prevent recurrence of a spill of this nature. This warning carried no fine.
2. **Primient** was issued a verbal notice with a \$1,000 fine due to discharging 28,772 pounds of TSS on June 29th, exceeding their limit of 28,500 pounds. **Primient** has been asked to submit a 5-day response letter detailing their corrective actions to prevent future TSS excursions.

Pretreatment Ordinance - Warning Notices (WN):

No Warning Notices were issued during June 2023.

Pretreatment Ordinance - Notices of Violation (NOV):

No Notices of Violation were issued during June 2023.

Pretreatment Ordinance - Executive Orders:

No Executive Orders were issued during June 2023

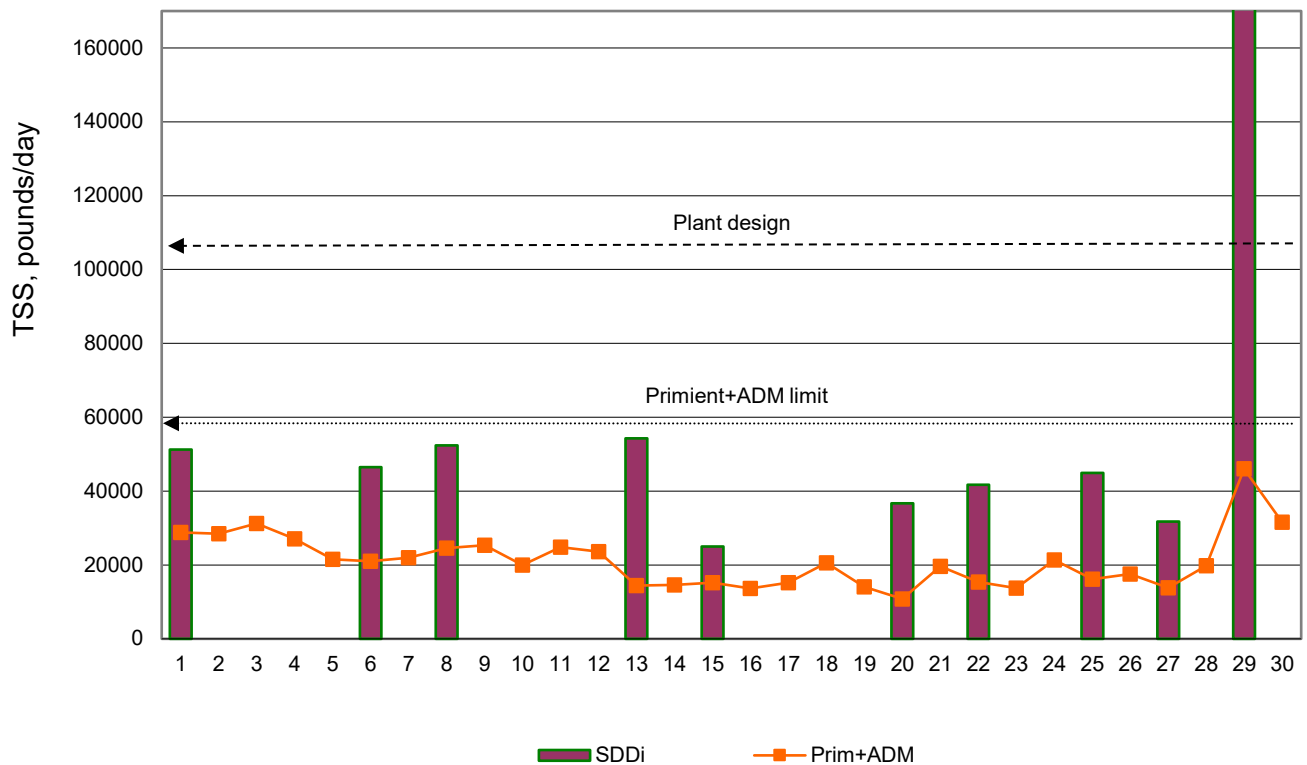
Pretreatment Ordinance - Penalty Assessments:

The following industrial penalties were assessed for June 2023:

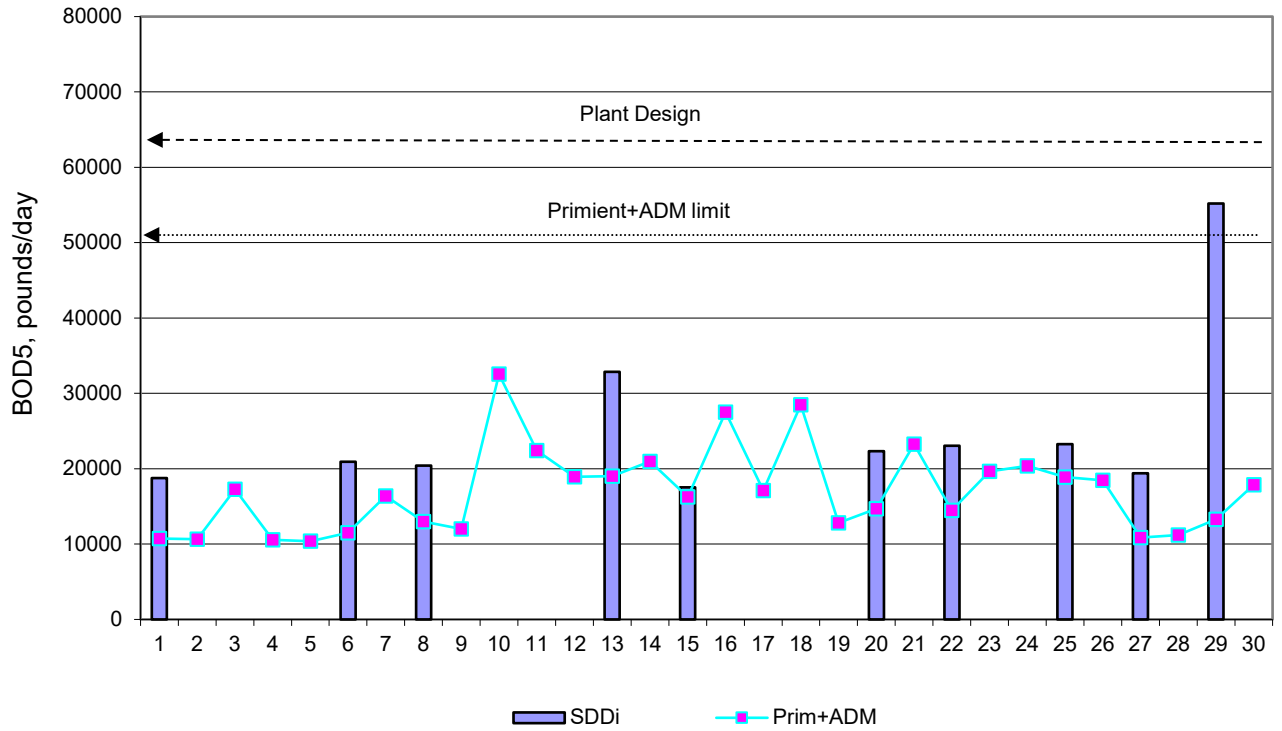
- 1) **Primient** **\$1,000**

Plant Operating Graphs:

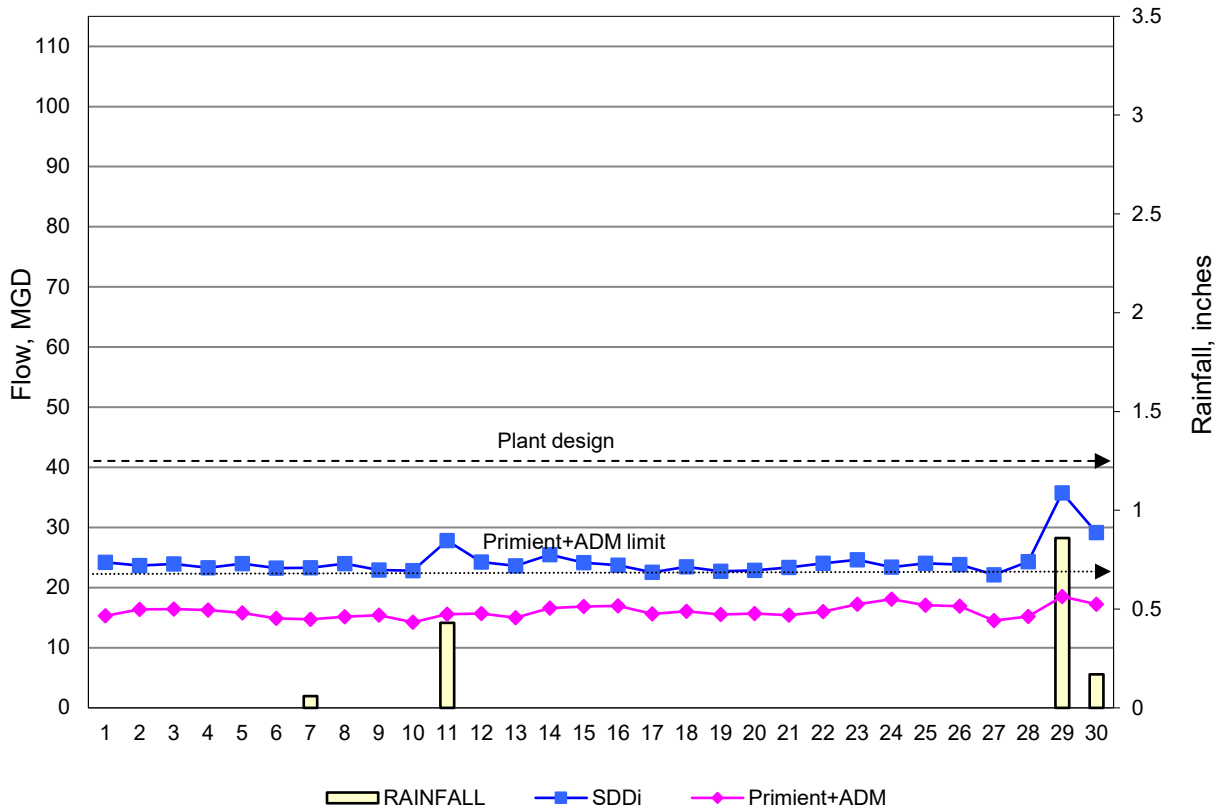
TSS Comparison: SDD Inf Primient + ADM Discharges



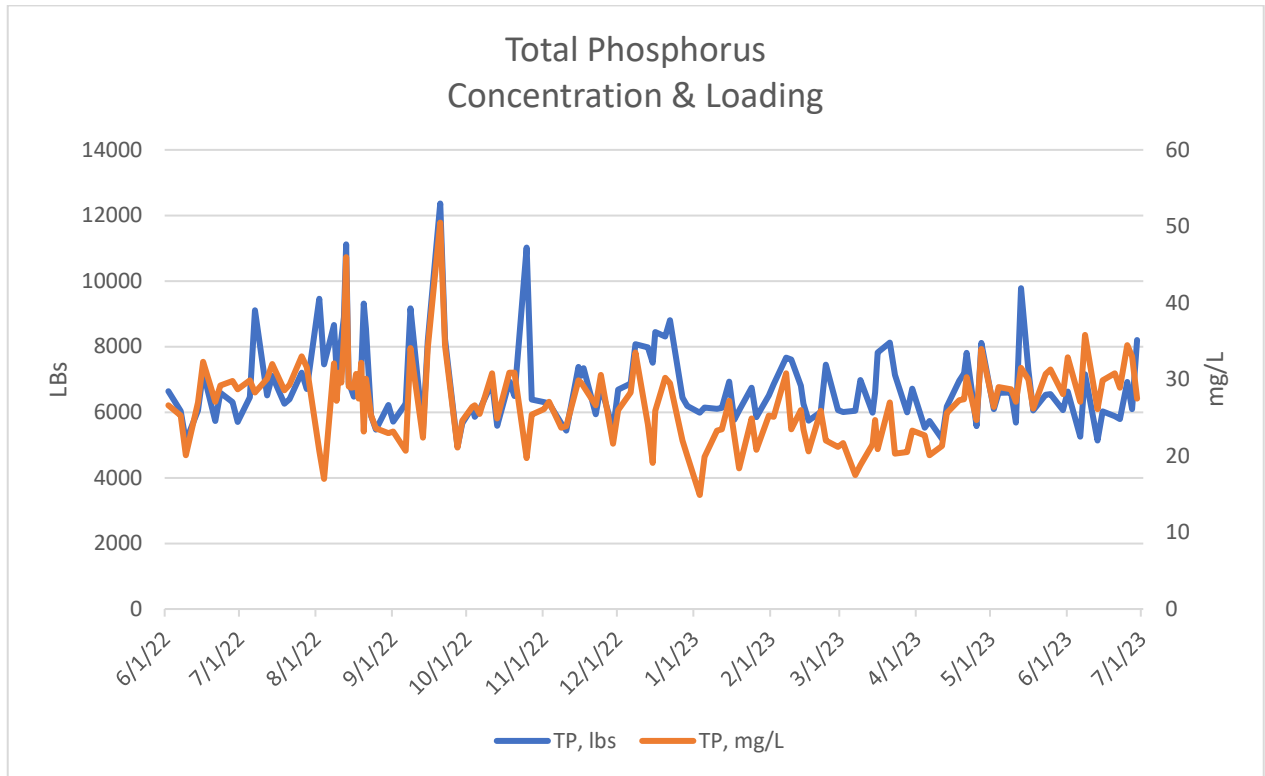
BOD Comparison: BOD Inf vs. Primient + ADM Discharges



Flow Comparison: SDD vs. Primient + ADM Discharges and Rainfall

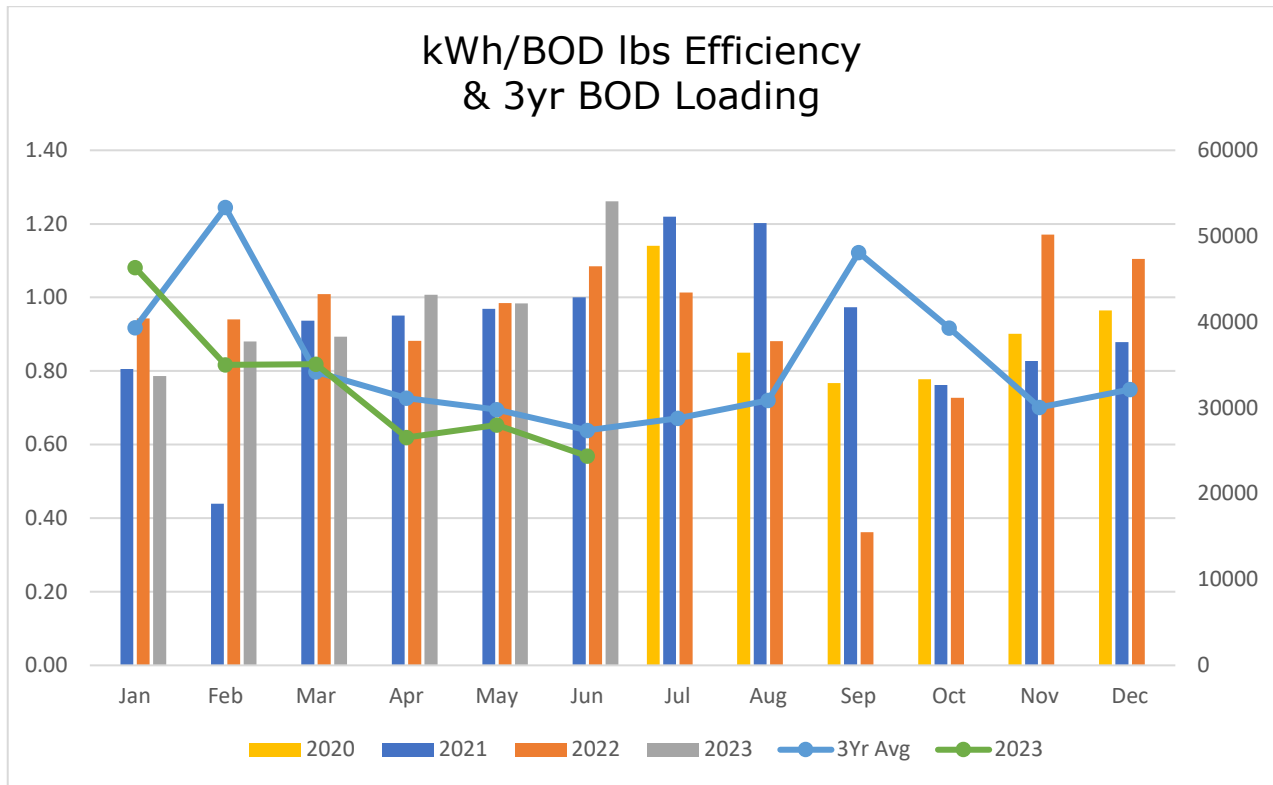
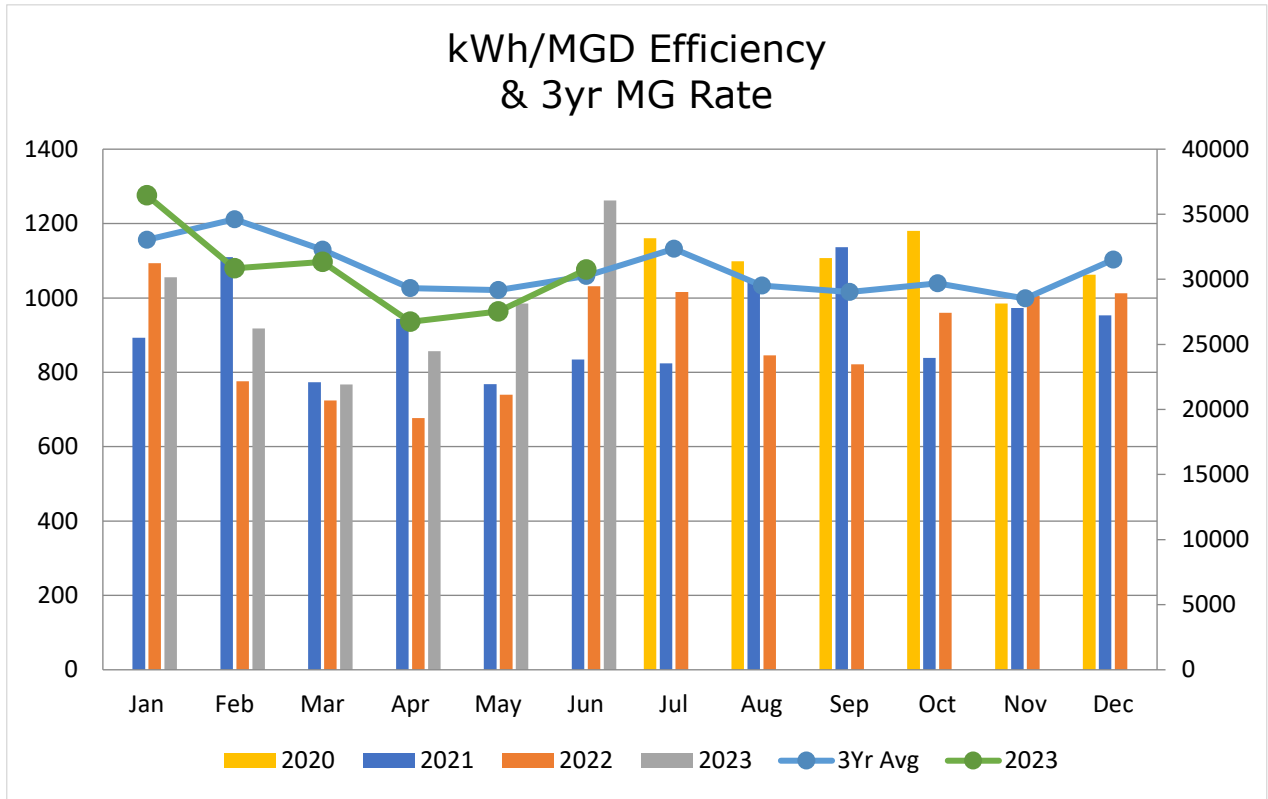


Phosphorus Tracking Graph:



Plant Efficiency Graphs:

June 2023



**Sanitary District of Decatur
Nutrient Program Management Report**

July 19, 2023

During the month of June District personnel attended meetings with members of the Black & Veatch Team to affect progress in nutrient reduction planning and activities.

Currently, activities continue to surround the gathering and sharing of data and information so that all parties can assist in how to move the projects forward as efficiently as possible. In the month of June, the District continued to gather and forward all requested industrial special sampling lab results and plant performance data as requested by the B&V.

B&V concentrated on continuing their efforts associated to the analysis and evaluations of solid stream alternatives by beginning to develop their draft Technical Memorandum incorporating district input from a series of workshops. B&V has also continued to request, receive, and assimilate data provided by SDD for integration into a Power BI dashboard for the Program and updating the draft dashboard for SDD. B&V in conjunction with their subconsultant and the District completed the first quarterly industrial coordination meetings with both ADM and Primient as part of the Industrial Pre-Treatment Program update Task. In addition, B&V has continued the development of their full facility model, continued moving forward with established next steps for the aging infrastructure evaluations, as well as continued to assistance with bid phase services of the Frac Tank Pilot Study including leading the pre-construction meeting.

Below you will find a list of the actual meetings conducted in chronological order. The information covers the subject, date, and agenda items of each meeting. Additional information related to any of these meetings or specific agenda items can be supplied to the Board upon request including meeting minutes and documentation used during the meeting as it is all being stored as part of the permanent record.

Nutrient Reduction Program Meetings Conducted during June 2023

| <u>Subject</u> | <u>Date</u> | <u>Agenda Items</u> |
|---------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Industrial Coordination Quarterly Meeting with ADM | 06/06/2023 | <ol style="list-style-type: none"> 1. Summary of Regulatory Requirements 2. Total influent and Industrial Pollutant Loadings 3. Treatment Evaluations 4. Industrial Pretreatment Program 5. Discussion/Next Steps |
| Industrial Coordination Quarterly Meeting with Primient | 06/07/2023 | <ol style="list-style-type: none"> 1. Summary of Regulatory Requirements 2. Total influent and Industrial Pollutant Loadings 3. Treatment Evaluations 4. Industrial Pretreatment Program 5. Discussion/Next Steps |
| Nutrient Program Management Bi-weekly Meeting | 06/21/2023 | <p><i>Objective:</i> Provided Status Update on Program Tasks</p> <ol style="list-style-type: none"> 1. Frac Tank Pilot 2. Power BI 3. Pretreatment Program Update 4. PDOP/Annual Progress Report 5. Watershed Services 6. Aging Infrastructure 7. WRRF Upgrade Plan |

| Subject | Date | Agenda Items |
|-----------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fermentation Reactor Pilot Pre-Construction Meeting | 06/27/2023 | <ol style="list-style-type: none">1. Introductions, Sign-in, & Communications2. Contract and Preliminary Documents3. Construction Schedules4. Payment Procedures and Related Requirements5. Critical Work Sequences6. Submittals7. Questions and/or Change of Contract Documents8. Project Requirements9. Comments/Questions |

**Sanitary District of Decatur
Watershed Management Report**

July 19, 2023

During the month of June District personnel attended meetings with members of the Black & Veatch and Geosyntec Teams to affect progress in meeting the NARP requirements as listed in the NPDES permit as well as moving forward on the formation of a future watershed workgroup for the Middle Sangamon River.

Recent activities pertained to items necessary to complete the NARP Study. Foremost in these efforts included Geosyntec continuing their modeling efforts and next steps for the NARP Study in addition to the development/coordination of the Bylaws for the Watershed Group formation.

Below you will find a list of the meetings conducted. The information covers the subject, date, and agenda items of each meeting. Black & Veatch provided a written summary. Additional information related to any of these items can be supplied to the Board upon request including meeting minutes and documentation used during the meeting as it is all being stored as part of the permanent record.

Watershed Management Meetings Conducted during June 2023

| <u>Subject</u> | <u>Date</u> | <u>Agenda Items</u> |
|--------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Watershed Services Bi-weekly Meeting | 06/14/2023 | <i>Objective:</i> Provided Status Update on Watershed Services Tasks 1. Watershed Group 2. Instream Water Quality Model 3. Watershed Alternatives 4. Discussion/Next Steps |
| Watershed Services Bi-weekly Meeting | 06/28/2023 | <i>Objective:</i> Provided Status Update on Watershed Services Tasks 1. Watershed Group 2. Instream Water Quality Model 3. Watershed Alternatives 4. Discussion/Next Steps |

July 3, 2023

Sanitary District of Decatur (SDD)
501 Dipper Lane
Decatur, IL 62522

Nutrient Program Manager
BV Project No. 411502

Attention: Don Miller, P.E., Director of Engineering

Subject: SDD Nutrient Program Management
June Monthly Progress Update (June 3, 2023 – June 30, 2023)

Dear Mr. Miller:

This letter summarizes the work associated to the SDD Nutrient Program Management project for services from June 3, 2023, through June 30, 2023.

1. Program Management, Administration, and Coordination
 - Conducted bi-weekly program conference calls to update progress and discuss key issues.
 - Provided Monthly Project Update.
 - Attended June Board meeting to present program summary and update to the Board of Trustees.
 - Provided ongoing management of the project including program management, preparation/monitoring of the program schedule and budget as well as program administrative duties.
 - Continued to coordinate Power BI development including project data integration and dashboard development.
2. Pretreatment Program Update
 - Continued to evaluate special sampling data
 - Continued to work with Jacobs and coordinate their review of pre-treatment programs for municipalities with similar influent as SDD due to industrial users and prepare for the initial industrial coordination quarterly meeting.
 - Conducted the initial industrial coordination quarterly meeting with ADM on June 6th, 2023, and Primient on June 7th, 2023.
3. Phosphorus Discharge and Optimization Plan (PDOP)
 - No Services were completed this period.
4. Watershed Support Services
 - Conducted bi-weekly progress update meeting.
 - Geosyntec completed the initial watershed model and began next steps associated with their Instream model for the NARP Study
 - Continued initial planning efforts and outline for the Watershed Group formation development providing comments from the review of the draft Bylaws developed by SDD.

5. WRRF Upgrade Plan

- Solutions Development Solids Stream
 - i. Began the development of TM 4 – BNR Solids Handling Evaluation which identifies and documents the comprehensive list of technologies evaluated in prior workshops.
 1. The technologies address solids handling upgrades required by the recommended liquid stream technology.
 2. TM will include the high-level costs estimates developed as part of the evaluation process for anticipated solids handling process changes.
 - ii. Prepared and submitted the draft Technical Memorandum for Phosphorus Based Land Applications of Biosolids which included:
 1. Sources of Influent Phosphorus
 2. Current Biosolids Land Application Program
 3. Liquid Stream and Solids Handling Alternatives
 4. Biosolids Land Application Regulations
 5. Agronomic Rates for Nitrogen and Plant Available Phosphorus
- Aged Infrastructure Evaluation
 - i. Completed the overall condition assessment approach including evaluation criteria and associated forms for documentation.
 - ii. Continued summarize and organize results of the onsite assessment to further establish next steps and prioritize areas to include in additional discipline condition assessments.
 - iii. Completed additional data request and onsite visit to gather historical data and detailed equipment data.
 - iv. Began structural evaluations.
- Plant Facility Evaluation
 - i. Continued detailed modeling efforts to evaluate and provide whole plant process model simulations related to the alternatives identified for nutrient removal.

6. Pilot and Demonstration Testing

- Coordinated with District and Contractor on Value Engineering.
- Prepared letter of recommendation for approval to award contract and issue Notice to Proceed.
- Prepared for and conducted the Pre-Construction Meeting with Burdick (Contractor)

| FRAC TANK PILOT PROJECT SCHEDULE | |
|-----------------------------------------------------------------------------------------------|-------------------|
| MILESTONE/ACTIVITES | DATE |
| Receive comments from Vendors | January 27, 2023 |
| Issue draft procurement packages for primary sludge pumps, bubble mixing and Frac Tank to SDD | January 31, 2023 |
| Issue 50% Design Documents to SDD | February 24, 2023 |

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| SDD to Issue Procurement Documents to Vendors for Primary Sludge Pump, Bubble Mixing System and Frac Tank (rental agreement) | Week of February 27, 2023 |
| Receive Quotes from Vendors for Direct Procurement | March 10, 2023 |
| Issue Final Bid Documents for SDD Review / Approval | March 17, 2023 |
| Issue Purchase Orders / Rental Agreements with Vendors | March 23, 2023 |
| Advertise for Bids (16 days) | March 20, 2023 |
| Bid Opening | May 9, 2023 |
| Issue Notice to Proceed | June 21, 2023 |
| Early Receipt of Pre-purchased Equipment Primary Sludge Pumps (20-week delivery) Big Bubble Mixing (20-week delivery) Frac Tank (6 weeks delivery) | Five Months from Issuance of Purchase Order August 2023 |
| Substantial Completion (pending equipment delivery times) | October 2023 |
| Final Completion | October 2023 |

Please feel free to contact me with any questions, comments or if you need additional information.

Sincerely,

Diane Grossenheider, P.E.
Project Manager, Black & Veatch

Enclosure(s):

- SDD Nutrient Program Manager Schedule
- Anticipated Cost Forecast

SANITARY DISTRICT OF DECATUR - NUTRIENT PROGRAM MANAGEMENT
2022 - 2023 COST FORECAST
 BV Project Number 411502

| Incremental | | 2022.02 | 2022.03 | 2022.04 | 2022.05 | 2022.06 | 2022.07 | 2022.08 | 2022.09 | 2022.10 | 2022.11 | 2022.12 | 2023.01 | 2023.02 | 2023.03 | 2023.04 | 2023.05 | 2023.06 | 2023.07 | 2023.08 | 2023.09 | 2023.10 | 2023.11 | 2023.12 | 2022 Total | 2023 Total | |
|----------------------------------------------|----------|---------|---------|----------|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|-----------|
| | | Planned | Actuals | Forecast | Planned | Actuals | Forecast | Planned | Actuals | Forecast | Planned | Actuals | Forecast | Planned | Actuals | Forecast | Planned | Actuals | Forecast | Planned | Actuals | Forecast | Planned | Actuals | Forecast | Planned | Actuals |
| | Planned | 13,683 | 108,359 | 237,519 | 168,336 | 497,476 | 284,217 | 100,648 | 86,219 | 109,725 | 91,822 | 91,820 | 204,625 | 175,033 | 184,839 | 230,195 | 181,219 | 171,412 | 188,595 | 126,472 | 126,461 | 158,090 | 126,472 | 126,465 | 1,789,824 | 1,999,878 | |
| | Actuals | 16,724 | 60,831 | 77,995 | 54,608 | 61,865 | 125,355 | 145,679 | 112,979 | 118,381 | 94,677 | 105,543 | 155,812 | 179,053 | 152,247 | 155,630 | 138,917 | 142,916 | | | | | | | 974,636 | 924,575 | |
| | Forecast | 16,724 | 60,831 | 77,995 | 54,608 | 61,865 | 125,355 | 145,679 | 112,979 | 118,381 | 94,677 | 105,543 | 155,812 | 179,053 | 152,247 | 155,630 | 138,917 | 142,916 | 170,512 | 133,883 | 125,267 | 136,583 | 100,391 | 100,389 | 974,636 | 1,691,600 | |
| Task 1 Program Mgmt | Planned | 4,631 | 18,589 | 25,171 | 20,169 | 20,164 | 25,213 | 20,168 | 20,170 | 25,211 | 20,169 | 20,167 | 20,050 | 17,010 | 17,014 | 21,263 | 17,010 | 17,012 | 21,267 | 17,010 | 17,012 | 21,263 | 17,012 | 17,012 | 219,822 | 199,885 | |
| | Actuals | 7,905 | 2,198 | 2,585 | 3,303 | 2,115 | 3,760 | 4,348 | 5,103 | 3,173 | 9,068 | 4,320 | 9,295 | 8,708 | 21,585 | 22,475 | 18,400 | 15,683 | | | | | | | 47,875 | 96,144 | |
| | Forecast | 7,905 | 2,198 | 2,585 | 3,303 | 2,115 | 3,760 | 4,348 | 5,103 | 3,173 | 9,068 | 4,320 | 9,295 | 8,708 | 21,585 | 22,475 | 18,400 | 15,683 | 21,267 | 17,010 | 17,012 | 21,263 | 17,012 | 17,012 | 47,875 | 206,720 | |
| Task 2 Pretreatment Program Update | Planned | 1,726 | 15,177 | 42,250 | 17,294 | 10,680 | 30,576 | 19,616 | 5,192 | 6,491 | 5,192 | 5,192 | - | - | - | - | - | - | - | - | - | - | - | - | 159,386 | - | |
| | Actuals | | | 705 | 470 | 470 | 235 | - | 353 | 430 | 430 | 1,450 | 4,250 | 4,715 | 8,238 | 7,625 | 2,330 | 40,696 | | | | | | | 4,543 | 17,203 | |
| | Forecast | | | 705 | 470 | 470 | 235 | - | 353 | 430 | 430 | 1,450 | 4,250 | 4,715 | 8,238 | 7,625 | 2,330 | 40,696 | 31,805 | 6,491 | 5,192 | 5,192 | | | 4,543 | 116,534 | |
| Task 3 Phosphorus Discharge and Optimization | Planned | 536 | 3,756 | 4,694 | 7,073 | 26,718 | 5,977 | 4,881 | 4,879 | 6,099 | 4,877 | 4,879 | 6,748 | 5,656 | 5,213 | 5,665 | 4,536 | 4,531 | 5,665 | 4,533 | 4,531 | 5,668 | 4,533 | 4,531 | 74,369 | 55,062 | |
| | Actuals | | 1,290 | 3,755 | 3,508 | 1,613 | 235 | 4,645 | 8,731 | 8,100 | 10,948 | 3,898 | 4,760 | 6,665 | 1,045 | - | - | - | - | - | - | - | - | - | - | 46,721 | 12,470 |
| | Forecast | | 1,290 | 3,755 | 3,508 | 1,613 | 235 | 4,645 | 8,731 | 8,100 | 10,948 | 3,898 | 4,760 | 6,665 | 1,045 | - | - | - | - | - | - | - | - | - | - | 46,721 | 12,470 |
| Task 4 Watershed Support Services | Planned | 6,790 | 61,631 | 12,107 | 4,040 | 193,891 | 22,817 | 18,255 | 18,250 | 22,817 | 18,253 | 18,251 | 5,383 | 4,569 | 4,567 | 3,760 | 29,712 | 29,705 | 30,850 | 29,712 | 29,705 | 30,850 | 29,709 | 29,707 | 397,102 | 258,229 | |
| | Actuals | 940 | 14,809 | 17,206 | 28,841 | 21,065 | 45,297 | 54,170 | 36,587 | 44,435 | 12,003 | 34,319 | 16,395 | 4,931 | 31,212 | 1,260 | 42,718 | 29,505 | | | | | | | 309,674 | 126,021 | |
| | Forecast | 940 | 14,809 | 17,206 | 28,841 | 21,065 | 45,297 | 54,170 | 36,587 | 44,435 | 12,003 | 34,319 | 16,395 | 4,931 | 31,212 | 1,260 | 42,718 | 29,505 | 30,850 | 29,712 | 29,705 | 30,850 | 29,709 | 29,707 | 309,674 | 306,554 | |
| Task 5 Comprehensive WRRF Upgrade Plan | Planned | - | 9,206 | 122,984 | 89,447 | 32,035 | 35,466 | - | - | - | - | - | 62,344 | 52,898 | 52,900 | 66,121 | 52,900 | 52,898 | 66,124 | 52,898 | 52,898 | 66,124 | 52,898 | 52,898 | 289,138 | 621,557 | |
| | Actuals | 7,879 | 42,534 | 53,745 | 16,778 | 36,223 | 74,878 | 81,756 | 59,461 | 42,065 | 47,294 | 28,643 | 60,035 | 67,250 | 65,345 | 116,523 | 71,274 | 49,148 | | | | | | | 491,254 | 429,573 | |
| | Forecast | 7,879 | 42,534 | 53,745 | 16,778 | 36,223 | 74,878 | 81,756 | 59,461 | 42,065 | 47,294 | 28,643 | 60,035 | 67,250 | 65,345 | 116,523 | 71,274 | 49,148 | 52,000 | 52,000 | 44,688 | 44,688 | 25,000 | 25,000 | 491,254 | 672,949 | |
| Task 6 Feasibility Study | Planned | - | - | - | - | - | - | - | - | - | - | - | - | - | 3,670 | 3,670 | 4,590 | 3,670 | 3,670 | 4,590 | 3,670 | 3,670 | 4,590 | 3,670 | 3,670 | - | 43,130 |
| | Actuals | | | | | | | | | | | | | | 775 | 1,128 | - | - | - | - | - | - | - | - | - | 1,903 | - |
| | Forecast | | | | | | | | | | | | | | 775 | 1,128 | - | - | - | 4,590 | 3,670 | 3,670 | 4,590 | 3,670 | 3,670 | - | 25,763 |
| Task 7 Pilot and Demonstration Testing | Planned | - | - | - | - | 213,988 | 164,168 | 37,728 | 37,728 | 49,107 | 43,331 | 43,331 | 105,773 | 91,229 | 101,474 | 54,736 | 43,787 | 43,787 | 54,736 | 43,789 | 43,785 | 54,736 | 43,789 | 43,787 | 589,381 | 725,408 | |
| | Actuals | | | | | 1,710 | 380 | 950 | 760 | 2,745 | 20,178 | 14,935 | 32,914 | 61,078 | 86,010 | 23,695 | 7,748 | 4,195 | 7,885 | | | | | | | 74,572 | 190,610 |
| | Forecast | | | | | 1,710 | 380 | 950 | 760 | 2,745 | 20,178 | 14,935 | 32,914 | 61,078 | 86,010 | 23,695 | 7,748 | 4,195 | 7,885 | 30,000 | 25,000 | 25,000 | 30,000 | 25,000 | 25,000 | 74,572 | 350,610 |
| Cumulative | | 2022.02 | 2022.03 | 2022.04 | 2022.05 | 2022.06 | 2022.07 | 2022.08 | 2022.09 | 2022.10 | 2022.11 | 2022.12 | 2023.01 | 2023.02 | 2023.03 | 2023.04 | 2023.05 | 2023.06 | 2023.07 | 2023.08 | 2023.09 | 2023.10 | 2023.11 | 2023.12 | 2022 Total | 2023 Total | |
| | Planned | - | 13,683 | 122,042 | 359,561 | 527,897 | 1,025,373 | 1,309,590 | 1,410,238 | 1,496,457 | 1,606,182 | 1,698,004 | 1,789,824 | 1,994,449 | 2,169,482 | 2,354,321 | 2,584,516 | 2,765,735 | 2,937,147 | 3,125,742 | 3,252,214 | 3,378,675 | 3,536,765 | 3,663,237 | 3,789,702 | 1,789,824 | 3,789,702 |
| | Actuals | - | 16,724 | 77,554 | 155,549 | 210,157 | 272,023 | 397,378 | 543,057 | 656,036 | 774,417 | 869,094 | 974,636 | 1,130,448 | 1,309,502 | 1,461,748 | 1,617,378 | 1,756,295 | 1,899,211 | | | | | | | 974,636 | 924,575 |
| | Forecast | - | 16,724 | 77,554 | 155,549 | 210,157 | 272,023 | 397,378 | 543,057 | 656,036 | 774,417 | 869,094 | 974,636 | 1,130,448 | 1,309,502 | 1,461,748 | 1,617,378 | 1,756,295 | 1,899,211 | 2,069,723 | 2,203,606 | 2,328,873 | 2,465,456 | 2,565,847 | 2,666,236 | 974,636 | 2,666,236 |

