

Director of Compliance and Innovation Report

October 15, 2025

Plant Loading, CSO Report, and Director's Notes

Plant Influent Report:

Biochemical Oxygen Demand, 5-Day (Avg. 24329 lbs/day)	38 percent of design
Total Suspended Solids (Avg. 28735 lbs/day)	26 percent of design
Average Daily Flow (22.97 million gallons/day)	56 percent of design
Maximum Daily Flow (26.86 million gallons/day)	21 percent of design

Plant Influent Total Monthly Flow (million gallons) for August	888.86
Estimated Unbilled Total Monthly Flow (million gallons)	192.61
Total Monthly Precipitation (inches)	1.71

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/Daily Max	1.5/3.0	0.40/0.52	0
DO, mg/L	Mo. Avg/Wk. Avg/Daily Min	6.0/4.5/4.0	7.24/6.85/6.84	0
pH, S.U.	Daily Min/Max	6.0/9.0	7.81/8.14	0
Total Nickel, mg/L	Mo. Avg	0.0381	0.019	0
Cl ₂ Residual, mg/L	Daily Max	0.05	<0.011	0
Fecal Coliform CFU/100mL	Daily Max	400	88	0

CSO Report:

Location	Events	Est. Total Duration of Discharges (hrs.)	Discharge (million gallons)
Oakland Avenue (Outfall 003)	1	0.53	0.09
Lincoln Park (Outfall 004)	1	0.5	0.1
McKinley Avenue (Outfall 007)	0	N/A	N/A
Seventh Ward (Outfall 008)	0	N/A	N/A

Director's Notes:

Compliance Reporting:

In accordance with the requirements of our NPDES permit the SDD has submitted all semi-annual and/or annual reports to the appropriate entities. These included the annual NARP Progress Report, the semi-annual Phosphorus Feasibility Progress Report and the annual Stormwater Pollution Prevent Plan (SWPP) Inspection Report.

Land Application Program:

Metro-Ag is scheduled to begin land application on the week of October 13th. District staff continue to work hard mixing sludge in the Wyckles storage lagoons in preparation.

Disinfection Season:

Although the disinfection season is coming to an end for the 2025 season, the District operators continue to work hard operating the disinfection system. Operators have had to continually deal with issues such as drought conditions, nitrite fluctuation and ammonia levels mainly due to heavy loading from industries.

DMRQAs:

The District achieved passing results from the annual USEPA-mandated DMR-QA proficiency testing, successfully running all twenty-nine analytes evaluated. This outcome satisfies the requirement to obtain passing results for all analytes reported to the IEPA and USEPA. The District commends the Laboratory Team for their excellent performance and continued commitment to analytical quality.

Staff Training Activities:

Austin Gruber and Ashley Bailey attended the Illinois Water Environmental Association (IWEA) Pretreatment Coordinator's Workshop on September 25, 2025, at the Starved Rock Lodge in Utica, Illinois. The workshop included presentations on sample collection, site inspections, and an update and open discussion with the USEPA.

Several District staff members traveled to Chicago at the end of September to attend WEFTEC 2025. The event featured keynote presentations and an extensive exhibition showcasing new products and emerging technologies.

Operations, Laboratory, and Pretreatment Activity Reports – September/October 2025Operations Activities Summary:

Routine operational activities were carried out in accordance with established procedures and in response to plant conditions. These activities encompassed equipment operation, monitoring and adjustment, process control testing, recordkeeping, and interdepartmental coordination to ensure optimal plant performance.

- 1) Digester Pumping Alternatives-
Operations and Maintenance personnel have been evaluating alternative methods for transferring material from Primary Digester #2 to the Secondary Digester due to recurring pump blockages.
- 2) Preventive Maintenance (PM)-
Operations staff continue to address preventive maintenance tasks as permitted by current time constraints, workload demands, and staffing levels.
- 3) Standard Operating Procedures (SOPs)-
Efforts to develop and refine SOPs are ongoing, with staff actively engaged in documentation and procedural improvements.
- 4) Blower Usage-
Blower demand remains elevated due to sustained industrial loading. The four Neuros blowers have successfully met the aeration requirements for effective treatment.

- 5) Disinfection Process-
Disinfection operations are progressing well. Operators have demonstrated commendable efficiency in minimizing chemical usage while maintaining treatment standards.
- 6) Land Application Preparation-
Preparations for land application have commenced. The East Lagoon has been thoroughly mixed, and mixing operations are currently underway in the West Lagoon.

Laboratory Activities:

Routine:

A total of 1,860 analyses were performed in the laboratory during the month of September 2025.

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 weekly throughout the month of September 2025 for the "COVID-19 in Wastewater" study funded by the Illinois Department of Public Health. Levels of COVID have increased slightly, but influenza A, influenza B, and RSV all remained at undetectable levels in the recent samples.
- 2) Keith Richard attended the Illinois Water Environment Association (IWEA) Executive Board and Committee Chair Meeting at the Joliet Eastside Wastewater Treatment Plant on September 5, 2025. The group meets quarterly to discuss current and upcoming activities of the IWEA and its committees. Keith continues to serve as the Chair of the IWEA Laboratory Committee.
- 3) The graded results of the annual USEPA mandated DMR-QA proficiency testing were received on September 26, 2025. We obtained passing results for all twenty-nine analytes that were tested. We must obtain passing results for all analytes we report to the IEPA and USEPA. A great job by the Lab Team!
- 4) Keith Richard served as a judge for the lab event at the WEFTEC 2025 Operations Challenge on September 29, 2025. There were teams from the United States, Denmark, and England competing in the challenge.



Pretreatment Activities:

Pretreatment - General Activities:

- 1) Pretreatment personnel monitored 5 commercial and industrial users (IU) during September 2025. There were no industrial site inspections completed. Mueller #4 was scheduled to be sampled, however due to the closing of the facility the flow was so low that a sample could not be taken.
- 2) There were no permits issued in September 2025.

- 3) Local Limits sampling was planned in September but was pushed back to the beginning of October due to rain.
- 4) Sampling for **Tillamook** continued in September. They failed two of their four TSS samples, which led them to a monthly average TSS violation, and they also failed on their FOG sample on 9/19. There were two days late in September that the SDD noticed slugs come in that were attributed to **Tillamook**. This, combined with the TSS issues, caused them to have 5 escalating violations and has reset the count of consecutive months of acceptable compliance. They also had a pH violation and two "Failure to Notify" violations.
- 5) On 9/29/2025, Austin Gruber attended WEFTEC 2025 in Chicago for the exhibitor's expo. During the expo, Austin and Ashley talked to multiple vendors selling products ranging from pretreatment software to chemical dosing pumps.

Pretreatment Ordinance - Verbal Notices:

SDD issued a total of 11 Verbal Notices to **ADM**, **Tillamook**, and **Primient** in September 2025:

- **Primient (1 Violation):**
 - Sulfide Daily Max: 9/10/2025
- **Tillamook (9 Violations):**
 - TSS Daily Max (2): 9/10/2025 and 9/11/2025
 - TSS Monthly Average
 - Slug loads on 9/29/2025 and 9/30/2025
 - FOG-T Daily Max: 9/19/2025
 - pH – 9/11/2025
 - Failure to Notify – Slug: 9/29/2025 and 9/30/2025
- **ADM (1 Violation)**
 - FOG-T: 9/19/2025

Pretreatment Ordinance - Warning Notices (WN):

There were no WN's issued during September 2025.

Pretreatment Ordinance - Notices of Violation (NOV):

There were no NOV's issued during September 2025.

Pretreatment Ordinance - Executive Orders (EO):

There were no EO's issued during September 2025.

Pretreatment Ordinance - Penalty Assessments:

The following industrial penalties were assessed for August 2025.

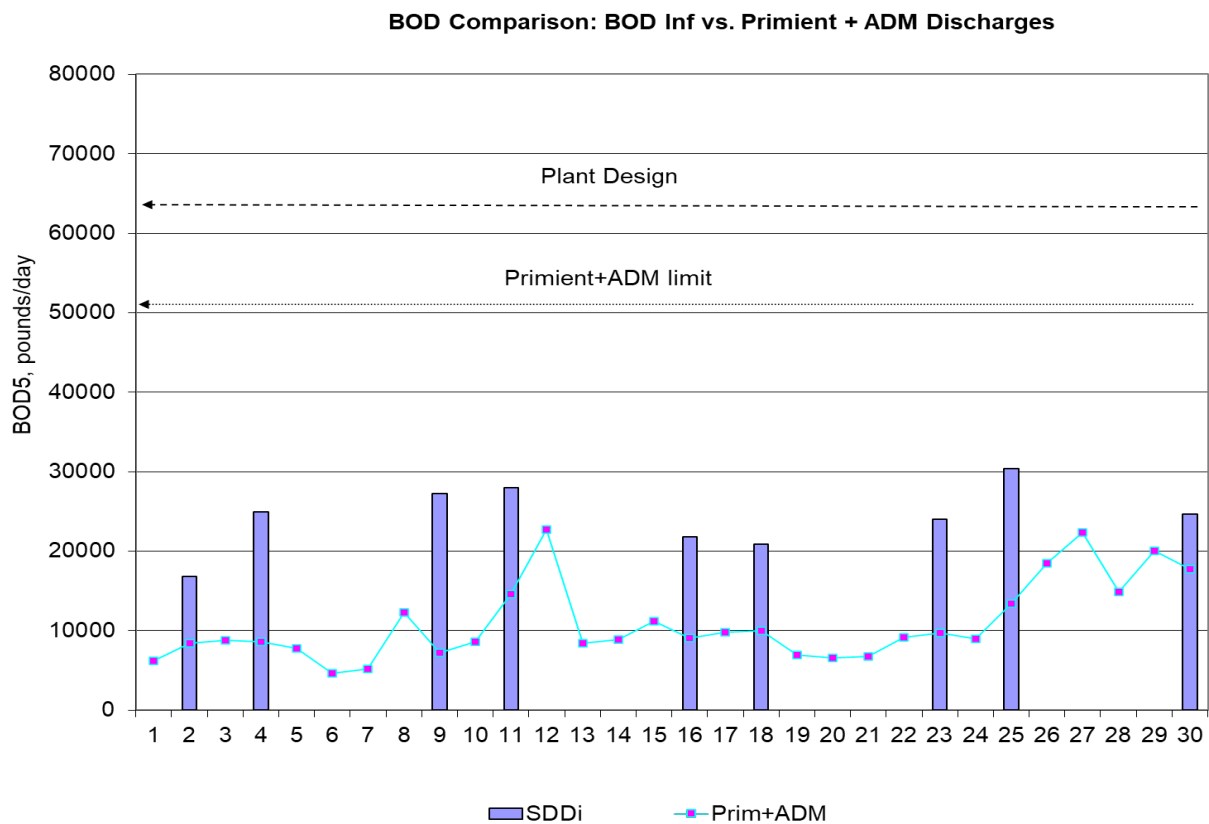
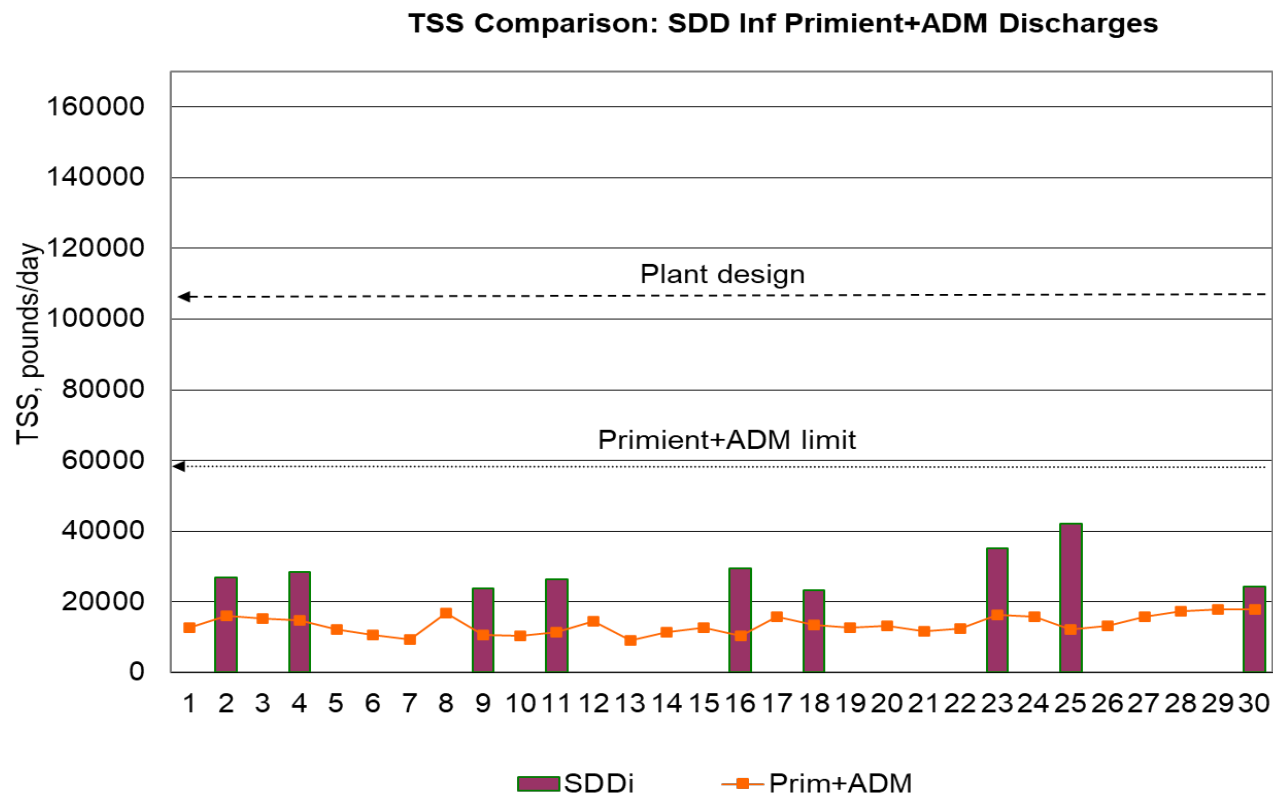
- **Primient** - \$1,000
- **Tillamook** - \$30,000
- **ADM** - \$1,000

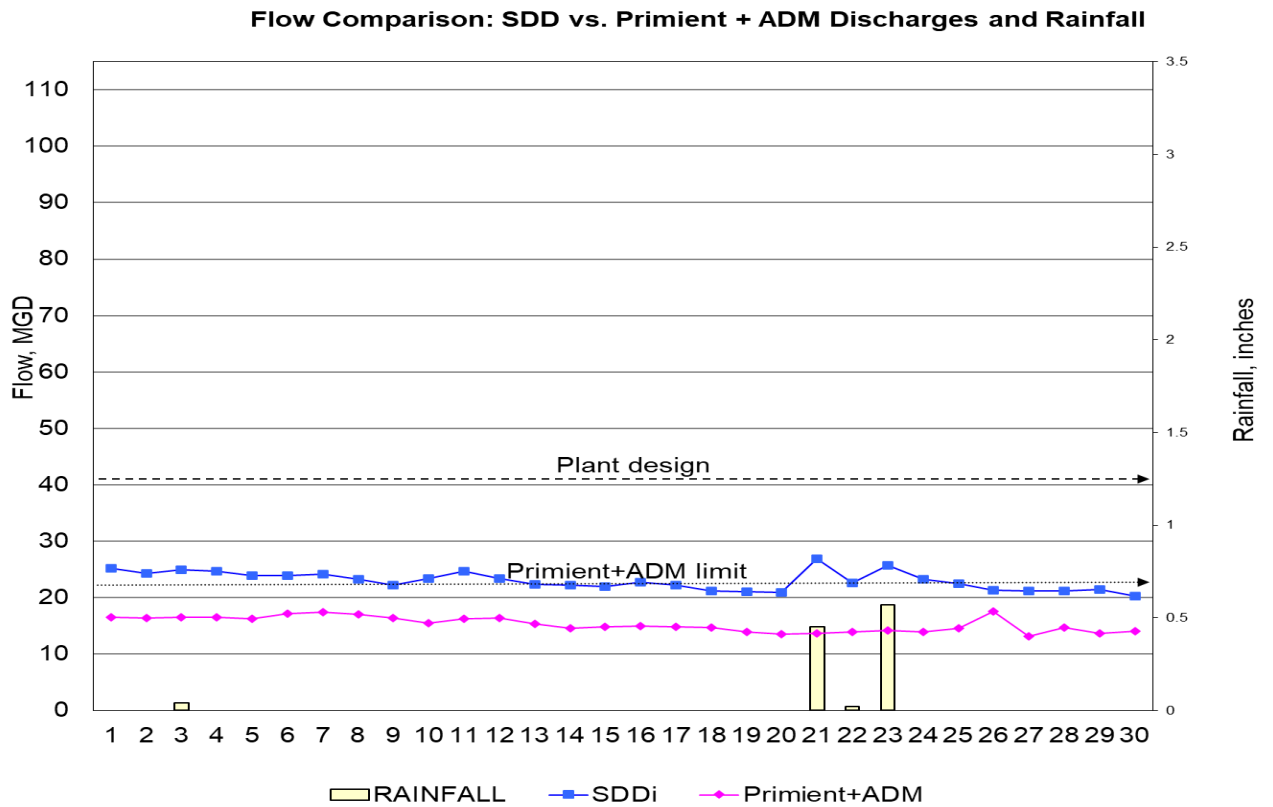
Nutrient Program Report:

NARP/Integrated Planning:

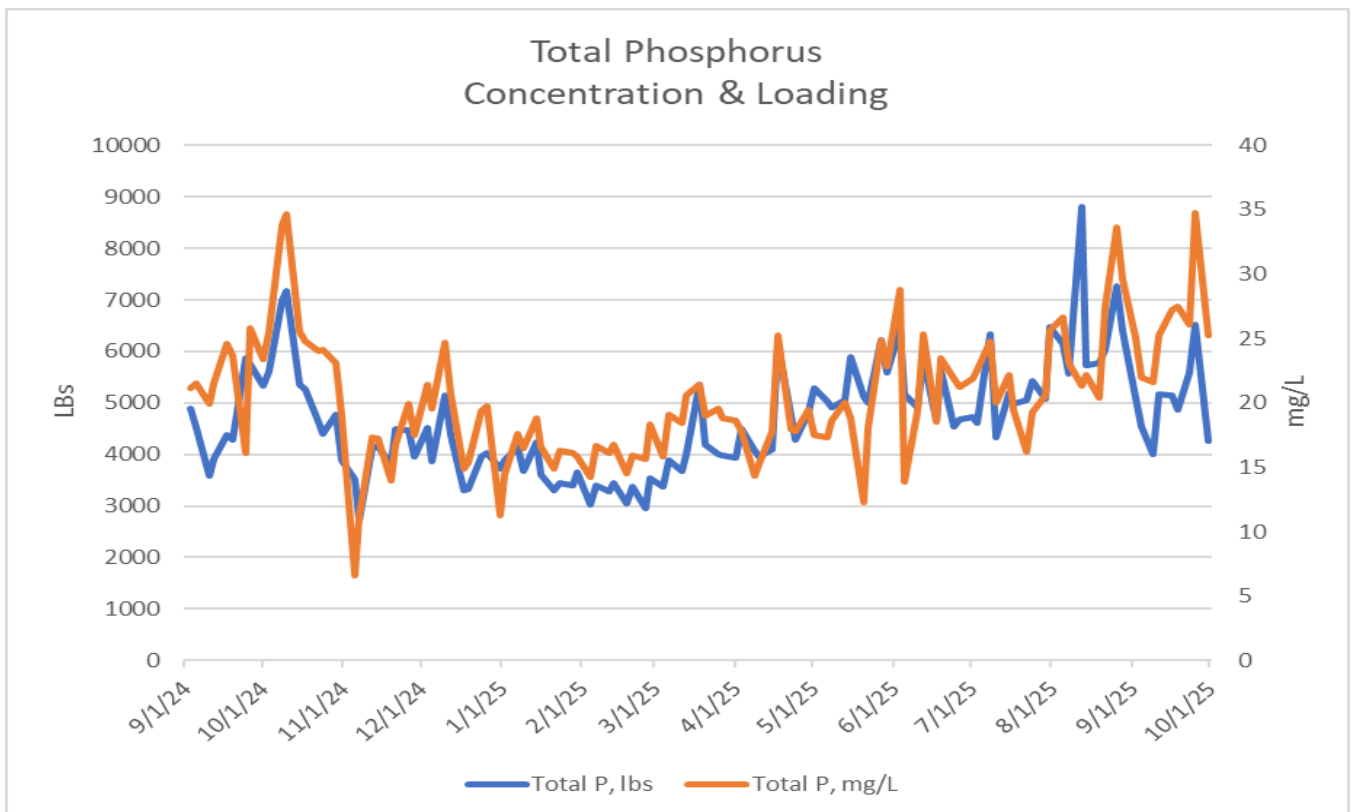
The District has completed the revised draft of the Memorandum of Understanding (MOU) and is awaiting the City's approval. Once confirmation is received, the revised draft will be distributed to stakeholders for review by their respective legal teams. Following that, a meeting will be scheduled to discuss and finalize the work plan schedule.

Plant Operating Graphs:



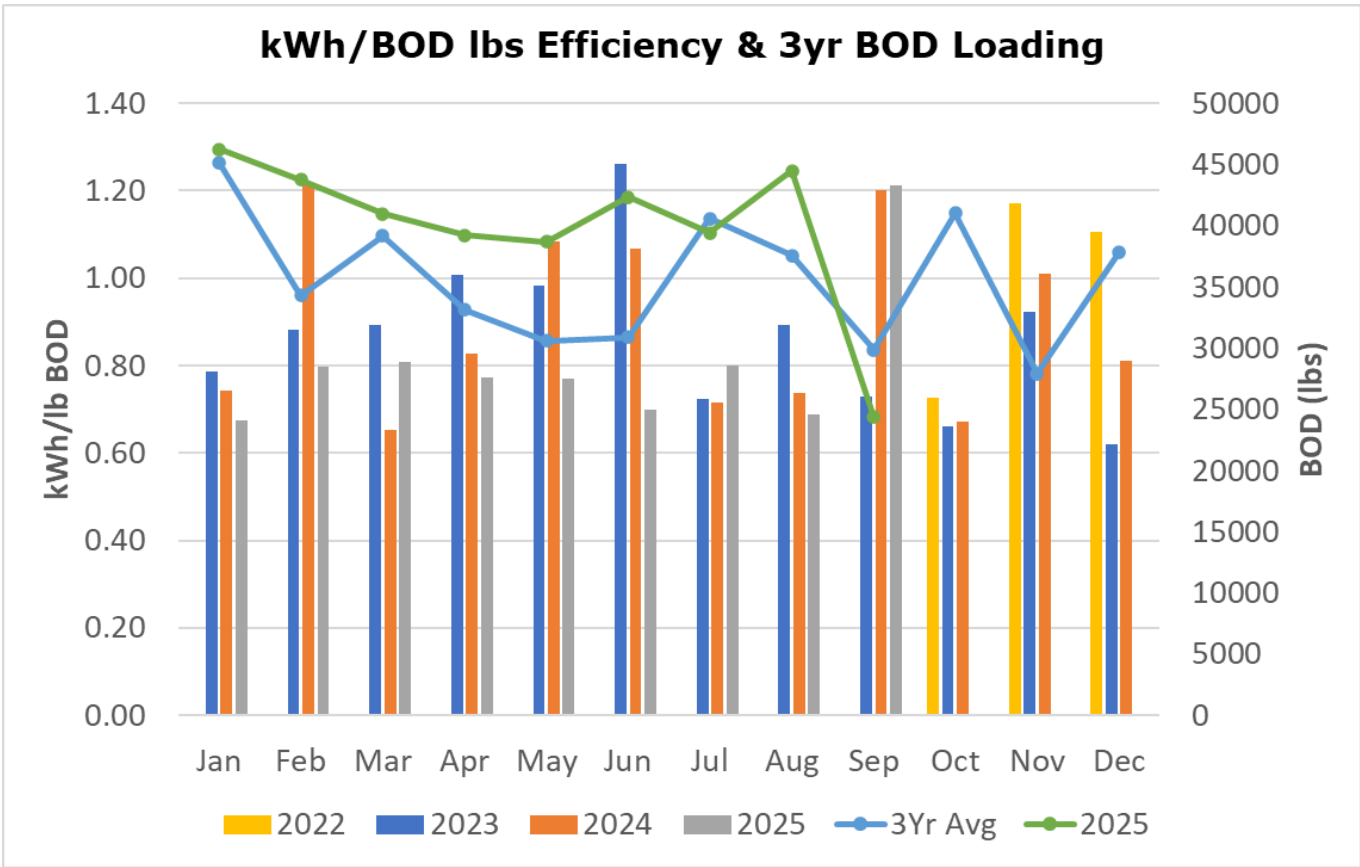
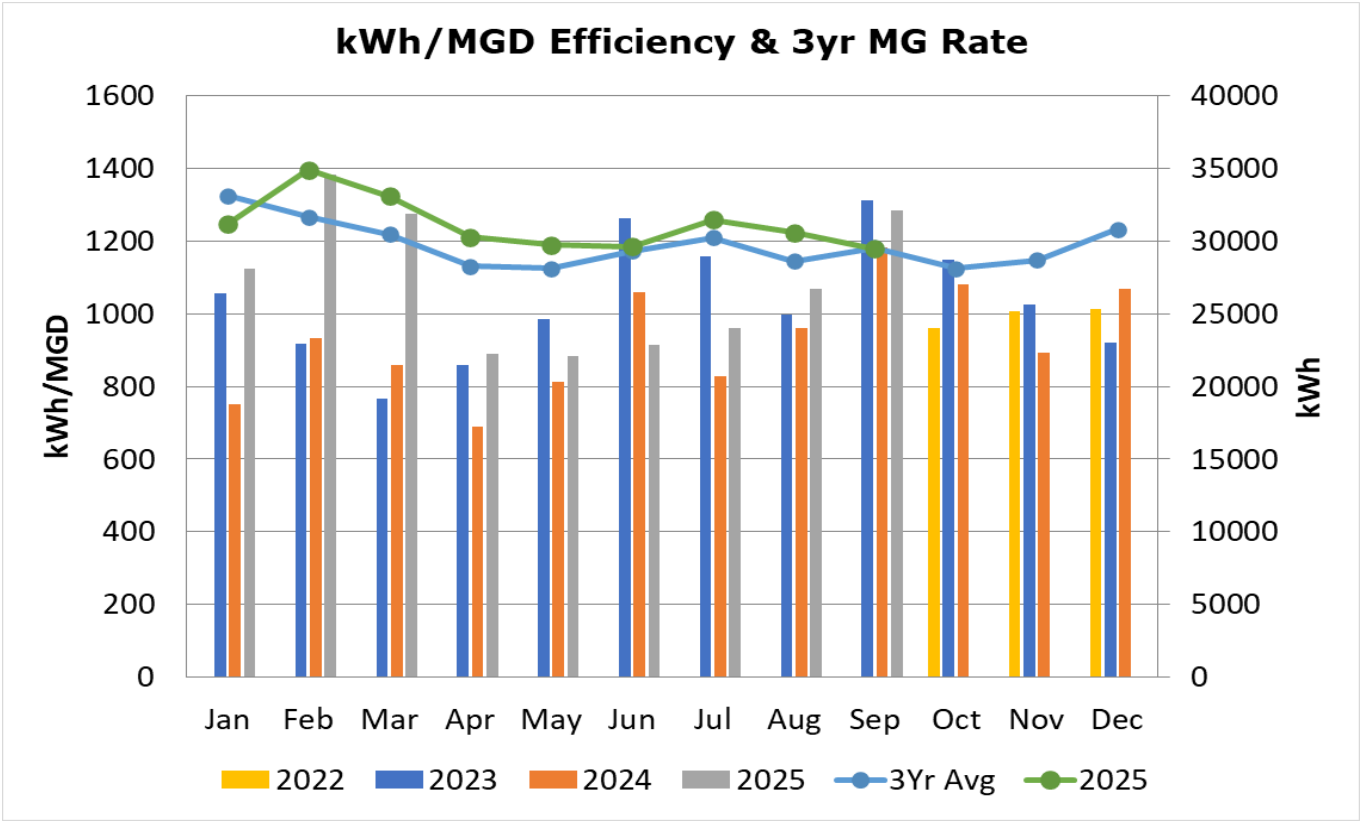


Phosphorus Tracking Graph:



Plant Efficiency Graphs:

September 2025



Permit Effective Date	10/1/21	HIGH IMPORTANCE	Updated					
Approximate Expiration Date (Month)	9/30/26	New app 4/3/26	10/8/25					
Permit Requirement	Reccurence Cycle	Repeats?	Period Covered	Permit Location	Deadline Date(s)	# Months to Comply	Date Reported	Completed
DMR Submissions	25th day / month	Yes - monthly	Previous Month	SC 6	Monthly 25th	0	10/8/25	
Fecal Coliform Testing Submission	25th day / month	Yes - monthly *	May - Oct	SC10	Monthly 25th	0	-	
Quarterly SWPPP Plant Inspection	Quarterly	Yes	Year begins each Oct	NA	3/31, 6/30, 9/30, 12/31		7/24/25	
Annual SWPPP Report	Yearly	Yes	Previous 12 months	SC19, K	9/30/Each Yr	2	9/11/25	
Pretreatment Annual Report	Annual	Yes	Previous Year	SC 11, B, 1, a-e	4/28/Each Yr	3	3/26/25	
Pretreatment Qrtly - DMR Tests	Quarterly	Yes	Calendar Year	SC 11, C, 1	1/25/Each Yr	25 days	1/10/25	
Qrtly Sludge Disposal DMR Report	Quarterly	Yes	Calendar Year	2021-SC-66254	1/25, 4/25, 7/25, 10/25	0	10/6/25	
110 Priority Pollutants Tests	Yearly	Yes	Previous Year	SC 11, C, 2, a-c	4/28/Each Yr		3/26/25	
Annual Fiscal Report	Yearly, email	Yes	Budget Year	SC 13	1/31/Each Yr	1	1/3/25	
Discharge 002 Reporting	Special, DMR	As required	When Discharging	SC 15, All	Special	Special		
Semi-Annual Sludge Report 1st	Semi-Annual	Yes	Jan - Jun each Yr	SC 16	7/31/Each Yr	1	7/2/25	
Semi-Annual Sludge Report 2nd	Semi-Annual	Yes	Jul - Dec each Yr	SC16	1/31/Each Yr	1		
CSO Monthly Discharge Reports	Monthly, email	Yes	Previous Month	SC17, A, 1	Monthly 25th	0	10/2/25	
CSO PPP Public Meeting	Annual	Yes	NA	SC17, C, 1	4/1 yrly	12	3/19/25	
CSO PPP Revision & Report	As needed	Yes	NA	SC17, C, 1	1 mon. from revision	1		
CSO O&M Public Meeting	Annual	Yes	NA	SC17, E, 1, h	4/1 yrly	12	3/19/25	
CSO O&M Revision & Report	As needed	Yes	NA	SC17, E, 1, h	1 mon. from revision	1		
Sewer Use Ordinance Revision & Report	As needed	Yes	NA	SC17, F, 2	1 mon. from revision	1		
CSO Long-term Control Plan (LTCP)	9mos post-notification	No	NA	SC17, G, 1, b	NA	9		
CSO LTCP Report	12mos post-notification	No	NA		NA			
NARP Progress Report	Semi-Annual	YES	Every 6 months	SC 24	3/31 & 9/30 yrly	Fixed	9/30/25	
Update CMOM	NA	As needed	NA	SC18	As needed			
SWPPP Required Review/Update	As needed	Yes	NA	SC19, B	As needed	1	9/11/25	
PDOP Annual Progress Report	Annual	Yes	Calendar Year	SC21	3/31 yrly	12	3/26/25	
Feasibility Study Reports	Semi-Annual	Yes	March & September	SC20	3/31 & 9/30 yrly	Fixed	9/30/25	
Total P 1.0 mg/L MoAvg Compliance	Final	No	96mos post eff date	SC23, F	9/30/29	Fixed		
Total P 1.0 mg/L Progress Report	Annual	Yes	Previous Year	SC23, A	12/31 yrly	0		
Plant BNR Design Completed & Report	Final	No	60mos post eff date	SC23, D	9/30/26	Fixed		
Complete Construction & Report	Final	No	90mos post eff date	SC23, E	3/31/29	Fixed		
Total P 0.5 mg/L RGM Compliance	Final	No	NA	SC22, B,1-5	12/31/35	Fixed		
Biosolids 503 Annual Report	Annual	Yes	Previous Year	40 CFR Part 503/SC16	2/19 yrly	12	1/9/25	
Tier II Report	Annual	Yes	Previous Year		3/1 yrly	12	1/13/25	
Nonhazardous Special Waste Annual Report	Annual	Yes	Previous Year	Title 35 Ill. 809.501	2/1 yrly	12	1/22/25	

""- scheduled but have not complete as of yet



October 9, 2025

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
Progress Update (September 6, 2025 – October 3, 2025)

Dear Mr. Miller:

This letter summarizes the work associated to the SDD Nutrient Program Management project for services from September 6, 2025 through October 3, 2025.

1. Program Management, Administration, and Coordination
 - Conducted bi-weekly program conference calls to update progress and discuss key issues.
 - Provided monthly project updates.
 - Provided ongoing management of the project including program management, preparation/monitoring of the program schedule and budget as well as program administrative duties.
 - Completed semi-annual reports required by the WRRF permit.
2. PowerBI
 - Added additional views to PowerBI for monitoring historical peak hour flows.
3. Watershed Support Services
 - Conducted a bi-weekly progress update meeting.
 - Coordinated with SDD and its stakeholders', including the City of Decatur and ADM, regarding revisions to the Memorandum of Understanding for the Integrated Planning effort.
4. Detailed Design
 - Finalized agreements with design consultants for detailed design work.
 - Continued coordination with potential subcontractors for surveying and geotechnical services.
 - Shared an updated version of the Instrumentation and Control framework document with SDD and design consultants and held a review meeting to discuss the document.
 - Distributed an updated version of the BIM execution plan with the three detailed design consultants and setup the collaborative platform for design coordination, the Autodesk Construction Cloud (ACC). A meeting was scheduled with design consultants to familiarize them with the ACC.

- Updated and distributed a revised version of the Instrumentation and Control Framework document. Held a meeting with the design consultants and the SDD to review this.
- Continued to evaluate an alternate mixing strategy for the channel mixing and began shared a summary of this analysis in a technical memorandum.
- Developed an aeration design criteria memo to be used by a design consultant and their detailed design for the aeration system.
- Coordinated with the SDD regarding bench-scale testing protocol to evaluate future chlorination requirements.
- Initiated a desktop analysis for ozone alternatives at the WRRF.
- Design consultants conducted site visits to review their project scopes.

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

Todd Archer, P.E.
Engineering Manager, Black & Veatch

Sanitary District of Decatur
Nutrient Program Management Report

October 9, 2025

During the period of September 6, 2025 through October 3, 2025, District personnel attended meetings with members of the Black & Veatch team to affect progress in nutrient reduction planning and activities.

Black & Veatch coordinated with the SDD and the design consultants regarding their respective design package(s). Work consisted of a kickoff meeting, site visit, and bi-weekly coordination calls. Black & Veatch distributed the final BIM execution plan along with setup the team collaborative platform, Autodesk Construction Cloud (ACC), to be used by the design teams. Black & Veatch also issued an updated version of the Instrumentation and Control guidance document to the SDD and the design consultants and held a meeting to review the contents of this document. Black & Veatch also conducted additional evaluations for the following items: channel air mixing, aeration design criteria, and disinfection sampling protocol.

The following is a list of meetings conducted. The information provided 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 from September 6, 2025 through October 3, 2025

<u>Subject</u>	<u>Date</u>	<u>Agenda Items</u>
Nutrient Program Management Bi-weekly Meetings	Meetings held on 9/10/2025 and 9/24/2025	<i>Objective:</i> Provided Status Update on Program Tasks • Watershed Services • Detailed Design • PowerBI
Detailed Design, Donohue, Meeting	Meeting held on 10/1/2025	<i>Objective:</i> Review Project Scope and Schedule • Review Project Scope • Review Schedule
Detailed Design, Clark Dietz, Meeting	Meeting held on 10/2/2025	<i>Objective:</i> Review Project Scope and Schedule • Review Project Scope • Review Schedule
Detailed Design, CMT, Kickoff Meeting	Meeting held on 9/15/2025	<i>Objective:</i> Review Project Scope and Schedule • Team Introductions • Review Project Scope • Review Schedule

Sanitary District of Decatur
Watershed Management Report

October 9, 2025

During the period of September 6, 2025 through October 3, 2025, District personnel attended meetings with members of the Black & Veatch and Geosyntec team to coordinate and discuss elements essential to meet the Nutrient Assessment Reduction Plan (NARP) requirements as listed in the NPDES permit.

This month's Integrated Planning activities included additional coordination regarding the Memorandum of Understanding (MOU) between SDD and key stakeholders, notably the City of Decatur.

The following is a list of the meetings conducted. The information provided 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 from September 6, 2025 through October 3, 2025

<u>Subject</u>	<u>Date</u>	<u>Agenda Items</u>
Watershed Services Bi-weekly Discussions	Meeting held on 9/17/2025	<i>Objective:</i> Geosyntec discussed comments and responses to Nutrient Assessment Reduction Plan and Integrated Planning.