

## Director of Compliance and Innovation Report

August 20, 2025

### Plant Loading, CSO Report, and Director's Notes

#### Plant Influent Report:

Biochemical Oxygen Demand, 5-Day (Avg. 39391 lbs/day)	62 percent of design
Total Suspended Solids (Avg. 61823 lbs/day)	57 percent of design
Average Daily Flow (32.80 million gallons/day)	80 percent of design
Maximum Daily Flow (72.76 million gallons/day)	58 percent of design

Plant Influent Total Monthly Flow (million gallons) for June	970.17
Estimated Unbilled Total Monthly Flow (million gallons)	278.35
Total Monthly Precipitation (inches)	4.05

#### Plant Effluent Report:

<u>Parameter</u>	<u>Report Frequency</u>	<u>Permit Limits</u>	<u>Reported Values</u>	<u>Violations</u>
CBOD <sub>5</sub> , mg/L	Mo./Wk. Avg	20/40	2/2	0
TSS, mg/L	Mo./Wk. Avg	25/45	4/5	0
NH <sub>3</sub> -N, mg/L	Mo. Avg/Weekly Max/Daily Max	1.1/2.8/3.0	0.35/0.38/0.40	0
DO, mg/L	Wk. Avg/Daily Min	6.25/5.0	7.08/6.95	0
pH, S.U.	Daily Min/Max	6.0/9.0	7.70/8.21	0
Total Nickel, mg/L	Mo. Avg	0.0381	0.015	0
Cl <sub>2</sub> Residual, mg/L	Daily Max	0.05	<0.011	0
Fecal Coliform CFU/100mL	Daily Max	400	245	0

#### CSO Report:

Location	Events	Est. Total Duration of Discharges (hrs.)	Discharge (million gallons)
Oakland Avenue (Outfall 003)	4	18.2	13.18
Lincoln Park (Outfall 004)	4	23.9	24.3
McKinley Avenue (Outfall 007)	3	35.8	13.75
Seventh Ward (Outfall 008)	4	33.7	24.09

#### Director's Notes:

##### **Administrative Order of Consent:**

The District has a scheduled follow-up meeting with the USEPA (Agency) on the suggested changes to the proposed Administrative Order on Consent (AOC) on August 19<sup>th</sup>.

**Sanitary Sewer Overflow Report:**

On Saturday, July 19<sup>th</sup>, Decatur experienced about 2.5 inches of rain within an hours' time. Most of the District's wet wells reached a high wet well level with District staff out trying to maintain levels. At Spring Creek lift station, near Spring Creek and Miles Chevrolet, the small City of Decatur owned station was over come with the rain and had an overflow occur out of the electrical box. No mechanical failure was observed. An estimated 120 gpm made it out of the lift station and to Spring Creek. On Monday the City of Decatur and the IEPA were notified. The City completed and submitted the 5-Day report for the SSO lift station.

**Staff Training Activities:**

Tim Gorden, Brent Deardorff, Brandi Rosenberger and Ashley Bailey attended the Central Illinois Professional Wastewater Operators (CIPWO) summer meeting on July 30, 2025, in Pontiac, IL at the Pontiac Wastewater Treatment Plant. The meeting included a presentation on PFAS/PFOS background information, sampling, and handling and another presentation on the USEPA ECHO (Enforcement and Compliance History Online) system.

**Peak Performance Award:**

The District has officially been awarded the NACWA Gold Peak Performance Award for zero NPDES (National Pollution Discharge Elimination System) permit violations in 2024. An application was submitted by Keith Richard on behalf of the District back in January of this year. The Peak Performance Awards recognize POTW's for excellent compliance with their NPDES discharge permits, meaning the District met over 1000 permit limit values.

**Operations, Laboratory, and Pretreatment Activity Reports – July/August 2025****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) Operators and Maintenance have been looking at alternatives for pumping from Primary Digester #2 to the Secondary Digester due to plugging issues at the pump.
- 1) Operations staff continue to actively address PMs as time, workload, and staff levels allow.
- 2) Operations staff continue to work on SOPs.
- 3) Blower usage continues to be up due to the continuous loading from industries. The 4 neuros blowers have been able to supply the air needed for treatment.
- 4) Disinfection is going well. Operators have been doing a very good job of keeping the chemical usage down.
- 5) Operators dewatered Primary clarifier #6 for Plocher to install the auto flush system for the scum trough.
- 6) Operations will be gearing up for land ap.
- 7) Cayden Poole, a summer part-time employee, has been selected for the operator position. He started training on the 12<sup>th</sup> is eager to learn and will be a welcome addition to the operations team.
- 8) Brandi Rosenberger has completed the requirements for the EPA Class I Certification and is now a Class I Operator.
- 9) Brian Wise and Chad Bledsoe have passed the EPA Class III exam and are now Class III Operators.

## **Laboratory Activities:**

### **Routine:**

A total of 1,876 analyses were performed in the laboratory during the month of July 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 July 2025 for the "COVID-19 in Wastewater" study funded by the Illinois Department of Public Health. Levels of COVID, influenza A, influenza B, and RSV were all low in the recent samples.
- 2) The SDD laboratory analyzed thirteen stormwater samples during July 2025 for the Lake Decatur Watershed monitoring study. The SDD is providing in-kind laboratory analysis of samples collected at the study's monitoring sites after significant storm events.

## **Pretreatment Activities:**

### **Pretreatment - General Activities:**

- 1) Pretreatment personnel monitored 8 commercial and industrial users (IU) during July 2025. There was 1 industrial site inspections completed at Rising Pharmaceuticals.
- 2) There were no permits issued in July 2025.
- 3) Local Limits sampling was intended to continue in July with two instances of Removal Efficiency testing, however both instances were canceled due to rain.
- 4) Sampling for **Tillamook** continued in July. For the first time since the SDD started sampling them, they did not have a sampling violation. They are continuing to progress on getting their EQ tank installed, and they are moving forward as well with a DAF unit to improve wastewater quality. They continued to struggle with slug loads to the SDD, as they were penalized for a total of 6 slugs in July. **Tillamook** is still struggling to locate the source of these slugs, but with the installation of the EQ tank it should be easier to track them down.
- 5) **Primient** had a total of three days where they violated their daily maximum BOD limit, however the violations were severe enough to cause them to violate their 10-Day moving average BOD limit for most of the month of July. The issues this month were caused by a combination of process upsets and rain. As Primient is already under an Executive Order for BOD and TSS violations, additional enforcement was not taken outside of the penalty structure set in the current order.
- 6) **HR Ewell** had 6 total violations this month stemming from BOD and pH issues. A written response has been requested and is due on 8/19.

### **Pretreatment Ordinance - Verbal Notices:**

SDD issued a total of 32 Verbal Notices to **HR Ewell**, **Tillamook**, and **Primient** in July 2025:

- **Primient (20 Violations):**
  - BOD Daily Max (3): 7/3/2025
  - BOD 10-DMA (17): 7/9/2025 – 7/15/2025, 7/18/2025 – 7/27/2025
- **Tillamook (6 Violations):**
  - Slug loads on 7/9/2025, 7/10/2025, 7/16/2025, 7/17/2025, 7/27/2025, and 7/28/2025
- **HR Ewell (6 Violations)**
  - Daily Maximum BOD: 7/29/2025 and 7/30/2025
  - Monthly Average BOD
  - Low pH: 7/29/2025, 7/30/2025, 7/31/2025

**Pretreatment Ordinance - Warning Notices (WN):**

There were no WN's issued during July 2025.

**Pretreatment Ordinance - Notices of Violation (NOV):**

There were no NOV's issued during July 2025.

**Pretreatment Ordinance - Executive Orders (EO):**

There were no EO's issued during July 2025.

**Pretreatment Ordinance - Penalty Assessments:**

The following industrial penalties were assessed for July 2025.

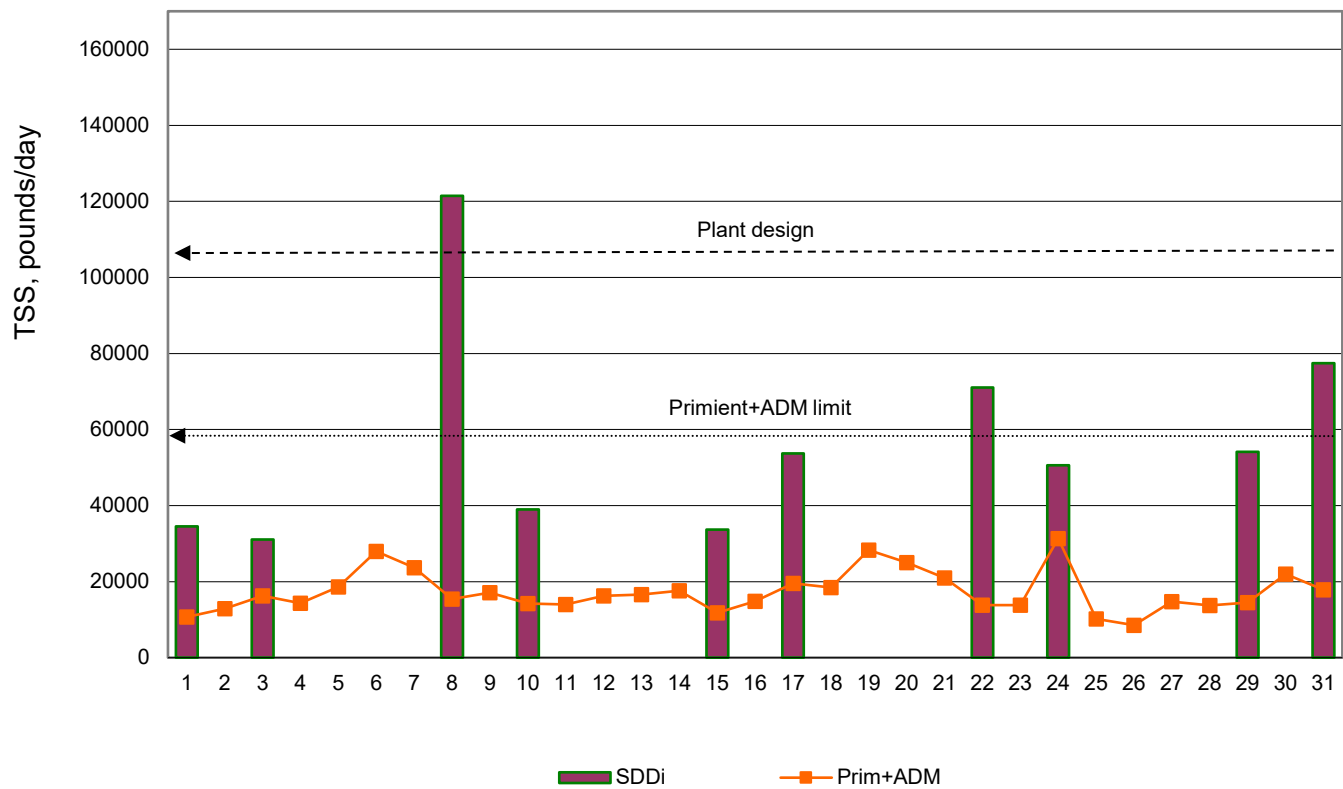
- **Primient** - \$306,000
- **Tillamook** - \$36,000

**Nutrient Program Report:****NARP/Integrated Planning:**

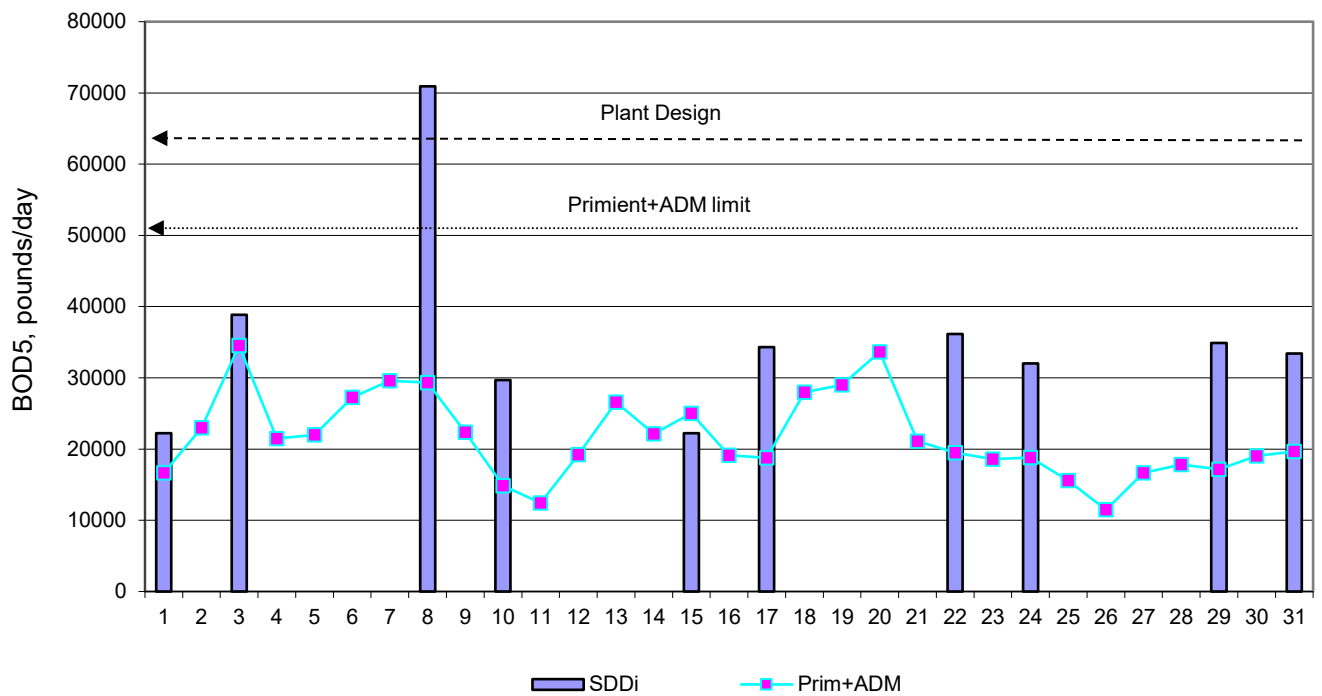
An Integrated Planning meeting is scheduled for September 9<sup>th</sup>, and legal review of the final draft will be discussed. The group will also discuss/review the workplan schedule for the group.

**Plant Operating Graphs:**

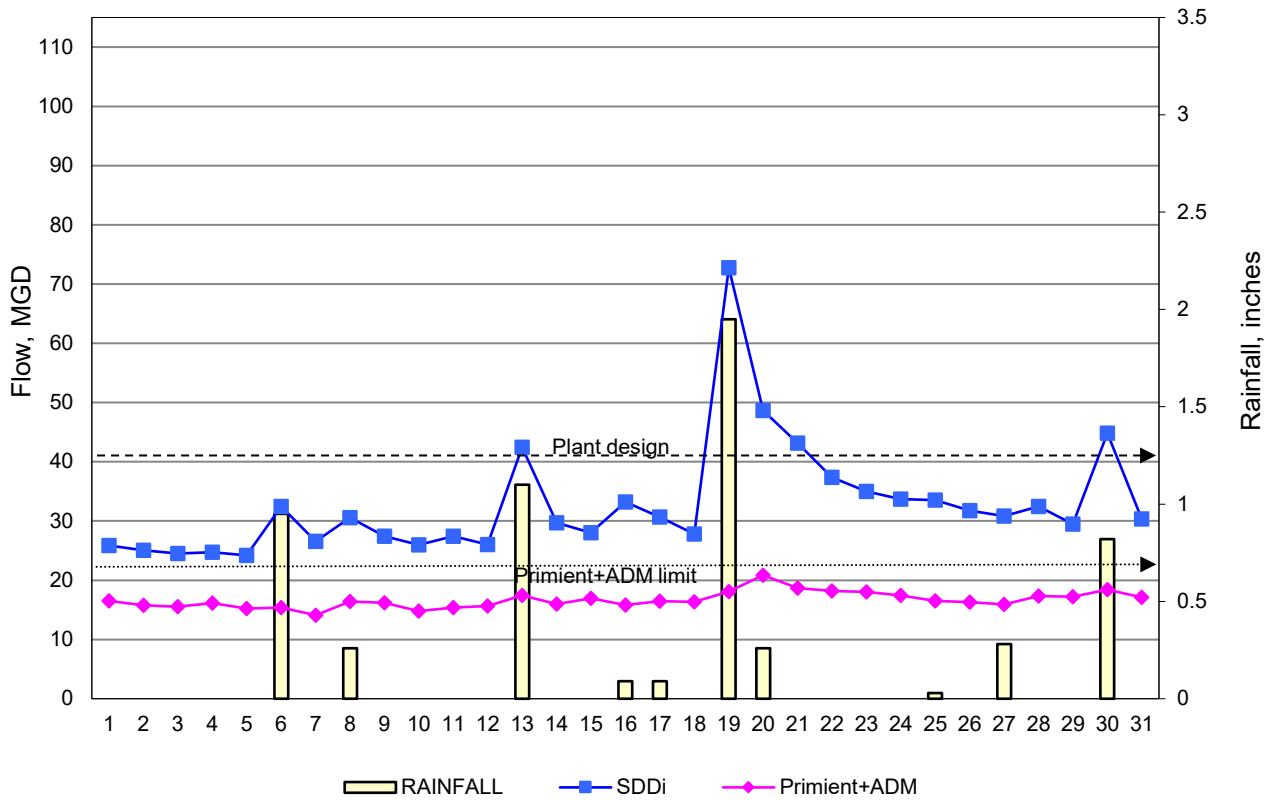
**TSS Comparison: SDD Inf Primient+ADM Discharges**



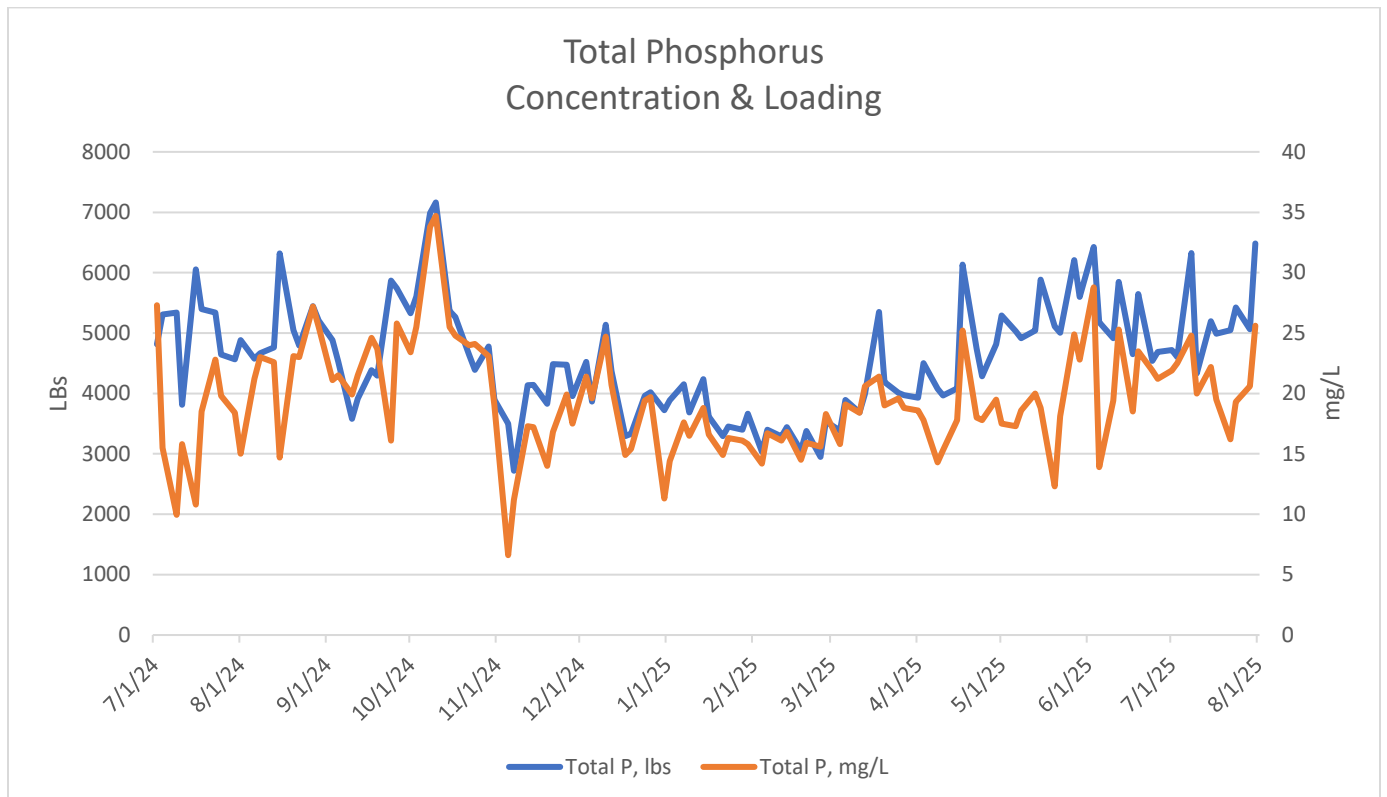
**BOD Comparison: BOD Inf vs. Primient + ADM Discharges**



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

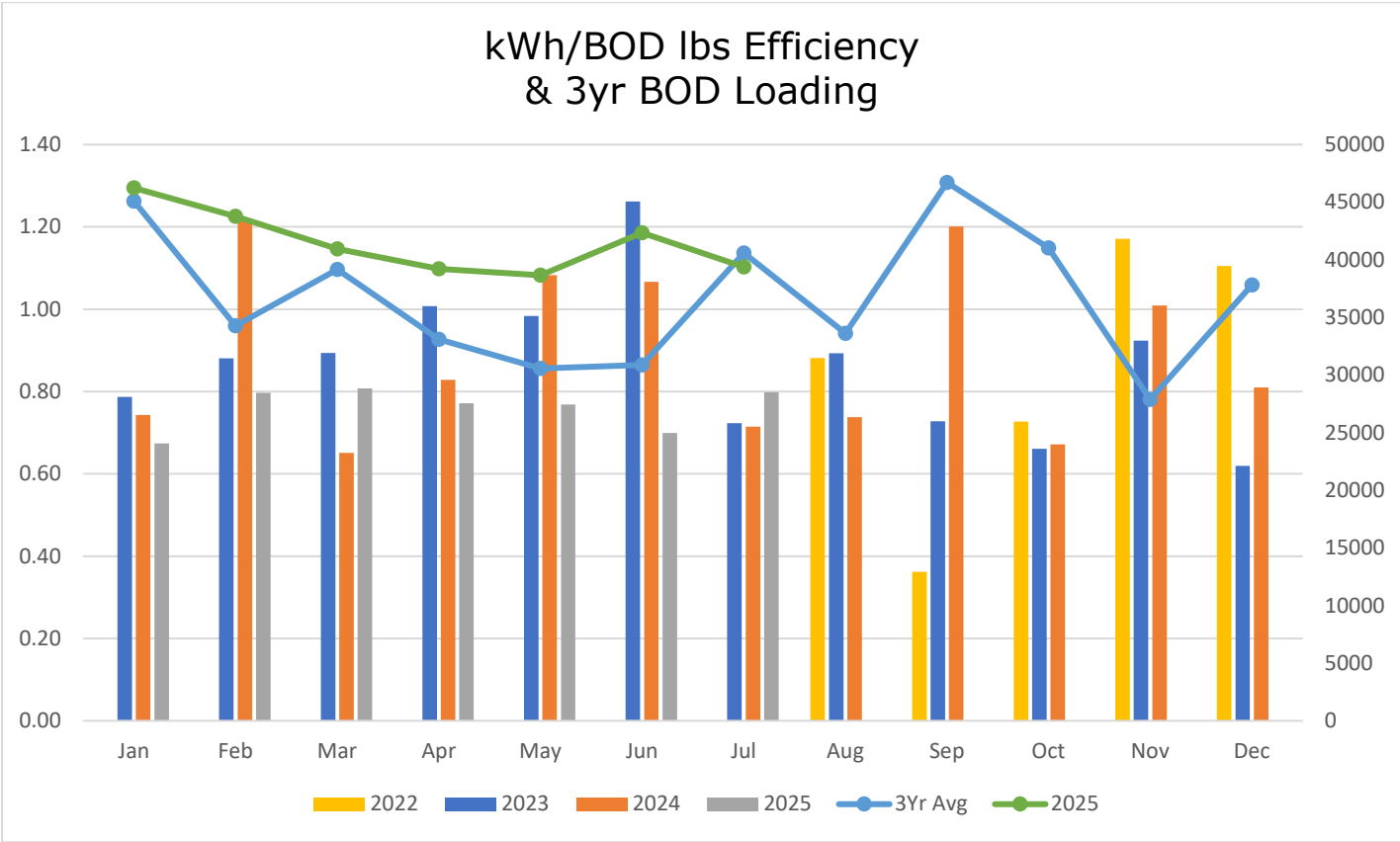
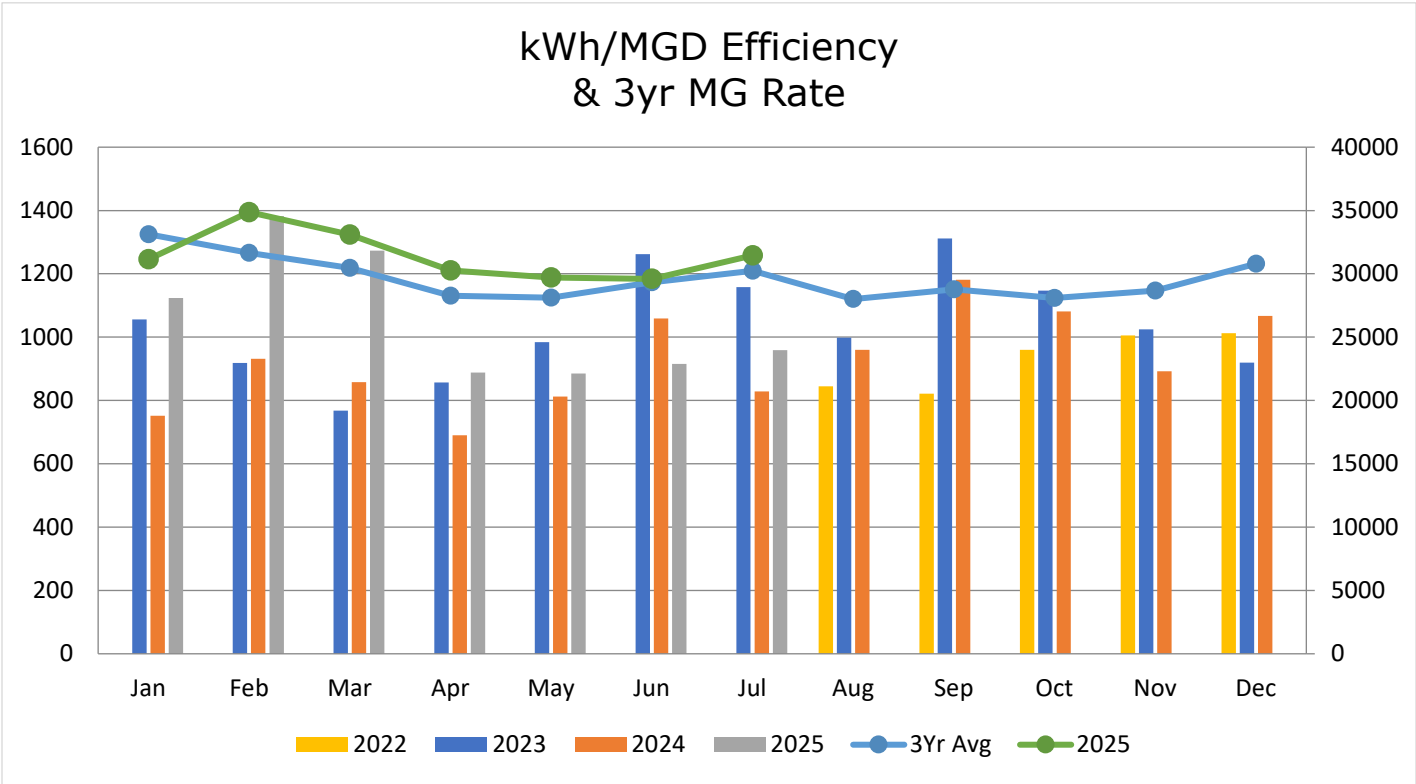


**Phosphorus Tracking Graph:**



**Plant Efficiency Graphs:**

**July 2025**



Permit Effective Date	10/1/21	HIGH IMPORTANCE	Updated8/11/25					
Approximate Expiration Date (Month)	9/30/26	New app 4/3/26						
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	8/11/25	
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		
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	7/2/25	
110 Priority Polutants 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	8/6/25	
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	3/26/25	
Update CMOM	NA	As needed	NA	SC18	As needed			
SWPPP Required Review/Update	As needed	Yes	NA	SC19, B	As needed	1	9/6/24	
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	3/26/25	
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





August 14, 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 (July 5, 2025 – August 8, 2025)

Dear Mr. Miller:

This letter summarizes the work associated to the SDD Nutrient Program Management project for services from July 5, 2025 through August 8, 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.
2. PowerBI
  - Continued coordination with SDD regarding PowerBI, including discussions to migrate PowerBI data management to the SDD's network and guidance to facilitate this change.
3. Watershed Support Services
  - Conducted a bi-weekly progress update meeting.
  - Incorporated additional revisions to the draft Memorandum of Understanding (MOU) between plan stakeholders, including the City of Decatur and ADM, following the June Integrated Planning workshop and distributed the revised draft MOU for review.
  - Held an Integrated Planning workshop on July 8, 2025.
  - Updated planning and next steps for the Integrated Planning effort.
4. Detailed Design
  - Coordinated with selected design consultants regarding draft scopes and fees for their selected design package(s) and shared this information with the SDD.
  - Submitted to the SDD a draft of the Instrumentation and Control framework document to guide the three consultants during detailed design.
  - Advanced the BIM execution plan for use by the three consultants during detailed design.
  - Started preparing kickoff meeting materials for each consultant.

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**

August 14, 2025

During the period of July 5, 2025 through August 8, 2025, District personnel attended meetings with members of the Black & Veatch team to affect progress in nutrient reduction planning and activities.

Black & Veatch shared draft contract scopes with each design consultant and started contract negotiations. Black & Veatch finalized a draft of the instrumentation and control guidance document and shared that with the SDD and a copy was provided to their 'Application Engineer'. Additional progress was made with development of the BIM Execution Plan. Black & Veatch also continued to support the SDD in the migration of PowerBI to the SDD's network.

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 July 5, 2025 through August 8, 2025**

<b><u>Subject</u></b>	<b><u>Date</u></b>	<b><u>Agenda Items</u></b>
Nutrient Program Management Bi-weekly Meetings	Meetings held on 7/16/2025 and 7/30/2025	<i>Objective:</i> Provided Status Update on Program Tasks <ul style="list-style-type: none"><li>• Watershed Services</li><li>• Detailed Design</li><li>• PowerBI</li></ul>

**Sanitary District of Decatur**  
**Watershed Management Report**

August 14, 2025

During the period of July 5, 2025 through August 8, 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 a workshop with the Integrated Plan Stakeholders on July 8, 2025. The latest revisions to the draft Memorandum of Understanding (MOU) between SDD and key stakeholders, notably the City of Decatur and major industrial customers, were reviewed and each stakeholder was to have their legal counsel review the document by the end of July. Geosyntec team updated the plan for executing the Integrated Plan for the remainder of 2025 and shared that with the Integrated Plan stakeholders.

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 July 5, 2025 through August 8, 2025**

<b><u>Subject</u></b>	<b><u>Date</u></b>	<b><u>Agenda Items</u></b>
Watershed Services Bi-weekly Discussions	Meetings held on 7/9/2025 and 8/6/2025	<i>Objective:</i> Geosyntec discussed comments and responses to Nutrient Assessment Reduction Plan and Integrated Planning.