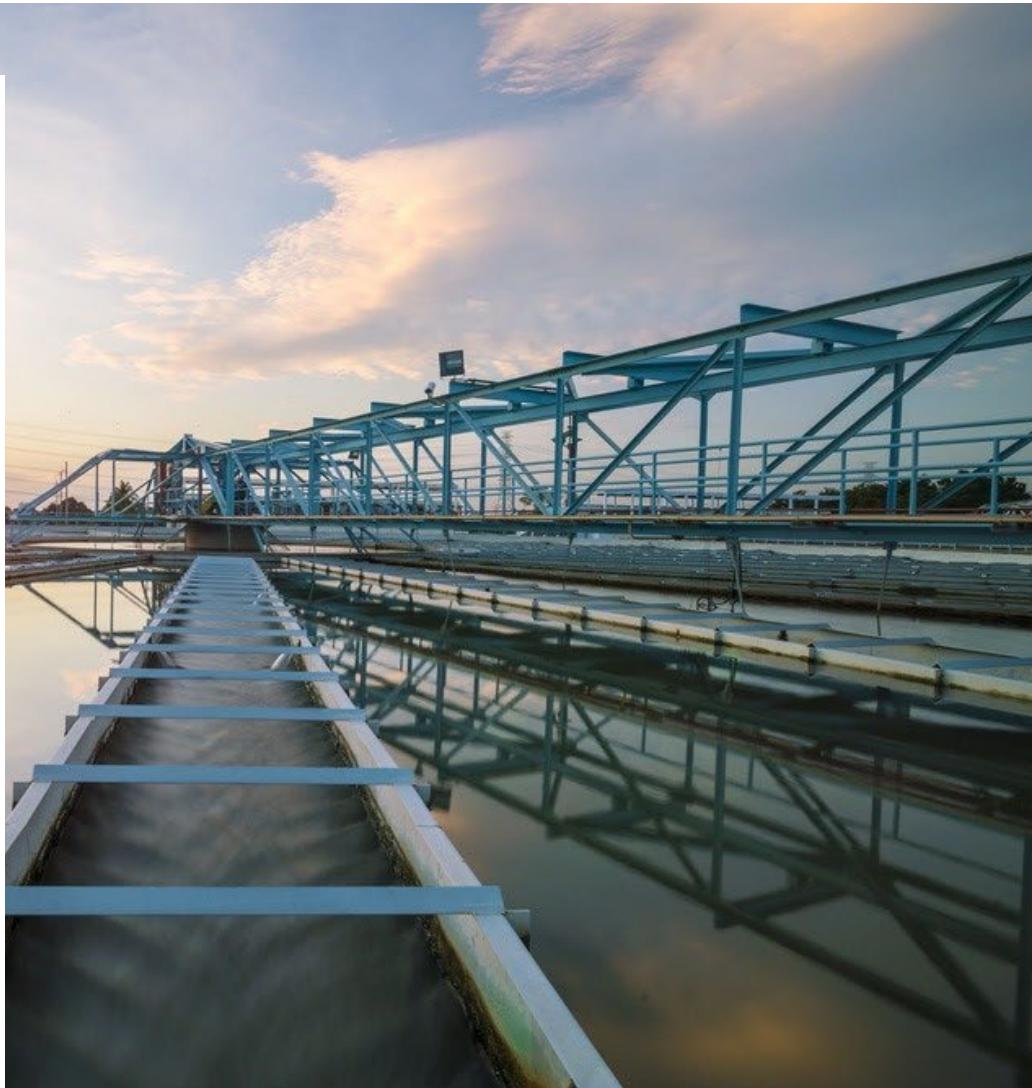


UTILITY REPORT



SEPTEMBER 2025

**King George County
Service Authority**

**Authored by:
Inboden Environmental
Services, Inc.**



INTRODUCTION

This Utility Report provides information on operations, facility performance, equipment issues, and regulatory compliance for the month prior. Information includes items related to water facility productions and wastewater effluent discharge volumes, laboratory analytical data, operations notes, and compliance auditing.

WATER

Canterbury Subdivision – PWSID 6099085

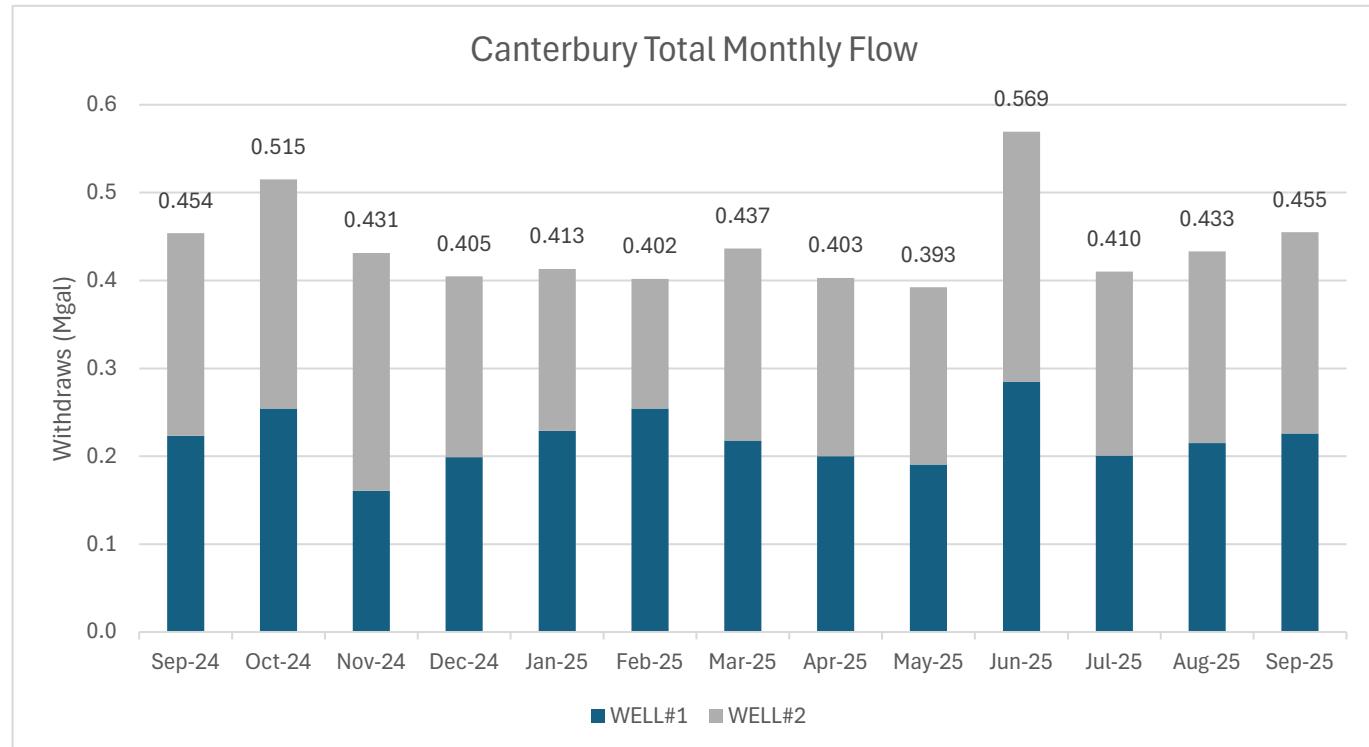
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
020	12343 Kent Rd	9/9/2025	Absent

System Production:



Circle – PWSID 6099100

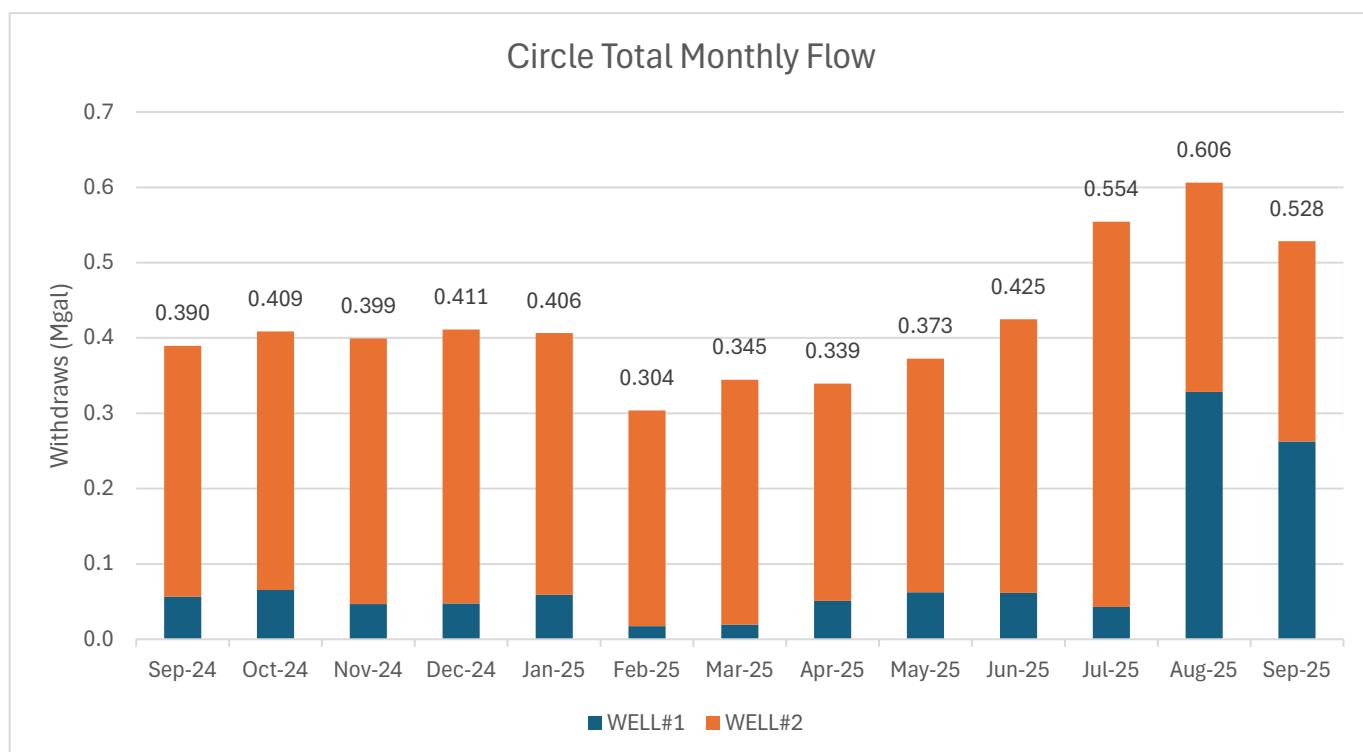
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
030	11052 Vernon Woods Dr	9/11/2025	Absent

System Production:



KGC Courthouse – PWSID 6099050

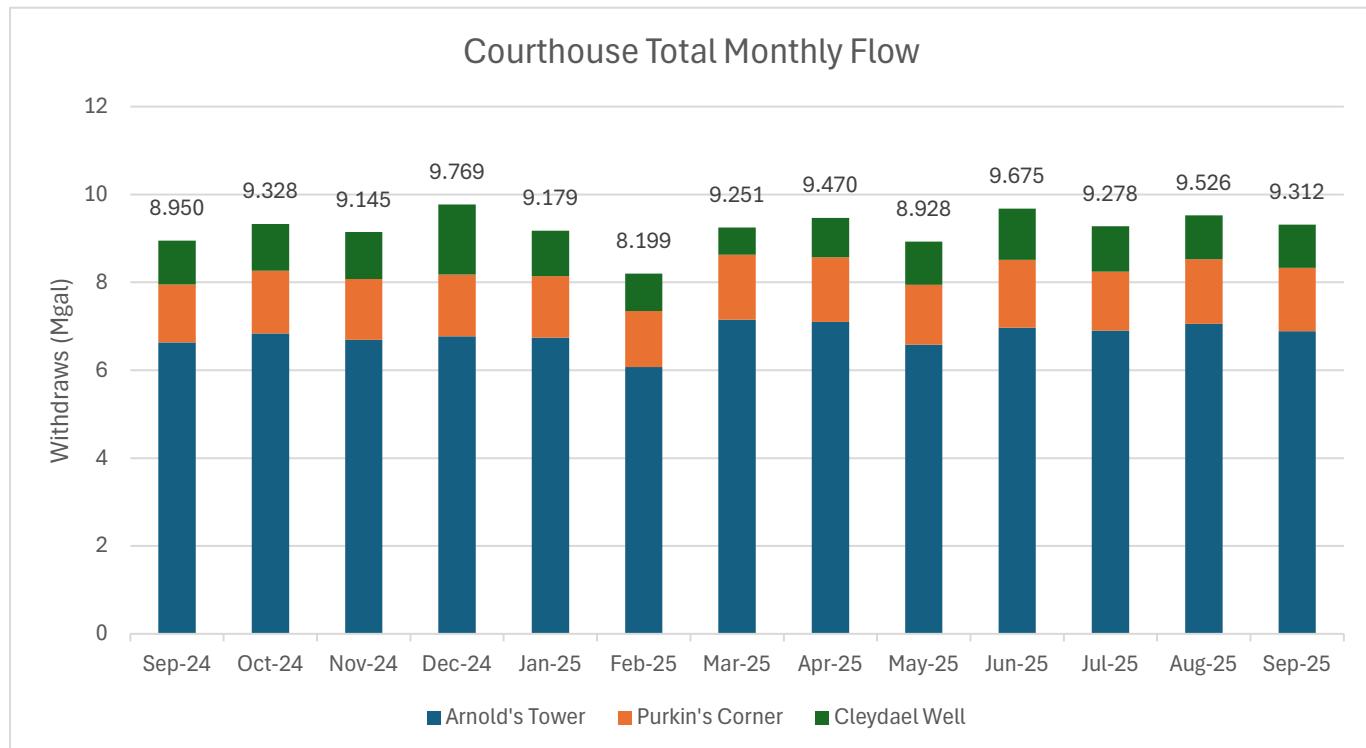
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
015	9287 King's Hwy	9/9/2025	Absent
010	10404 Eisenhower Dr	9/9/2025	Absent
013	8095 Washington Dr	9/9/2025	Absent
09	7347 Jackson Dr	9/11/2025	Absent
08	12382 Richard's Ride	9/11/2025	Absent

System Production:



Dahlgren – PWSID 6099295

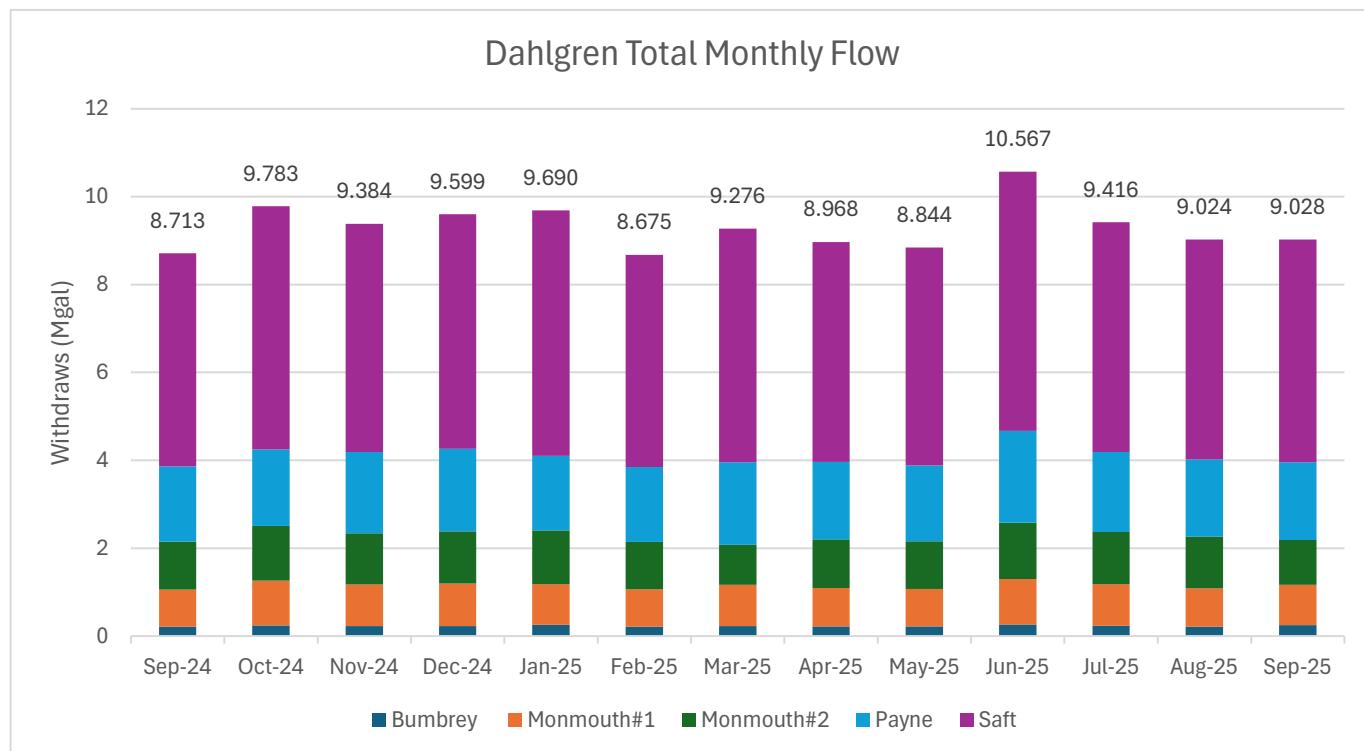
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
01	15375 Dahlgren Rd	9/9/2025	Absent
02	5134 Mallards Landing Dr	9/11/2025	Absent
09U	17014 Village Ln	9/11/2025	Absent

System Production:



Fairview Beach – PWSID 6099250

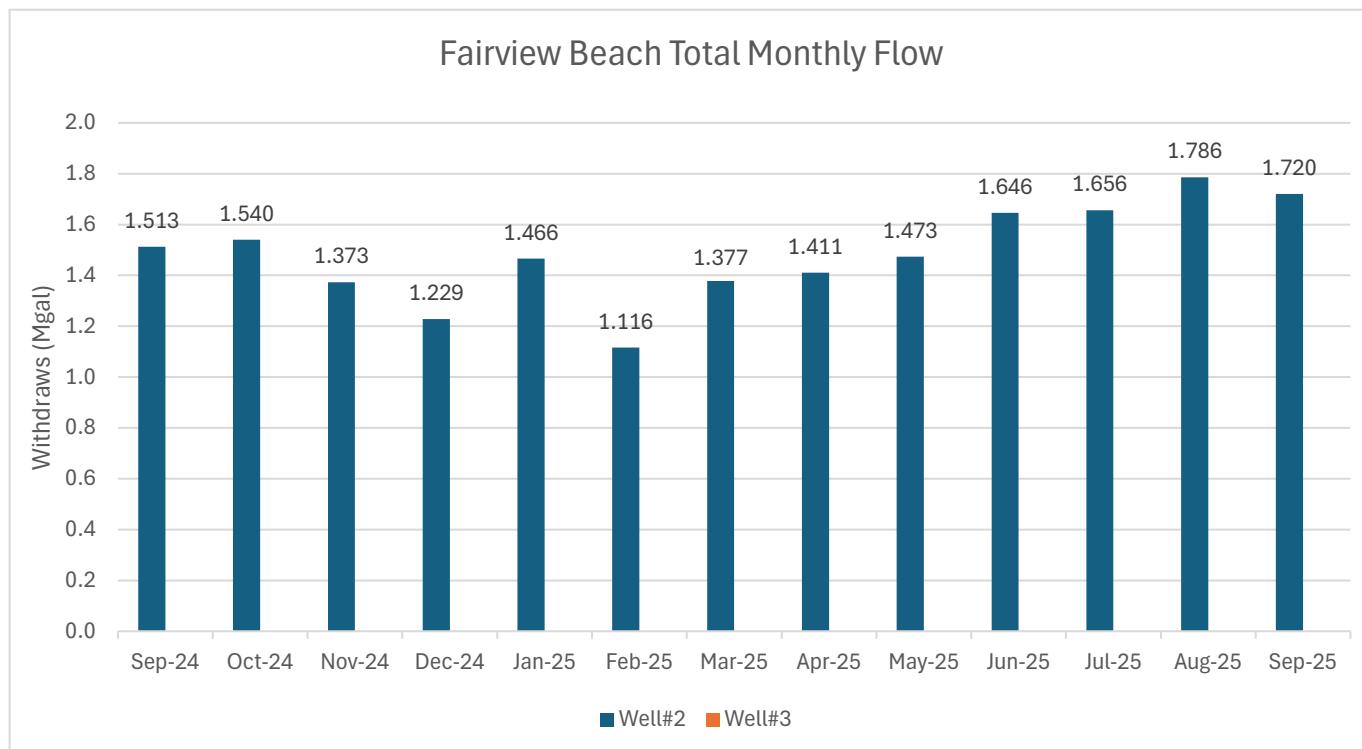
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
010	5435 Pavillion Dr	9/9/2025	Absent

System Production:



Hopyard Farm – PWSID 6099283

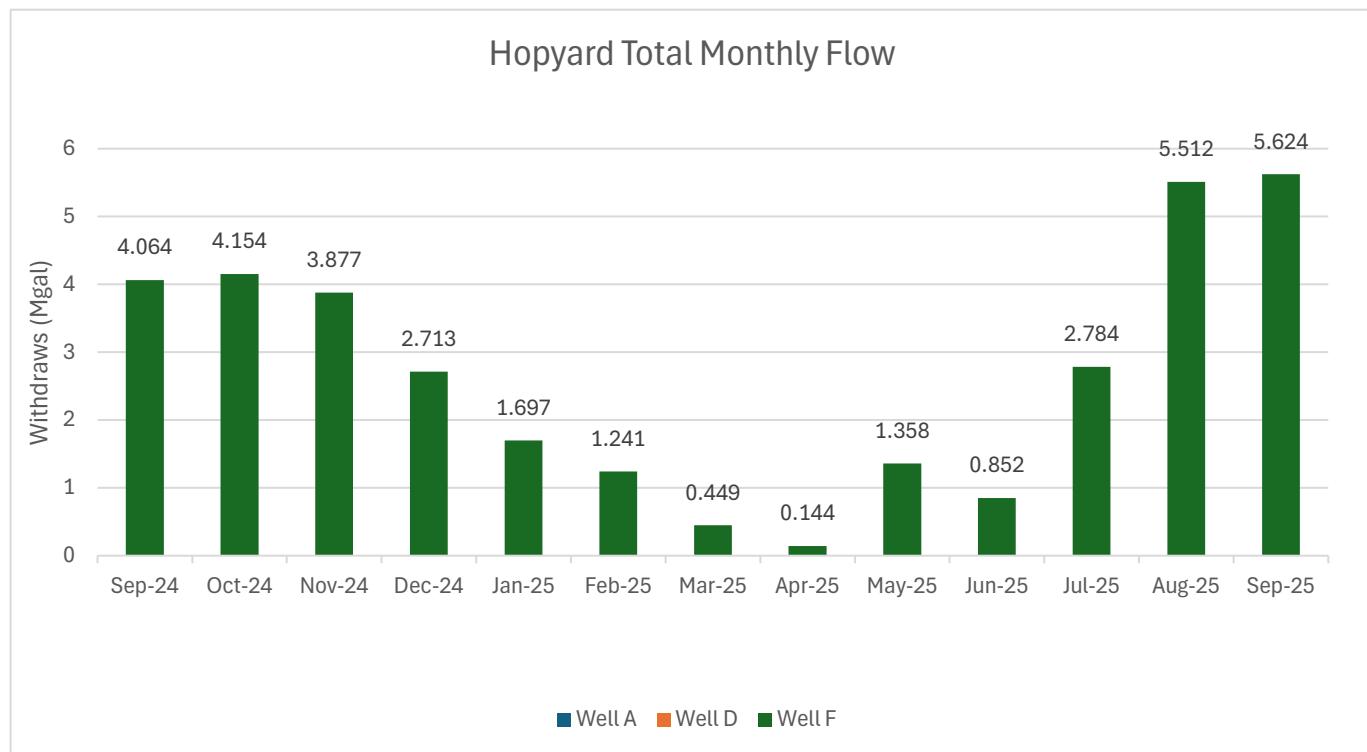
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
03	6190 McCarthy Dr	9/4/2025	Absent
05D	5211 Spinnaker	9/4/2025	Absent

System Production:



KGC School Board Office – PWSID 6099296

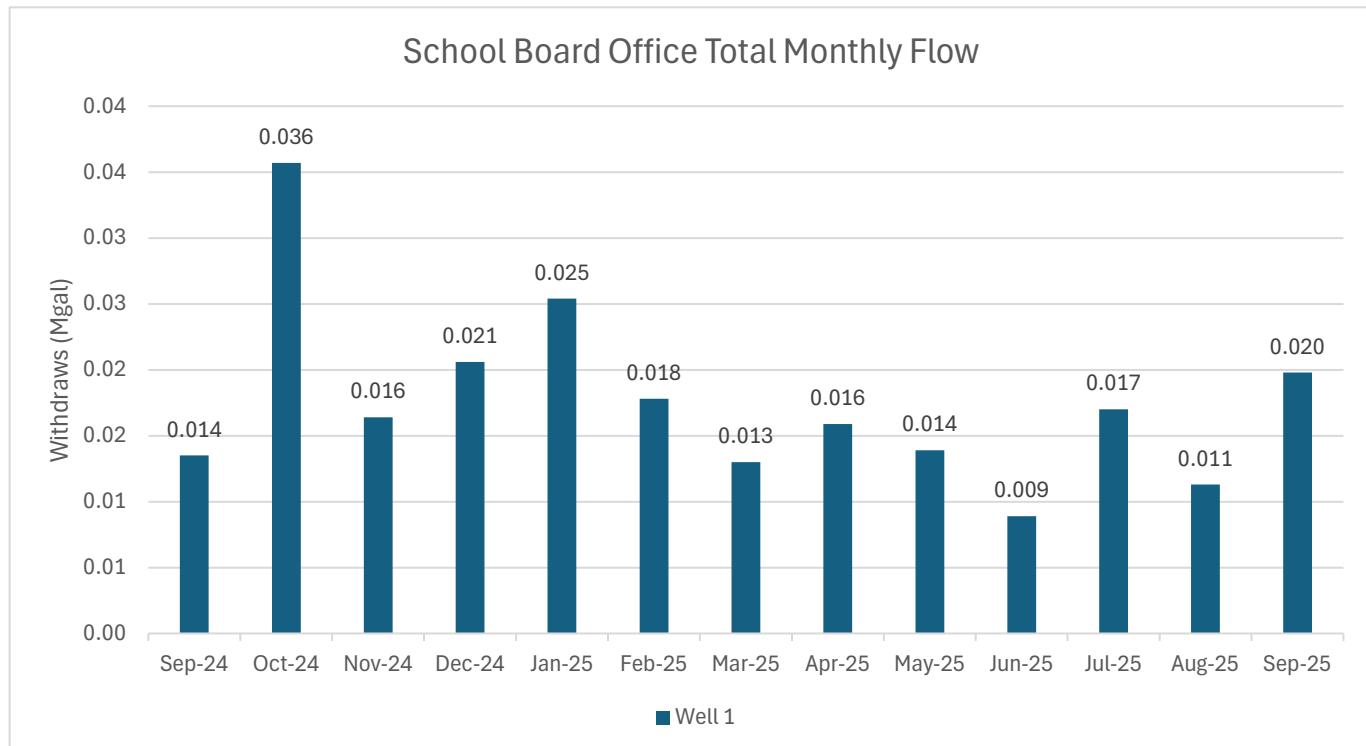
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
010	Human Resources Office	9/9/2025	Absent

System Production:



Ninde's Store – PWSID 6099300

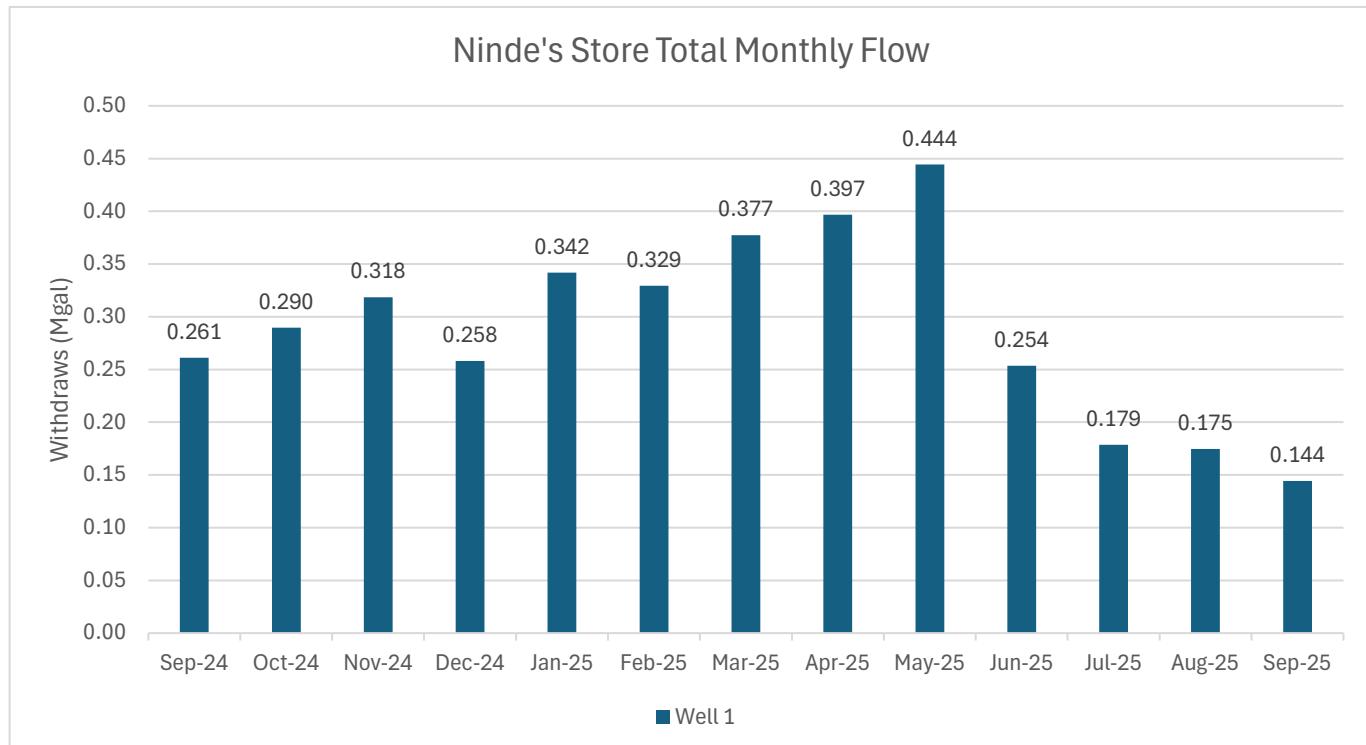
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine and repeat bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
01	16195 Ridge Road	9/11/2025	Total Coliform - Present E. Coli - Absent
01 – RP	16195 Ridge Road	9/16/2025	Absent
01D – RP	16219 Ridge Road	9/16/2025	Absent
01U – RP	16197 Ridge Road	9/16/2025	Absent
RW – TG	Ninde's Store Well	9/16/2025	Absent

System Production:



Oakland Park – PWSID 6099350

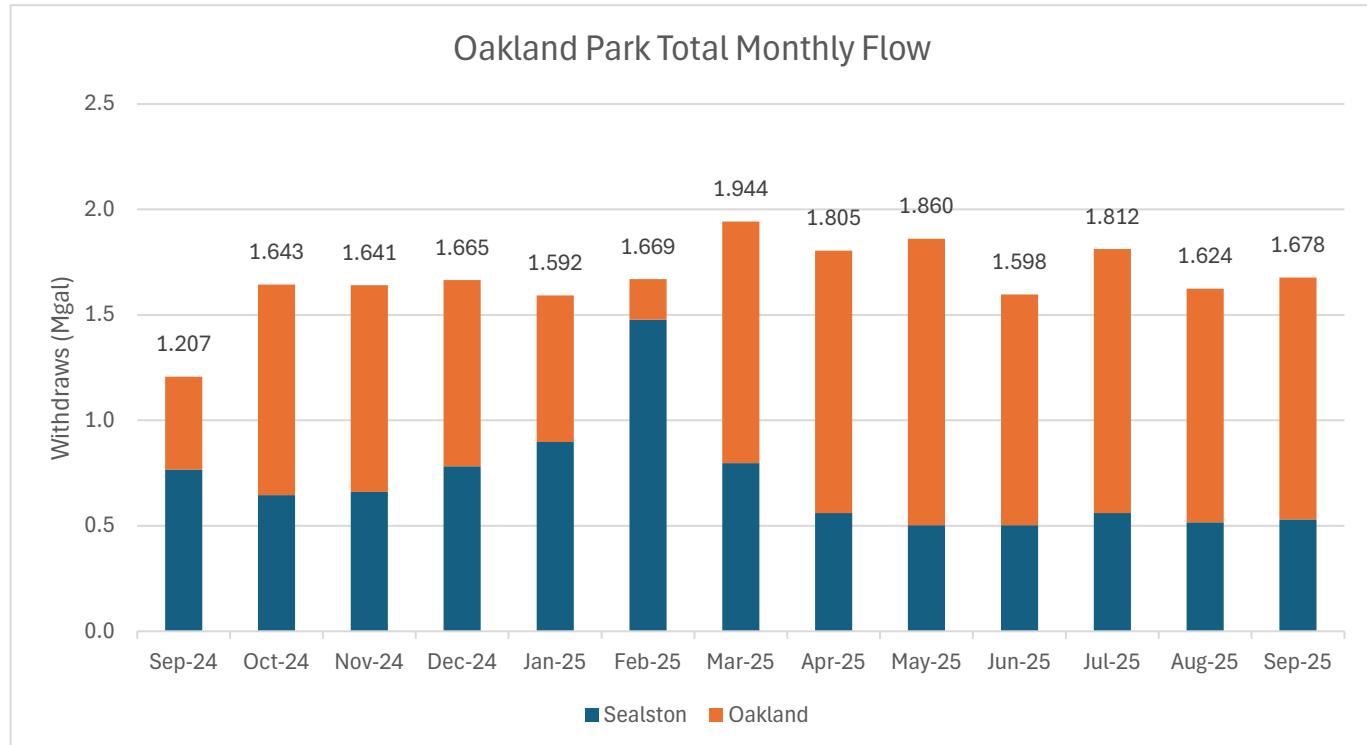
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
030	9121 Covington St	9/4/2025	Absent
040	1139 French Ct	9/4/2025	Absent

System Production:



St. Paul's/Owens – PWSID 6099550

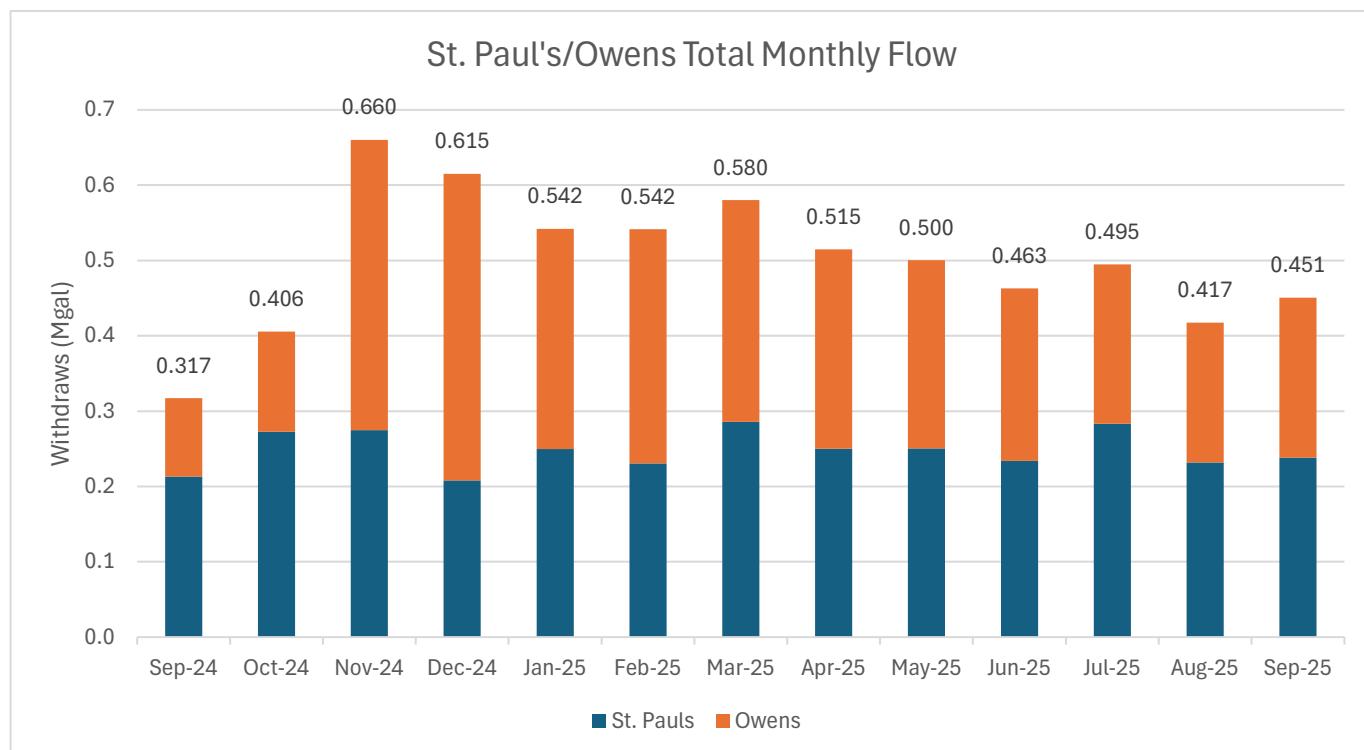
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine and repeat bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
010	5486 St. Paul's Rd	9/11/2025	Total Coliform – Present E. Coli - Absent
010 - RP	5486 St. Paul's Rd	9/11/2025	Absent
01D – RP	6020 St. Paul's Rd	9/16/2025	Absent
01U – RP	5520 St. Paul's Rd	9/16/2025	Absent
RW – TG	St. Paul's Well	9/16/2025	Absent

System Production:



WASTEWATER

Dahlgren WWTP

Effluent Quality:

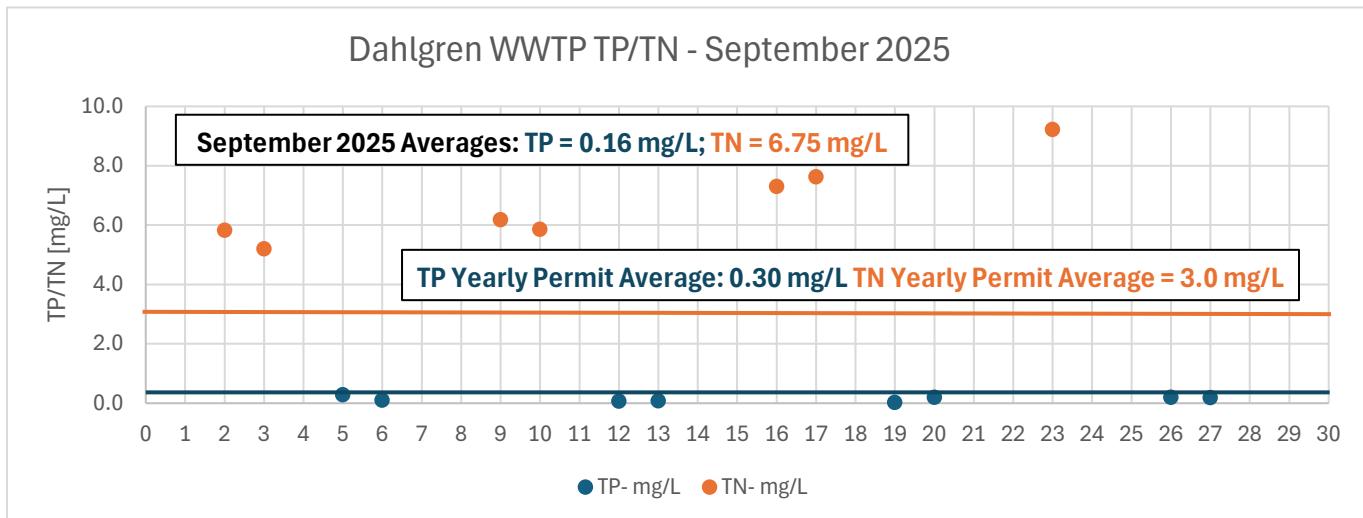
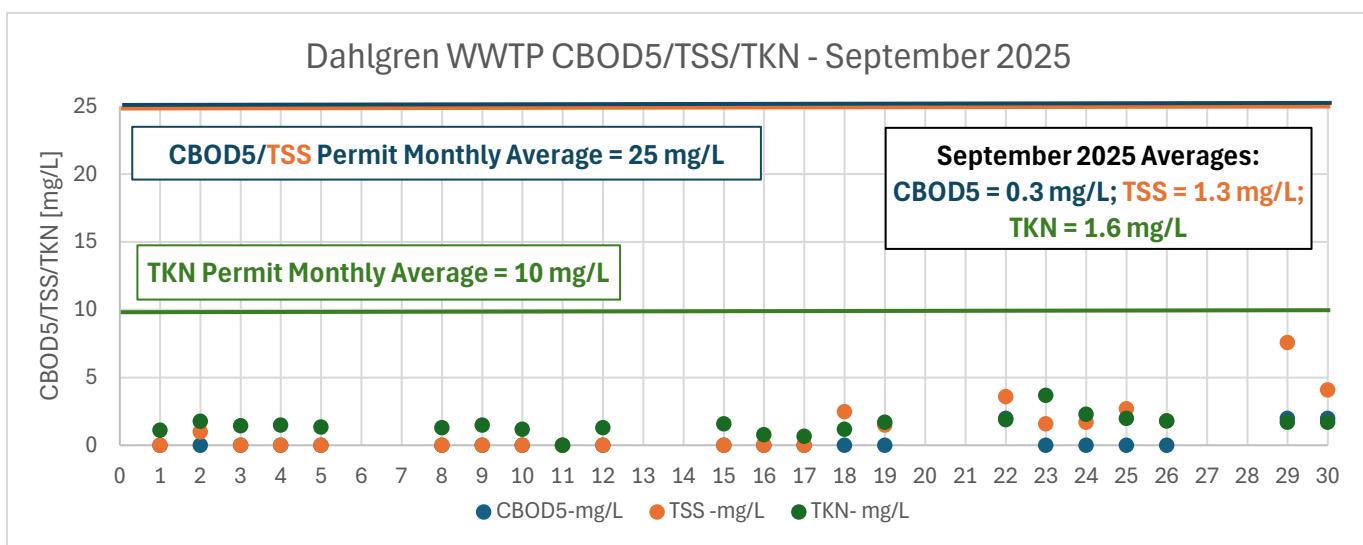
The wastewater treatment facility maintained compliance with all permit-required sampling.

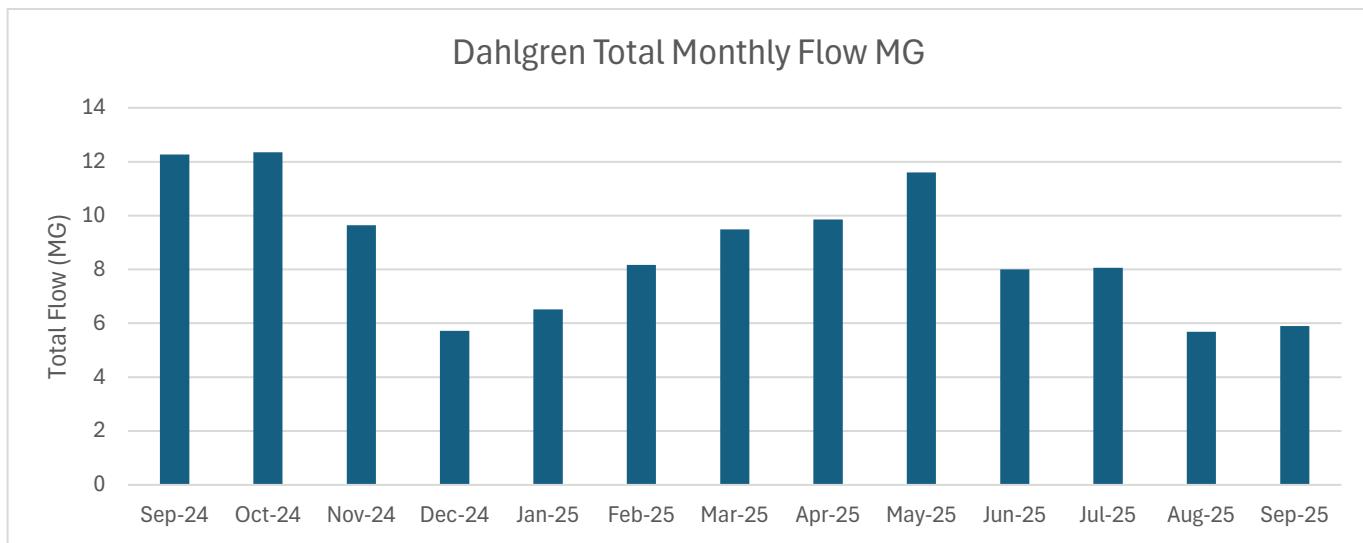
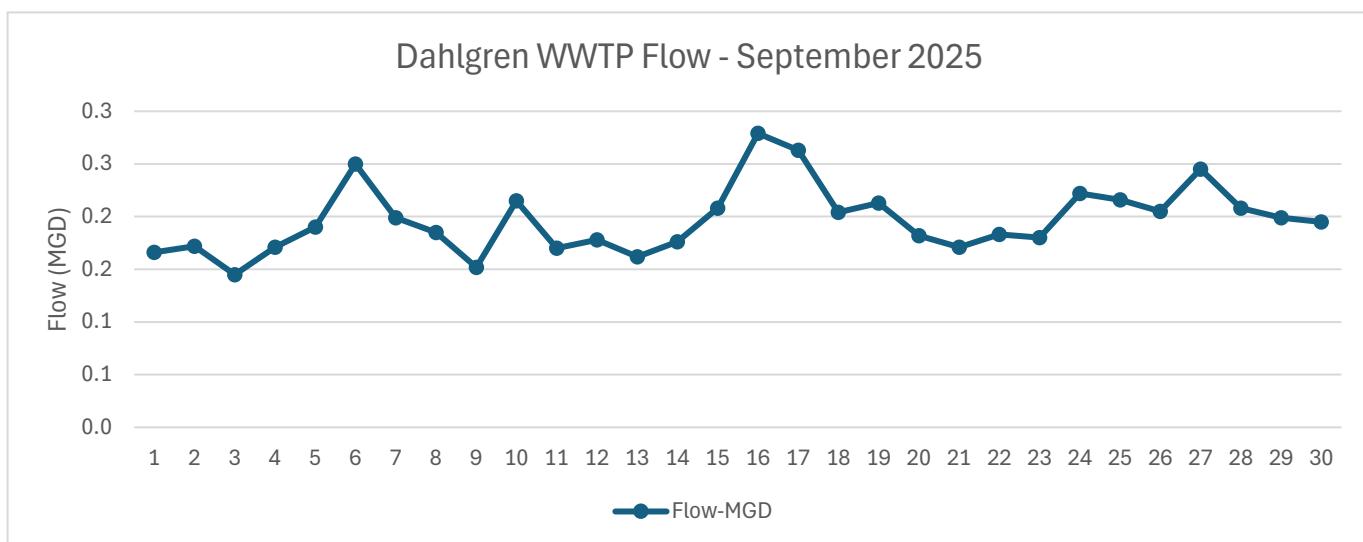
Wastewater Treatment:

The Dahlgren WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.197 MGD for a total monthly discharge of 5.904 MG.

Data Trending:

The following charts depict a graphical analysis of effluent quality monitoring and treatment plant daily and total monthly flows.





Hopyard Farms WWTP

Effluent Quality:

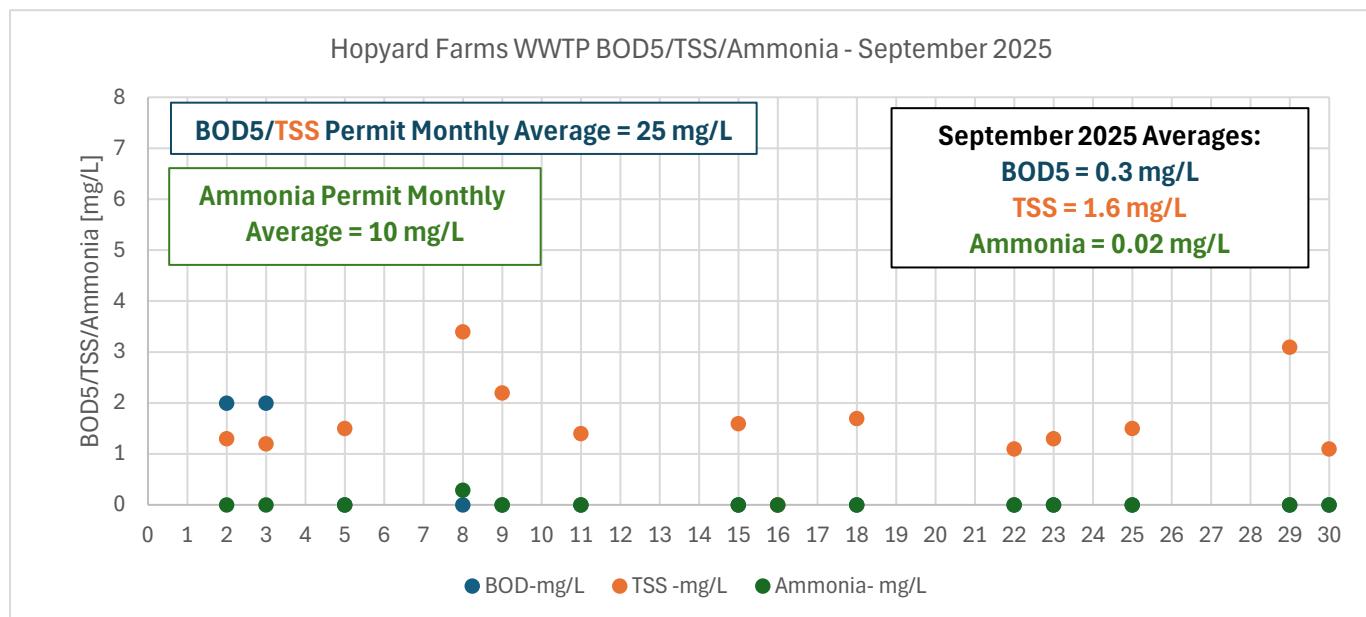
The wastewater treatment facility maintained compliance with all permit-required sampling.

Wastewater Treatment:

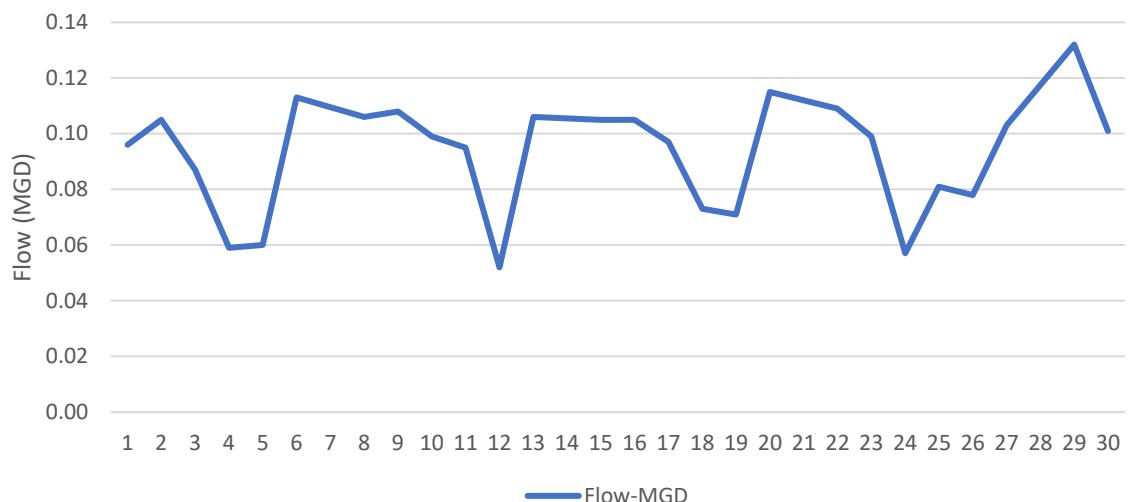
The Hopyard Farms WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.093 MGD for a total monthly discharge of 2.412 MG (26 days with flow).

Data Trending:

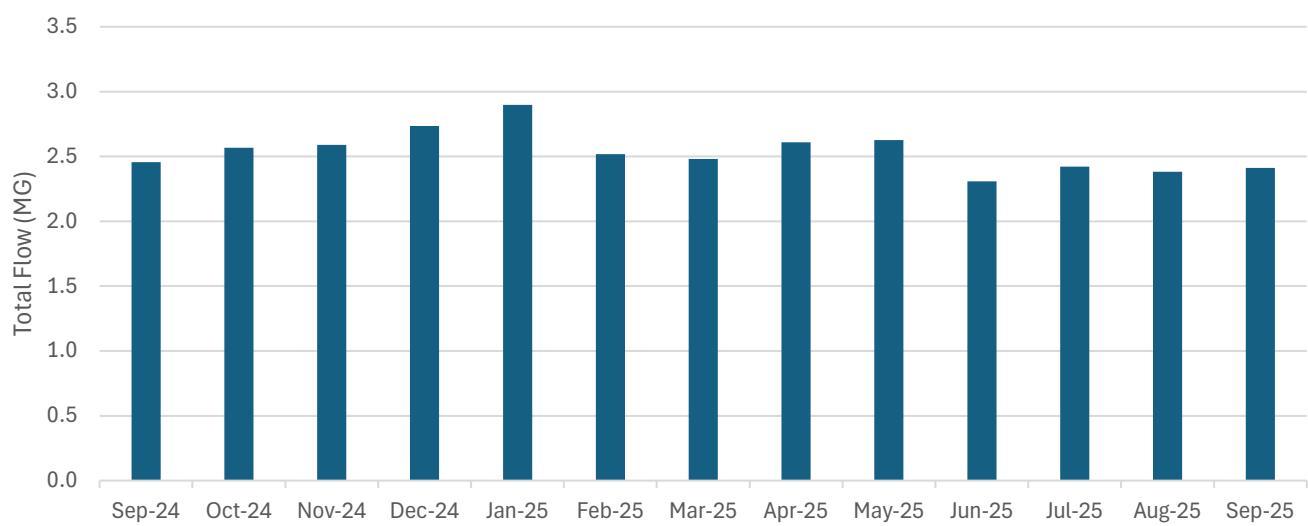
The following charts depict a graphical analysis of effluent quality monitoring and treatment plant daily and total monthly flows.



Hopyard WWTP Flow - September 2025



Hopyard Farms Monthly Flow MG



Purkins Corner WWTP

Effluent Quality:

The wastewater treatment facility maintained compliance with all permit-required sampling. E. coli and TSS exceedances were noted as explained below.

Wastewater Treatment:

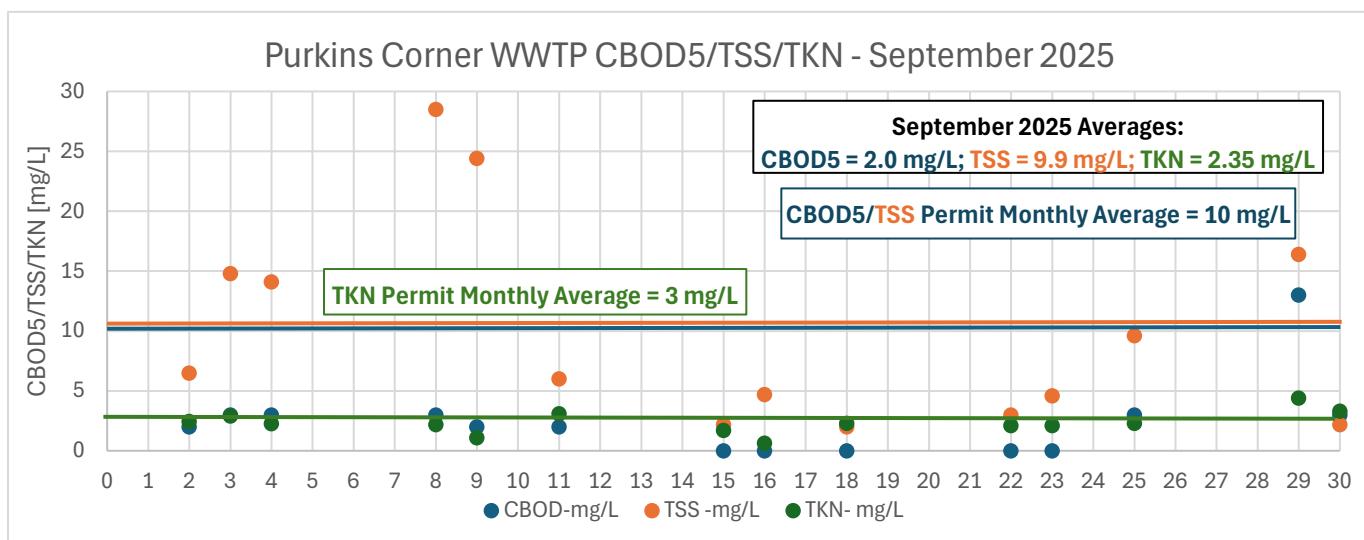
The Purkins Corner WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.063 MGD for a total monthly discharge of 1.885 MG.

Exceedance Details:

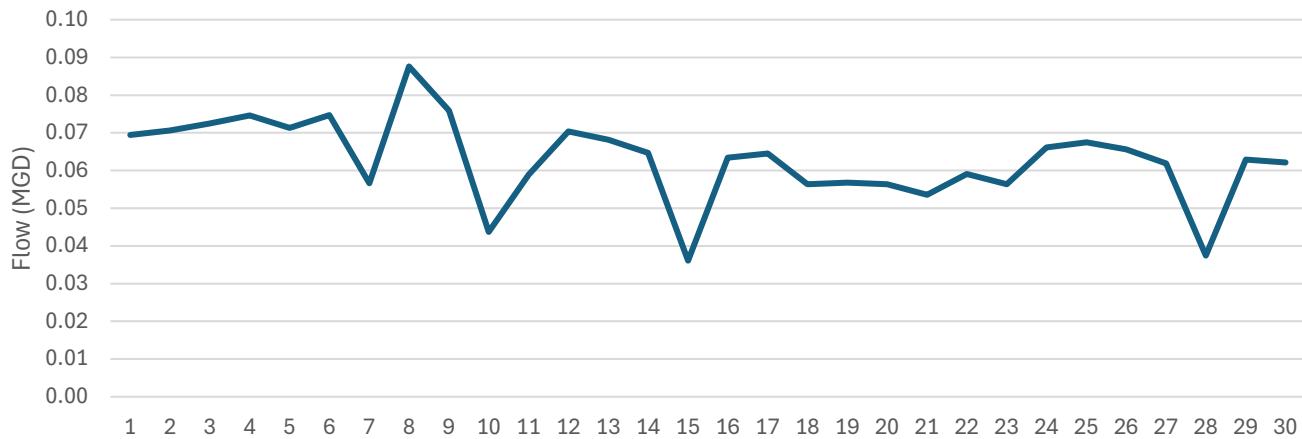
During this monitoring period, the facility experienced elevated E. coli concentrations, which brought the geometric mean to 229n/CML, exceeding the permit limit of 126n/CML. Additionally, TSS the weekly average for the week of September 7th exceeded the permit limit of 15mg/L, with 19.6mg/L. Upon investigation, it is believed the cause of the elevated E. coli concentrations was the daily cleaning of the effluent channel being conducted immediately prior to sample collection. To prevent future occurrences, the operator has been instructed to avoid cleaning the effluent trough immediately prior to sample collection. This measure ensures that sampling reflects true effluent conditions.

Data Trending:

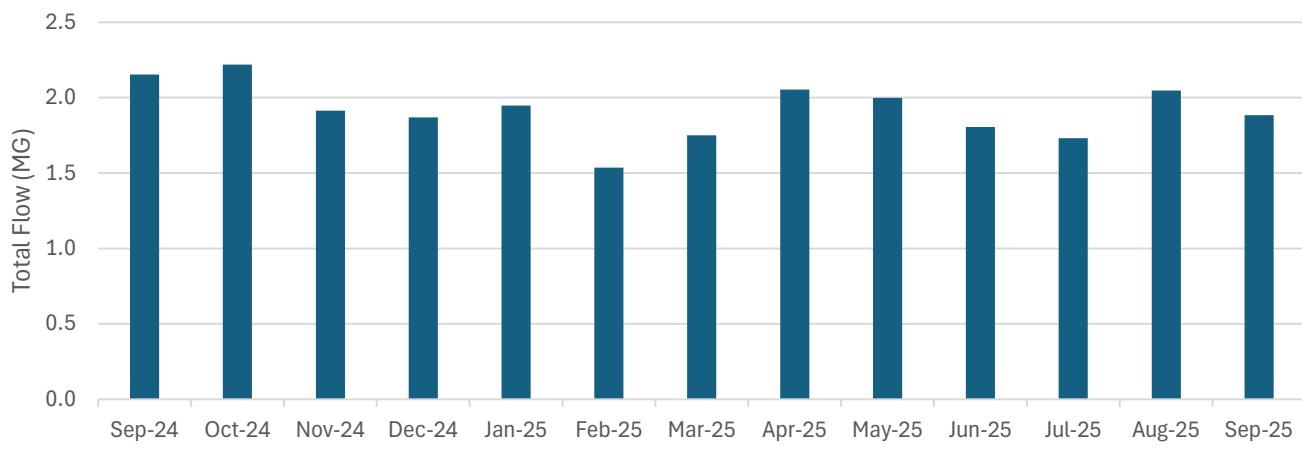
The following charts depict a graphical analysis of effluent quality monitoring and treatment plant daily and total monthly flows.



Purkins Corner WWTP Flow - September 2025



Purkins Corner Monthly Flow MG



Oakland Park WWTP

Effluent Quality:

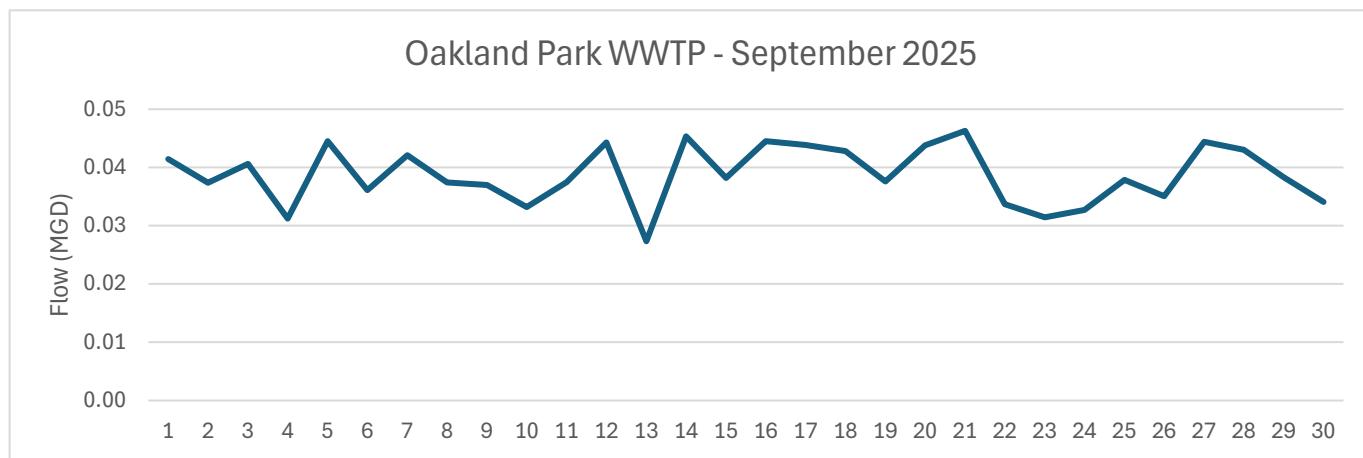
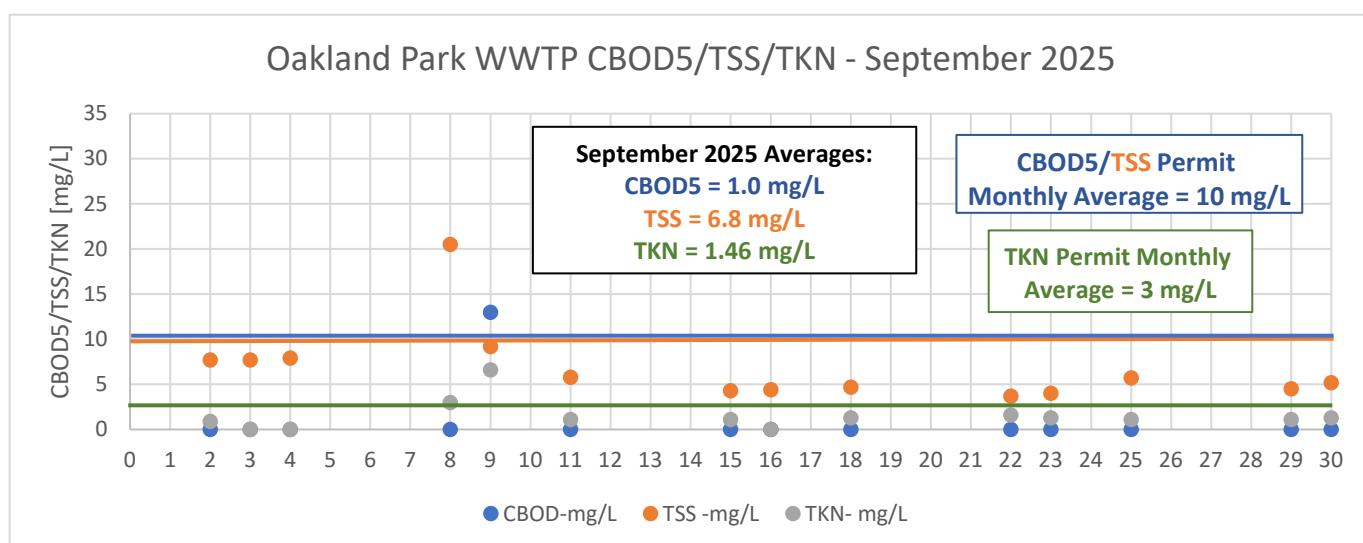
The wastewater treatment facility maintained compliance with all permit-required sampling.

Wastewater Treatment:

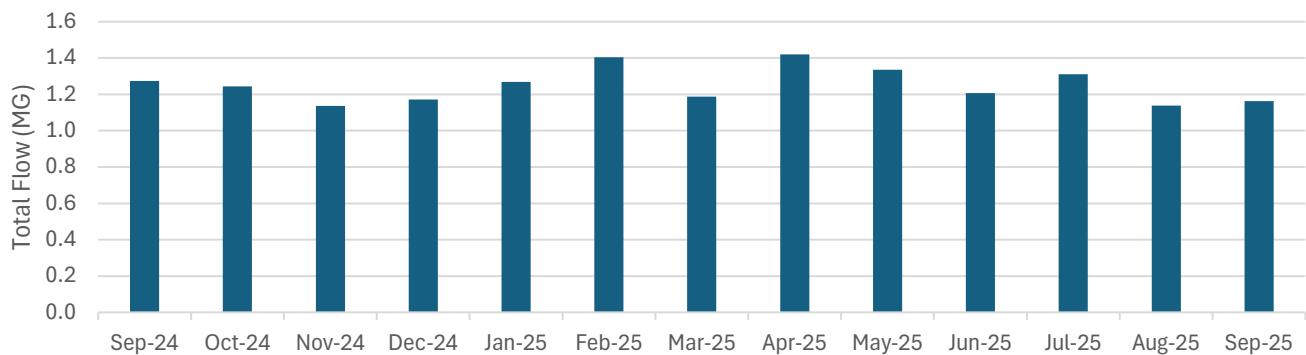
The Oakland Park WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.039 MGD for a total monthly discharge of 1.163 MG.

Data Trending:

The following charts depict a graphical analysis of effluent quality monitoring and treatment plant daily and total monthly flows.



Oakland Park Total Monthly Flow MG



Fairview Beach WWTP

Effluent Quality:

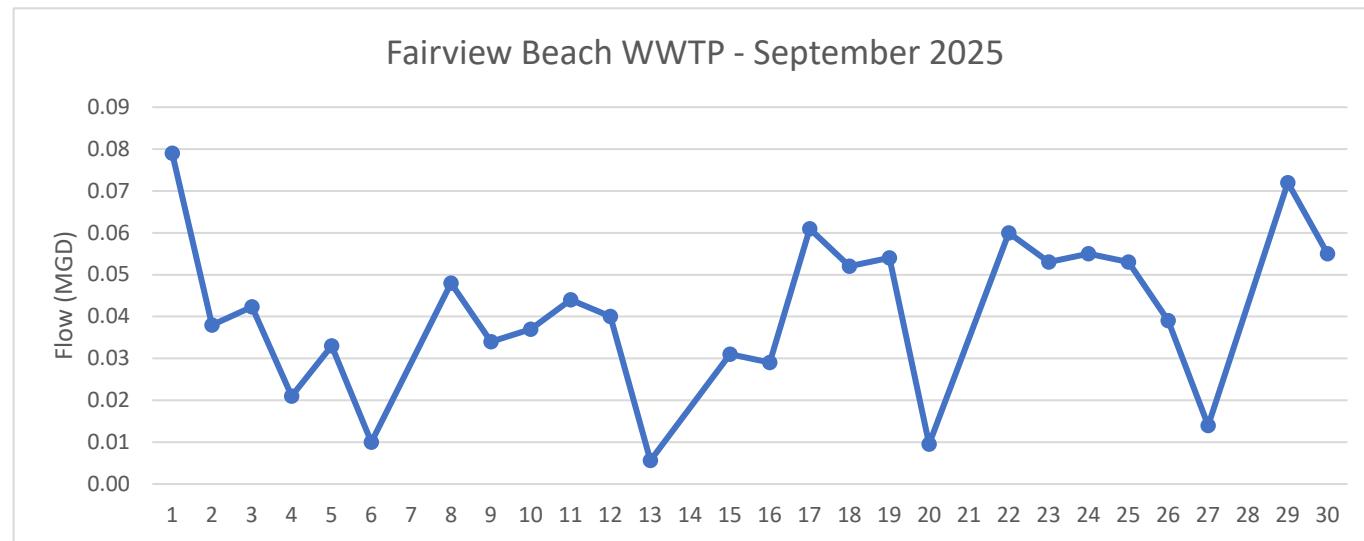
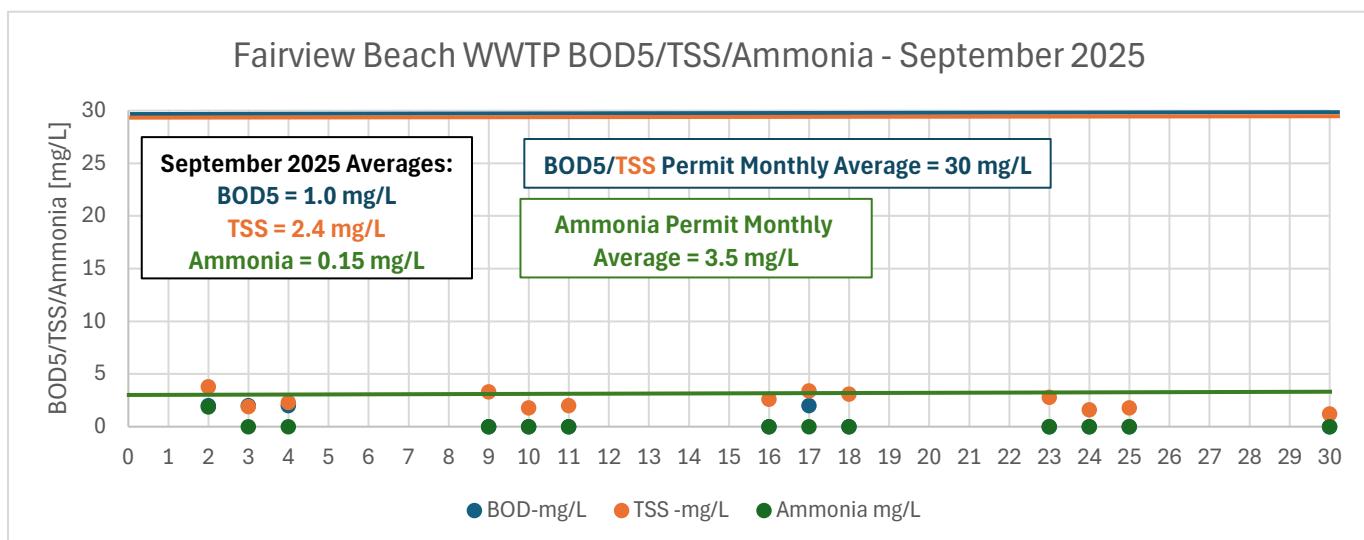
The wastewater treatment facility maintained compliance with all permit-required sampling.

Wastewater Treatment:

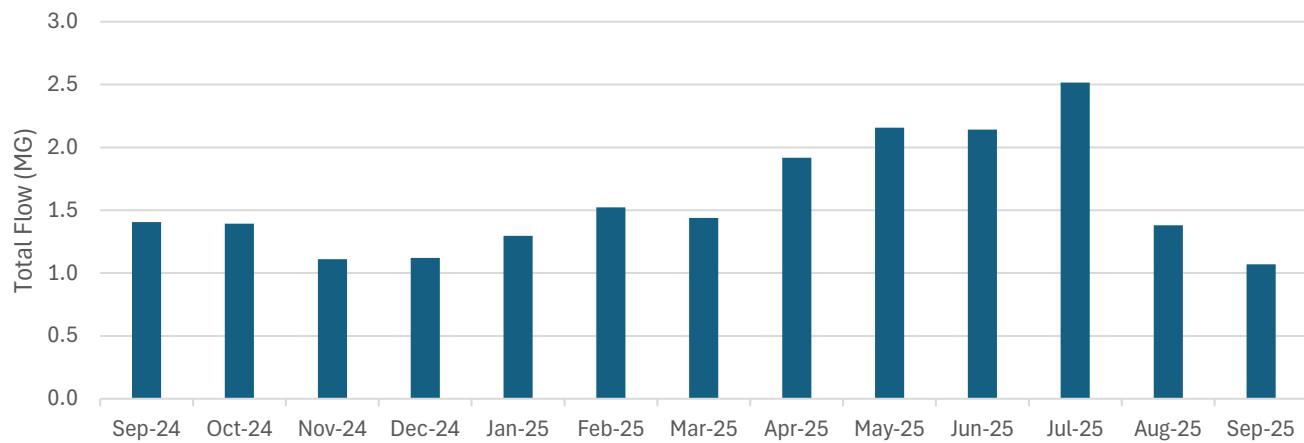
The Fairview Beach WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.041 MGD for a total monthly discharge of 1.069 MG (26 days with flow).

Data Trending:

The following charts depict a graphical analysis of effluent quality monitoring and treatment plant daily and total monthly flows.



Fairview Beach Total Monthly Flow MG



Glossary

Bacteria	E.coli and/or Total Coliform
BOD5	5-day Biochemical Oxygen Demand
CBOD	Carbonaceous Biochemical Oxygen Demand
cfu	colony forming unit
CIP	Capital Improvement Plan or Cast/cleaned-in-place
Cl	Chloride Ion
Cl2	Chlorine
CMF	Continuous Membrane Filtration?
D.O.	Dissolved Oxygen
F/M ratio	Food to Microorganism ratio
FOG	Fats, Oil and Grease
GST	Ground Storage Tank
HWTP	Harmony Water Treatment Plant
I&I	Infiltration and Inflow
Inorganic Nitrogen	Nitrate + Nitrite
LS	Lift Station
mg/L	Milligrams per Liter
MGD	Million Gallons Per Day
mL	Milliliters
MLSS	Mixed Liquor Suspended Solids
MLVSS	Mixed Liquor Volatile Suspended Solids
MPN	Most Probable Number -bacteriological well sample
MW	Monitoring Well
N/N	Nitrate/Nitrite
Organic Nitrogen	TKN
P/A	Presence/Absence- bacteriological samples for drinking water
PFAS	polyfluoroalkyl substances
PLC	Programmable Logic Controller
POE	Point of Entry
RAS	Return Activated Sludge
SCADA	Supervisory Control and Data Acquisition
STEP	Septic Tank Effluent Pump
TKN	Total Kjeldahl Nitrogen
TN	Total Nitrogen
TP	Total Phosphorous
TR-6	Copper sequestering chemical for wastewater
TSS	Total Suspended Solids
UV	Ultraviolet Light
WTP	Water Treatment Plant
WWTP	Wastewater Treatment Plant