

UTILITY REPORT



FEBRUARY 2025

Town of Bowling Green, VA

Authored by:

Inboden Environmental Services, Inc.



WATER

Water Quality

The treatment facilities and distribution system maintained compliance with all required sampling.

Bacteriological Analysis:

Location	Date	Result
050 – Dr. Hylton’s Office	2/18/2025	Absent
020 – Pizza Hut	2/18/2025	Absent

Water Treatment

The water treatment plant met the Town’s water demand with a total monthly well yield of 4.697 MG for an average daily production rate of 0.167 MGD.

Operational Notes:

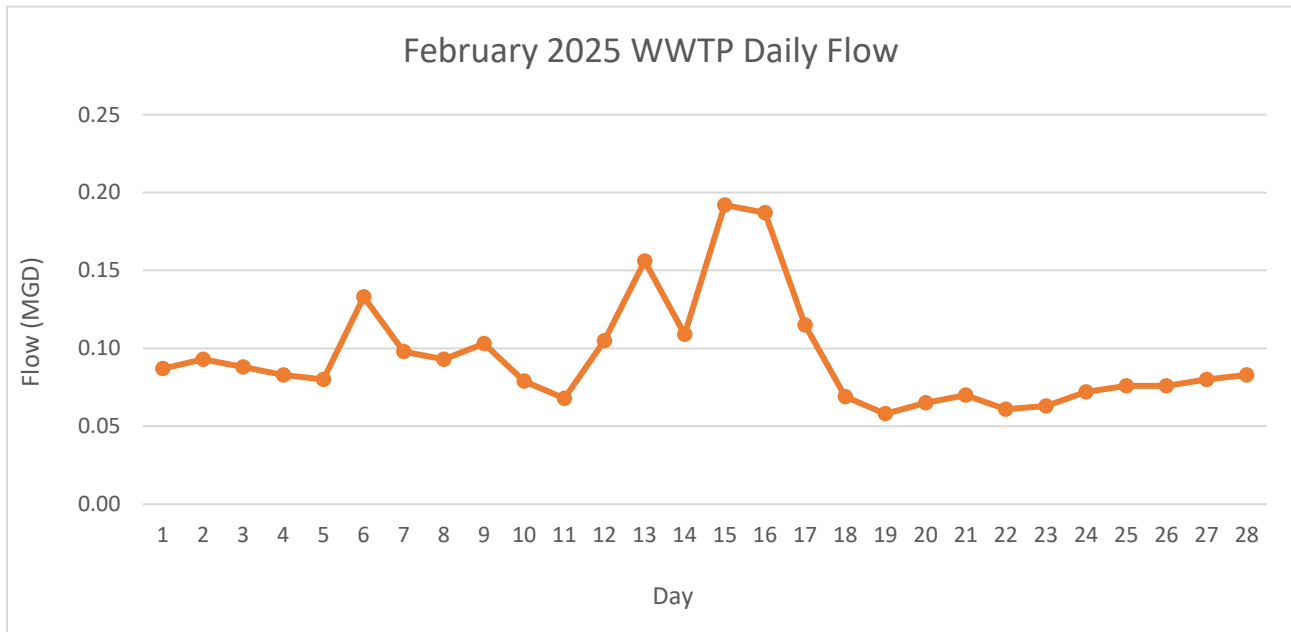
Treatment plants were visited, and an analysis of water quality was performed every day.

- Effectively dosing sodium hypochlorite for proper disinfection for drinking water.
- All P/A samples collected and passed.
- Monthly report sent to VDH successfully.
- VDH inspected all three wells and the elevated tower by the VDOT compound location.
- A quote for transducers to monitor the water level within the wells has been requested.

WASTEWATER

Wastewater Treatment

The wastewater treatment plant had an average daily flow of 0.094 MGD for a total monthly effluent discharge of 2.642 MG.

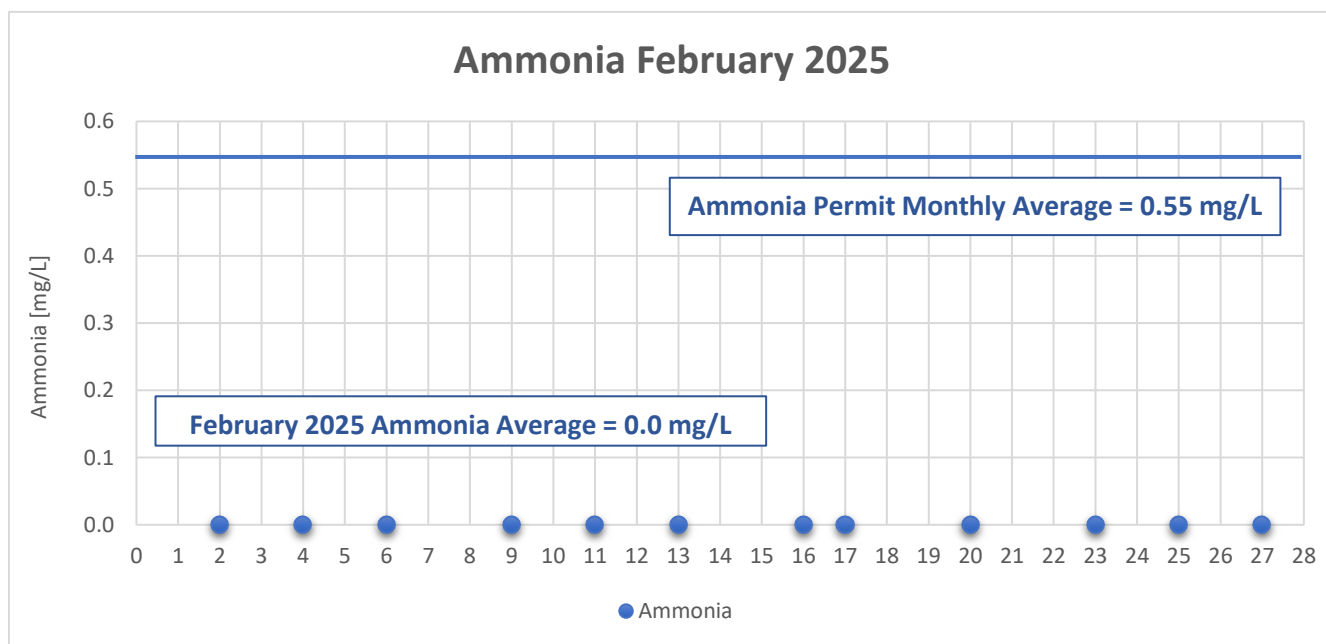
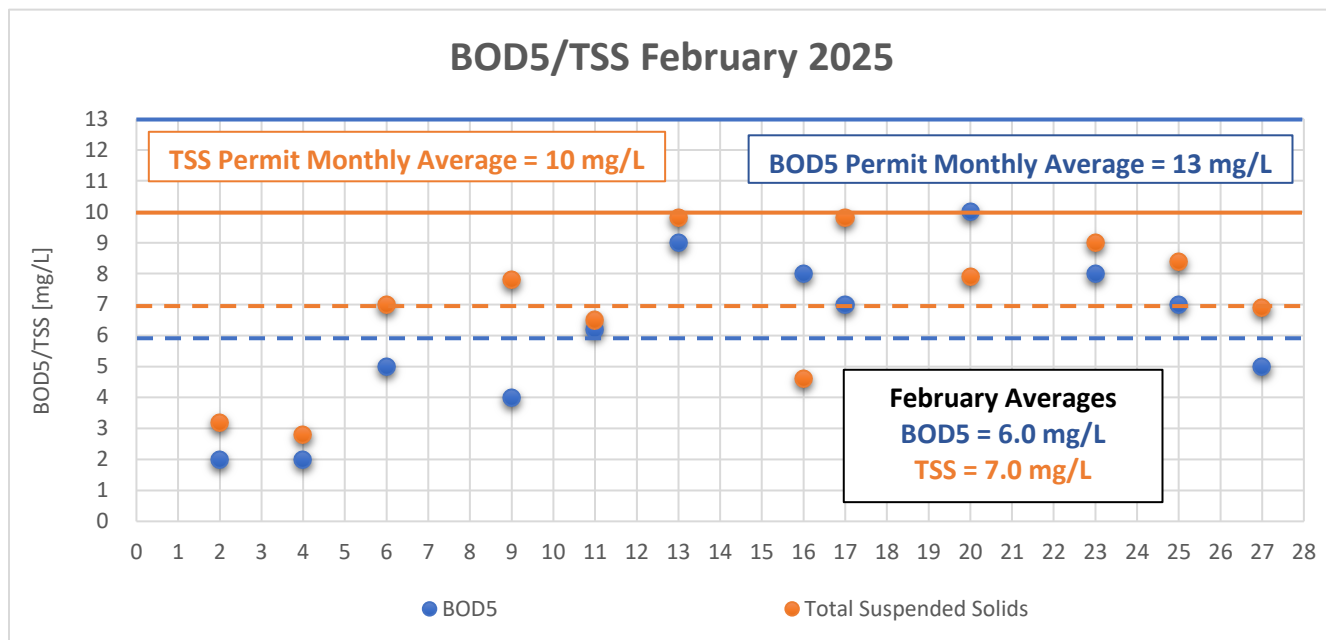


Operational Notes:

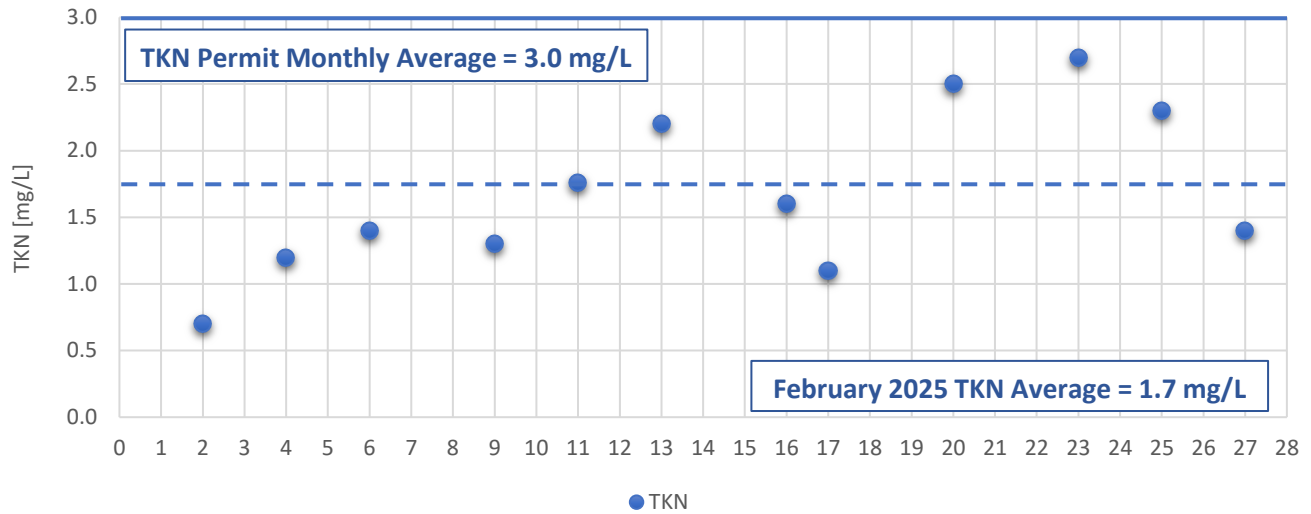
BOD, TSS, Ammonia, TKN, and E. Coli samples were collected in compliance with the WWTP permit.

- Effectively managing solids inventory.
- There were water quality changes noticed in the supernatant. Possible causes are being investigated.
- Recommended the use of a tiller to help aerate and “fluff” the sand to potentially allow for more effective and efficient dewatering capabilities.
- Sand filter air gauge began leaking. Maintenance contractor repaired it.
- Continuing to haul liquid sludge as effectively and efficiently as possible.
- IES provided services to investigate and assess the condition of the sewer pipe on Main Street from the Guns and Ammo store to Chase Street. The final assessment was found that the sewer line is indeed collapsed and the full length to Chase street needs to be repaired.

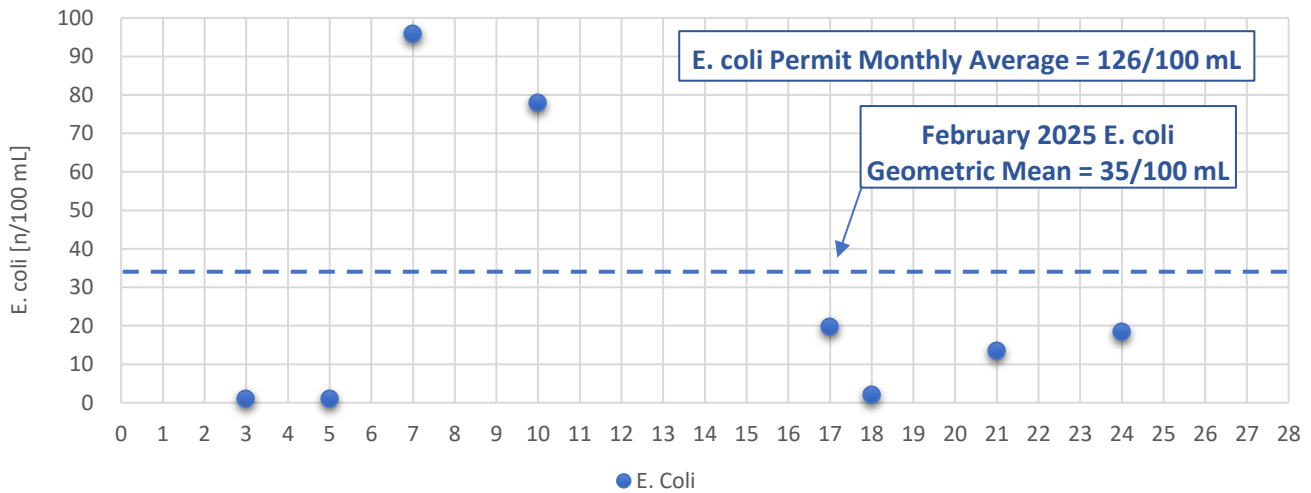
Sample Results:



TKN February 2025



E. coli February 2025



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