



2025

ANNUAL REPORT

GLOVERSVILLE-JOHNSTOWN JOINT WASTEWATER TREATMENT FACILITY



2025 Joint Sewer Board
Christopher Vose, Chairman
Bobbi Trudel
Eric Parker
Michael W. Stover
John Rizzo
Deanna Hitchcock



2025 ANNUAL REPORT

The 2025 Annual Report highlights the significant projects completed at the Gloversville-Johnstown Joint Wastewater Treatment Facility (GJJWTF). Routine assignments such as tank cleaning, instrument calibration, laboratory analysis, sample collection, general maintenance and upkeep, while important, are not identified in this report. General statistics are included to illustrate additional activities at the facility.

O & M expenditures totaled \$5.52 million for 2025. The adopted budget was \$6.43 million, which includes \$225 thousand in capital funds for new International Dump Truck. Fund Balance at year's end was \$892,065.

Electrical Synopsis:

Generated	6,157,079 kilowatt hours (↑) - 276% (Cogens returned to service)
Purchased	244,426 kilowatt hours (↓) - 92% \$77,951 (\$0.32) (↑) - 475%
Sold	1,238,874 kilowatt hours (↑) - 304% \$ 80,075 (\$0.06) (↑) - 155%

Cogens historically produced all GJJWTF's electrical power needs and sold excess power.

O & M revenues totaled \$5.91 million during 2025. The Industrial contribution was 50.08%, Residential 29.84% and Trucked/Pumped waste 20.08%. The industrial sewer effective rate increased by 3.0% while residential rate increased by 3.8%. Use of \$470,000 from the Rate Stabilization Reserve Fund helped to minimize the rate increase.

Belt Filter Presses operated 3,640 hours producing 18,286 wet tons of sludge. Fulton County Department of Solid Waste received \$621,877 to accept the sludge.

The Dairy Industry accounted for 50.91% of the total O&M revenue collected. Combined, FAGE USA Dairy Industry, Inc. and Euphrates Inc. pumped a total of **29.3 million** gallons of whey to the Anaerobic Digester and **222.2 million** gallons of washwater to the Contact Adsorption Settling Thickening (CAST) system for processing via two dedicated pipelines.

The foundation of GJJWTF's success is the support of the Gloversville-Johnstown Joint Sewer Board (GJJSB) and the work of its twenty-eight (28) employees. The conscientious efforts by all GJJWTF employees on days, nights, weekends, holidays, during severe weather, and often in an inhospitable environment, the facility continues to operate and meet its wastewater discharge SPDES permit requirements.

Employee names (as of 12/31/25) are:

Daniel Ashcroft	Matthew Handy	John Samples
Harry Brand	Ronald Horton	Adrienne Slade
Steven Burns	Reuben Kennedy	Brandon Smith
Owen Chizek	Ty Leonard	Michael VanAlstyne
Ian Colvin Marincic	Mark Levendusky	Christopher VanAuken
Lacie Folts	Martin Mammarelli	Christian Walters
Bruce Gardner	Tyler Pettit	Jenna Ward
Darleen Gaugler	Derek Ricciardi	Robert Yaggle
Kenneth Gifford	Hilary Ruzycky	
Haleigh Grubb	Victor Rzesos (Disability since 7/25/25 – non-work related)	

PERSONNEL

2025 Joint Sewer Board Members

- Chair - Christopher Vose
- Vice Chair – Bobbi Trudel
- Secretary – Eric Parker
- Board members – Michael Stover, John Rizzo and Deanna Hitchcock

Licensed Operators

One (1) NYSDEC Grade 4A licensed Chief Operator
 Two (2) NYSDEC Grade 3A licensed Wastewater Treatment Operators

New Hires

Anthony Bartlett, WWTP Operator Trainee
 Andrew Walrath, WWTP Maintenance Mechanic
 Brandon Smith, WWTP Operator Trainee
 Martin Mammarelli, WWTP Operator Trainee
 Derek Ricciardi, WWTP Maintenance Mechanic
 Jenna Ward, Laboratory Technician

Left Employment

Anthony Bartlett, WWTP Operator Trainee
 Andrew Walrath, WWTP Maintenance Mechanic
 Aaron Tubbs, WWTP Operator Trainee
 Richard Pedrick, WWTP Operator

Retirements

Barbara Allen, Laboratory Technician

Sick Days

Four (4) employees utilized one (1) sick day or less during 2025. The names of those employees are as follows:

Christopher VanAuken (0-days)	Harry Brand	Bruce Gardner
Robert Yaggle		

Work Related Injuries

In 2025 the facility experienced three (3) reportable injuries, two (2) of which resulted in Lost Time.

- An Employee fell while cleaning the Belt Presses, twisting his knee requiring it to be immobilized and restricting duty.
- An Employee fell while descending the stairs in the Sludge Building, resulting in a strained back, requiring his removal from duty.

NYSDEC Compliance

- January 15, 2025, the facility experienced an Effluent Total Copper permit exceedance, with a concentration result of 18 micrograms/liter, while the limit is 17 micrograms/liter.
- January 26, 2025, the facility experienced an Effluent composite sampler malfunction, resulting in insufficient sample to conduct the required effluent analysis (CBOD, TSS & TKN)
- April 9, 2025, the facility experienced an Effluent Total Copper permit exceedance, with a concentration result of 18 micrograms/liter, while the limit is 17 micrograms/liter.
- March 6, 2025, the facility experienced an Effluent Cyanide, Free permit exceedance, with a concentration result of 7.1 micrograms/liter, while the limit is 6.6 micrograms/liter, and pounds per day with 0.58 lbs/day result, while the limit is 0.55 lbs/day.
- June 6, 2025, the facility issued a NY-Alert for a surging Manhole (MH100) on the corner of Mason St. and N. Market St, during an extreme wet weather event.
- June 12, 2025, the facility issued a NY-Alert for a Forced Whey Line leak on Venture Ave which supports FAGE, whey flow was secured and the leak was repaired.
- July 23, 2025, the facility received the WET analysis report for the test period 7/8/25 – 7/15/25, the lab report indicates our TUc(IC25repro) = 4.29 for Freshwater Invertebrate, Ceriodaphnia Dubia; the permit Action Level is 1.3 for the period June – August. Email notification was made to NYSDEC which included the report. NYSDEC has indicated no further action at this time, but following a complete review of the report, the facility may be required to conduct additional WET testing
- August 13, 2025 the facility received the WET analysis report for the test period 8/5/25 – 8/11/25, the lab report indicates our TUc(IC25repro) = 21.2 for Freshwater Invertebrate, Ceriodaphnia Dubia; the permit Action Level is 1.3 for the period June – August. Email notification was made to NYSDEC which included the report. NYSDEC has indicated no further action at this time, but following a complete review of the report, the facility may be required to conduct additional WET testing
- August 4, 2025, the facility experienced an Effluent Total Copper permit exceedance, with a concentration result of 30 micrograms/liter, while the limit is 17 micrograms/liter.
- October 31, 2025, the facility failed to perform Mercury sample in the DMR reporting period of August – October, which does not coincide with the SPDES Permit seasonal quarters, resulting in a Notice of Violation.
- December 16, 2025, received notification from NYSDEC indicating that an additional year of Chronic testing using only the more sensitive invertebrate species is required at Outfall 001 due to the July & August 2025 test failure. The required testing must occur in the months of June, July, August, September and October.

Odor Complaints

Four (4) odor complaints were received in 2025

- April 28, 2025 @ 7:37 pm, complaint made to the facility by a resident living near the Sammonsville Fire Department on Route 67, Johnstown. No specific source of the odor was identified. Odor subsided around 10:30 pm.
- June 25, 2025 @ 9:20 pm, complaint made to the facility by a S. Melcher Street, Johnstown city resident. Odors occurred following heavy rain events causing an excessive amount of leachate received from the landfill, but no specific source could be identified.
- August 13, 2025 @ 9:08 pm, complaint made to the facility by a S. Melcher Street, Johnstown city resident. No specific source of the odor was identified.
- October 15, 2025 @ 8:06 am, complaint was from Benjamin Moore & Co, located approximately ¼ mile from the facility, the complaint was made to the EHSS Manager by an employee on 2nd shift between 2:00 and 10:00 pm, no further information was provided. No specific source of the odor was identified.

New Septic Haulers

RMMI,LLC dba Spa Septic Tank Co.
Rentals to Go

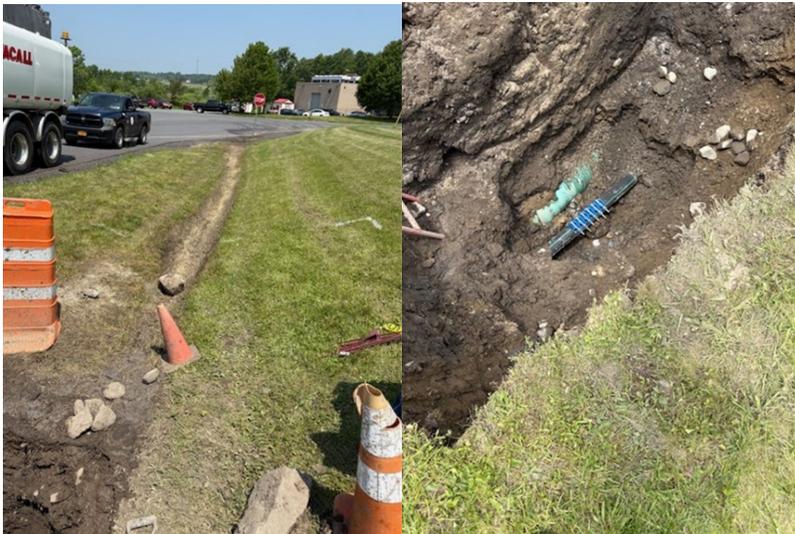
FOIL Request

None

OPERATIONS AND MAINTENANCE

- 1) Continued to work through the historical problem of the process control fiber communication network (SCADA) lack of reliability and limited records. General Control Systems has completed a complete network review and produced a network diagram documenting the current SCADA Network arrangement, awaiting a proposal to upgrade current network switches to establish a virtual ring bus and isolate the Wi-Fi network from the controls network.
- 2) March 29, 2025, Cogen #1 experienced a major Exciter failure, resulting in the replacement of the Exciter and Permanent Magnate Generator (PMG). During the Exciter replacement it was noted that the Generator keyway was worn, a temporary repair was completed on the keyway, to be addressed at next Out of Frame Overhaul.
- 3) On May 18, 2025, Johnstown Fire Department responded to the facility at 2 A.M. The fire department completed a full review of the site and confirmed that it was a false alarm, facility staff disabled the Blower Building, which was still in alarm and not resetting, to prevent further calls. Fault was found in DAFT Building. Replaced the heat detector in DAFT Building. System is back to normal operation except for a fault on rooftop strobe that is still under investigation.
- 4) May 2025, Siemens air scrubber taken out of service for full cleaning and replacement of scrubber media. pH probe replaced and installed new pressure gauges. System is back in service. The cleaning and media replacement immediately resulted in the air quality to be greatly improved in the Gravity Belt Thickener Room, which it supports.

- 5) June 12, 2025, Facility with support from Johnstown DPW excavated the FAGE Forced Whey Line to complete a repair of the 4-inch HDPE line, which failed resulting in a Whey leak. Temporary repair made with clamp on the day leak was identified and permanent repair completed the next day.



- 6) June 19, 2025, The lighting transformer that supports the entire Sludge Building failed and required replacement to restore all low voltage supply to the building. High Voltage Electrical Service was contracted to complete the emergency replacement. To meet current electrical code a new transformer was installed external to the electrical switchgear and required the installation of two fused disconnects, all work completed and electrical service restored to the Sludge Building.
- 7) June 26, 2025, Facility worked with Precision Industrial to conduct camera inspection of the Trunkline in the area of Man-Hole #100 which experienced a surge during a wet weather event, inspection found significant root obstruction in the line down stream of MH#100, which is the likely cause of the surge of MH#100. Jetting is being scheduled to remove root obstruction.



- 8) July, 2025, Cogen #3 has historically had issues with water jacket temperature during the summer period, which needed to be investigated. Investigation found that the Jacket Water thermocouple was not properly installed, it was backed out years prior to help with temperature issue. While properly installing the Jacket Water thermocouple checked it for proper operation, determining it required replacement and replacing it. CAT recommended that the secondary loop thermostats be changed to 210 F from 230 F, ordered and installed new 210-degree thermostats for the secondary loop. Opened the primary loop thermostat to confirm thermostats were removed, as believed. Found all four installed, and severely damaged, removed damaged thermostats. Operated Cogen #3 at full load and found all temperatures are in normal range. Will order the required parts to support conducting the same for Cogen #1 and #2.
- 9) August 26, 2025, Facility worked with Precision Industrial to conduct jetting of the Trunk Line between MH#100 & MH#99, once Precision acquired a new carriage to support the jet to efficiently remove the root structure in the large diameter line.



- 10) September 15, 2025- The Sulfatreat H₂S Scrubber was taken offline for media replacement. The vessel was isolated, vented off and filled with water to soak for at least 24hrs prior to cover removal per OEM procedures. The spent media was removed with support of Precision Industrial. Millers Crane was on site to load 24 bags of media (approx. 790cu/ft) to the vessel, once placed in service H₂S readings post Sulfur Treat were 0.0.

11) October 16, 2025, Cogen #1 experienced a second major Exciter failure, with the same failure mode as the March failure. Decision made to remove Cogen #1 and send out for a complete Generator inspection and repair, and Engine Main Bearing change out. Generator inspection found the Generator Rotor had unacceptable runout, which would have resulted in excessive vibration and likely resulted in the Exciter Failure. Cogen #1 is anticipated to be returned to site in late January 2026.



12) October 22, 2025 – Prime Automation on site to investigate the connection between opening 52-GM and shutting down Cogen #3, investigation found old logic still in place where 52-GM is an input to the Master Shutdown which shuts down all Cogen engines. This logic was revised and now if 52-GM opens it shuts down Cogen # 1 & 2, and 52-G3M if opened will shut down Cogen #3.

13) November 21, 2025, High Voltage Electric Services & National Grid on site to install High Side (69 kV) Metering Potential Transformers (PTs) & Current Transformers (CTs) as required per National Grid metering standards and complete the High Accident restoration project. The installation also required installation of a new bridge in the high yard structure. To support this work, the National Grid Utility line was required to be taken out of service and facility Cogens secured. The facility power requirements were supported by the two EDGs, back feeding the plant from the 650kw EDG. It was discovered that when back feeding, the diesel generator had to be taken out of "auto" and put in "run" because the generator could not distinguish its power from the grids, in auto the ABT attempted to transfer to normal utility power.



14) November 24, 2025 - Milton Cat & Woodward controls vendor (MSHS) on site to investigate Cogen #3 instability and potentially tune the engine mapping. It was determined that the throttle plate actuator servo needed to be replaced, which was suspect and a replacement was ordered prior and brought to site by Milton Cat. The actuator was replaced and Cogen #3 was returned to service. The engine seems to run smoother and synchronized very quickly as compared to how it has historically.

GRANTS & LOANS

At the request of NYSERDA the agreement has been amended with a termination date of 12/31/2025 and revising the Measurement & Verification (M&V) data for performance years. Working with L&S Energy Services all remaining M&V performance years have been paid per NYSERDA grant disbursement requirements.

During the amendment process it was identified that the facility never received Capacity Incentive Payment CIP 2 – 6, potentially totaling \$771,162. NYSERDA is indicating the facility failed to satisfy the 2nd CIP requirements, given NYSERDA funding was also received for upgrades made to satisfy the 2nd CIP requirement, specifically the CAST upgrade. While the agreement's termination date is 12/31/25, the agreement is being held open, as we continue to work through this issue, and have provided additional information to support the facility satisfying the CIP requirements. Currently awaiting NYSERDA feedback/determination.

NBT Bank purchased a 285-day BAN in the amount of \$1,120,000 at 3.65%, being offered by the City of Gloversville on behalf of GJJWTF to fund the Slope Stabilization Project prior to going out for Bond.

The City of Johnstown was awarded the Engineering Planning Grant No. 2305 for GJJWTF Biosolids Handling Assessment in the amount not to exceed \$50,000 for the development of the proposed engineering report, requiring matching funds of \$10,000.

COMPLIANCE MONITORING AND TESTING

Completed annual reviews of the following lab manuals:

- Laboratory Quality Manual
- Laboratory Test Method SOP Manual
- Monitoring Field Activities SOP Manual
- Administrative and Quality Procedures SOP

POTW sludge that was hauled to GJJWTF during 2025 was analyzed for T. Metals, T. Phosphorus, TKN, Ammonia and % moisture.

A BFP cake blend was sent out on 2/5/25 for a full TCLP analysis.

New QC limits for all parameters analyzed at GJJWTF were calculated in-house by lab director.

Lab continues to periodically scan industries for priority pollutants. Any pollutant listed in an industrial wastewater discharge permit will be sampled at minimum twice per year. The lab collected all the WET and microtox test samples that were required for 2025 and delivered them to the Aquatox Research lab located in Syracuse NY for testing.

Lab Director calculated the annual Minimum Detection Limits (MDL) requirement for NH₃ and dissolved Sulfide.

Laboratory staff calibrated GJJWTF's three 4-gas confined space meters monthly. Lab Director will re-zero two other H₂S meters used for process control analysis of monitoring H₂S in the digester gas.

Completed the 2025 annual NYS DOH ELAP internal laboratory audit.

NYS DOH has performed its bi-annual onsite assessment of GJJWTF's ELAP certified laboratory. The corrective actions submitted by GJJWTF addressing ELAP's findings have been accepted.

The following PT sampling results submitted during 2025 were found to be acceptable: BOD, CBOD, TSS, TKN, NH₃, Dissolved Sulfide, Settleable Solids, and Fecal Coliform.

Submitted annual DMR QA 45 to EPA. During January 2025, PT scores submitted by GJJWTF and any other subcontracted lab PT score make up an annual DMR QA study. Aquatox Research Inc. received an unacceptable PT score for: Ceriodaphnia Chronic MHSF - Reproduction IC25. Aquatox's required corrective action has been submitted and was found to be acceptable.

EPA is requiring an annual industrial Pretreatment Program Report (PPR) to replace the semiannual reporting requirement currently listed in GJJWTF's SPDES permit. The 2025 annual report is being prepared for EPA using the electronic reporting CDX platform. The Lab Director and Manager of Wastewater Programs positions will both be listed as signatories.

Annual ethics and data integrity training of all lab and monitoring personnel took place during December 2025.

Submitted Mercury Minimization Plan to NYDEC in March of 2025. This plan contains quarterly SPDES required low-level mercury analysis on plant effluent and any other activities that GJJWTF takes part in to minimize Hg from entering the treatment facility's waste stream.

All industrial and facility flow meters checked for accuracy throughout the year.

The following annual contracts have been maintained throughout 2025:

Evoqua: reagent water services

Mettler Toledo: analytical balance calibrations

TransCat: NIST thermometer verification,

Adirondack Environmental, Aquatox Research Inc.: outside lab services.

FOSS USA: FOSS care annual PM kit installation - visit with tech support.

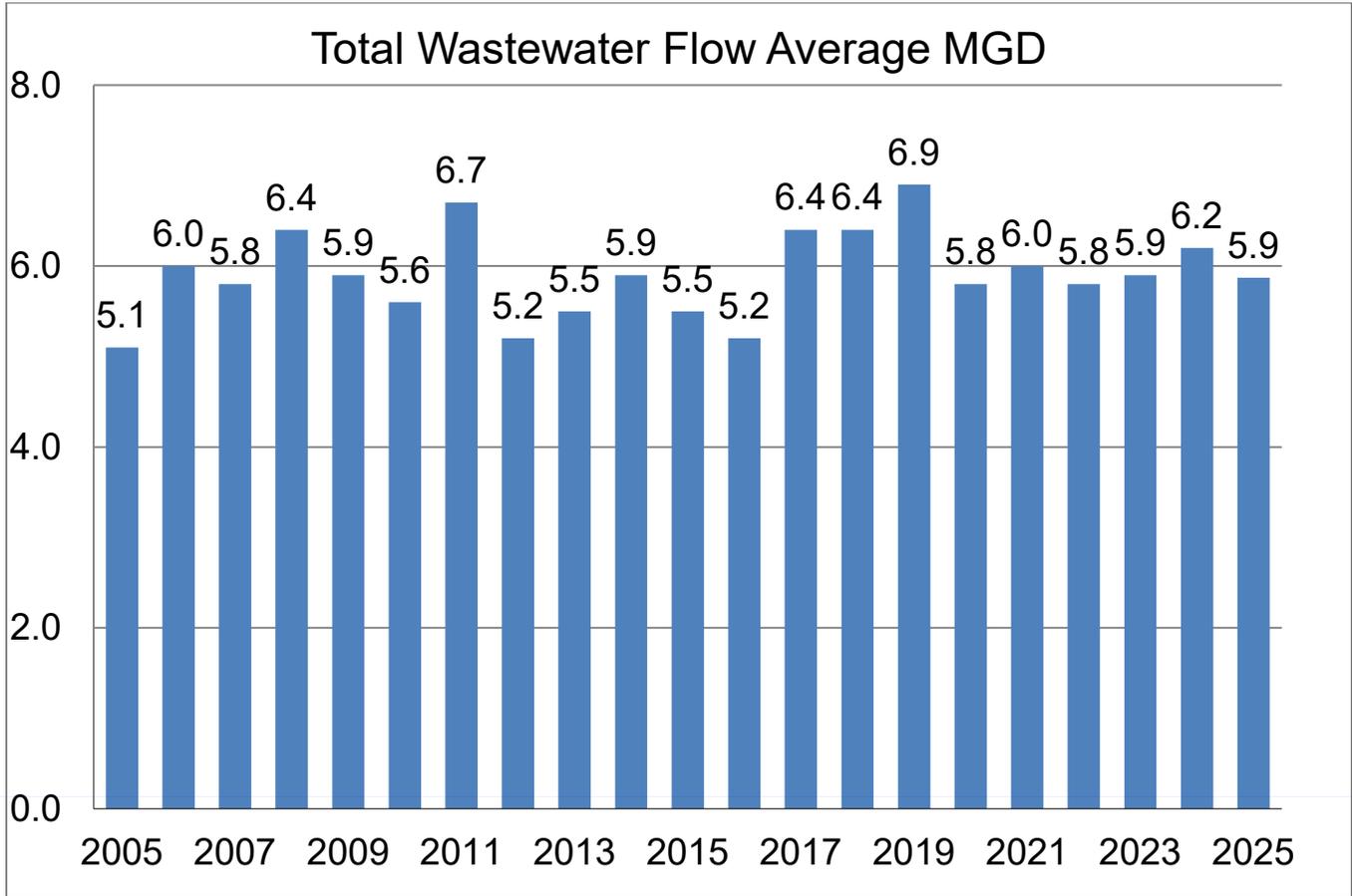
Issued permits to 10 industries in Johnstown and 9 industries in Gloversville for 2025.

Semi-annual TTO notarized responses from industries categorized as metal finishers have been received. Epimed International, Inc. and Lippert components explain in writing that to the best of their knowledge no TTO has been discharged.

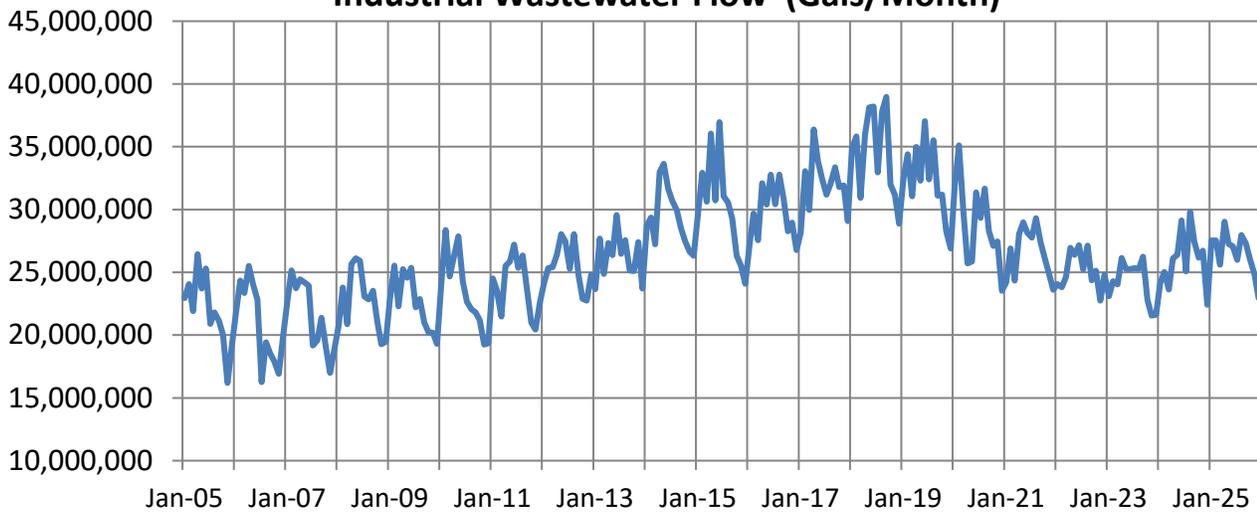
Seven Notice of Violations were issued to industries during 2025. Three industries have been identified as being in Significant Non-Compliance during 2025. As a result, GJJWTF is required to list these industries as being in SNC in the local newspaper. The Leader Herald published an industrial SNC article in January 2026.

TOTAL WASTEWATER FLOWS

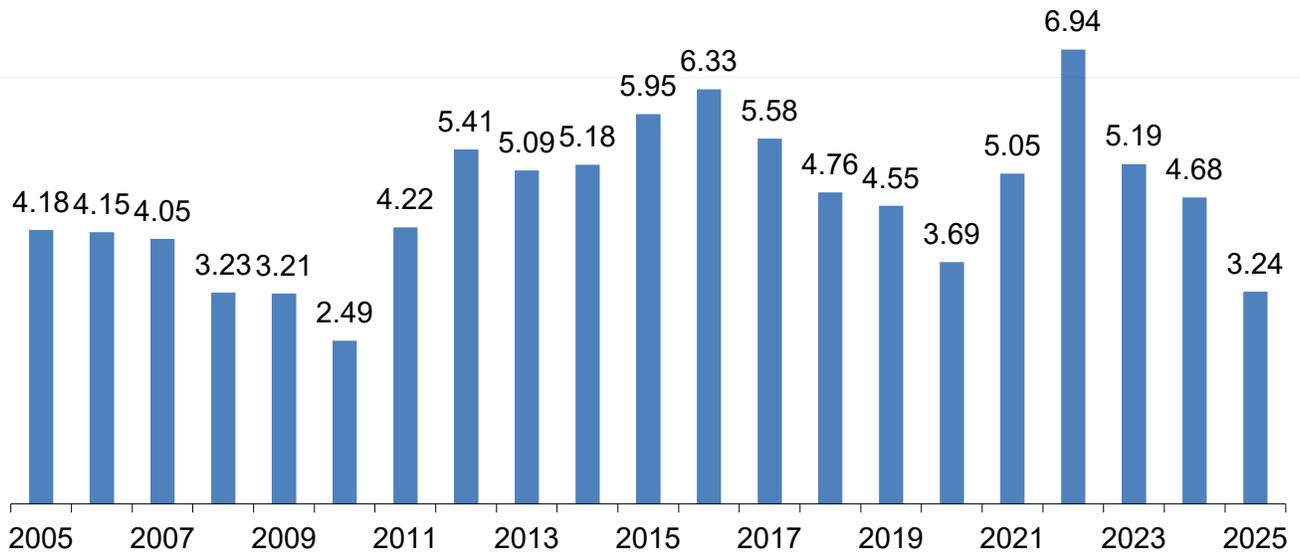
Historically, the total flow of Influent wastewater to the Plant is relatively constant.



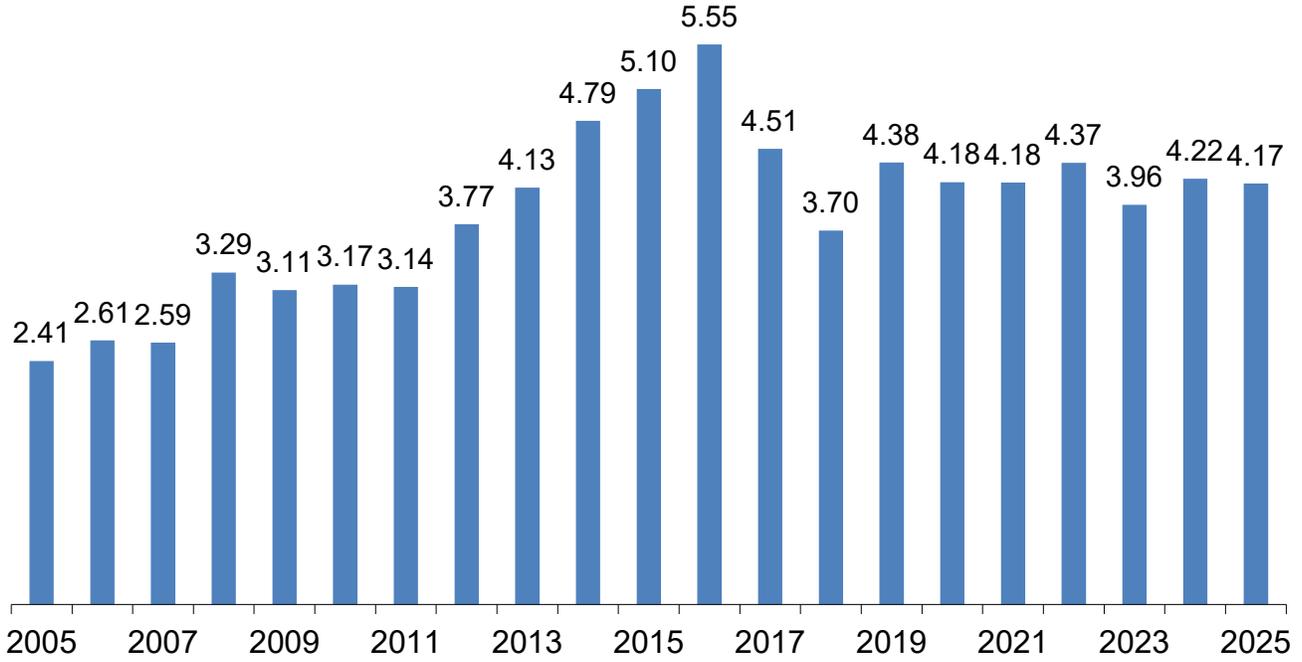
Industrial Wastewater Flow (Gals/Month)



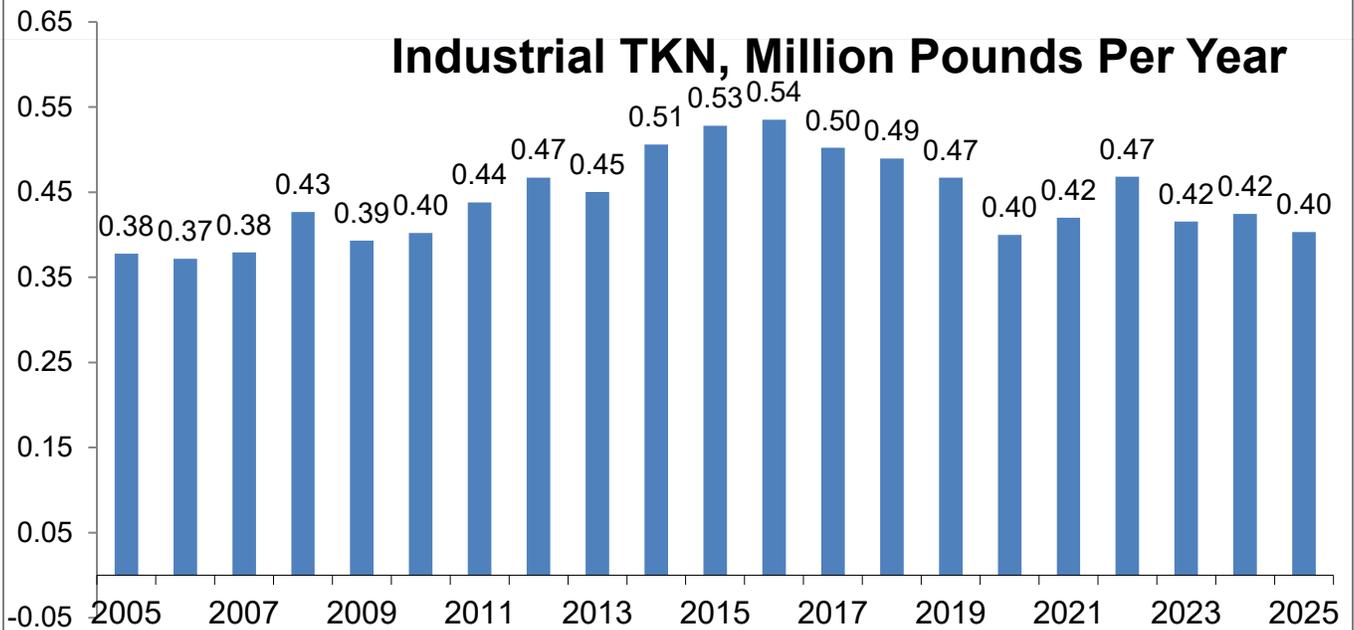
Industrial TSS, Million Pounds Per Year



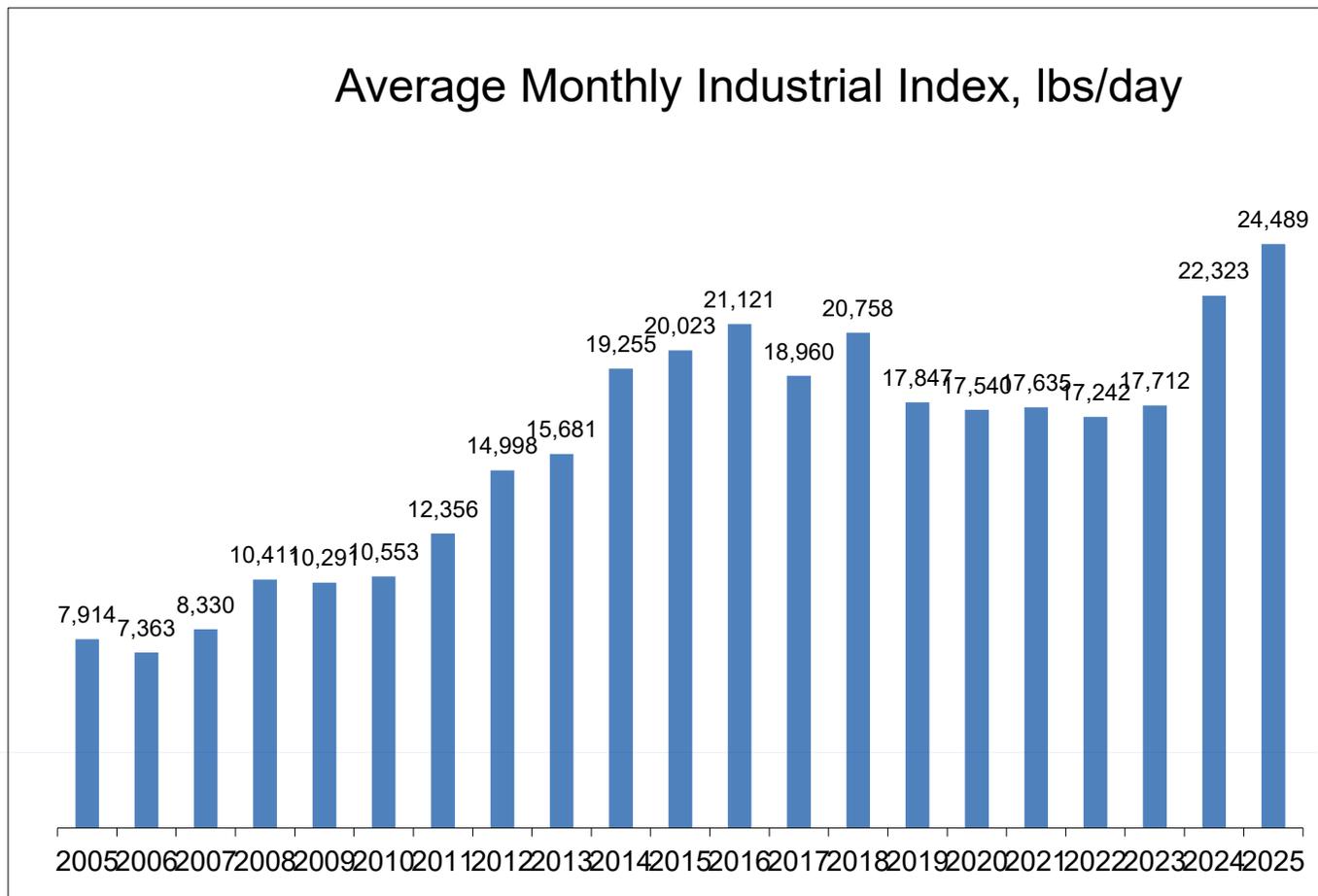
Industrial BOD Million Pounds Per Year



Industrial TKN, Million Pounds Per Year



Finally, in order to measure the relative strength of the industrial waste, staff developed a formula that combines TSS, BOD and TKN data. The resulting value, **Industrial Index**, provides a single numeric number. The Industrial Index increased by 26% in 2025.



Overall, Industrial wastewater conveyed to GJJWTF via the sanitary sewer increased in 2025.

The industrial index system does not incorporate the following wastewater streams:

- 1) Whey directly piped to the anaerobic digesters;
- 2) National Grid remediation discharges;
- 3) Fulton County Department of Solid Waste’s leachate.

PLANT LOADINGS

2025 Industrial loadings (Total, Includes Dairy):

FLOW: 344,505,551 gals
 BOD: 6,315,169 lbs
 TSS: 2,247,075 lbs
 TKN: 404,878 lbs

2025 Dairy (Washwater) Loadings:

233,557,119 gals
 5,604,264 lbs
 1,930,892 lbs
 231,039 lbs

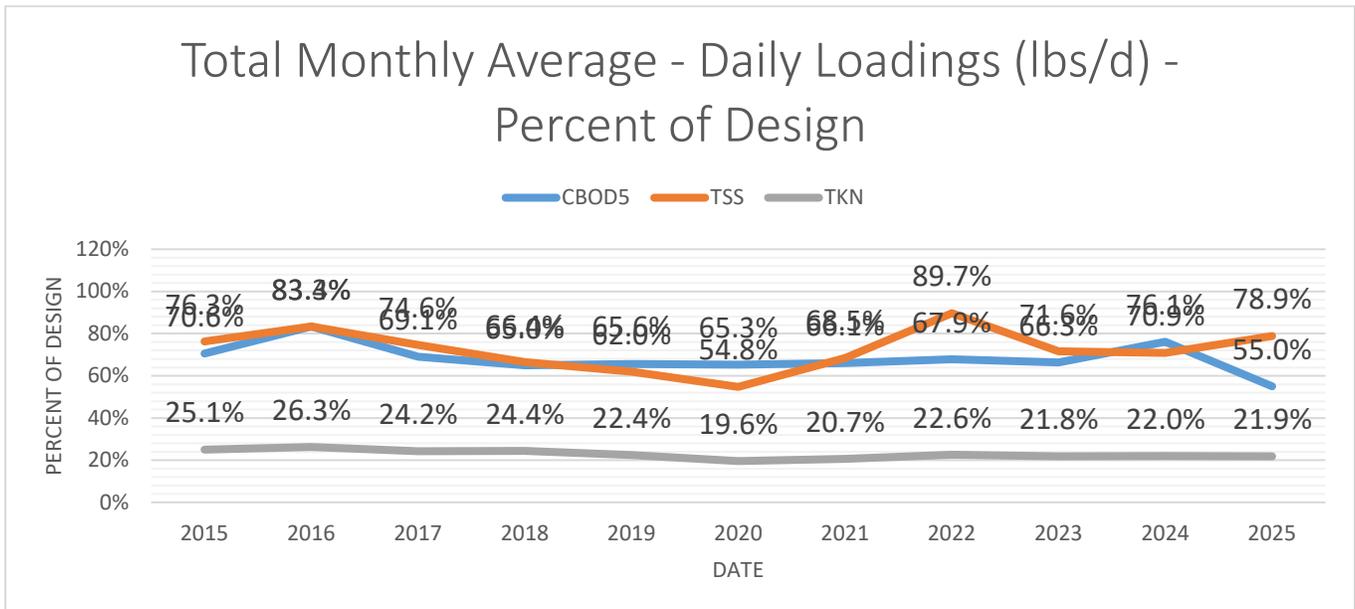
Dairy accounted for:

67% of Industrial Flow
 88% of Industrial BOD
 86% of Industrial TSS
 7% of Industrial TKN

Dairy COD strengths for why are as follows:

FAGE	Euphrates	Blended
(mg/L)	(mg/L)	(mg/L)
59,562	114,140	60,413

FAGE's yogurt product creates a relatively low COD strength whey byproduct.
 Euphrates' feta cheese product creates a relatively higher COD strength whey byproduct.



GJJWTF continues to operate below its design loadings. Therefore, GJJWTF can accept future wastewater loads from the community at large and/or new industries/businesses.

OPERATIONS

The year-to-year removal efficiency rates for the GJJWTF are as follows:

Parameters	2019	2020	2021	2022	2023	2024	2025
Total Suspended Solids	97%	97%	98%	98%	98%	97%	97%
Biochemical Oxygen Demand	98%	98%	98%	98%	98%	97%	97%
Total Kjeldahl Nitrogen	92%	93%	93%	93%	92%	92%	91%

As shown in the Table, the TSS and BOD removal efficiencies are greater than the permitted removal rate of 85% prior to discharge to Cayadutta Creek.

Belt Filter Presses (BFPs) operated 3,439 hours producing 17,814 wet tons of sludge. During 2025, sand and/or dried sludge was blended into the sludge cake to meet the minimum 20% solids landfill disposal requirement.

Together, the BFPs and Gravity Belt Thickeners (GBTs) utilized 55,165 pounds of polymer. In addition, the BFPs used another 6,931 gallons of emulsion polymer to enhance sludge dewaterability.

GJJWTF purchased 37,754 gallons of Ferrous Chloride to control sulfides at the anaerobic digesters. GJJWTF also purchased 49,831 therms of Natural gas to heat various buildings.

BACKFLOW PREVENTERS

November 2025 Professional Fire tested all backflow preventers on-site. Nine (9) backflow preventers keep the Facility's effluent from entering and contaminating the City's drinking water supply.

LEACHATE

GJJWTF received and processed 14.5 million gallons of leachate. The Fulton County Landfill pumps leachate to the facility via a dedicated six (6) mile long force main. Leachate contains 872.1 mg/L of TKN. This equates to over 104,342 lbs/year.

RENEWABLE ENERGY

The Dairy Industry pumped **29,376,468 gallons of whey** via a dedicated pipeline directly to the whey storage tanks located at GJJWTF. From this tank, operators pump the whey at a constant feed rate to the anaerobic digesters. Then, anaerobic bacteria break down the whey and expire large quantities of digester gas (~ 56% Methane and 44% Carbon Dioxide).

A direct result of GJJWTF's cogeneration philosophy is the significant reduction towards our dependence upon natural gas. The Anaerobic Digesters produced **164 million cubic feet** of biogas from the whey, CAST Settleable Solids, Primary Sludge and Waste Activated Sludge.

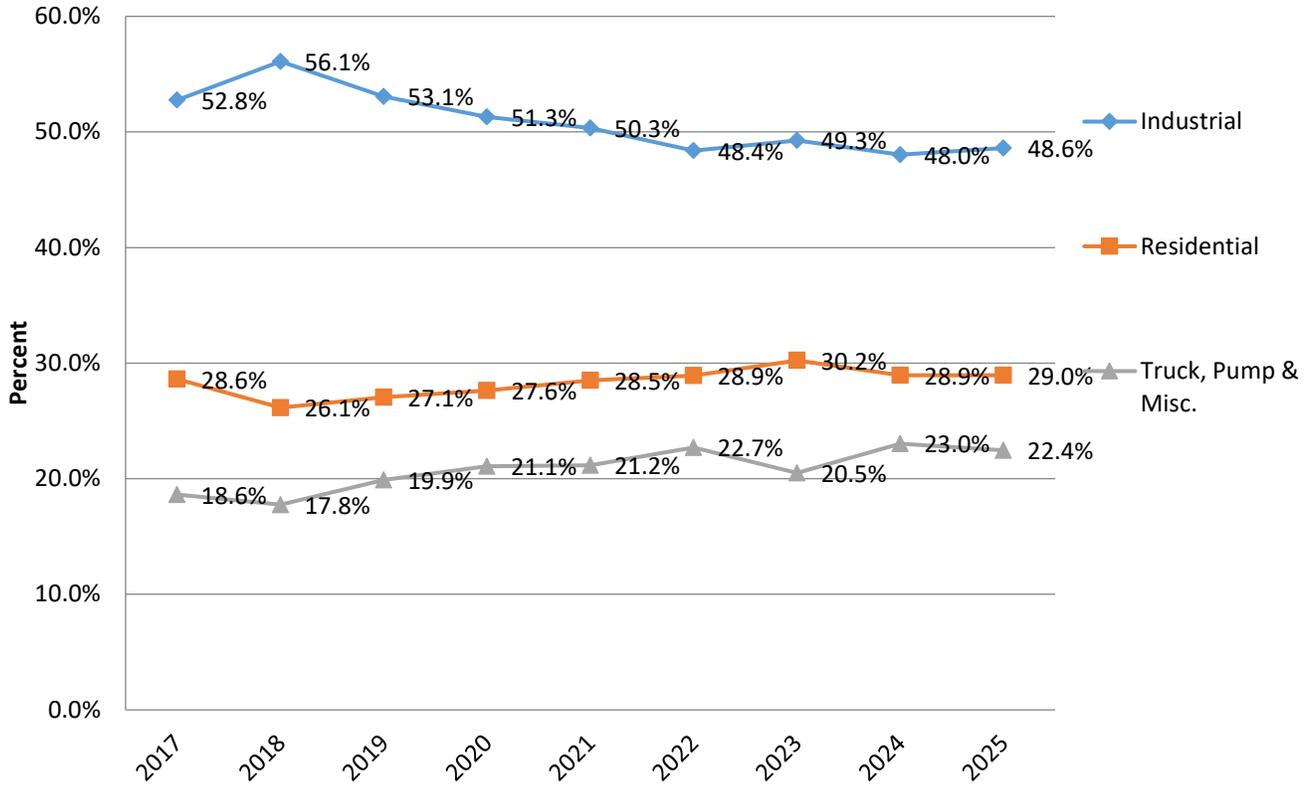
GJJWTF's biogas generators consumed 69.6% of this biogas to generate **6.15 million kilowatt hours** of electricity. Our electrical production meant that less energy was required to be supplied and purchased from external sources.

FINANCE OFFICE

The 2024 Financial Audit Summary from BST & Co. CPAs, LLP disclosed no issues of noncompliance, and no alternative procedures or corrective actions were suggested.

O&M revenues totaled \$5.9 million during 2025. The Industrial contribution was 50.08%, Residential 29.84%, and Trucked/Pumped waste and miscellaneous revenue totaled 20.08 %.

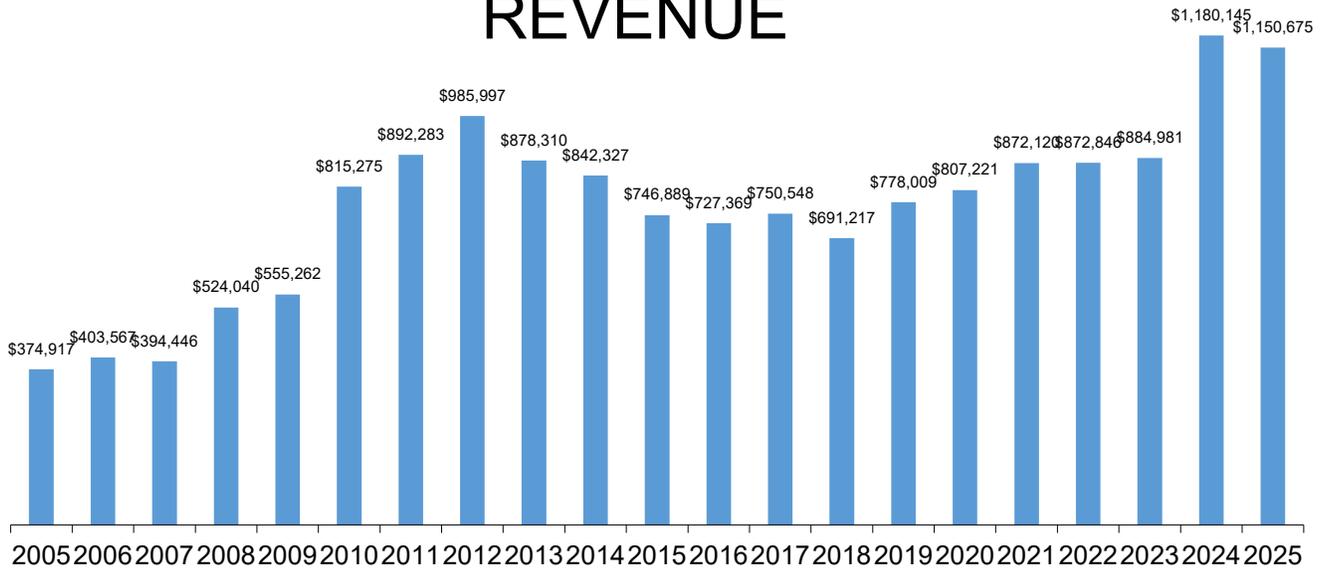
% Revenue by Category



Residential Rates - (\$/1000 Gals)



TRUCKED & PUMPED WASTE REVENUE



INDUSTRIAL USE

O&M revenue from industrial users increased 15.03% in 2025.

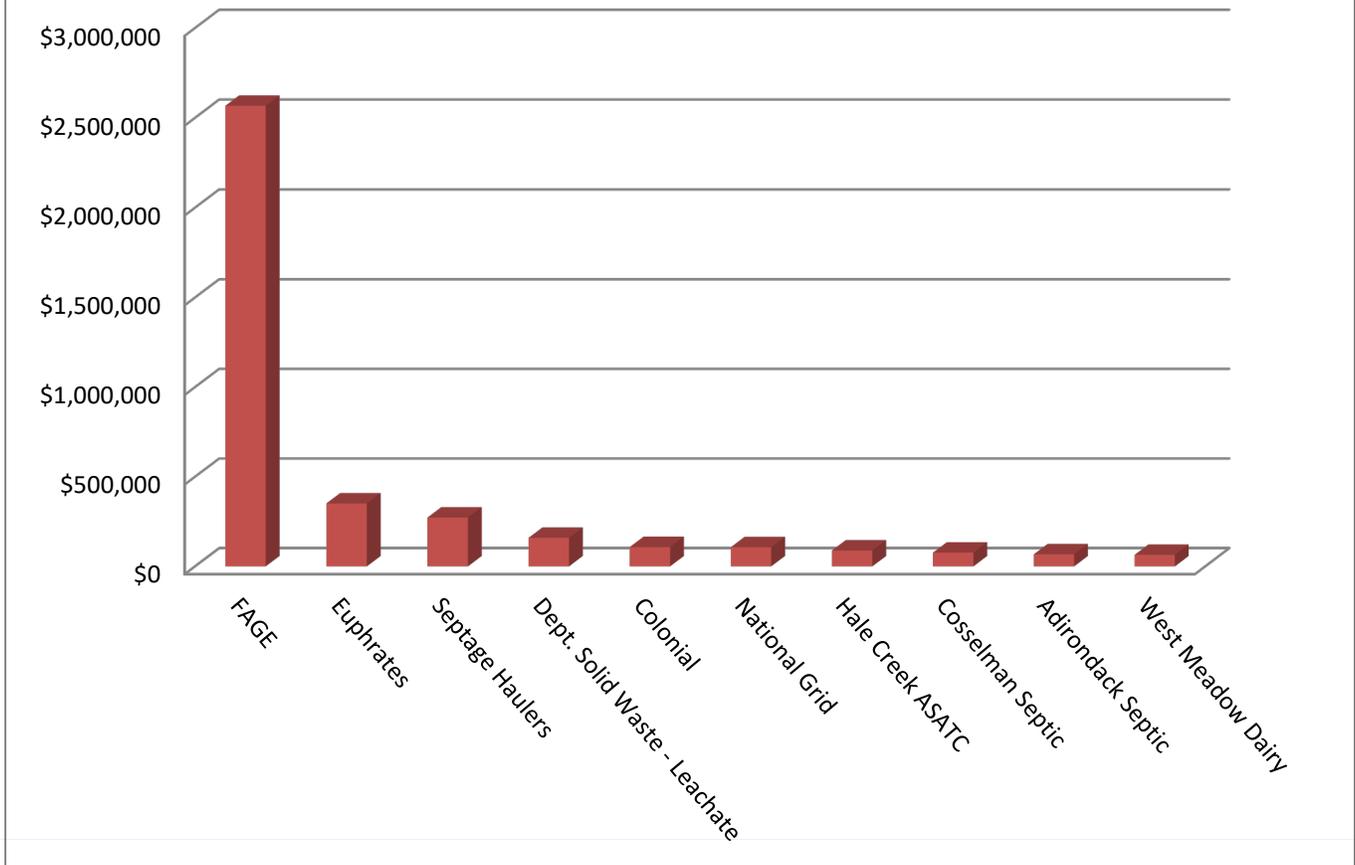
Dairy Industry accounted for the top two (2) facility users. FAGE USA Dairy Industry, Inc. continued as the Number 1 user and Euphrates Inc. as the second largest user, with West Meadow Dairy rounding out the top ten as number ten.

Septic Haulers as a group are the third largest user of the wastewater facility. Two (2) trucked waste accounts (Cosselman Septic and Adirondack Septic) in order of rank are part of the Septic Haulers category.

The leather Industry, Colonial Tanning was in the top ten revenue producers.

Fulton County Department of Solid Waste, National Grid remediation site, Municipal Contracts and Hale Creek ASATCA round out the top largest customers of the facility in 2025.

2025 Industrial O&M Revenue



State Asset Management Program

GJJWTF volunteered for this NYSDEC Program to improve our commitment to service with the sewer users in 2022. This process continues and is currently close to having all the required toolboxes populated and validated, currently awaiting access to the enterprise asset management program (Maximo). GJJWTF continues to participate with NYSDEC periodic status calls to review our current progress affirming our commitment to this program.