

Department Name	Water Purification District
Account(s)	G98110, G98120, G98130, G28130

Department Function
The Albany County Water Purification District (ACWPD) owns and operates two wastewater treatment facilities, designated North and South, which provide secondary treatment to the wastewater of eight communities in Albany County. The North plant is located in the Village of Menands and designed to treat an average daily flow of 35 MGD (million gallons daily). The South plant is located in the Port of Albany and was designed for 19 MGD and is permitted for 29 MGD. The North plant treats wastewater from the Cities of Cohoes, Watervliet and a portion of Albany as well as the Towns of Guilderland and Colonie and the Villages of Colonie, Green Island and Menands. The South plant treats wastewater from approximately 90% of City of Albany and the Port of Albany. All Significant Industrial Users discharging through the communities' collection systems are permitted as part of the USEPA approved Pretreatment Program. Where necessary the District requires pretreatment prior to discharging their wastewater.

Current Year Highlights
ACWPD 2022 highlights are as follows: • Completion of the Mechanical bar screen replacement at the South Plant. Work was done as part of the Albany Water Board's Phase II Beaver Creek Clean River Project. • Completion of engineering study for the mechanical bar screen replacement at the North Plant. • Completion of engineering study for a new Fats, Oil and Grease (FOG) process system at the North Plant for the conversion of restaurant grease trap waste to biofuel. • Completion of an engineering study for incinerator upgrades at the North Plant and consolidation option of pumping sludge from the South Plant to the North Plant for processing.

Next Year Projects
ACWPD 2023 projects are as follows: • Engineering design and bidding for incinerator improvements at the North Plant. • Engineering design and bidding of Fats, Oil and Grease processing system. • Complete Capital Plan Engineering Study.

Link to Website	www.albanycounty.com/WaterPurificationDistrict
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Financial Charts

FORECASTED COSTS, BY TYPE

Cost Type	Percentage
Personnel	57.9%
Contractual	41.2%
Equipment	0.9%

FORECASTED REVENUE, BY TYPE

Revenue Type	Percentage
Local	100.0%

The operational costs associated with running two plants are divided between personnel costs to have the technically skilled workforce and contractual expenses for goods and services needed to run and maintain both plants. Also budgeted into the contractals are utility expenses.

All annual revenue received by the District is money received from other municipalities to allow their water flow to the County’s plants.

The 2023 Budget has a forecasted operational surplus of \$1.0 million for the Purification District.

Programmatic Data

Removal Efficiency

A horizontal bar chart titled 'Removal Efficiency' comparing the performance of two wastewater treatment plants, South Plant and North Plant, across four parameters: Total Kjeldahl Nitrogen (TKN), Ammonia (NH3), Settable solids (SS), and Biochemical Oxygen Demand (BOD). The x-axis represents the removal efficiency percentage, ranging from 0.0% to 100.0% with major gridlines every 25.0%. The y-axis lists the four parameters. For each parameter, there are two bars: an orange bar for South Plant and a blue bar for North Plant. The data shows that South Plant generally has higher removal efficiency than North Plant for TKN and Ammonia, while North Plant performs slightly better for Settable solids and Biochemical Oxygen Demand.

Parameter	South Plant (%)	North Plant (%)
Total Kjeldahl Nitrogen (TKN)	~90.0	~80.0
Ammonia (NH3)	~88.0	~55.0
Settable solids (SS)	~92.0	~95.0
Biochemcial Oxygen Demand (BOD)	~95.0	~98.0

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