

Who We Are

- Formed in 1992
- Independent government under General Statute 162A
- Governed by a 9-member board
- Lead planning organization for water and sewer needs in Cabarrus County





Our Mission

- Provider wholesale wastewater transportation and treatment
- Provider of reservoir management
- Planner for the provision of wholesale water
- Provider of retail water and sewer service (if tasked by organizing entities)



Our Assets

- Rocky River Regional Wastewater Treatment Plant
- Muddy Creek Wastewater Treatment Plant
- 5 large pump stations
- 145 miles of sewer interceptors
- 2 raw water reservoirs
- Lake Howell
- Lake Concord





Rocky River Regional Wastewater Treatment Plant



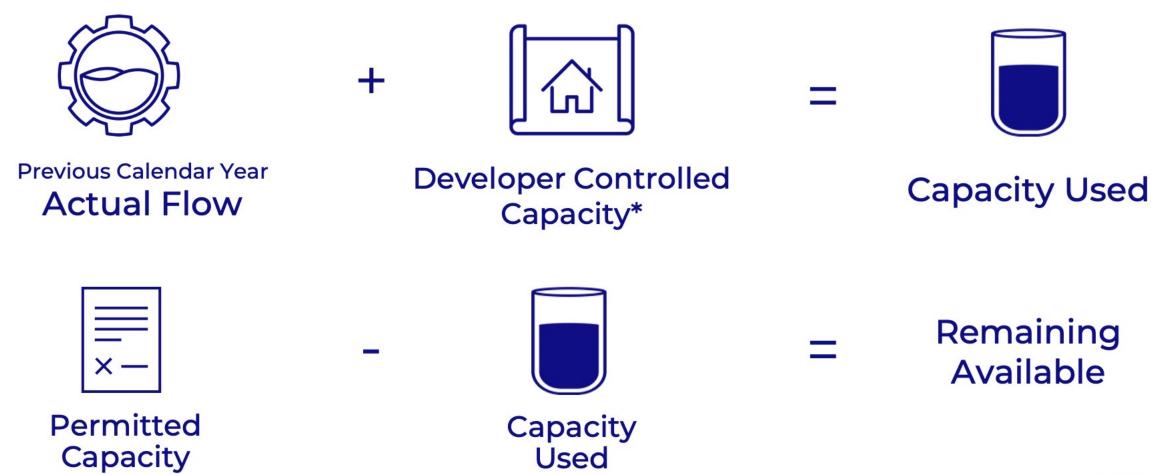
gallon per day (mgd) plant by a Rocky River Regional partnership between Cabarrus was re-rated to 26.5 County, the City of Concord, million gallons per Plant Expansion and Cannon Mills. day (mgd) began Late 1970s 2019 2012 **Rocky River** Regional **Overview** Early 2000s 2018 The plant received Flow dramatically several upgrades. increased. Plan immediately put into

Constructed as a 24 million



place to expand.

Rocky River Regional Capacity



^{*}Capacity that has been officially allocated to a specific project through the flow allocation process.



Rocky River Regional Capacity

- Regulated by the North Carolina Department of Environmental (DEQ)
- DEQ permits total capacity
- DEQ requires allocation tracking
- DEQ creates formula for projecting future system demand from new residential construction





Rocky River Regional Capacity

Flow acceptance is issued to projects after:

1

Construction drawing approval phase is complete

2

Flow allocation by the local jurisdiction is approved

3

Final flow acceptance approval is sent to WSACC



For Example...



300 single family homes



100 4-bedrooms homes 80 gpd/br **32,000 gpd**



200 3-bedrooms homes 80 gpd/br 48,000 gpd



80,000 gpd





Rocky River Regional Flows & Capacity

	2017	2018	2019	2020	2021	2022	2023
Previous Year Flow (mgd)	16.21	17.04	20.07	19.91	21.95	20.97	21.11
Total Calendar Year Flow Acceptance (mgd)	0.94	1.23	1.28	2.15	1.83	0.93	-
Developer Controlled Capacity(mgd)	1.60	1.59	1.79	1.94	2.36	2.87	3.18
Jurisdictional Controlled Capacity(mgd)	8.70	7.88	4.65	4.66	2.19	2.66	2.21

The 2023 numbers equal 5.39 mgd of currently not being used capacity at the Rocky River Regional.



ROCKY RIVER REGIONAL FLOWS & CAPACITY

Capacity vs. Actual and Combined Actual/Allocated Through 2017

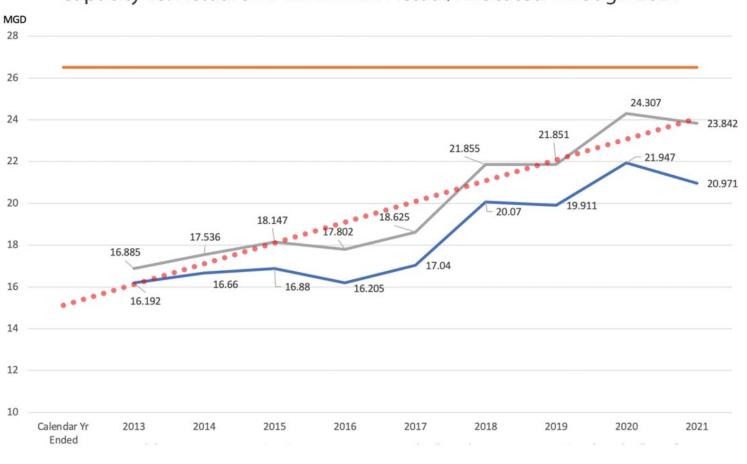






ROCKY RIVER REGIONAL FLOWS & CAPACITY

Capacity vs. Actual and Combined Actual/Allocated Through 2021







Rocky River Regional Flows & Capacity

5.39 mgd **Currently Unused** Equivalent of Capacity

23,042 3-Bedroom Units

Rocky River Regional Expansion

- Rocky River Regional is constructed for 26.5 mgd
- Rocky River Regional is permitted to 34 mgd
- Expansion design began in 2019
- Design-build agreement with Crowder Construction signed in 2021



Rocky River Regional Expansion

Phase 1

- 2024
- New capacity 30mgd
- Cost: \$100m

Phase 2

- 2027
- New capacity 34mgd
- · Cost: TBD.



Rocky River Regional – Capacity Allocations

- Prior to 2021 flow acceptance on a first-come, first-serve basis.
- In 2021, the WSACC Board adopted a strategic allocation process
 - Allocation divided among jurisdictions
 - Jurisdictions establish a local policy on allocation







WSACC Rocky River Regional – Capacity Allocations

Jurisdictional Controlled Capacity

	Flow Allocated		
Charlotte Water	538,000 gpd		
Concord	875,869 gpd		
Kannapolis	522,775 gpd		
Harrisburg	211,022 gpd		
Mt. Pleasant	65,667 gpd		
Totals	2,213,333 gpd		

Planning for the Future

2022 - Began Master Planning process

- Team: professional engineers and planners that are experts in their fields
- Timeline: 20-year plan with focus on initial 10-years
- Report:
 - · Population/flow projections
 - Permitting future expansion needs
 - Drinking water needs projections
 - Begin permitting process



















CONCLUSION

- 2017: Projected 29 years' worth of growth capacity
- 2018: Actual flow increased as much as previous 10 years combined
- WSACC swiftly began planning the plant's expansion. First phase will be completed in 2024
- Municipalities have an agreement to decide how best to allocate the remaining capacity at the Rocky River facility.
- 2022 Calendar Year Actual Flow = 21.11 MGD (79.7% of capacity)

Contact Us



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