

TRITECH CIVIL ENVIRONMENTAL, PC

River Intakes and Pretreatment Reservoirs

*Planning, Engineering, &
Surveying*



TRITECH CIVIL
ENVIRONMENTAL, PC

401 Commerce Place
Asheboro, NC 27203

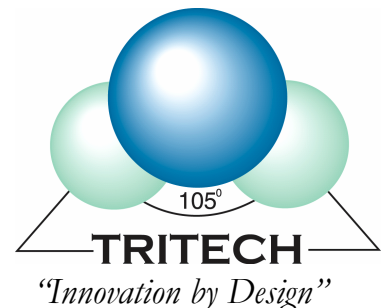
Phone: 336-498-1060

Fax: 336-498-1070

Email: pmbrower@tritechcivil.com

Website: www.tritechcivil.com

**8 MGD Reddies River Intake
Structure w/Hendrick Wedge
Wire Screen (installed while
reservoir lowered)
North Wilkesboro,
North Carolina**



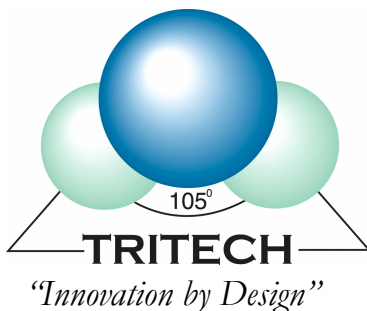
TRITECH CIVIL ENVIRONMENTAL, PC

Water Treatment Facilities

Planning, Engineering, & Surveying

The initial phase of this project, completed in 2003, consisted of planning, design, and construction phase services for upgrading North Wilkesboro's 4.2 MGD WTP. The study included evaluations of alternatives to upgrade the WTP to comply with SDWA requirements and a 250 pipe network model of the existing distribution system with its connections to three major private water associations. The facilities modifications consisted of air-burst wedge-wire raw water screens, a new rapid mix and flocculation basin, tube settlers and continuous solids removal equipment installed in existing sedimentation basins, filter renovations, chlorine emergency scrubber, covered wedgewater filter drying beds, and 1,250 kW standby generator. Permits were obtained from the NC Public Water Supply Section. The low bid of \$2,220,000 was within 10% of the original planning budget. Owner-directed replacements of antiquated pumping equipment, laboratory equipment, HVAC system, and windows increased the final cost to approximately \$2,510,000. The project was financed by a low interest NC Clean Water SRF loan. The second phase of the project, initially budgeted at \$2,500,000, will expand the plant capacity to 6.0 MGD.

Reference information: David Lovette, Public Utilities Director
Town of North Wilkesboro 336-667-7129



401 Commerce Place
P. O. Box 4127
Asheboro, NC 27204-4127
Email: pmbrower@tritechcivil.com
Website: www.tritechcivil.com

Phone: 336-498-1060
Phone: 336-672-5253
Fax: 336-498-1070