
Water Resource Development and Management

Customer: Town of Mt Airy
Location: Carroll and Frederick Counties, MD



Description:

Hydro-Terra Group (HTG) completed a municipal groundwater supply project maximizing the use of existing wells, increasing supply with new groundwater wells, addressing local groundwater contamination issues and concerns, designing appropriate facilities around the sources developed, and managing wellfield production. The project consisted of completing a hydro-geological assessment, fracture trace analysis, well siting, drilling/installation of new wells, well development, aquifer testing and comprehensive sampling to comply with Local, County and Maryland Department of the Environment potable water standards for public water distribution systems.

Project Highlights:

- ✓ Regional assessment of resources and development of a wellfield management plan.
- ✓ Test drilling, large-diameter production well construction, and well reconstruction using high efficiency well screens.
- ✓ Down hole geophysical logging.
- ✓ Well performance and aquifer testing.
- ✓ Aquifer modeling and impact analyses.
- ✓ Design of groundwater recharge facilities for the municipal well field in saprolite geologic terrane, including runoff modeling, precipitation analyses, baseflow analyses, a monitoring program, and construction inspection.
- ✓ Assessment of potential water quality impacts from point sources.



Well Installation



Well Development



Aquifer Testing