

Village of Tarrytown – Water Distribution System Evaluation



Design Data

Owner

The Village of Tarrytown

Location

The Village of Tarrytown,
Westchester County, New
Jersey

Project Components

Evaluation of a 8.5 mgd
water distribution system

Lead & Copper corrosion
control studies

Lead & Copper control
program was developed



Based on the County Health Department recommendations, guidelines, and compliance requirements, Lead & Copper corrosion control studies were conducted and a Lead & Copper control program was developed, various control systems were pilot tested and the report summarizing the alternatives, operating costs and implementation procedures were prepared by our staff.

Our staff was also involved in the Tarrytown's aqueduct siphon capacity restoration. Over years of operation and due to changes in water quality in the NYC water supply system Tarrytown's tap capacity was reduced from approximately 8.5 mgd to 4.2 mgd. Field testing and hydraulic modeling resulted in identifying air entrainment in the interconnecting siphon system as a culprit. Design documents were prepared implementing installation of a new air vent and manifold assembly on the 20" siphon pipe section. This successful operation restored the system capacity to approximately 9.0 mgd.

PCI
Professional Consulting, Inc.

Consulting Engineers