

Dam Inspection

Lake Tappan Reservoir Dam, Rivervale, NJ
Buck, Seifert and Jost, INC.

SUBAQUEOUS INSPECTION SURVEY

Atlantic Engineering, LLC was contracted to document the condition of the dam and to inspect and clean debris upstream and downstream of the outlet works, inspect the soundness of concrete surfaces and the condition of the concrete slab and diffuser blocks in the downstream apron area. The work included the visual inspection of five spillways and the concrete slab. The inspection required 100% video documentation.



Oradell Reservoir Dam, Oradell, New Jersey
Buck, Seifert and Jost, INC.

Upstream and Downstream Underwater Inspection

The purpose of the inspection was to document the sluice gate outlet structure, intake channel and approach slab aprons, signs of additional settlement or undermining along the upstream toe, soundness of fabric bag undermining repairs, metalwork and gate seals upstream and downstream of each of the seven (7) sluice gates, the downstream apron and undermining repairs, and the downstream training wall and abutment.



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Replacement of Outlet Structure Hydraulic Valve Line System

**Bear Gap Reservoir
Ralpho and Cleveland Townships, PA
AQUA, PA**

SUBAQUEOUS INSPECTION

Atlantic Engineering, LLC was contracted to replace the existing upstream outlet structure hydraulic operating system with a pneumatic system. An underwater inspection was performed to determine the extent of work necessary to remove the old system, design and install the components for the new system. The existing (4) lines of 3/4" stainless steel conduit

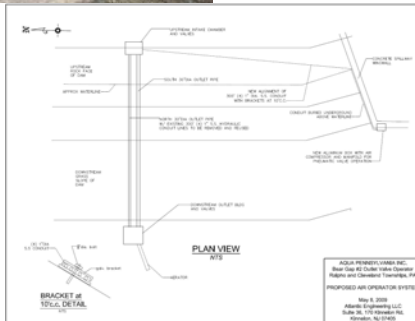
were removed from the 400' long outlet pipe and reused from the operator at the top of dam to the upstream intake structure.



CONSTRUCTION/INSTALLATION

Construction of the new system included:

- Temporary installation of pneumatic line for operation of valve.
- Removal of 1,200lf of accessible stainless steel conduit.
- Installation of 1,200lf of new stainless steel conduit.
- Installation of stainless steel cabinet containing air compressor for operating the valves.



UNDERWATER CAPABILITIES

- DETAILED INSPECTION SURVEYS
- CONSTRUCTION INSPECTION
- VIDEO & 35mm PHOTOGRAPHY
- HYDROGRAPHIC SURVEYS
- CONFINED SPACE & PENETRATIONS
- P.E. DIVER INSPECTION
- ULTRASONIC THICKNESS MEASUREMENTS

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Dam Inspection

**Great Notch Dam, West Paterson, NJ
Passaic Valley Water Commission**

SUBAQUEOUS INSPECTION SURVEY

Atlantic Engineering, LLC was contracted to perform the underwater inspection of the Intake/ Outlet Structures at the Great Notch Reservoir. The work included the visual inspection of ten sluice gates in the four chambers of the facility. The inspection required 100% video documentation.



**Jersey City Reservoir, Boonton
Jersey City Municipal Utilities Authority, Jersey City, NJ**

Underwater Inspection Of The Draw Down Facilities

The Draw Down Facilities, scope of work included the inspection of the mud gate shafts, intake structure, intake pipe, and discharge piping. The work included confined space entry with air quality monitoring and dive operations. A 100' pipe penetration at 100' feet of water depth was performed. Diving required an onsite deco chamber with a qualified operator.



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Dam Repairs

Round Valley Reservoir, Clinton Twp., NJ
North Jersey District Water Supply Commission

SUBAQUEOUS INSPECTION SURVEY AND REPAIRS

Atlantic Engineering was contracted to perform the underwater repairs of the shaft couplings and to conduct a complete inspection of the sluice gates and valves. Video and 35mm photos were included during this inspection.



Clinton Reservoir, West Milford, NJ
Passaic Valley water Commission

UNDERWATER CONSTRUCTION & INSPECTION

The Clinton Reservoir, scope of work included the replacement of the flapper valves, lifting chains and brackets. The work included 100' penetration dive which required a four man dive crew. Video and a complete inspection was performed.



Original Flapper Valve From 1910

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