

## Dam Repair

### Municipal Dam

HRP Associates, Inc. completed the hydrologic and hydraulic analysis of this Dam watershed for the purposes of permitting the repair of the Dam's outlet structure. The state's agency of natural resource's Dam Safety Program had previously determined that the outlet structure was in disrepair and had issued an Order to the owner. As a prime sub-contractor, HRP was responsible for the permit submittals required by the state agency, including the following.

- Wetland Delineation and Impact Assessment
- Hydrologic and Hydraulic Analysis
- Outlet Structure Structural Calculations
- Erosion & Sediment Control

An environmental consulting firm provided wetland delineation services for the project. The firm prepared a written report on the classification, functions and values of the existing wetlands. Based upon field identification of existing conditions, the consulting firm determined potential impacts of lowering the water surface elevation in the lake during repair construction activities. Additionally, HRP utilized the consulting firm's field delineation to provide the mapping required for the applicable Permit Applications.

HRP completed the Hydraulic and Hydrologic Analysis in support of the outlet repair engineering. By integrating all project evaluations, HRP was able to design a new outlet structure that will pass the required storm events by increasing the capacity of the existing outlet pipe by re-lining it. This allowed the construction time to be greatly shortened, which in turn ensured protection of the lake and wetland resources.

#### FIRM

HRP Associates, Inc.  
197 Scott Swamp Road  
Farmington, CT 06032  
(860) 674-9570

#### VALUE

\$28,000

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