
Lake Anne Dam #21-81

GPI

Dams



Client/Owner: Mr. Barry Dusault

Project Location: Hampton Township, Sussex County, NJ

On August 12, 2000, the municipalities of Sparta, Ogdensburg, Hopatcong, Byram, and Jefferson in Morris and Sussex Counties in New Jersey were hard hit by a high intensity, storm that dumped a minimum of 8 inches to about 14 ½ inches of rainfall over the area in only a 17 hour period. With all the data in hand, this storm is universally recognized as a new storm of record and was well in excess of the standard 100 year 24 hour storm event for the area. Many dams in the area overtopped due to lack of spillway capacity and suffered some minor to severe damage. As a result of the storm, NJDEP/Dam Safety stepped up its review of the dams in the area which were on their database and due or overdue for annual dam inspections.

Greenman-Pedersen, Inc. was retained by the owner to inspect the dam and to submit an inspection report to NJDEP. Preliminary hydrology suggested to us that the dam, which is currently classified as a Significant Hazard Class 2 dam with a ½ PMP Spillway Design Flood (SDF), could possibly be downgraded to a Class 3 Low Hazard dam with a 100 year SDF. As such we recommended that a detailed existing conditions survey be prepared and that a formal Hazard Assessment and Spillway Capacity Analysis. GPI has prepared the Hazard Assessment and Spillway Capacity Analysis and has succeeded in reducing the SDF to 100 year. GPI is currently preparing plans for upgrading the dam to current NJDEP standards.