

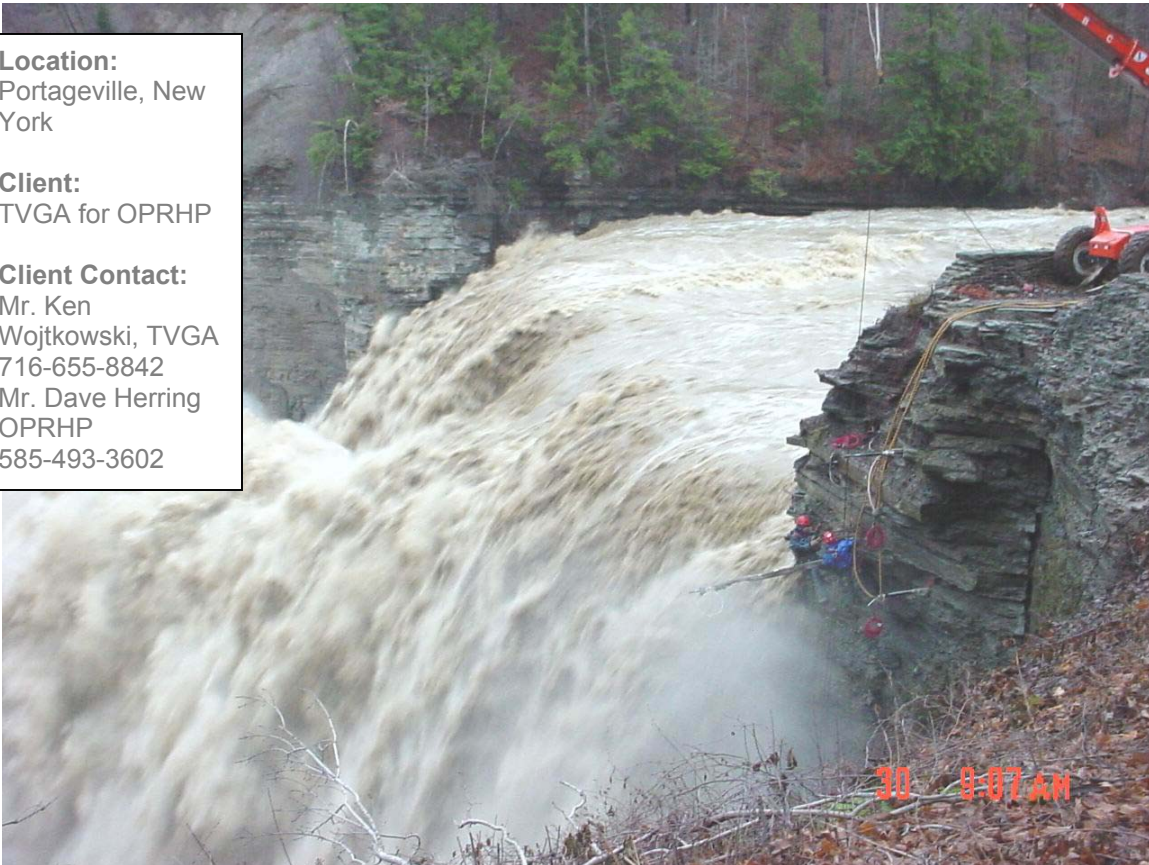
PROJECT DESCRIPTION

Letchworth Park Middle Falls Rock Slope Stabilization

Location:
Portageville, New
York

Client:
TVGA for OPRHP

Client Contact:
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Janod Inc. Drilling Rock Anchors into Rock Face

The Office of Parks Recreation and Historic Preservation (OPRHP) retained TVGA Consultants and MMCE to develop plans to stabilize and instrument the rock slope adjacent to Middle Falls in Letchworth State Park.

TVGA completed a 3-dimensional laser survey of the gorge face to provide information relative to the erosion pattern of the rock face and the orientation of the rock joints. MMCE retained Earth Dimensions, Inc. to drill borings into the rock behind the gorge face to provide information on the rock strength and the rock jointing pattern.

Using this information, MMCE developed plans to stabilize the rock face. The plans included scaling loose rock from the face and installing high strength bar anchors 40 feet into the slope to improve its stability. The rock anchors are equipped with strain gauges which allow measurements of slope movement with time. This information is used by the OPRHP to plan slope maintenance work.