

PROJECT

Saratoga Monument
Saratoga, New York

CLIENT

National Park Service
U.S. Department of the Interior
Saratoga National Historical Park
Stillwater, New York

PROJECT DESCRIPTION

The Saratoga Battlefield Monument is a 170 foot tall granite obelisk honoring the site of the 1777 Battle of Saratoga. Constructed in 1877 on top of a hill overlooking the battlefield, the monument was being restored as part of a National Park Service preservation project. Years of moisture infiltration and cracking led to deterioration and staining of the original granite construction.



Atkinson-Noland and Associates was retained by the general contractor and specialty injection contractor to develop an approach for addressing cracks and ongoing water penetration. Work on site included evaluation of the interior void structure, development of a historically compatible lime-based injection mortar, and quality assurance of injection work. Other firms involved in the project included John G Waite Associates, Western Waterproofing, and Masonry Solutions International.

SERVICES PROVIDED BY ATKINSON-NOLAND

- Nondestructive evaluation using sonic pulse velocity methods to characterize existing masonry, including locating voids within exterior walls
- Evaluation of the wall interior using a fiber-optic borescope
- Laboratory testing to develop a compatible injection material
- Development of injection protocols to fill internal voids and cracks
- Follow-up testing using nondestructive methods to verify proper filling of voids and cracks



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