

Header: **Saving Old Faithful, or at least a vacation.**

Title: **Yellowstone Lodge Spill Remediation**

Short summary: Stantec engineered a solution for spilled fuel at Yellowstone.

Project Location: Yellowstone, Wyoming

Profile:

Accidents happen. But when 800 gallons of heating fuel spilled at the Old Faithful Lodge in Yellowstone, immediate action was needed.

The challenge was how to get the fuel out of the ground with minimal disruption to the area, not to mention keeping the spill contained to avoid contamination of the nearby geothermal features.

After careful evaluation, the Stantec team engineered a solution that would mitigate virtually all of the problems associated with a complete excavation. Using Geoprobe® technology, we were able to navigate between underground storage tanks, define the fuel spill plume, and minimally impact the surrounding area.

Next, we tapped the plume to inject ozone in conjunction with vacuum extraction. By pumping ozone directly into the contaminated soil, a chemical reaction was initiated that oxidized the petroleum contaminants to carbon dioxide and water.

In the end, a minimally invasive procedure was completed that fulfilled the needs of the lodge and successfully dealt with the spill. To say that Stantec saved Old Faithful might be a stretch, but for lodge visitors it certainly saved their adventure to what may be the most well-known national park in the world.