



State Route 504 Shunt Reactor Cleanup, Castle Rock, WA; USDA Forest Service

This project involved the cleanup of contaminated soil caused by a leaking shunt reactor transformer along State Route 504 at approximately milepost 24.1. The USFS initially estimated that approximately 100 cubic yards of soil would need to be removed from the project site, on the northwest corner of the concrete shunt reactor basin. The first set of soil samples were taken to establish a baseline, and to assist in determining how far the excavation would need to extend. Sample 1 was taken from the obvious contamination, on the northwest side of the shunt reactor, returning results of 17000 ppm mineral oil. Samples 2, 3 and 4 were taken in steps down gradient; these samples were analyzed with results indicating non-detect (ND). The USFS was contacted regarding the lack of contamination at the site, and at their direction, White Shield removed an estimated 1/8th yard of soil from the area, which was placed into a 55 gallon steel drum for disposal. Samples were then taken in the soil removal area; Sample 5 was the confirmatory sample, results showing ND for mineral oil. The drum was lifted out of the area and into a truck, and disposed of at the Weyerhaeuser disposal site in Longview WA. A mobile analytical lab was mobilized to the site to expedite sample results, and a private locate company was engaged to locate underground utilities. The site was returned to original grade with backfill and compaction done in 6" lifts.

