

Former American Bosch Manufacturing Plant

MCP COMPLIANCE PROJECT

Site Location:

Client:

Date:

Springfield, Massachusetts

United Technologies Corporation

1994 – present

The American Bosch Plant was a major producer of diesel fuel injection systems until it closed in the mid 1980s. The complex included three separate contiguous facilities, 25 underground storage tanks, and over 600,000 square feet of manufacturing space. Many oils and hazardous materials were used at the facility, including machine oils, degreasing solvents, plating solutions, and calibrations fluids.

In 1994, O'Reilly, Talbot & Okun Associates, Inc. (OTO) was retained to conduct investigations on both the manufacturing and engineering units of the complex. First, OTO conducted a Phase II Comprehensive Site Assessment, which included the installation of geoprobes, water wells, soil borings, and the preparation of a preliminary public health risk characterization. OTO then designed a remedial plan that included the installation of soil vapor extraction areas of the site contaminated with chlorinated volatile organic compounds (CVOCs), bioventing of unsaturated total petroleum hydrocarbon (TPH) impacted soils, and passive recovery of separate phase floating oil. In 2001, a permanent (Class A) Response Action Outcome (RAO) was issued for five solvent release locations on the facility.

At the former design and engineering portion of the complex, a leaking distribution line and underground waste oil storage tank had resulted in releases of oil. OTO installed a passive oil recovery trench on the downgradient side of the building to prevent oil from seeping into the building and surrounding soil. OTO also excavated over 5,000 tons of petroleum-impacted soil from the site in order to meet residential soil standards. Continuous soil and groundwater monitoring indicated that levels of oil and hazardous material in soil and groundwater had decreased to below regulatory levels, and in 2008, the site achieved a permanent solution RAO.

***OTO also was responsible for a complex asbestos removal process after a large fire on site created extensive toxic debris...