CASE STUDY
MUNICIPAL SITE INVESTIGATION & REMEDIATION

The Township of Bridgewater, New Jersey

Workscope:

Goal:
Successfully demolish Department of Public Works Facility, while addressing site risks and soil and groundwater contamination at the site. Implement remediation strategy in concert with redevelopment of property on expedited time frame.

Problem:
The Township contracted Alliance to take on this Brownfield Redevelopment project. The goal was to successfully redevelop the former Public Works facility into recreational ball fields to be used by citizens of the Township. Alliance successfully completed the Remedial Investigation and RAW for Underground Storage Tank (UST) related areas of concern. While the RAW was pending NJDEP case manager approval, Alliance completed the HDSRF Grant Funding application to not only secure a source of funding for the RAW Implementation, but also secured funding for past environmental work completed at the site. In March 2009, approximately 2,400 tons of gasoline contaminated soil was excavated from the former UST area. After completion of the excavation in April 2009, approximately 1,000 pounds of Sodium Percarbonate and 3,968 pounds of Calcium Peroxide were added to the excavation prior to backfilling the excavation with certified clean fill. These compounds release significant amounts of dissolved oxygen and peroxide radicals in groundwater, which are intended to stimulate natural attenuation. In June 2009, five groundwater monitoring wells were installed and routinely sampled. Alliance also completed a Preliminary Assessment Report and subsequent Site Investigation Report for non-UST related areas of concern. To that end, Alliance was instrumental in securing a 100% reimbursement HDSRF Grant for additional Site Investigation activities to be completed in conjunction with Remedial Activities. Closure monitoring was completed under the Groundwater Remedial Action Permit. The permit was terminated after all results were below Groundwater Quality Standards for two consecutive events. Alliance’s Licensed Site Remediation Professional (LSRP) issued an Entire Site Response Action Outcome (RAO) in March 2015.

Project Team
Michael Weaver, LSRP, Andrew Applebaum P.G., and Sharon Maher

Regulation
NJDEP Technical Requirements for Site Remediation and Regulated Underground Storage Tank (UST)

Project Value
Fall 2007 – Spring 2015 ~$500,000
Site is approximately 25 acres.