O'Reilly, Talbot & Okun
[A S S O C I A T E S]

Retail Gasoline Dispensing Facility

GASOLINE REMEDIATION PROJECT

Site Location: Springfield, Massachusetts
Client: L.E. Belcher, Inc.
Date: 2004 to 2007

OTO responded to a release of approximately 1,000 gallons of gasoline resulting from a failed underground storage tank (UST) at a retail gasoline dispensing facility. Initial response actions included the removal of the UST and the excavation and disposal of approximately 100 cubic yards of impacted soil.

Within six weeks of the release, OTO had completed an initial site assessment and designed, installed and began operating a total-fluids groundwater extraction system to recover separate-phase gasoline and prevent off-site migration of the dissolve-phase plume. The system incorporated soil vapor extraction (SVE), air sparging (AS), and a 300 CFM catalytic oxidizer for off-gas treatment. Within two years, the remediation system recovered over 850 gallons of gasoline and was shut down.

OTO collected post-remedial soil and groundwater samples and completed a Method 3 risk characterization to address residual soil and groundwater impacts. Site closure through a Permanent Solution Class A-2 Response Action Outcome (RAO) was achieved less than three years from the date of the release.