



On-Call Environmental Services

Barnstable Municipal Airport Hyannis, Massachusetts

The Horsley Witten Group, Inc. (HW) has been contracted to provide on-call environmental engineering services at the Barnstable Municipal Airport since 1997. During this time, HW has completed environmental site assessments and remedial actions at various locations throughout the Airport, environmental risk assessment of two ponds and removal and remediation of several underground oil storage tanks. HW is also part of the design team for the recent \$44 million Terminal Improvement Project.

HW designed a remedial system to remediate petroleum and solvent-contaminated soil and groundwater at the Airport. During a Phase II Comprehensive Site Assessment, HW identified leach pits connected to building floor drain systems that appeared to have been impacted by oil and solvents associated with aircraft maintenance. Several groundwater contaminant plumes were then delineated.

HW completed a Phase II Remedial Action Plan and feasibility study to establish objectives and identify the best remedial alternative to clean up the source area and groundwater. The study included the identification, evaluation and selection of comprehensive remedial action alternatives. Careful consideration was given to costs and potential disruptions to this active facility.

HW completed a Phase IV Remedial Implementation Plan which described a selected remedial action and presented the treatment system design, and then coordinated the construction and operation of these remedial systems. The remedial design included layout and specifications for an air sparging/soil vapor extraction system for multiple contaminant source areas, and bio-sparging plume treatment zones for downgradient areas of groundwater contamination. The systems were designed to eliminate the source of groundwater contamination and cut off the migration of contaminated groundwater. The design of the system treats contaminants in-situ without disruption of airfield activities.

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