



## Hydrogeological Services

**Sanborn Head believes that water is the critical resource linking together all human activities, and that the safe and appropriate management of this resource is the key to our shared future.**

Understanding the factors that control the movement of water in the subsurface, as well as evolving regulations and policy, are critical for expansion/siting of municipal solid waste landfills, development of new water sources, rehabilitation of existing supplies, infiltration of stormwater and wastewater to the subsurface, construction-related water quality monitoring, or assessing the structural safety of earthen dams.

Sanborn Head has the technical staff and project experience to lead our clients through conceptual design and evaluation to final system design. Our experience and capabilities in hydrogeology, groundwater engineering, geotechnical engineering, geochemistry, and contaminated site remediation allows us to provide our clients with innovative strategies for the long-term management of their water resources needs. We routinely develop creative solutions to address competing water resource demands, and help our clients to permit and construct forward-thinking projects.

### SPECIALTY AREAS:

- Numeric Groundwater Flow & Contaminant Transport Modeling
- Stable Isotope Analysis/Groundwater Age Evaluations
- Fractured Bedrock Characterization
- High-Resolution Characterization for Complex Systems
- Contaminant Fate & Transport Analysis
- 3-D Visualization Representations of
- Complex Systems
- Hydraulic Conductivity Field Estimates
- Statistical Trend Analysis
- Program Optimization Monitoring
- Conceptual Site Model Development
- Massachusetts Groundwater Discharge Permitting



*Collins & Aikman Plant Superfund, Farmington, NH*

### PROJECT SPOTLIGHT

Sanborn Head is conducting a remedial investigation/feasibility study (RI/FS) at the Collins & Aikman (former) Plant Superfund Site in Farmington, New Hampshire. The facility was historically used for the manufacture of instrumentation panel pads for automobiles and trucks.

Sanborn Head performed drilling and testing programs including high resolution site characterization (HRSC) as part of the source area investigation and downgradient plume delineation. The programs consisted of analysis of soil and groundwater samples for chlorinated volatile organic compounds (VOCs) using a mobile laboratory and the installation of CMT® multi-level groundwater monitoring wells in overburden and bedrock.



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