

## Nancy Nevins, P.G., LSP

### Principal Geologist/Office Manager

#### TECHNICAL SPECIALTIES

In over 25 years of environmental consulting experience, Ms. Nevins has developed, implemented and managed site investigation and remediation activities, ASTM Phase I/II Environmental Site Assessments, and regulatory compliance services under the Massachusetts Contingency Plan (MCP). Ms. Nevins' areas of expertise also include technical and managerial support of environmental litigation matters, including:

- Apportionment of liability and costs among PRPs;
- Cost recovery actions;
- Evaluation of compliance with NCP and State Regulatory programs;
- Assessment of the necessity and reasonableness of past remediation costs; and
- Estimation of future remediation costs.

#### EXPERIENCE SUMMARY

Over 25 years of experience: Principal Geologist/Office Manager, Roux (2018 – present); Senior Geologist, Roux (2001 through 2017); Project Geologist, IT Corporation (1997 – 2000); Project Geologist, Fluor Daniel GTI, Inc. (formerly Groundwater Technology, Inc.) (1995 – 1997); Field and Staff Geologist, Groundwater Technology (1991 – 1995).

#### CREDENTIALS

M.S. Geology, University of Rhode Island, 1991

B.S. Environmental Science, State University of New York at Purchase, 1982

#### CERTIFICATIONS

Massachusetts Licensed Site Professional (LSP) (No. 8439)

Professional Geologist, New Hampshire (No. 358)

#### AFFILIATION

Licensed Site Professional Association

#### PUBLICATIONS

“The Application of a Conceptual Groundwater Flow Model to Determine Potential Impacts to a Public Water Supply Well Located Near Several Surface Water Bodies,” Focus Conference on Eastern Region Groundwater Issues, October 1992, Newton, MA.

Ram, N.M., Schneider, M.W., Gerbig, C.A., Nevins, N., Love, A.H. “Allocating Cleanup Costs Among Potentially Responsible Parties.” *Remediation*, 2019; 30-33-45.

#### KEY PROJECTS

##### Site Assessment and Remediation

- Project manager and technical support for ASTM/AAI Phase I and II Environmental Site Assessments. Clients have included manufacturing facilities, law firms, and lending institutions.

- *Former Chemical Packaging and Distribution Facility, Middleborough, MA:* Coordination and management of an MCP Immediate Response Action to abate a risk to ecological receptors in a wetland due to elevated chlorinated hydrocarbons in sediment. Project included regrading of wetland area and wetland restoration, including preparation of a Notice of Intent application for work within a bordering vegetated wetland.
- *Former Chemical Manufacturing Facility, Gloucester, MA:* Conducted MCP response actions for a release of arsenic and lead into wetland, impacting surface water and sediments. Responsibilities included Phase I Initial Site Investigation activities, Tier Classification (Tier II), Phase II Comprehensive Site Assessment (including soil and groundwater sampling and a Method 3 Human Health and Ecological Risk Characterization), preparation of the Phase III Remedial Action Plan and Phase IV Remediation Implementation Plan. Provided coordination and oversight of the excavation of lead and arsenic-impacted sediment in a wetland to abate an imminent hazard. Final remedial action consisted of excavation and disposal of metal and PAH-impacted sediment and restoration of wetland. Prepared a Response Action Outcome Statement.
- *Former Specialty Gas Manufacturer, New Jersey.* Responsibilities included coordination of geophysical investigations at an industrial facility to determine locations where compressed gas cylinders were buried.
- *Former Metal Plating Facility, Mansfield, MA:* Managed all aspects of MCP response actions at a site where bedrock aquifer, numerous private wells and indoor air of residences were impacted by chlorinated solvents. This high-profile site required significant communication with the local Board of Health and residents of the community. Work included, comprehensive site assessment including geophysical study and bedrock assessment, preparation of the Phase II Comprehensive Site Assessment Report, routine sampling of an interim remediation system consisting of soil vapor extraction, air sparging and groundwater pump and treatment. Additional responsibilities were preparation and review of the Remedial Action Plan and remedial implementation along with the coordination and management of the installation of multiple phase high vacuum extraction system. Communicated with the Board of Health regarding site activities, including the completion of Fact Sheets for distribution to the impacted community.
- *Active Manufacturing Facility, Braintree, MA:* Coordinated all MCP response actions at a manufacturing facility where a trichloroethene release at the site resulted in a dissolved phase plume that

extended from beneath the facility into the adjacent wetland. Work consisted of completion of Notices of Intent for field work in wetland, preparation of the Phase II Comprehensive Site Assessment Report, oversight and preparation of the Remedial Action Plan and Remedial Implementation Plan, and oversight of an imminent hazard evaluation of elevated metals in wetland sediment and surface water.

- *Petroleum Bulk Storage Facility, Rhode Island:* Performed mapping of bedrock outcrops and fracture survey at this 800-acre site, evaluated data to identify primary groundwater migration pathways, and presented the geologic information in a comprehensive site assessment report.
- *Active Electronics Facility, Weymouth, MA:* Managed field tasks at an active defense-based electronics facility. This high-profile hazardous waste site (an MCP Public Involvement Site) was located directly upgradient of municipal water supply wells that contained chlorinated solvents exceeding Massachusetts drinking water standards. Work consisted of bedrock assessment (packer testing of bedrock boreholes), photolineament mapping of the region using aerial photographs, mapping of local bedrock outcrops, preparation of a detailed site assessment report, and subsequent presentation of findings at a public meeting. In addition, provided oversight of the installation of a groundwater pump-and-treat system installed in bedrock; and communication with regulatory agency.

#### Litigation Support

- *Commercial Facility in MA:* Provided opinions on whether Environmental Transaction Screen Reports for a commercial facility met the standard of care under ASTM E 1528-00 and E 1528-06.
- *Gowanus Canal Superfund Site, Brooklyn, NY:* Retained by multiple PRPs. Participated in evaluation of sources of PAH contamination in sediments and development of allocation model, as well as binding arbitration related to allocation of remedial design costs among PRPs for MGP tar and PAHs, and combined sewer overflows (CSOs).
- *Former Specialty Gas Manufacturer, East Rutherford, NJ:* Evaluated the contribution of chromium and mercury from client's historical wastewater discharge to an adjacent Superfund site and compared it with actual mass of these metals in sediments at the Superfund site. PRP at the Superfund site alleged our client was responsible for \$8M of a \$16M removal action for contribution of these metals at its site. Apportionment results indicated a de minimis contribution of chromium and mercury to adjacent site and were the basis for a \$300K settlement between our client and the Superfund site PRP.

- *Superfund Site in New Jersey:* Evaluated response actions at a Superfund site to determine compliance with the NCP and eligibility for cost recovery under the NCP. Project work included exhaustive review of site documents to compare work performed at three separate operable units with NCP requirements and applicable EPA guidance. Prepared courtroom exhibits in support of testimony.
- *Former Manufacturing Facility, Jersey City, New Jersey:* Managed litigation project in which overburden and bedrock were impacted by ethanolamines and ammonia. Responsibilities included evaluation of historical site data, work plan preparation, coordination, and management of a site assessment, and evaluation of geologic and hydrogeologic data.
- *Former Perchlorate Manufacturing Facility in Nevada:* Alleged fraudulent conveyance case during bankruptcy. Provided closure costs for remediation of a perchlorate plume using pump and treat technology at a former perchlorate manufacturing facility in Nevada.
- *Homeowners Adjacent to Historical Orchard Impacted by Lead and Arsenic in Weston, MA:* Work included review of MCP response actions performed by PRP, preparation of comments on the MCP Phase II Comprehensive Site Assessment and supplemental sampling activities, and participation in public meetings on behalf of the homeowners. As a result of our work, the footprint of arsenic impact in soils was determined to be significantly larger than originally estimated by the PRP's consultant.
- *Manufacturing Facility, New Hampshire:* Work included evaluation of site data to estimate the rate of migration of the dissolved phase plume, potential migration pathways, timing of the release and potential sources of chlorinated solvent plume that had impacted private wells.
- *Oil Spill in Buzzards Bay, MA:* Responsibilities included assessing the fate, transport and potential human health risks of a No. 6 fuel oil released into Buzzards Bay in 2003 and impacted the intertidal zone of the shoreline in MA.
- *Major Petroleum Company:* Completed evaluation of the timeliness and effectiveness of shoreline cleanup following a release of oil into the Gulf of Mexico. Included review and evaluation of Shoreline Cleanup and Assessment Technique (SCAT) data.
- *Retail Service Station, Georgia:* Work consisted of the preparation of a cost to closure estimate for an LNAPL plume from a UST release, and preparation of exhibits for trial. Technical approach included spill and cost modeling including HSSM and RACER.

- *City of Cambridge, MA:* Evaluated the source of asbestos and other contaminants in soils at a recreational field. Work concluded that the likely source was an adjacent former manufacturing facility. Also provided technical support in a subsequent mediation with the PRP of the adjacent facility that resulted in a favorable outcome for the client.
- *Industrial Client, New Jersey:* Evaluated source of trichloroethene and tetrachloroethene in the facility's bedrock production wells. Work concluded that TCE and PCE in the bedrock groundwater originated from an upgradient facility.

**HEALTH & SAFETY**

OSHA 29 CFR 1910.120 40-Hour Safety Training

OSHA 29 CFR 1910.120(e) (8) 8-Hour Refresher Training

DOT 49 CFR Hazardous Materials Awareness