



PROFESSIONAL PROFILE



Robert P. Trail, LSRP

Technical Director

CONTACT INFORMATION

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EDUCATION

BS, Geology, State University of
New York College at Oneonta,
1999

EXPERIENCE SUMMARY

Technical Director, Roux, 2022 – Present; Senior Project Manager and Project Manager with PT Consultants, Inc. 2010 – 2022; Project Professional, Delta Consultants (currently Antea Group) 2007 – 2010; Staff Geologist, Ransom Environmental, Inc. 2005 – 2007; Project Professional and Staff Professional, Delta Environmental Consultants, Inc. (currently Antea Group) 2001 – 2005; and Staff Geologist, JM Associates, Inc. 1999 – 2001.

TECHNICAL SPECIALTIES

Mr. Trail has over twenty-two years of experience in various aspects of environmental investigations, including services related to geology, hydrogeology, soil and groundwater characterization, soil and groundwater remediation, underground storage tank (UST) closures, and soil vapor investigations.

A Licensed Site Remediation Professional (LSRP) since 2017, Mr. Trail has a strong command of all aspects of the New Jersey regulatory environment, including the technical regulations and technical guidance documents associated with the New Jersey Industrial Site Recovery Act (ISRA) and New Jersey’s Technical Requirements for Site Remediation. Within the New Jersey regulatory program, Robert has prepared all stages of remedial phase documents, including Preliminary Assessment (PA), Site Investigation Reports (SIRs), Remedial Investigation Reports (RIRs), Remedial Action Workplans (RAWs), Remedial Action Reports (RARs), and Response Action Outcome (RAO) letters. Robert has implemented remedial action permits for soil and groundwater remediation through establishing Deed Notices and Classification Exception Areas (CEAs). Robert is also well-versed in the completion Biennial Certifications for soil and groundwater remediation projects.

REPRESENTATIVE PROJECTS

Site Investigation and Remediation

- **Post-Remediation Statistical Analyses.** Provided field oversight of full scale, multi-media remedial injection event and subsequent performance monitoring at a chlorinated volatile organic compound site in New Jersey. Tasks included documentation of all aspects of remedial injection, coordination of field staff, preparation of field work plans, compilation of all field notes, coordination of injection derived waste disposal, all post injection soil sampling, vapor intrusion sampling, and preparation of reports.
- **Industrial Site Recovery Act (ISRA), Newark, New Jersey, Industrial Property.** Property brought through the ISRA process in 14 months. Performed review of information related to historic investigation activities including underground storage tank removal and off-site source investigations. Conducted additional investigation activities to close data gaps identified during the historic file review process. Completed a Deed Restriction for on-site impacts related to historic fill materials, instituted the deed restriction in conjunction with a site-wide engineered cap as the remedial action for the property. Prepared all reports and forms required under the SRRA for submittal to the NJDEP.
- **Developer Portfolio Liquidation Industrial Site Recovery Act (ISRA) Cases, Pennsauken and West Berlin, New Jersey, Industrial Properties.** The client was seeking to liquidate a portfolio of commercial and industrial properties located in larger industrial parks. Multiple current and past tenants conducted operations which were applicable to ISRA. Fourteen properties required full ISRA Preliminary Assessments while two properties required De minimis Quantity Exemptions (DQE). Issued unrestricted use Response Action Outcome letters for all sites where preliminary assessments were conducted.



- **LNAPL Recovery, Sussex County, New Jersey.** Completed LNAPL recovery related to a release of Number 2 heating oil at a site in Sussex County, New Jersey. Interim remedial action included installation and operation of a solar power pneumatic skimmer system. Over the course of 2 years approximately 80 gallons of LNAPL were recovered and properly disposed of off-site. Once LNAPL was no longer present, the system was deactivated.
- **DNAPL Recovery and Treatment, Hackensack, New Jersey.** Mr. Trail took on remediation at a former dry cleaner located in Hackensack, New Jersey from the previous, outgoing LSRP. Site soil and groundwater were highly contaminated with tetrachloroethene (PCE), including a large pocket of DNAPL located beneath the site structure. Two separate soil excavation events were conducted to remove the shallow source area above groundwater, which is located at approximately 3 feet below ground surface. Remediation of the groundwater and DNAPL has been complicated by the clay and silt dominated varved glacial lake sediments beneath the Site. Two rounds of remedial injections utilizing ZVI have been completed. Initial results indicate source area control has been achieved around the DNAPL pocket; however, significant contaminant mass remains. Future work will include additional remediation to obtain a monitored natural attenuation remedial action.
- **Retail Petroleum Underground Storage Tank Closure, East Orange, New Jersey.** Completed field closure of a regulated UST system at a site in East Orange, New Jersey. Scope of work included removal of three existing gasoline, diesel fuel, and kerosene USTs and the associated piping and dispensers. A release of kerosene was discovered beneath the dispenser with a remedial soil excavation conducted.
- **Underground Storage Tank Closure, Aberdeen, New Jersey.** Mr. Trail directly oversaw the closure of multiple regulated USTs at a former commercial/industrial facility located in Aberdeen, New Jersey. The USTs were previously unknown and were discovered during site redevelopment. Work included the emergency scheduling of the tank closure, filing a Notice of Intent to Close with the NJDEP and requesting a variance not to wait the required 15 days before completing the closure, field oversight of the tank removals, and reporting to the NJDEP. A small remedial soil excavation was completed at one tank where field evidence indicated impacted soil was present. Post-excavation soil samples showed no remaining impacted soil was present at any of the tanks. A Response Action Outcome letter was issued, administratively closing the case.
- **Brownfield Redevelopment, Bogota, New Jersey.** Provided LSRP services for a redevelopment project of a former industrial and former bulk petroleum storage facility in Bogota, New Jersey. Work included importing 80,000 yards of fill material to cap the Site, including approximately 13,000 yards of alternative fill. The Site was subsequently capped with the new multi-tenant residential development. Established a Deed Notice as an institutional control.
- **Remedial Action Permit Compliance, Various Locations in New Jersey.** Responsible for Remedial Action Permit compliance for 47 soil and groundwater permits. Duties included site inspections, coordination of groundwater permit sampling, preparation of Biennial Certifications, filing extensions when required, and filing for permit terminations.
- **Monitored Natural Attenuation Remedial Action Permit, Sewell, New Jersey.** Completed remediation started by another consultant on a former automobile dealership located in Sewell, New Jersey containing leaking underground storage tanks. A Remedial Action Permit application had previously been rejected by the NJDEP where multiple deficiencies were noted. Mr. Trail was retained as LSRP to resolve the outstanding compliance issues and bring the Site to regulatory closure. Work included updated groundwater sampling, horizontal groundwater delineation, vapor intrusion sampling, and receptor surveys. Following completion of a Remedial Action Report, a groundwater permit was obtained from the NJDEP. The project remains in post-remedial care for groundwater monitored natural attenuation.