

TECHNICAL SPECIALTIES

Experienced environmental professional managing investigation and remediation of brownfield sites in the New York Metropolitan region. Mr. Levine has supervised remediation and closure of sites in the New York State Brownfields Cleanup Program, State Superfund Program, Spills Program, New York City Voluntary Cleanup Program, and E-designation Program. Mr. Levine has managed USEPA Class V injection well closure, Phase I and Phase II Environmental Site Assessments, installed soil, soil vapor and groundwater remediation systems, subsurface piping design, free-product and groundwater recovery systems, sub-slab depressurization systems, landfill cap design and permitting.

EXPERIENCE SUMMARY

Nineteen years of experience: Principal, Senior Engineer, Project Engineer, Staff Engineer with Roux Associates; Staff with First Coastal Corporation; Research Assistant with Tulane University.

CREDENTIALS

Professional Engineer, State of New York, 2007
B.S.E., Environmental Engineering, Tulane University 1997.
OSHA 40-hour Health & Safety Course, 2000.
OSHA 8-hour Health & Safety Refresher Course, 2001 through 2017.

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers
Urban Land Institute
International Council of Shopping Centers
National Society of Professional Engineers
The Retail Network

KEY PROJECTS

- Principal Engineer responsible for the investigation and remediation of a 1.5 acre site located in the Hudson Yards District in Manhattan, New York. The site is enrolled in the New York State Brownfields Cleanup Program (BCP) and will undergo a Track 1 Unrestricted Use Cleanup to remove hazardous mercury and lead contaminated soil from a former hatters' fur processing factory.
- Principal Engineer responsible for the investigation and remediation of a 7-parcel waterfront development on the East River in Astoria, New York. Parcels are enrolled in the New York State BCP and New York City Office of Environmental Remediation E-designation and Voluntary Cleanup Programs (VCP). The site was historically occupied by various commercial and industrial establishments including Manufactured Gas Plants (MGP), a lumber company, iron works, and a coal-fired electric generating station. Remedial actions include excavation of soil and rock, installation of a vapor barrier, and installation and maintenance of a sub-slab depressurization system (SSDS). Roux began providing services to the project

in 2013 and the project is expected to run through 2030 with sequential remedial action and development of the remaining parcels. Once completed, the site will consist of a mixed-use development with housing (both affordable and market-rate), retail, a waterfront esplanade, and parking.

- Principal Engineer responsible for managing the investigation and remediation of several portions of a 3 acre BCP Site in Long Island City, New York. The site was formally used for the manufacturing and storage of disinfectants, soaps and pesticides. This project included due diligence environmental investigations (onsite and offsite) that identified a large creosote plume beneath portions of the site and 45 subsurface vaults/kettles, which contained chemicals used for the manufacturing of disinfectants, soaps and pesticides. Mr. Levine managed an in situ waste characterization sampling program and implementation of a Remedial Action Work Plan, which included the removal and closure of the 45 subsurface vaults/kettles contents and structures, excavation of soils below grade and soil management, design, installation and operation of a recovery well and an in situ chemical oxidation (ISCO) program utilizing alkaline-activated Persulfate.
- Principal Engineer responsible for management, investigation and remediation of a one-acre brownfield site containing chlorinated solvents, heavy metals and petroleum compounds in soil, soil vapor and groundwater over one city block in Manhattan, New York. This project included the implementation of a remedial investigation and completion of a Track 1 unrestricted use remediation through the New York State Brownfields Cleanup Program. Mr. Levine managed a groundwater, soil and soil vapor investigation and documented this work in a Remedial Investigation Summary Report less than one week after receipt of the analytical data. In addition, Mr. Levine prepared and submitted a BCP Application to NYSDEC within this same time frame that generated over 35 million dollars in tax credits. Due to careful attention to detail throughout the process and correspondence with NYSDEC, the BCP Application was deemed complete one day after it was submitted, expediting the process to conduct the investigation and remediation within the BCP.
- Principal Engineer and Environmental Site Professional responsible for procuring, supervising and approval of multiple Phase I and Phase II environmental site assessments throughout the New York City Metropolitan region. Mr. Levine has established a strong reputation within the New York City regional real estate market for delivering a quality due diligence work product in a timely manner to assist in real estate transactions.
- Principal Engineer responsible for the investigation and remediation of an occupied self storage warehouse facility in Staten Island under the jurisdiction of the New York City Mayor's Office of Environmental Remediation (NYCOER). This project was completed through the New York City

Voluntary Cleanup Program and resulted in a Notice of Completion in 2013.

- Mr. Levine was responsible for the pilot testing, design and installation of a sub-slab depressurization system (SSDS) to mitigate chlorinated solvent soil vapor contamination beneath an existing occupied shopping mall in Clifton, New Jersey. This project was completed within strict New Jersey Department of Environmental Protection regulatory response timeframes due to the site's Immediate Environmental Concern (IEC) status.
- Principal Engineer responsible for the design and installation of a vapor barrier and sub-membrane depressurization system to prevent vapor intrusion into a former factory building, which is being converted into a residential structure at a Superfund Site in Sag Harbor, NY. Mr. Levine prepared design drawings and a description of proposed engineering controls for inclusion within the Site Management Plan that was submitted to NYSDEC. Mr. Levine developed engineering cost estimates for the construction of the vapor barrier and sub-membrane depressurization system. Net present value cost comparisons were performed for 30-year operation of an active depressurization system (with blowers for active vapor recovery) vs. 30-year operation of a passive depressurization system (piping network without blowers). The active depressurization system was proven most appropriate due to the greater level of protection provided by active blower operation when compared to the cost differential between the active and passive systems. In addition, Mr. Levine developed a vacuum enhanced product recovery program to expedite the closure of the site's open NYSDEC spill numbers.
- Senior Engineer responsible for managing the closure and abandonment of 53 Class V drywell structures at commercial warehouse facility in Syosset, New York. The drywell abandonment project was conducted in accordance with the USEPA Underground Injection Control Program as administered by Nassau County Department of Health (NCDOH). The project required coordination with the client and the facility operations, the client's onsite developer and his subcontractors, the NCDOH, the USEPA, the local union representatives, Nassau County Department of Public Works, and subcontractors. Mr. Levine prepared all of the work plans, memoranda and summary reports in order to fulfill NCDOH and USEPA's requirements in order to obtain a No Further Action Letter, which was received in November 2007.
- Mr. Levine managed the remediation of eight drywell and catch basin structures at a major truck rental facility in Ronkonkoma, New York. The drywell remediation project was conducted in accordance with the Suffolk County Article XII requirements and entailed coordination with the client and the facility operations, the client's subcontractor, the client's laboratory, Suffolk County Department of Health (SCDOH), and Suffolk County Department of Public

Works. This project was unique in that all of the drywell remediation pre-characterization and remediation work had to be completed within one month of receiving preliminary characterization data from SCDOH, with a threat of monetary penalty if this schedule was exceeded. Mr. Levine was able to achieve the project objective of completing the remediation in the timeframe specified by SCDOH. Mr. Levine prepared daily client updates prepared the Remediation Summary Report and follow up correspondence with SCDOH to make sure that they were satisfied with the project.

- Project Engineer and Project Manager responsible for conceptual design, final design, and construction management of a groundwater recovery and treatment system at an active petroleum terminal in New Windsor, New York. This project used the results of a comprehensive site specific soil and groundwater investigation to design the groundwater recovery and treatment system. Primarily responsible for the development and preparation of technical specifications (including Bid Documents (bid form and bid instructions) per Construction Specifications Institute (CSI) format and Engineers Joint Contract Document Committee (EJCDC) General Conditions for Division 0, piping material and valve schedule, major equipment list, instrumentation and control equipment list, technical operating system and control logic description, Health and Safety Plan, Community Air Monitoring Plan, Geosynthetic Clay Liner Repair Protocol), Contract design drawings, process and instrumentation diagram preparation, contractor bidding services and field supervision, construction submittal review, Remedial Action Summary Report including "As-Built" drawings and Operations, Maintenance, and Monitoring Plan per NYSDEC DER-10.
- Project Engineer and Project Manager responsible for design upgrades and overseeing remediation operations at five formerly active petroleum terminals and one active petroleum terminal in the New York region. These six sites required system optimizations to improve protection of public health and the environment and consistently maintain peak performance of two soil vapor extraction systems and two groundwater remediation systems, while concurrently fulfilling NYSDEC regulatory reporting requirements per New York Code of Rules and Regulations (6 NYCRR) Part 750. Associated tasks include scheduling and management of staff and technical personnel, preparation of preparation of divestment summary evaluations, NYSDEC quarterly monitoring reports, discharge monitoring reports, system performance monitoring, groundwater sampling and water measurements, coordinating facility upgrades and routine equipment maintenance. Obtained closure of the existing NYSDEC spill numbers at two sites, resulting in no further remedial activity necessary.