

James A. Luker, Jr., CPG, LSP

Project Manager/Licensed Site Professional

Education: M.S., Geological Sciences, Eastern Washington University, 1985
B.S. Geological Sciences, Western Washington University, 1982

Qualifications:

- OSHA 40-hour Hazardous Waste Site Operations Training
- OSHA 40-hour Hazardous Waste Site Operations Refresher
- Authorized OSHA Construction Outreach Trainer

Present Position: **GREEN SEAL ENVIRONMENTAL, INC. (GSE)**
Mr. Luker is responsible for the supervision and coordination of environmental engineering projects within the Environmental Group at Green Seal Environmental.

Representative Experience: Mr. Luker brings over 20 years of consulting experience involving investigations, site characterization and remedial actions in a wide variety of environmental engineering projects. Mr. Luker has extensive experience in working with municipal officials, regulatory personnel and Citizens groups. Mr. Luker has been involved in the following representative projects:

SITE RESTORATION – BROWN FIELDS

- Hingham former Naval Ammunitions Depot - WWI and WWII military base being redeveloped for recreation and town facilities DPW. LSP of Record for seven releases site wide. Responsible for development of remediation strategies for all seven locations in conjunction with redevelopment.
- FB Rodgers - Former Silversmith mill located on the Taunton River; EPA funded project. Completed a Phase II comprehensive site assessment and a redevelopment plan.
- Robertson Mill, Taunton, MA - Licensed Site Professional of Record for the redevelopment of an historic mill along the Taunton River. This EPA funded clean-up received an award for outstanding excellence.
- WEIR Corporation, Taunton, MA - “Weir Village” is an industrial area of Taunton with abandoned mill buildings, coal gasification plants, tanneries and other industrial properties. The City of Taunton and Weir Corporation have been successful in receiving some of the largest EPA grants and loans for this area. To date over a dozen properties have been restored. Mr. Luker has been providing his expertise in conducting outreach meeting to the community and overseeing environmental assessments for these projects.
- Georgetown Conservation Commission, Georgetown, MA - As the environmental consultant, Gale reviews proposed assessment and remediation activities adjacent to wetlands and provides technical opinions and recommendations on such projects; Gale’s opinions and recommendations are presented at public meetings for discussion, then incorporated into the conditions written by the Conservation Commission as deemed necessary
- Weymouth, MA - For two concurrent years, Gale was awarded the Technical Assistance Grant for the Town of Weymouth; we provided environmental review services for hazardous waste sites in Weymouth including the Weymouth Naval Air Station, an EPA Superfund Site; Gale’s opinions were presented at mandatory public meetings for those sites deemed as Public Involvement Plan (PIP) sites by the state

- Burlington Board of Health, Burlington, MA - Gale was selected as the environmental consultant for the review and interpretation of assessment and remedial activities at several adjacent gas stations; as a result of releases from these gas stations, the contaminant plumes had migrated, commingled, and impacted indoor air at adjacent residences and offices; Gale's technical review of these sites was presented at public meetings and enabled the Board of Health to compel specific sites to abate the identified imminent hazards
- Middleboro Gas and Electric Coal Gasification Plant - Gale is completing the remediation of the coal gasification plant that was in operation for over 40 years. Remediation includes free-product removal and Method 3 Risk Assessment.
- Stoneham Public Schools, Stoneham MA - Mr. Luker was selected to investigate and remediate a railroad bed along the proposed new elementary school site in Stoneham. Mr. Luker worked closely with the DEP, School Building Committee, Town Administrator, as well as the citizens group (Parents for Stoneham Healthy Schools) to reach a mutually agreeable remedial solution. The project was completed and the school was open in Fall of 2001.
- Camp Edwards (Otis Air Force Base) EPA Superfund Site, Sandwich, MA - Responsible for the preparation of specifications for the hazardous material removal and asbestos abatement for the former power plant and refrigeration storage buildings at Camp Edwards. The project involved the removal of over 200,000 gallons of PCB-contaminated water.
- Fort Devens, Havard, MA, EPA Superfund Site - Mr. Luker managed the environmental issues related to the construction of a new 18-hole golf course at this facility. This entailed completing a detailed site assessment of the area and identifying remaining hazards. The second phase of the project involved the removal of a number of residential structures and former ammunition supply buildings.
- Town of Middleborough, DPW Facility - Mr. Luker was the project manager and Licensed Site Professional for the release of gasoline at this facility that resulted in soil and groundwater contamination. This site was successfully closed in December 2001.
- Groton, MA - Conducted a hydrogeological evaluation at a state-owned former hospital that had operated an unpermitted landfill for over 60 years. Made recommendations for in-place closure of the landfill to the Department of Environmental Protection.
- Town of Canton, DWP Facility - Mr. Luker is the project manager and Licensed Site Professional for an ongoing soil and groundwater remediation project at this facility.
- East Street, Weymouth, MA - Prepared the necessary LSP submittals to allow an abandoned metal impacted industrial property in Weymouth to be developed into a self storage facility.
- Metropolitan District Commission, Shaffer Paper, Dorchester, MA Supervised the investigation of the former Shaffer Paper industrial site along the Neponset River. This MDC site is being developed as part of the State's Master Plan for a park system along the Neponset River.
- Private Client, Westwood, MA - former concrete block manufacturer with free-floating hydraulic oil upon the water table. Mr Luker designed and implemented a passive recovery system and completed both the Phase II and Phase III investigation.
- Gambro Health Care, Brookline, MA - During the construction and renovation of a

new dialysis center, free-floating oil was found deep below the building foundation. Mr. Luker acted as the project manager and LSP-of-record to treat and recover the oil in place using a bioremediation/recalculation technique. The site was successfully closed within one year and has since been audited by DEP without any violations.

GROUNDWATER AND SOIL REMEDIATION PROJECTS

- Sandwich, MA, Private residence - Mr. Luker acted as the project manager and LSP-of-record for the remediation of an oil release within a drinking water resource area. The project involved lifting the structure off its foundation and conducting remedial actions. The site was successfully closed in 2001.
- Avon, MA - Provided engineering oversight to the sudden release of 3,000 gallons of gasoline at the Department of Public Works. Performed emergency response actions including the implementation of a pump and treat system. The site was located between the Avon and Brockton water supplies and considered a priority site.
- Massachusetts - Working for insurance companies, performed and supervised a number of clean ups involving release of oil at private residences (basement spills).
- Weymouth, MA - Implemented a short-term measure design to pump and treat groundwater contaminated with chlorinated hydrocarbons for a glue manufacturer.
- Gasoline Service Stations - Numerous site assessments and tank removals at service stations in New Hampshire and Massachusetts. Remedial action at both priority and non-priority sites in Massachusetts. The remedial actions included groundwater pump and treat systems using carbon canisters and vapor extraction systems. All work conducted under the Massachusetts Contingency Plan (MCP).
- U.S. Coast Guard, Brooklyn, NY - Hydrogeologic review and oversight of a 90,000 gallon release of jet fuel at Coast Guard Air Base. The project involves the implementation of the remedial design and the creation of a comprehensive remedial plan, including on-site treatment of soil using bio-remediation.
- Continental Airlines, LaGuardia Airport, Flushing, NY - Project geologist of a major hanger renovation demolition program that included the removal of an entire underground fuel farm containing 20 USTs. Responsible for directing the installation of monitoring wells and developing the remedial system.
- G.E. Facility, Everett, MA - Project involved the City of Everett acquiring the G.E. facility. The Land Bank for the City of Everett hired a consultant to oversee the environmental activities being performed by G.E.'s consultant (CDM). The city's objective is to make the industrial facility into a recreational area for Everett.
- Publishing Company, Chicago, IL - Project Manager on a remedial action involving a leaking UST. Project involved subsurface investigation, installing monitoring wells, and overseeing a soil gas survey. Acting as liaison between this client and the Illinois State Department.
- United Refining, Johnson City, NY - Emergency response to a leaking UST at a convenience store 1500 feet from municipal water supply. As project manager in charge, stabilized the situation and acted as liaison between client as NY DEC and directed the groundwater/soil remediation plan.
- TNCO, Whitman, MA - Acted as project manager for the site remediation of groundwater contamination at an industrial facility. Work included installation of a groundwater treatment system for the removal of chlorinated hydrocarbons from

groundwater.

- Belmont Police Station, Belmont, MA - Project Manager overseeing tank removal and remediation of leaking UST. Work included a passive remediation plan and alternative disposal methods for gasoline-contaminated soil.
- Cohasset High School, Cohasset, MA - Project manager for UST leakage of fuel oil. Project involved detail hydrogeologic study and remediation of contaminated soil.
- Adhesive Manufacturing Plant, Lynn, MA - Project manager for on-going groundwater remediation project with free-phase floating product (toluene) that had migrated into the building foundation, under an adjacent roadway and into the abutting waterway.

UNDERGROUND STORAGE TANK PROJECTS

- Metropolitan District Commission - Project Manager for a 3-year term \$450,000 contract with the MDC. Mr. Luker has been involved with over 30 UST removals on this project, as well as associated soil and groundwater remediation for sites in the Boston area.
- Dana Farber Cancer Institute - Using innovative technologies, successfully closed in place a 10,000 gallon UST located in an urban area where removal was difficult.
- Scituate Schools - Project Manager for the removal and replacement of 8 USTs ranging from 5,000 to 12,000 gallons in size. All tanks were removed and closed according to DEP regulations within 60 days. Five of the eight tanks had a release of oil.
- Town of Middleboro - Project Manager for a Town-wide UST removal project and design and installation of AST central fuel system. The project involved designing a new installation within a historical section of Middleboro.
- Town of Canton - Project Manager for a central fueling facility to be used for the Fire Department and Department of Public Works. GALE was responsible for preparing the bid specification.

TECHNICAL ASSISTANCE GRANTS RECEIVED BY DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP)

- City of Weymouth - Mr. Luker reviewed technical reports and regulatory status for three Tier 1A Sites listed by the DEP. One location threatened the municipal water supply. The other location was the EPA Superfund Site, Weymouth Air Station. Mr. Luker presented at public meetings at City Hall, as well as attending and presenting to the Naval Air Station Restoration Advisory Board (RAB) and citizens groups. Mr. Luker assisted in the renewal of the grant and continued his involvement for two years.
- WEIR Corporation - a Community Development Corporation (CDC), whose mission is to improve the economic development of the City of Taunton. Mr. Luker provided outreach and educational presentations regarding the clean-up efforts of six Brownfield sites located in the Weir Riverside Area. Mr. Luker made presentations, provided site visits, and performed technical review. Mr. Luker assisted in the renewal of the grant.
- North Reading/Reading Ipswich Stream Team, Reading, MA - Mr. Luker interacted with the DEP, local officials and Citizens group for four Tier 1a sites where groundwater contamination threatens the health of the Ipswich River and the Reading Water Supply. Mr. Luker has made presentations, reviewed technical documents, and conducted site visits. Mr. Luker has received the grant for two consecutive years.

HAZARDOUS, MIXED AND SOLID WASTE MANAGEMENT

- Norwood, MA - Performed a detailed subsurface investigation on a superfund site contaminated with PCBs. The investigation successfully determined the limit of the PCB contamination and allowed for the commercial development of a portion of the site.
- Taunton, MA - Provided the engineering oversight for a field investigation and removal of oil and PCB laden soil at an electric substation for a major utility company.

ENVIRONMENTAL PROPERTY AUDITS AND RISK ASSESSMENTS

- Nationwide - Acted as project manager on over 50 environmental site assessments in MA, NY, OH, DE, NH, NJ, CT, FL and PA. These assessments have varied in scope from simple record-review to detailed hydrogeologic and subsurface investigations.
- New York State - Involved with a \$200 million real estate transaction for 29 properties in the Hudson Valley Region of Upstate New York. These properties had known contamination problems involving chlorinated hydrocarbons in an aquifer being utilized for drinking water purposes. Mr. Luker was instrumental in providing explanation on the environmental risks associated with these problems.
- Chicago Area - Performed numerous subsurface investigations for Grubb and Ellis Realty Advisors throughout the country. This work involved environmental assessments of light industrial properties in extremely short time frames.

Professional Registrations:

Licensed Site Professional (LSP) – MA #6522, 1994
Registered Professional Geologist –State of New Hampshire #287
American Institute of Professional Geologists (CPG)
Certified Professional Geologist – National #8046
Registered Professional Geologist – DE #427, 1989, TN #1246, 1990

Professional Societies and Affiliations:

Association of Groundwater Scientists and Engineers
Association of Engineering Geologists
Geological Society of America

Awards:

Science for the Benefit of Environmental Health - From the Boston University Superfund Basic Research Program and the National Institute of Environmental Health Sciences, March 2008