



Credere Associates LLC

Allison S. Drouin, PG, CG
Technical Lead/Assistant Project Manager
Senior Geologist

**PROFESSIONAL
CERTIFICATIONS**

NH Prof. Geologist #00863
ME Cert. Geologist #GE589

TRAINING

- ▲ 40-hour OSHA 29 CFR 1910.120 HAZWOPER Course.
- ▲ 8-hour HAZWOPER Refresher (June 2019)
- ▲ OSHA C4 HAZWOPER Supervisor Course
- ▲ OSHA 29 CFR 1910.146 Confined Space Initial Training
- ▲ Waterborne Radon Certification (ID# NRPP-78)
- ▲ ASTM Phase I and Phase II Environmental Site Assessment, Continuing Obligations
- ▲ USACE/NAVFAC Construction Quality Management (CQM) Training

EDUCATION

- ▲ B.S. Geology and Environmental Studies, 2009 St. Lawrence University, Canton, NY

**PROFESSIONAL
ORGANIZATIONS**

- ▲ Interstate Technology & Regulatory Council, Incremental Sampling Methodology (ISM) Team Member (current)
- ▲ Geological Society of America (2018)
- ▲ Geological Society of Maine (2012)
- ▲ Inactive Alumni Member of Sigma Gamma Epsilon (2007)

HIGHLIGHTS OF EXPERIENCE

Ms. Allison Drouin is a Technical Lead, Assistant Project Manager, and Senior Geologist with Credere Associates, LLC and holds a Bachelor of Science degree in Geology and Environmental Studies from St. Lawrence University (2009). She has experience in management of a wide range of projects and quality control implementation as well as a field sampling procedures, geotechnical exploration, contractor cleanup oversight with environmental monitoring, and reporting experience. She has experience working on a variety of types of sites including Federal Formerly Used Defense Sites (FUDS), industrial mills, infrastructure, and residences.

Environmental Site Assessments

Ms. Drouin has completed numerous Phase I and Phase II Environmental Site Assessments (ESAs) for sites in Maine, Massachusetts, New Hampshire, Vermont, Maryland, Rhode Island, New York, and Texas. Ms. Drouin's responsibilities include all aspects of an ASTM compliant Phase I/II ESA including site inspection, records review, interview and report preparation; preparation of conceptual site model, data gap analyses and sampling plans; planning, organizing and implementing field tasks including soil borings, well installation, low flow groundwater sampling, sub-slab soil gas sampling, indoor air sampling, hazardous building material sampling, and test pitting; managing field staff/programs; preparation and/or technical review of assessment reports; and aspects of quality control. Ms. Drouin's experience has focused primarily on chlorinated dense non-aqueous phase liquid (DNAPL) assessment and natural attenuation monitoring, Toxic Substances Control Act (TSCA) regulated polychlorinated biphenyl (PCB) assessment and cleanup, and most commonly petroleum and urban fill investigations.

BROWNFIELDS EXPERIENCE

Ms. Drouin has performed some of the above environmental assessments under USEPA funded Brownfields program. She has performed Phase I and Phase II Environmental Site Assessment and preliminary cleanup reporting including Analysis of Brownfields Cleanup Alternatives (ABCAs), Community Relations Plans (CRP), Quality Assurance Project Plans (QAPPs) and health and safety plans. Ms. Drouin has also managed execution of multiple Brownfields Cleanup projects. Ms. Drouin has worked with the following Brownfields programs:

Windham Regional Commission (WRC)

Ms. Drouin is actively serving as the Project Manager for Credere's work with WRC in the Brattleboro, Vermont region. Credere has support WRC in their assessment of the Unified Data property in Grafton, VT. The Site was assessed for soil, groundwater, sub-slab and indoor air contamination associated with a historical solvent release. Credere prepared an Evaluation of Corrective Action Alternative (ECAA) and Corrective Action Plan (CAP) to address indoor air contamination at the property. A cleanup pilot study is planned for Summer/Fall 2019.

Greater Portland Council of Governments (GPCOG)

Ms. Drouin is actively working on the GPCOG Brownfields Hazardous Materials and Petroleum Assessment Program and Revolving Loan Fund (RLF). Ms. Drouin's responsibilities include management of Phase I ESA management and review, review and/or preparation of Site-Specific Quality Assurance Project Plans (SSQAPP), coordination and management of

field activities in accordance with the approved SSQAPP, preparation and technical review of Phase II reports, data usability evaluations, and cleanup planning. Ms. Drouin also performed assessment activities on former GPCOG projects as a field lead (listed to the right). GPCOG projects Ms. Drouin is (has) working on include:

- Thompson's Point, Lots 14-15, Portland, Maine
- Children's Museum at Thompson's Point, Portland, ME
- Cliff Island Fueling Station, Peaks Island, Portland, ME
- City of Westbrook Riverwalk, Westbrook, ME
- Maine Narrow Gauge Railroad, Gray, ME

Upper Valley Lake Sunapee Region Planning Commission (UVLSRPC)

Ms. Drouin worked on the UVLSRPC Brownfields Assessment Program. Ms. Drouin's responsibilities included management and review of all Phase I ESAs completed under the project, and technical review and assistant management of Phase II ESA and cleanup planning. Recent UVLSRPC projects include:

- Topstone Mill, Claremont, NH
- 56 Opera House Square, Claremont, NH

Central New Hampshire Regional Planning Commission (CNHRPC)

Ms. Drouin worked on the CNHRPC Brownfields Hazardous Materials and Petroleum Assessment Program. Ms. Drouin's responsibilities included Phase I ESA management and review, review and/or preparation of Site-Specific Quality Assurance Project Plans (SSQAPP), coordination and management of field activities in accordance with the approved SSQAPP, preparation and technical review of Phase II reports, data usability evaluations, and cleanup planning. CNHRPC projects Ms. Drouin has worked on include:

- Allied Leather Tannery, Boscawen, NH
- Naughton Landfill, Bradford, NH

City of Biddeford, Maine

Ms. Drouin served as the Project Lead for the City of Biddeford's Environmental Services agreement. Recently Ms. Drouin managed the cleanup of the FPL and Elevated Platform Sites. Ms. Drouin has prepared and obtained Maine DEP and EPA approval for the FPL projects ABCA/Remedial Action Plan, SSQAPP, CRP, and Voluntary Response Action Program (VRAP) application and documents. Ms. Drouin prepared the Remediation Summary Report to obtain the Maine DEP Certificate of Completion. Ms. Drouin also coordinated similar cleanup activities at the adjoining Elevated Platform Property that was reconstructed/redeveloped simultaneously with FPL. Ms. Drouin was responsible for completion of Phase I and Phase II work elsewhere in the City of Biddeford. Projects for the City of Biddeford include:

- Pate Auto, Elm Street, Biddeford, Maine
- FPL, Biddeford, Maine
- Elevated Platform, Mill Yard, Biddeford, Maine
- Voltigeur Snowshoe Club, Biddeford, Maine

FEDERAL EXPERIENCE

Ms. Drouin has participated in several federal projects as a technical lead and project manager. She has coordinated field mobilizations, performed quality control in accordance with applicable federal standards, completed technical analysis of data, and mediated the many moving parts involved in the federal work/contracting process.

Former Loring Air Force Base Formerly Used Defense Sites (FUDS), Northern Maine

Ms. Drouin has managed the intended closeout of three Maine FUDS Sites under contract with the U.S. Army Corp of Engineers (USACE) since 2014. Ms. Drouin reviewed and summarized historical data collected between 1992 and 2014 for the Laundry Annex, Communication Annex, and LO-13 Launch and Control Sites. She prepared a conceptual site model for each site to best understand possible data gaps and prepare the data for use in a Human Health Risk Assessment. Data were also reviewed to determine the most appropriate path for closure under CERCLA or the Maine Petroleum Program. Based on identified data gaps and the results of the preliminary risk screenings (completed by others), additional work was required. Ms. Drouin prepared the SAP/QAPP, managed execution of the field program in accordance with the SAP/QAPP, and coordinated/reviewed the validation of the data for presentation in a Trip Report. At this time, only one of the sites, the Communication Annex, has been closed and Remedial Investigation reports are current being reviewed by project stakeholders. Ms. Drouin is currently managing the abandonment of monitoring wells at the Communication Annex as final step to closeout the project under the FUDS Program Policy.

Gould Island, FUDS, Narragansett Bay, Rhode Island

Ms. Drouin serves as the technical lead for Credere's Gould Island contract with USACE on the Architecture and Engineer (AE) Hazardous, Toxic, and Radioactive Waste (HTRW) contract. Ms. Drouin prepared and oversaw the execution of an extensive sampling program that consisted of over 300 samples, management of the data in FUDSChem, and evaluation of the data for data gaps. The project is currently in the process of demolition structures that inhibit further assessment and Ms. Drouin will oversee continued execution of the RI, which is planned to include a QAPP addendum, FUDSChem planning and management, and collection of an additional approximately 300 samples. These data will then be used in a Human Health and Ecological Risk assessment to assess the Site as part of an RI.

Bucks Harbor Ground to Air Transmitter/Receiver (GATR) and Glenburn Ground to Air Transmitter (GAT) Sites, Maine

Ms. Drouin has participated in the Long-Term Monitoring programs at the Bucks Harbor GATR and Glenburn GAT Sites since 2014. Ms. Drouin also performed technical review of the data that included statistical evaluation of results and natural attenuation assessment (e.g., dechlorination, mass flux). Ms. Drouin has participated in technical discussions of the data with USACE and subsequently Maine DEP.

Naval Education and Training Center (NETC), Melville North Area (AOC #1), Portsmouth, Rhode Island

Ms. Drouin served in a technical roll in review of long-term monitoring at the NETC Melville site where a No. 6 fuel oil NAPL plume is being monitored. Based on the results, she participated in discussions for maximization of the program and possible active NAPL removal since current methods did not appear to be affecting the plume thickness. Ms. Drouin prepared the monitoring report and coordinated the third party data validation. This monitoring is ongoing and is planned for another round in the summer of 2019.

Naval Support Activity Cutler, Site 7 South Helix House, Cutler, Maine

Ms. Drouin is currently supporting the cleanup of PCBs in soil as subcontractor to the Prime contractor contracted with the Department of the Navy. Ms. Drouin supported the preparation of health and safety documents and designed the ISM confirmatory sampling approach that maintains compliance with TSCA grid sampling. Ms. Drouin prepared the QAPP for this project and played a leading role in the systemic planning process for the sample design.

Dow Air Force Base Salvage Yard, Bangor, Maine

Ms. Drouin is serving as the Technical lead and Senior Geologist for the assessment to support an RI. Ms. Drouin has played a leading role in the extensive project planning process including systemic planning, project team meetings, and preparation of the QAPP. Ms. Drouin is currently coordinating FUDSChem event planning and preparation of the eQAPP. Work is planned to be executed in the Summer/Fall of 2019.

REMEDIATION/CLEANUP PROJECTS

Ms. Drouin has participated in numerous cleanup projects including the St. Albans Air Force Station Coal Ash Pre-Design and restoration in St. Albans, Vermont; Brewer Middle School in Brewer, Maine; Unity Grammar School in Unity, Maine; Gunn Block in Springfield, Massachusetts; and Marble Block, in Biddeford, Maine. Ms. Drouin also managed several private cleanup including the Thompson's Point redevelopment, Brewer Public Works property into a brewery and restaurant, a credit union development in downtown Portland, Maine, and mixed use developments in Portland, Maine and Concord, New Hampshire. Ms. Drouin also has experience with Remediation Closure Reporting and a variety of remediation technologies include soil excavation and offsite disposal; in-situ treatment with hydrogen peroxide; onsite stabilization of lead soils for offsite disposal; and pump and treat of LNAPL impacted groundwater.

OTHER

Ms. Drouin is responsible for maintaining Credere's Brownfields generic Quality Assurance Project Plan. Ms. Drouin maintains the QAPP with current information, updates analytical sensitivity data and laboratory practical quantitation limits (PQLs), and incorporates new information and emerging technologies/procedures/contaminants as they become applicable.

Ms. Drouin is also responsible for assisting Theresa Patten, President of Credere, with Credere's general quality control program. Ms. Drouin maintains Credere's Corporate Quality Control Plan, prepares and revises as necessary Credere Standard Operating Procedures (SOPs), and performs project quality control with regard to evaluation of SSQAPP/QAPP/SAP/Work Plan/Proposal compliance through field audits and review of field documentation.