

## AREAS OF EXPERTISE

- Site Investigation Involving NAPL/DNAPL in Porous and Fractured Media
- Numerical Modeling of Subsurface NAPL and Chemical Fate & Transport
- Remedial Engineering and Design Combined with Environmental Simulations

## EDUCATION

Master of Arts, Geology, Boston University, MA – 1984

Continuing Education in Earth Sciences at University of New Hampshire, NH – 1992 and 1994

Bachelor of Science, Natural Resources University of Massachusetts, Amherst, MA – 1977

## PROFESSIONAL HISTORY

Aries Engineering, Director of Hydrogeologic Investigations

EPA Region I, Regional Site Project Officer

Love Canal Assessment Program

## REGISTRATION

- Professional Geologist
- New Hampshire
  - North Carolina
  - Kentucky
  - Arkansas
  - Maine

## AFFILIATIONS

Association of Groundwater Scientists and Engineers

New Hampshire Geological Society

National Water Well Association

## REPRESENTATIVE EXPERIENCE

Peter McGlew is a Licensed Professional Geologist, Certified Groundwater Professional, and a Massachusetts Licensed Site Professional (LSP) specializing in hydrogeology including subsurface chemical fate and transport and hazardous waste site remediation. Mr. McGlew has provided technical services to industrial clients, insurance companies, potentially responsible parties (PRPs) and municipalities on Superfund sites, former manufactured gas plant (MGP) sites and hazardous waste sites. He has conducted numerous investigation and remedial response actions at petroleum contaminated sites since 1979. His consulting work involved remediating difficult gasoline releases to fractured bedrock sand and gravel aquifers presenting threats to off-site water supply wells where he was instrumental in the application of a fluidized bed bioreactor and monitored natural attenuation as well as other remedies to treat MTBE and other oxygenates. He has worked with the NH Oil Discharge and Disposal Cleanup Fund since its inception in 1988.

Mr. McGlew has directed remedial investigations, feasibility studies, and remedial designs at 30 Superfund Sites and many hazardous waste sites. He performed groundwater and surface water modeling at many sites to assess appropriate remedial alternatives, define wellhead protection areas, manage complex remedial response operations and simulate the fate and transport of chemicals in the subsurface including MTBE and LNAPL transport in soils and fractured bedrock. Mr. McGlew has worked as a consultant and regulator since 1977 predominantly in the New England states.

As Aries' Director of Hydrogeologic Investigations, Mr. McGlew has conducted numerous studies and remedial response actions at hazardous waste sites with NAPLs including gasoline, chlorinated solvents and coal tars. Further, he has provided technical assistance for petroleum contaminated soils and groundwater cleanups at many heavy and light bulk oil terminals in the New England area. He employed a variety of geophysical surveys, rapid assessment soil and groundwater sampling techniques, geo-statistical analyses, often coupled with chemical transport and fate groundwater and surface water modeling to successfully remediate complex environmental problems.

New Hampshire Council of  
Professional Geologists

## PUBLICATIONS

- Determining Contaminant Migration Pathways in Fractured Bedrock, McGlew, P.J.; Thomas J.E., The 5th National Conference on Management of Uncontrolled Hazardous Waste Sites, October 1984, Washington D.C.
- Recovery and Testing of HDPE Liner from the Waste Lagoon at the Keefe Environmental Services Site in Epping, NH, After 4.5 Years of Exposure. Nelson, N.A.; Hazo, H.E. Jr.; McGlew, P.J.; 11th Annual EPA Symposium, May 1984.
- Techniques for Investigating Contaminated Bedrock Aquifers, McGlew, P.J., Thomas, J.E.; The 6th National Conference on Management of Uncontrolled Hazardous Waste Sites, November 1985, Washington D.C.
- Borehole Logging to Delineate Fractures in a Contaminated Bedrock Aquifer. DeLuca, R.J.; Buckley, B.K.; McGlew, P.J.; Association of Engineering Geologist Symposium, March 1985, Portland, Maine.
- Implementation of Superfund Actions at a Site in Southern New Hampshire. Zipeto, J.F.; McGlew, P.J.; Novick, S.; Thomas, J.E.; American Public Health Association Annual Meeting, November 1984, Anaheim, California.

Mr. McGlew was a Pollution Control Scientist for the Massachusetts DEQE with responsibility for the operation, maintenance and collection of data from continuous air monitoring devices and pollution control equipment inspections in the late 1970s. He also had duties as an air pollution control consultant when working for GCA on EPA contracts from 1979 to 1982.

Mr. McGlew has served as a Senior Site Manager responsible for financial and technical management of Remedial Investigations at more than ten Superfund sites. His management and hydrogeologic responsibilities have included:

Serving as the on-site Field Coordinator in 1980 for the \$5.4 million Love Canal Assessment Program while working for GCA Corporation he took part in a major complex multi-media hazardous waste site investigation. He has provided technical oversight and assistance at many Superfund sites in the New Hampshire for the EPA and industrial clients. He was a Superfund Regional Site Project Officer for EPA Region I from 1982-1985 working daily with the CERCLA, RCRA, and SARA and NH environmental officials. Mr. McGlew took part in PRP negotiations for the EPA at several Superfund sites.

Mr. McGlew worked closely with NHDES regulators during their development and implementation of their environmental rules throughout the 1980s while working for the EPA, and consulting to the EPA on NH Superfund sites, while employed at Camp Dresser & McKee, Inc.

In 1987 Mr. McGlew formed Aries with two other principals who had served as past Directors within NHDES and played key roles in the NHDES rulemaking process. Aries continued taking an active role in assisting the NHDES with environmental rulemaking over the last two decades. Aries staff including Mr. McGlew assisted NHDES with the development of their Underground Storage Tank (UST) and Aboveground Storage Tank (AST) Rules; Oil Discharge and Disposal Cleanup Fund rules; Petroleum Remediation Rules; Risk Characterization and Management Policy (RCMP); Groundwater and Aquifer Protection Rules; Surface Water Quality Rules; Drinking Water Protection Rules; and Air Quality and Permitting Rules. Mr. McGlew routinely works with New Hampshire environmental rules daily, and routinely interprets and implements the environmental rules for Aries' clients.



- McGlew, P.J., G.G. Draper and M. Person, A Two Phase Flow Model for Evaluating Light Non-Aqueous Phase Liquid (LNAPL) Migration and Recovery. Proceedings of the Focus Conference on Eastern Regional Ground Water Issues. Boston, MA National Ground Water Association, October 1992.
- McGlew, P.J., Borowiec, P. J. Jr., Multiple Use River-Valley Aquifer Restoration OK Tool/Savage Municipal Well Superfund Site - Milford, New Hampshire - National Groundwater Association, August 1999, 1999 Outstanding Groundwater Project Commendation.

He has worked on hundreds of petroleum releases from the late 1970s to present and has first hand experience with the regulatory changes and issues facing petroleum site remediation in NH. His consulting experience includes responsible positions with Camp, Dresser & McKee Consulting Engineers, EPA Region I, MA DEQE now DEP, Oil Recovery Systems, Inc., and GCA Corporation dealing with investigation and remediation of subsurface contamination.