

**Peter D. Alvey, P.E.****Vice President  
Principal Engineer**Phone: (630) 572-3300  
E-mail: palvey@rouxinc.com**Credentials:**

B.S. – Chemical Engineering – Rose-Hulman Institute of Technology, 1983  
Registered Professional Engineer – Illinois  
40-Hour OSHA Hazwoper Training  
40-Hour Asbestos Inspector/Project Manager Training

**Technical Specialties:**

Review and assessment of cost related to investigation and remediation of contaminated sites, including classification of costs incurred, projection of future costs and allocation of costs based on date, source and/or responsible party. Have reviewed and classified over \$5 billion in costs incurred for the investigation and remediation of contaminated sites nationwide, including over 1,000 former manufactured gas plants (MGPs). Consulting on major petroleum releases (including dilbit) from pipelines and train derailments. Management and oversight of remediation projects involving soil and ground-water contamination; remediation of chemical, petroleum, asbestos, and PCB contamination at factories, refineries, gas stations, hospitals, and commercial properties; performance of field activities, and selection/oversight of contractors. Assist in preparation and review of Natural Resource Damage Assessments (NRDA)

**Experience Summary:**

Thirty three years in environmental assessment, remediation, and risk management; twenty years in environmental dispute investigation and management, including cost containment, liability assessment, settlement negotiations and expert witness services. Vice President and Principal Engineer for Roux Associates, Inc. (1999- present), Environmental Engineer for Rimkus Consulting Group (1995 -1999), Manager of Environmental Services for AIG Consultants, Inc. (1987 to 1995), Environmental Engineer for Ecology and Environment, Inc. (1985 to 1987).

**Professional Affiliations:**

American Institute of Chemical Engineers (AIChE)  
American Society of Testing Materials (ASTM),  
*(member of ASTM Committee E-50, which is responsible for generation of standards and guidelines for Environmental Assessment, Risk Management and Corrective Action and Committee F20 on Hazardous Substances and Oil Spill Response.)*  
Association Advancement of Cost Engineering (AACE)

**Testifying Expert**

- **Review and Classification of Investigation and Remediation Costs:** Have been retained as an expert witness to review and classify costs claimed in environmental cost recovery disputes at sites nationwide. Have been retained in cases related to manufactured gas plants (MGP), mining sites, pipeline releases, chemical manufacturing facilities, refineries, landfills and sediment remediation sites. Have reviewed investigation and remediation activities and the associated costs related to sites contaminated with; petroleum products, chlorinated solvents, PCBs, dioxin and heavy metals. Have provided testimony regarding both incurred costs and potential future costs at the sites, including the reasonableness and appropriateness of the costs.
- **Cost Allocation:** Have been retained as an expert witness on multiple occasions to allocate investigation and remediation costs based on timing, sources and/or responsible party. Opinions have been based on review and analysis of historical documents, including aerial photographs, investigative data, as

well as deposition testimony provided in the case. Cases have involved manufacturing facilities, pipeline releases, chemical and petroleum facilities, mining sites and dry cleaners. Have performed allocations on sites contaminated with; petroleum products, chlorinated solvents, PCBs, dioxin and heavy metals. Many cases have involved the use of sophisticated spreadsheets to allocate costs to various time periods or to various sources.

- **Defense of Environmental Consultants:** Have been retained as an expert witness in the defense of environmental consultants accused of professional errors in the performance of investigation activities, including due diligence and Phase I investigations for property acquisition. Have rendered opinions regarding the compliance of the consultant's report with standards and guidelines in place at the time that the services were provided.
- Fact witness for insurance carrier in litigation involving a release of trichloroethylene by a tanker truck during a delivery at a manufacturing facility. Provided reports and deposition testimony relating to allocation of extent of contamination to pre-existing versus spill related conditions.

**Key Projects:**

- Consulting expert for multiple insurance carriers on major environmental releases across North America. These releases include pipeline failures, train derailments, ash pond failures and utility line explosions. Activities involve site inspections, failure analysis review and cost containment activities. Have been involved in pipeline releases of crude oil, bitumen, refined product and salt brine. Have performed analysis of release timing to determine if the release occurred within a specified discovery period. Assisted in the analysis of NRD claims.
- Cost analysis expert for insurance carriers on multiple claims nationwide. Activities involve review of technical reports and correlation of claimed costs with site activities. Have reviewed over \$5 billion in invoices and generated reports placing costs into categories as defined by counsel. Typical categories include; investigation, remediation, on-site, off-site, undocumented and costs unrelated to the environmental activities at the site. These projects have been performed in both a consulting and expert testimony capacity.
- Consulting expert for insurance carriers in settlement negotiations in claims related to over 1,000 individual manufactured gas plant (MGP) sites nationwide, including several dozen in Illinois. Provided expert reports and assisted in settlement negotiations. Provided independent estimates of future costs analysis of potential natural resource damage claims and opinions on the appropriateness of past expenditures.
- Consulting expert for insurance carriers in settlement negotiations relating to over 40 landfills nationwide, approximately 10% of which were in Illinois. Provided expert reports and consultations regarding future remediation costs, timing of releases, quantification of natural resource damage claims and appropriateness of past expenditures.

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- Provided claims investigation services related to coal tar release to a navigable waterway in Chicago, Illinois. Conducted investigation into cause of release, specifically determining if release was due to an explosion or a mechanical failure. Provided cost containment services related to oversight of remediation activities.
- Provided claims investigation services related to a fire at a tire recycling facility in Illinois. Conducted an on-site investigation related to the cause of the fire, appropriateness of response activities and allocation of costs to first versus third-party claims.
- Assisted insurance claims adjusters in handling of environmental claims in over 200 cases nationwide. Claims involved; UST releases, transportation related releases, heating oil claims and contamination at industrial facilities. Provided assistance in hiring of remediation contractors, investigation of cause and origin and providing opinions regarding timing of releases.

### Project Management

- Provided on-site management of decommissioning of steel manufacturing facility in Midwest. Activities included cleansing of PCB contaminated equipment and structural steel, design and operation of wastewater treatment system for remediation generated wastewaters and oversight of asbestos abatement activities.
- Provided on-site project management for decommissioning and demolition of manufacturing facility in the Midwest. Activities included removal of hazardous materials, UST removal, transformer removal, and asbestos abatement.
- Provided project management for UST program for mechanic contractor facilities nationwide. Responsibilities included hiring of tank removal contractors, negotiations with regulatory agencies and reimbursement from state UST funds.
- Completed PRP allocation project at Superfund site in Midwest for USEPA. Activities included review of waste-in documents including loading tickets and invoices. Determined PRP allocations based upon waste-in volume and toxicity of materials received.
- Performed environmental assessments of commercial and industrial facilities across the country in support of property transfers or mergers of companies.
- Conducted on-site investigations of over 200 industrial and waste management facilities nationwide in support of environmental liability insurance applications. Provided opinions related to the environmental risks posed by the facilities and prepared recommendations to reduce the potential liabilities.
- Project Manager for investigation and management of environmental insurance claims, including cost containment, liability assessment, and settlement negotiations. Investigation and remediation of chemical and petroleum contamination of soils and ground water.
- Environmental Manager of a team of professionals in environmental claims investigations, liability assessments, and remediation projects. Specific projects included refinery waste remediation, underground storage tank removal, Phase I

and II real estate assessment, and liability assessments of industrial facilities.

- Chemical Engineer responsible for field activities relating to remediation of soil, ground water, and asbestos contamination of industrial facilities. Specific projects included decommissioning/decontamination of industrial facilities, SPCC (spill prevention control and contingency) plan preparation, and design/implementation of site investigations. Included work for USEPA and Illinois EPA on projects related to Dead Creek in Sauget, Illinois and Kerr McGee in West Chicago, Illinois.
- Chemical Engineer responsible for chemical and material analysis for metal finishing industry clients. Specific projects included waste minimization studies, waste water treatment design, process control, and corrosion studies.
- Piping Engineer working at nuclear power plants in Illinois and Indiana as a piping and pipe support as-built engineer. Responsible for survey and redesign of pipe systems and pipe supports for both nuclear and non-nuclear related piping.

### Expert Witness Testimony:

- Curtiss-Wright Corporation v. Aetna (1998)  
Superior Court of New Jersey (Bergen County)  
Expert Report and Deposition, settled prior to trial
- Central Maine Power v. Earnest A Moore (1999)  
Superior Court of Maine (Augusta)  
Expert Report and Deposition, settled prior to trial
- Consumers Energy Company v. Certain Underwriters at Lloyd's London, et al (2000)  
U.S. District Court Eastern District of Michigan  
Expert Report and Deposition, testimony at binding arbitration
- Crucible Materials Corporation v. Aetna (2000)  
Federal Court (Northern District of New York)  
Expert Report, Deposition
- Jostens, Inc. v. Federated Mutual Insurance Co., et al. (2001)  
Ramsey County (MN) District Court  
Expert Report, Deposition, settled prior to trial
- Liberty Mutual Insurance Company v. The Black & Decker Corporation et al. (2003)  
U.S. District Court District of Massachusetts  
Expert Report, Deposition, Trial consulting
- The Mead Corporation v. The Aetna Casualty and Surety Company; et al. (2003)  
Circuit Court for Jefferson County, Alabama  
Expert Report, Deposition, settled prior to trial
- State of California v Underwriters at Lloyds' et al (2004)  
Superior Court of California, County of Riverside  
Expert Report, Deposition, On-going
- USFG and Continental Insurance v. Soco West, Inc. (2005)  
United States District Court for District of Montana  
Expert Report, Deposition, Trial consulting
- Keystone Consolidated Industries, Inc. v. Employers Mutual Liability Insurance of Company of Wisconsin (2005)

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United States District Court Central District of Illinois  
Expert Report, Deposition, settled prior to trial

- Mather Investment v Illinois Trapshooters, et. al. (2006)  
Seventh Judicial Circuit Sangamon County, Illinois  
Deposition, settled prior to trial
- State of Wisconsin v. Hydrite Chemical Company v. Aetna  
Casualty and Surety Company (2006)  
Dane County, Wisconsin Circuit Court  
Expert Report, Deposition, settled prior to trial
- Suburban Propane v. St Paul Travelers Insurance Company  
and Insurance Company of North America (2009)  
Superior Law Court of New Jersey Law Division Morris  
County  
Expert Report, settled prior to trial
- Paper Services, Ltd. V. Algonquin Power Systems New  
Hampshire, Inc. et al (2010)  
State of New Hampshire Cheshire County Superior Court  
Expert Report, Settled Prior to Trial
- General Electric Company v. David E.W. Lines, Christopher  
Hughes and Peter C.B. Mitchell as Joint Liquidators of  
Electric Mutual Insurance Company Ltd and OneBeacon  
America Insurance Company (2010)  
Commonwealth of Massachusetts Suffolk County Superior  
Court  
Expert Report, Deposition, Settled Prior to Trial
- Merco Group at Aventura Landings V. Tampa Electric  
Company d/b/a TECO Peoples Gas System as successor in  
interest to Peoples Gas System, et al, and Continental  
Holdings, Inc., as successor in interest to Florida Gas  
Company (2011)  
Miami Dade (FL) County Court  
Expert Report, Deposition, Testimony at trial
- Ansul, et al. v. Employers Insurance Company of Wausau, et  
al. (2011)  
Circuit Court of Marinette County, Wisconsin  
Expert Report, Settled Prior to trial
- Soo Line Railroad v. Certain Underwriters at Lloyd's, Binding  
Arbitration before Three Judge Panel, Minneapolis, MN  
(2011). Expert Report and Testimony at arbitration.
- BLOOMTEX ASSOCIATES, II, L.P., Plaintiff, vs. PARK  
PLUS, INC., Defendant (2011)  
Superior Court of New Jersey Law Division-Civil Part Essex  
County Expert Report, Settled Prior to Trial
- Bank of New York, et. al (Plaintiffs) v Morgan Stanley  
(Defendant) (2012)  
United States District Court, Southern District of NY  
Expert Report, Deposition, Pending
- Crown Cork & Seal, et al. v. Continental Holdings, Inc.  
Jams Arbitration (2012)  
Expert Report, Deposition and Testimony at binding  
arbitration
- Commission, Indiana Department of Environmental  
Management, v. Ertl Manufacturing, Inc. On behalf of  
Intervener Threaded Rod (2013)  
Marion County (IN) Superior Court  
Affidavit, Testimony at Hearing
- City of Canton, Illinois, (Petitioner) v. Navistar, Inc.  
(Respondent) (2013)  
American Arbitration Association-Commercial Division Case  
No. 1-125-1528-09  
Expert Report, Deposition, Testimony at Arbitration
- Tennessee Valley Authority, (Claimant) v. Zurich Insurance  
Company-Bermuda Branch (Respondent) (2014)  
Arbitration Act 1996-London, UK  
Expert Report, Testimony at London Arbitration
- Rogers Cartage Co., et al. (Plaintiffs) v. Travelers Indemnity  
Co., et al. (Defendants) (2014)  
Circuit Court of St. Clair County, Illinois  
Affidavit
- Micron Technology (Plaintiffs) v. Safway Services, LLC., et  
al. (Defendants) (2014) Circuit Court for Alexandria, Virginia  
Expert Report, Deposition, Settled Prior to Trial
- Employers Insurance Company of Wausau (f/k/a Employers  
Insurance of Wausau, a mutual company, et al.,) (Plaintiffs) v.  
Klinke Clothing Care Corporation, d/b/a Klinke Cleaners, et  
al., (2014) State of Wisconsin Circuit Court for Waukesha  
County  
Expert Report, Settled Prior to Trial
- Endurance US Insurance as subrogee of J&H Oil Company  
and J & H Oil Company, Individually (Plaintiffs) v. R.W.  
Mercer Co., (Defendants). (2015) State of Michigan Circuit  
Court for County of Kent Case No. 14-03668-NZB.  
Expert Report, Case Pending
- General Casualty Company of Wisconsin and Regent  
Insurance Company (Plaintiffs) v. Robin, Inc. and Ray Gehrig  
(Defendants and Third-party Plaintiffs) v. Century Indemnity  
Company (Third-Party Defendant). (2015) State of Wisconsin  
Circuit Court for Rock County Cave No. 12-CV-1381.  
Expert Report, Deposition, Case Pending