

Over 30 years experience providing regulatory compliance support, procuring permits, designing and conducting audits and field studies, leading incident response, facilitating agency and public communications, and managing large remediation projects.

- Designed HSE systems and managed onsite HSE compliance, permitting, auditing, and agency coordination for the North Slope Borough's Barrow Gas Field Well Drilling Program.
- Provided onsite EHS management for Anadarko's remote drilling operations in the Foothills and NPR-A regions of Alaska's north slope.
- As Environmental Manager for ARCO's Prudhoe Bay Unit, responsible for technical support, compliance, field studies, training and agency liaisons.
- As Area Director - Permits and Compliance for ARCO's Kuparuk River Unit, responsible for the regulatory strategy, permitting, and agency coordination for field operations and expansion.

#### **Specialized Training**

- NSTC 2007
- Rig Pass – Nabors Drilling 2008
- Waste Management (North Slope Operator's Red Book) 2012
- 40 Hour HAZWOPER Refresher 2011
- Incident Command Systems 2012
- BLM - NPR-A Training 2009

#### **Work History**

**Health, Safety and Environmental Specialist – North Slope Borough's Barrow Gas Field Well Drilling Program. 2010 – Present.** Designed HSE management system, schedule and budget for a six well infield-drilling program during the planning phase. Provided onsite HSE management in remote camp near Barrow including:

- Compliance metrics, reporting and operational support.
- Conducted environmental and safety training including Incident Command and Spill Response, Bear Safety and Awareness, Cultural Awareness, and Cold Weather work safety.
- Devised and implemented Waste Management Plan
- Supervised and mentored local workers and Spill Technicians
- Handled Federal, State, and local permitting

**Environmental, Health, and Safety Specialist – Anadarko Exploration. Multiple remote sites. 2007-2009.** Provided onsite EHS management including:

- Compliance reporting, training, and auditing.
- Waste management
- Supervised and mentored native workers for the Subsistence Advisor position and Alaska Clean Seas technicians for spill response and preparedness.
- Agency liaison and conducted permit negotiations for operational changes after start-up.

**Assessment Manager – Rocky Mountain Environmental Remediation Group, ARCO. 1989-1995.**

Managed Superfund activities at sites across the United States. Supervised removal and remedial actions from the initial environmental investigations and feasibility studies to the earthwork and revegetation contracts. Handled federal, state and local agency negotiations and coordination with legal counsel. Responsible for public and news media communication and strategies.

**Manager Environmental Compliance – Prudhoe Bay Unit, ARCO Alaska, Inc. 1986-1989.**

Provided technical support, compliance plans and reporting, and training for oil field operations. Coordinated with federal, state, and local authorities on permit approvals, field inspections, rule makings, and interpretation of regulations. Developed and implemented facility audits, site assessments, and remedial actions for oil and hazardous substance spills. Designed, executed, and evaluated field studies for environmental planning and compliance. Wrote and produced "Snow Removal and Tundra Travel" training video coordinated with the North Slope Borough and Alaska Department of Natural Resources. Designed Hazardous Waste Disposal Decision Tree for training personnel.

**Area Director, Permits & Compliance – Kuparuk River Unit, ARCO Alaska, Inc. 1983 – 1986.**

Managed overall regulatory strategy for the Kuparuk and West Sak fields. Handled federal, state, and local permitting for infield development and field expansion. Directed environmental studies and provided input on engineering design alternatives and construction methods to improve environmental compliance. Coordinated regulatory and public relations issues.

**Regulatory Coordinator – Rocky Mountain District, ARCO Oil and Gas Company, Denver, Colorado. 1982 - 1983.** Coordinated environmental permitting and compliance issues with drilling, production, and engineering groups throughout the oil and gas district. Projects included: initiation

of air quality monitoring at Hamilton Dome, Wyoming; elk studies at Sheep Mountain CO2 Plant, Colorado; and acquiring drilling permits on Indian lands.

**Project Coordinator - Anaconda Minerals Company, Denver, Colorado. 1981-1982.** Managed permitting, technical support, and compliance for exploration and development projects in the rocky mountain region. Projects included developing disposal programs for hazardous materials, mine site revegetation, water quality and fishery studies, and air quality monitoring.

**Various Consulting Positions, New Haven, Connecticut and Denver, Colorado. 1974-1981.** Responsible for marketing, proposal preparation, project scheduling and cost control, study design, directing fieldwork, data analysis, report and permit preparation. Represented clients in negotiations with federal, state and local agencies. Produced educational materials on land use planning. Specific field studies included marine monitoring on Long Island Sound for the aquaculture industry, small mammal monitoring for the Tennessee Valley Authority, and water quality studies in the Missouri River reservoir system for Basin Electric Power.

**Publications**

Several papers on aquatic ecology, presenting research on community structure and population dynamics.