

TIMOTHY J. REILLY

Principal

EDUCATION

M.S., Environmental Health, University of Minnesota, 1988

B.S., Marine Biology, University of Massachusetts at Dartmouth, 1985

PROFESSIONAL SUMMARY

Mr. Reilly has over 18 years of experience evaluating the fate and ecological effects of anthropogenic compounds in freshwater, marine and terrestrial environments. He has been involved in assessing the distribution and toxicological interactions of oil and hazardous materials in aquatic and terrestrial environments. Mr. Reilly has played a key role in determining biological, physical and chemical response strategies, and remedial and damage compensation options at hundreds of contaminated sites throughout the United States and abroad. During his years in consulting he has obtained extensive experience in contaminated site natural and cultural resource injury assessment investigations, spill response strategies, remediation, restoration, risk assessment, spill contingency planning and environmental sensitivity mapping. As a Principal at Lighthouse Technical Consultants Inc. he is responsible for senior project management and business development associated with environmental and ecological services. In his role as project manager he has successfully prepared project work plans, managed multi-disciplinary technical staff, coordinated environmental permitting, and maintained project scopes, schedules and budgets. Mr. Reilly also plays a senior role in preparing technical scopes of work, cost proposals and implementing business development strategies for ecological sciences. Mr. Reilly's experience in a wide range of environmental project types, demonstrate his diverse capabilities in his discipline. The following projects provide a representation of his consulting experience.

PROFESSIONAL AFFILIATIONS:

- Society of Environmental Toxicology and Chemistry (SETAC)
- International Society of Environmental Forensics
- Society for Ecological Restoration
- Society for Risk Analysis/Boston Risk Assessment Group

SELECTED PROFESSIONAL EXPERIENCE

U.S. Department of Interior and State of Michigan. Prime Contractor and Principal Investigator on Rouge River Natural Resource Damage Assessment, Detroit, Michigan. Principal investigator on developing a natural resource damage assessment in response to the Rouge River Mystery Spill of 2002 [2004 – Present].

Puerto Rico Department of Natural and Environmental Resources and U.S. Virgin Islands Department of Planning and Natural Resources. San Juan, PR and St. Croix, USVI. . Principal investigator on developing a natural resource damage assessment in response to the T/B Vista Bella Oil Spill [2004 – Present].



Qawalangin Tribe of Unalaska. Principal Investigator on Loss of Subsistence Use Impacts to Tribe. Unalaska (AK). Principal Investigator on development and valuation of loss of subsistence use claims for tribal parties impacted by the December 2004 Selendang Ayu Oil Spill [2005-Present].

Texas General Lands Office, Texas Parks and Wildlife Department and Texas Commission of Environmental Quality. Austin TX. Prime Contactor and Principal Investigator on developing and valuing all natural resources damaged by past mystery oil spills [2005-Present].

Multiple Government and Private Clients. Nationwide. Prime Contractor for Claims Assessment Group (www.claimsassessment.com). The Claims Assessment Group (CAG) is a nationwide consortium of consulting firms supporting public and private clientele in conducting damage assessments and economic valuations on commercial and non-commercial goods and services damaged by oil spills. These damage assessment culminate in the valuation of damaged goods and the corresponding generation of damage claims submitted to parties responsible for spills or the United States Coast Guard's National Pollution Funds Center [2005-Present].

United States Coast Guard National Pollution Fund Center. Technical and Managerial Support to US Coast Guard, National Pollution Fund Center's Natural Resource Damage Division-Arlington, VA. Program Manager and senior scientist assisting the United States Coast Guard National Pollution Funds Center (NPFC) in the evaluation of claims for environmental damage compensation and restoration; and programmatic development of a new division to adjudicate natural resource damage (NRD) claims submitted by state, federal and tribal trustees. This entails the expert review of claims for natural resource damage assessment and habitat restoration plans throughout the United States and its Trust Territories, expert training, design and implementation of internal and external operating procedures for adjudicating natural resource damage claims and communicating NRD information requirements to trustees [1997 – Present].

Kuwait Institute of Scientific Research. Technical and Managerial Support to State of Kuwait on Natural Resource Damage Assessment of Gulf War Related Impacts to Marine Environment and other Gulf Environmental Assessment Issues – Kuwait City, Kuwait. Chairman of a committee to select an international coalition to implement a five-year monitoring and assessment of natural resource injuries to the marine environment resulting from the Gulf War [2001]. Providing ongoing expert support to the State of Kuwait on Gulf environmental assessment issues [2002 – Present].

Confidential Client. Environmental Damage Claims Assessment-International Client. Program Manager that provided claims evaluation and adjusting support for an international claims compensation commission which service multi-national claimants experience a wide range of environmental damages. Damages involve the exposure of hazardous substances to air resources, surface/groundwater resources, public health, cultural resources, marine resources, terrestrial resources and refugees [2000].

National Oceanic and Atmospheric Administration. Oil Spill Natural Resource Damage Assessment Rapid Assessment Program-Nationwide. Program manager and senior scientist that provided scientific and managerial support for the Oil Spill Rapid Assessment Program support contract for the National Oceanic and Atmospheric Administration (NOAA). Worked closely with NOAA Damage Assessment Center personnel to maintain and provide 24-hour, seven day-per-week support for



response and deployment to oil spills impacting navigable waters of the United States. Rapid assessment deployment following spills occurred at many locations throughout the United States, including Lake Barre (LA), Edwards, AFB (CA), Dutch Harbor (AK), Coos Bay (OR), Portland (ME) and Tampa Bay (FL) [1996-2000].

U.S. Fish and Wildlife Service. Preliminary Estimate of Damages-Jamaica Bay, New York, and Lake Ontario. Chief Scientist that provided technical support to the U.S. Fish and Wildlife Service (USFWS) on natural resource damage assessment issues associated with waste sites located in the Northeastern region of the U.S. Assisted the USFWS in assessing the types of injuries resulting from releases of hazardous substances into these waterways, and identifying the appropriate type and scale of restoration options to compensate for these injuries [1998-1999].

Maine Department of Environmental Protection. Julie N Oil Spill Natural Resource Damage Assessment-Portland, Maine. Case Manager that assisted the State of Maine's Department of Environmental Protection in managing natural resource damage assessment and restoration planning activities following the *Julie N* oil spill in September 1996. Specific assessment activities directed included: case management, economic data collection, and preassessment data report and settlement document generation [1996-1999].

DonJon Salvage. Tanker Barge Irving Whale Salvage-Gulf of Saint Lawrence. Senior Marine Scientist that provided scientific support to a prime contractor under contract to Environment Canada to raise the sunken tanker barge *Irving Whale* during the Summer of 1996 in the Gulf of Saint Lawrence. The *Irving Whale* sank in the Gulf of Saint Lawrence in 1970 with oil and polychlorinated biphenyls (PCBs) on board the barge. Provided technical input on the environmental fate and effects of PCBs during the planning, operational and remedial phases of the barge-raising project [1996].

United States Marine Corps. Natural Resource Damage Assessment and Restoration Training-US Marine Corps Base, Kaneohe Bay, Oahu, Hawaii. Technical Expert that provided technical natural resource damage assessment training to personnel affiliated with the U.S. Marine Corps facility located at Kaneohe Bay, Hawaii. This training was conducted as a component of an overall training support program to the Kaneohe Bay Marine Corps Base in oil spill response planning, operations, and natural resource damage assessments [1996].

U.S. Department of Transportation, Office of Pipeline Safety. Spill Planning Scientific Support to Office of Pipeline Safety, Research and Special Projects Administration-Washington, DC. Senior scientist and project manager that assisted the U.S. Department of Transportation's Office of Pipeline Safety in developing protocols for identifying areas of unusual sensitivity to oil spills from pipelines (also known as Unusually Sensitive Areas). Unusually Sensitive Areas are being identified with regard to drinking water resources, ecological resources and cultural resources as well as Native American Tribal concerns. Provided the Office of Pipeline Safety with technical, administrative and organizational support on this highly interactive project involving representatives from government, non-governmental organizations, academia and the pipeline industry [1996-1997].

National Oceanic and Atmospheric Administration; Port of Genoa Port Authority, Marine Spill Response Corporation. Scientific Support for Oil and Chemical Spill Response-Variou Domestic



and International Locations. Marine scientist that provided oil and hazardous substance technical information support during emergency (spills) and chronic coastal and inland pollution incidents since 1987. Technical information provided during spills includes spill material physicochemical properties, environmental fates of spilled materials, identification of natural and cultural resources at risk, toxicity/impact information for at-risk resources, and response/remediation alternatives. Technical support has been provided to American, Canadian, and Italian governments at hundreds of sites [1987-1995]

Marine Spill Response Corporation. Oil Spill Research and Development Management and Implementation-Washington, DC. Project Manager that developed and managed a five-year, multi-million dollar research and development budget for the Marine Spill Response Corporation, a non-profit oil spill response cooperative. Research activities focused upon determining methodologies that minimize the ecological effects of petroleum hydrocarbon spills and treatment technologies on impacted biota. Examples of research and development projects conducted are included below [1991-1995].

Marine Spill Response Corporation. Bioremediation Field Studies-Variou Domestic and International Locations. Project Manager that sponsored and participated in a number of field studies addressing the efficacy and environmental effects of coastal bioremediation applications. These field studies were conducted in Delaware, Texas, England and France [1991-1995].

Marine Spill Response Corporation. International Oil Spill R&D Facility Development-Corpus Christi, Texas. Project Manager that developed and managed the concept, design, and testing of a large-scale wave tank system known as the Coastal Oil Spill Simulation (COSS) system in coordination with the Texas General Land Office. The COSS system is designed to model the fate, ecological effects, and remediation of oil spills in coastal/nearshore environments. This nine-tank system is a unique test facility capable of modeling a wide array of coastal environments. COSS is located in Corpus Christi, Texas [1991-1995].

Marine Spill Response Corporation. Oil Spill Treating Agent Research and Development-Washington, DC. Project Manager that sponsored and managed a survey on the state-of-the-art of several classes of chemical treating agents used in oil spill response operations, including viscosity modifiers, emulsion breakers, shoreline cleaning agents, shoreline protection agents and oxidizing agents. Hosted an international symposium on the identification of optimal response uses for these treating agents, and associated research priorities [1991-1995].

Marine Spill Response Corporation. Spill Response Test Kit Development-San Diego, CA. Project Manager that managed the development of a field test kit for shoreline cleaning agents. This kit is designed to test shoreline cleaning agents under actual spill environmental conditions, hence, providing more accurate estimations of a shoreline cleaning agent's efficacy and toxicity for each spill incident [1991-1995].

Marine Spill Response Corporation. Wildlife Deterrent Research and Development Program-Washington, DC, Denver, CO, and New Brunswick, Canada. Project Manager that managed a state-of-the-art survey, an international symposium, and field research on deterring wildlife from spill-impacted coastal zones [1991-1995].



Ifremer. Coastal Pollution Studies-Guadalupe, French West Indies. Project Manager that assisted the provincial government in Guadeloupe, French West Indies, in identifying coastal pollution sources and providing abatement recommendations during the development of a strategic plan for fisheries and aquaculture [1990].

National Oceanic and Atmospheric Administration. Environmental Sensitivity Mapping-Coastal Louisiana and Southeastern Alaska. Project Manager that provided biological input during the mapping of the environmental sensitivity of coastal environments to oil and hazardous substances for NOAA. Areas mapped included Louisiana, Southeastern Alaska and Prince William Sound, Alaska [1987-1990].

National Oceanic and Atmospheric Administration. Oil and Hazardous Substance Spill Area Contingency Planning-Ports Throughout United States. Served as the director of a department responsible for regional spill contingency planning for NOAA. Such planning was conducted for several ports, including Boston, New York, Pittsburgh, Hampton Roads, Charleston, Tampa Bay, New Orleans, Los Angeles/Long Beach, San Francisco and Anchorage [1987-1990].

University of Maine, Ira C. Darling Center. Walpole, Maine. Served as a research diver on a lobster distribution and abundance study in Christmas Cove, Maine. Also conducted field studies identifying ecological factors affecting the distribution of crustose algal communities in Mid-Coast Maine rocky intertidal and shallow sub-tidal zone [1985].

Selected Reports and Publications

Boltin, C.R., and T.J. Reilly. 2005. Adjudicating Mystery Spills, a Natural Resource Damage Claims Case Study from Florida's Gold Coast. In *Proceedings of the 2005 International Oil Spill Conference, May 15-19, 2005 (in press)*.

Reilly, T.J., Dominguez, J., Hester, M. Mills, M., Erickson, R., and N. Bergeron. 2004. Electronic Desk Guide for Natural Resource Damage Assessments. Conducted for United States Coast Guard National Pollution Funds Center under Contract Number DGCG23-01-D-HXZ004. Lighthouse Technical Consultants, Inc.. Rockport, MA. 100 MB.

Reilly, T. J., Dominguez, J., Mills, M., Erickson, R. and N. Bergeron. 2003. Fort Lauderdale Mystery Spill Final Technical Evaluation Report. Conducted for United States Coast Guard National Pollution Funds Center under Contract Number DGCG23-01-D-HXZ004. Lighthouse Technical Consultants, Inc.. Rockport, MA. 56 pp + appendices.

Reilly, T. J. and Hester, M. 2003. Buzzards Bay Property Damage Assessment Report. Prepared Under Contract to Foley Hoag LLP. Lighthouse Technical Consultants, Inc., Rockport, MA. 45 pp.

Reilly, T.J. 2003. Preliminary Technical Evaluation of Kuwait Institute of Scientific Research Project VS023C. Conducted under Contract to KISR. Kuwait City, Kuwait. 9 pp + appendices.



Reilly, T.J., C. Boltin, J. Mulready, G. Silva and M. Mills. 2002. Revised Natural Resource Damage Funding Guidelines. Conducted for United States Coast Guard National Pollution Funds Center under Contract Number DGCG23-01-D-HXZ004. Earth Tech. Concord, MA. 49 pp.

Reilly, T.J., Dodge, R.E., Lees, D.C., Mulready, J., Boltin, C. and G. Silva. 2002. Rose Atoll Restoration Claim Evaluation. Conducted for United States Coast Guard National Pollution Funds Center under Contract Number DGCG23-01-D-HXZ004. Lighthouse Technical Consultants, Inc.. Rockport, MA. 119 pp +.

Reilly, T.J. and J. Mulready. 2001. *Lady Edna II* Natural Resource Damage Claim: Technical Review Comments Submitted in Support of NRD Division Claim Activities. Conducted for United States Coast Guard National Pollution Funds Center under Contract Number DGCG23-01-D-HXZ004. Earth Tech. Concord, MA. 12 pp + Appendices.

Reilly, T., J. Weiss, J. Grant S. Thompson, G. Richards and M. Stern. "Interpreting the Toxicity of Hazardous Substances in Sediment and Tissue Samples." February 2000. 52 pp. + appendices.

Reilly, T., and D. Helton. "A Rapid Assessment Program for Improving Natural Resource Damage Assessments." In *Proceedings of the 1999 International Oil Spill Conference, March 8-11, 1999*.

Reilly, T., F. Csulak, and P. Van Cott. "Selecting a Preferred Restoration Alternative for the *Julie N* Oil Spill." In *Proceedings of the 1999 International Oil Spill Conference, March 8-11, 1999*. In Press.

Reilly, T. "*Julie N* Preassessment Data Report." Cambridge, MA. 72 pp. + App. September 1998.

Helton, D., J. Michel, and T. Reilly. "Incorporating Oil Behavior in the Design of Natural Resource Damage Assessment Studies: Three Case Histories." In *Proceedings of the 1997 Arctic and Marine Oilspill Program (AMOP) Technical Seminar, June 10 - 13, 1997*.

Reilly, T.J., and R. Jamail. "COSS: A Testing Facility for Oil Spill Research and Development." In *Proceedings of the 1997 International Oil Spill Conference, April 7 - 10, 1997*.

Reilly, T.J., R. Hounsell, and R. Jamail. "New Brunswick Bird Deterrent Study." In *Proceedings of the 1997 International Oil Spill Conference, April 7 - 10, 1997*.

Lepo, J.E., M.P. Hancock, C.L. Zuleger, K. Roupp-Edwards, T.J. Reilly, and D.E. Fritz. "Effectiveness and Safety of Biosurfactants as Agents of Oil Spill Response." In *Proceedings of the 1997 International Oil Spill Conference, April 7 - 10, 1997*.

Clayton, J.R., B. Stransky, M. Schwartz, B. Snyder, D. Lees, J. Michel, and T. Reilly. "Methodologies for Estimating Toxicity of Shoreline Cleaning Agents in the Field." In *Proceedings of the Nineteenth Arctic and Marine Oilspill Program (AMOP) Technical Seminar, June 12-14, 1996*.

Clayton, J.R., B. Stransky, A. Adkins, D. Lees, M. Schwartz, B. Snyder, J. Michael, and T. Reilly. "Methodology for Estimating Cleaning Effectiveness and Dispersion of Oil with Shoreline Cleaning



Agents in the Field." In *Proceedings of the Nineteenth Arctic and Marine Oilspill Program (AMOP) Technical Seminar, June 12-14, 1996.*

Hounsell, R.G. and T.J. Reilly. *New Brunswick Bird Deterrent Study.* Marine Spill Response Corporation, Washington, D.C. MSRC Technical Report Series 95-021, 13p. + App.

Merlin, F.X., P. Pinvidic, A. Basseres, C. Chaumery, C. Dalmazzone, J. Ducreux, J. Oudot, K. Lee, R.P. Swannell, and T.J. Reilly. "Bioremediation: Results of the Field Trials of Landevennec (France)." In *Proceedings of the 1995 International Oil Spill Conference, February 27-March 2, 1995.*

Walker, A.H., J. H. Kucklick, J. Michel, Scholz, D.K. and T.J. Reilly. "Chemical Treating Agents: Response Niches and Research and Development Needs." In *Proceedings of the 1995 International Oil Spill Conference, February 27-March 2, 1995.*

Lee, K. F.X. Merlin, R.P. Swannell, T.J. Reilly, P. Sveum, J. Oudot, M. Guillerme, J. Ducreux, and C. Chaumery. "A Protocol for Experimental Assessments of Bioremediation Strategies on Shorelines." In *Proceedings of the 1995 International Oil Spill Conference, February 27-March 2, 1995.*

Reilly, T.J., N.C. Kraus, W.R. Wise, and R. Jamail. "COSS: a Mesoscale Test Bed for Nearshore Spill Research." In *Proceedings of the 1995 International Oil Spill Conference, February 27-March 2, 1995.*

Payne, J.R., R.J. Martrano, T.J. Reilly, G.P. Lindblom, M.C. Kennicutt II, and J.M. Brooks. "Spill of Opportunity Testing of Disperant Effectiveness of the Megaborg Spill." In *Proceedings of the 1993 International Oil Spill Conference.*

Previous Employers

- 2000 – 2002 Earth Tech, Concord, MA, Senior Program Director
- 1996 - 2000 Industrial Economics, Incorporated, Cambridge, MA, Principal.
- 1995 - 1996 PCCI, Incorporated, Alexandria, VA, Senior Scientist
- 1991-1995 Marine Spill Response Corporation, Washington, DC, Environmental Health Analyst
- 1990-1991 Arthur D. Little, Cambridge, MA, Consultant
- 1987 - 1990 Research Planning, Incorporated, Columbia, SC, Consultant
- 1985 University of Maine, Walpole Maine, Research Diver
- 1984 National Marine Fisheries Service, Woods Hole, MA, Research Assistant.



CONTACT INFORMATION

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