

TITANIA Y. NG

EDUCATION

University of New Hampshire, Durham, MA May 2016

- U.S Army Corps Wetland Delineator Methods Course - 5-day training course

Tufts University, Medford, MA May 2010

- Bachelor of Science in Biology and Environmental Science; GPA 3.50
- *Cum Laude*; Dean's List

Relevant Courses: Environment Preservation & Improvement; Environmental Toxicology; Environmental Geology; Intro to GIS; Environment & Technology; Chemistry; Cell Biology; Marine Biology; Experiments in Ecology; Population & Community Ecology

EXPERIENCE

Haley & Aldrich, Inc., Boston, MA – *Senior Technical Specialist* January 2011 to Present

- Coordinate and manage environmental subsurface explorations and remedial investigations at current/former industrial properties, brownfield sites, and state Superfund sites
- Conduct and oversee soil, groundwater, sediment, surface water, and biota sampling programs
- Manage and evaluate laboratory and remedial data
- Draft and submit deliverables to clients and regulatory agencies
- Support human health and ecological risk assessment team

Refer to attached Haley & Aldrich Resume for detailed project experience

OTHER ENVIRONMENTAL EXPERIENCE

Tufts University, Tropical Ecology Course, Medford, MA & Costa Rica – *Research Student* Fall 2009

- Created presentations and participated in discussions on current conservation issues
- Designed research project and tested out experimental protocol in the field at La Selva Biological Station and at Sirena Biological Station, Costa Rica

Horticultural Society of New York, New York, NY – *Administrative Intern* Summer 2009

- Assisted with HSNY administrative projects such as creating brochures, and newsletters for library, exhibitions, and horticulture-related events
- Worked on development projects, grant applications, and membership relations

Operation Wallacea, Wakatobi National Park, Indonesia – *Research Assistant* Summer 2008

- Participated in coral reef monitoring programs and research/conservation projects
- Promoted proper trash removal, alternative trades to fishing, and other methods of environmental preservation to locals
- Collaborated with international students and scientists

SKILLS

- **Programs:** Microsoft Office 365 (Excel, Word, Access, Powerpoint, Visio); ArcGIS 10.6.1; Grapher 10; Bluebeam Revu 2018; Adobe Acrobat
- **Languages:** Native Cantonese speaker
- **Certifications:** OSHA 40-hour HAZWOPER; First Aid CPR AED, 2019; PADI Open Water Diver
- **Hobbies:** Rock climbing; gardening; hiking; scuba diving; crocheting; piano



TITANIA Y. NG

Senior Technical Specialist

EDUCATION

B.S. Biology and Environmental Studies, Tufts University, 2010

PROFESSIONAL REGISTRATIONS

40-Hour OSHA Hazardous Materials Training (29 CFR 1910.120), 2010

8-Hour OSHA HAZWOPER Annual Refresher Training, 2019

U.S Army Corps Wetland Delineation Training, 2016

Ms. Ng has been involved in a variety of projects, including remediation of former industrial/manufacturing sites, environmental subsurface investigations, risk assessments, ecological site assessments, due diligence, and regulatory compliance work according to the Massachusetts Contingency Plan (MCP) and New York State Department of Conservation (NYSDEC). She has worked project sites with a wide range of environmental conditions including sites contaminated with polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons, chlorinated solvents, coal tar, and metals. Her responsibilities encompass involvement in all aspects of project development including site evaluations, field work coordination, review and interpretation of data and environmental impacts, data management, completion of reports, and interaction with clients and state regulatory agencies.

RELEVANT PROJECT EXPERIENCE

Site Characterization & Remediation

Sediment Investigation Program at Duke Energy East End Gas Works, Cincinnati, OH. Served as the senior technical specialist responsible for drafting the sediment investigation work plan to further evaluate the distribution and potential risk of MGP-related impacts in sediment and also served as the field sample manager responsible for collection and management of sediment samples and analytical data. Responsibilities include development of the field sampling plan for sediment and porewater, sample collection and management, coordination of three laboratories (chemical/analytical, geophysical, and toxicity), review of daily field activities and documentation, and evaluation of contamination extent and potential human health/ecological risk.

Williams Northeast Supply Enhancement Project Offshore Sampling Campaign, NY/NJ. Served as the in-office technical lead for an offshore vibracore sampling program to pre-characterize offshore sediment conditions of the 23.5-mile pipeline for dredge spoils management to upland beneficial use disposition. The 14-day offshore sampling campaign includes 69 Vibracore locations from nearshore locations to approximately 23 miles off the New Jersey coastline, with target depths for characterizing sediment ranging from 4 to 28 feet below the mudline. Responsibilities included coordinating all aspects of the field program including cost estimating, coordination with subcontractors and laboratories, development of the field sampling plan, managing field staff, daily review of field activities and documentation, providing client daily field updates and deliverables, and management of sample data. The campaign was completed several days ahead of schedule and without any health and safety incidents.

Philips Lighting Company Facility, Bath, NY. Served as scientist responsible for oversight of remedial investigations at a former lighting manufacturing facility. Remedial investigations at the site included advancement of soil borings, test pit explorations, soil vapor and sub-slab vapor sampling, sediment sampling, installation of groundwater monitoring wells and groundwater sampling. Responsibilities included coordinating daily field schedule, daily review of field activities and documentation, management of laboratory data, evaluation of characterization and remedial data, and writing and submitting monthly progress reports to NYSDEC.

Former Anaconda Wire & Cable Company Site, Hastings-on-Hudson, NY. Served as sample manager responsible for developing and implementing a sample management program to manage field and laboratory data for multiple soil, groundwater, sediment, surface water and fish sampling programs (totaling over 2,500 samples). The site has been a heavy industrial area since the mid-1850s and, during WWII, Anaconda manufactured asbestos insulated cable treated with polychlorinated naphthalene and PCBs for the Navy. Investigation programs were conducted to gather data in advance of a remedial design. Responsibilities include sample processing, database management, implementation of monthly surface water sampling program, annual fish and crab sampling program and community air monitoring program, supporting field manager and geologists during on- and off-shore investigational activities, daily communication with laboratory and project manager, and use of lean and sustainability principles to reduce cost and increase efficiency.

Former Manufactured Gas Plant (MGP) Site, Toms River, NJ. Assist project team on the development of a comprehensive remedial approach to address former operations at the site resulting in soil and groundwater impacts related to MGP operations and from PCBs. Tasks included coordination and conducting pore water and surface water investigations, oversight of subcontractor activities, safety oversight of work over water, training of junior staff, and evaluating collected data to understand contamination migration.

Former MGP Site, Kingston, NY. Coordinated and conducted sediment toxicity sampling for a former Manufactured Gas Plant site part of pre-design investigation activities. Tasks included collection of sediment samples, identifying and documentation of locations with presence of Non-Aqueous Phase Liquid (NAPL), coordination of subcontractors and lab personnel, and safety oversight of work over water.

Former Pigment Manufacturing Facility, Wellesley, MA. Conducted field work for Ecological Risk Characterization to evaluate the hazard of heavy metals in wetland soils and sediments to aquatic life within the Lower Waban Brook. Responsibilities included site reconnaissance to assess riverine habitat and collection of sediment samples and benthic macroinvertebrates.

Superfund

Gowanus Canal Superfund Site, Brooklyn, NY. Served as technical consultant to the allocation team for the allocation of the Gowanus Canal Remedial Design costs. Tasks included reviewing several rounds of extensive submittals by Potentially Responsible Parties (PRPs), attending oral presentations, identifying key allocation factors, coordination of internal experts, consultations with PRPs, and integrating substantial amounts of information and data to develop a model and model for the allocation of Remedial Design costs.

Ecological Work

Ecological Risk Assessment, Various Sites. Supported lead ecological risk assessor by managing analytical data and providing statistics and calculations necessary to evaluate ecological risks.

Rapid Bioassessment Protocols, Various Sites. Conducted Rapid Bioassessment Protocols (RBP) in streams and rivers at various manufacturing sites to evaluate habitat and the biological condition of nearby water bodies.

Regulatory Compliance and Environmental Support Services

- The Riverside Company, Cleveland, OH, Nationwide Portfolio
- Lovejoy Wharf, The Related Companies, LP, Boston, MA
- Millennium Place III (Hayward Place), Millennium Partners, Boston, MA
- Various Commercial, Residential, and Institutional Development Projects, Greater Boston Area, MA

Due Diligence

- Seaport Square Parcels, Boston Global Investors, Boston, MA

- Channel Center Properties, Commonwealth Ventures, Boston, MA
- Station Landing, National Development, Medford, MA
- Assembly Row, Avalon Bay Communities, Inc., Somerville, MA
- Central Square Portfolio, Odyssey Partners, Cambridge, MA
- Massachusetts Green High Performance Computing Center, MGHPCCC c/o MIT Facilities, Holyoke, MA
- Various Commercial, Residential, and Institutional Development Projects, Various Sites, US

Presentations

T. Ng, S. Clough, M. Kelley, and K. Johnson. *Using forensics and sediment toxicity to define the contamination footprint of the Peter Stuyvesant shipwreck (Boston Harbor)*. Poster Presentation. Battelle Sediment Conference, New Orleans. February 2019.