

# Alex V. Miller

## Environmental Consultant

Alex V. Miller is an Environmental Consultant with Edge Engineering and Science, LLC (EDGE) headquartered in Houston, Texas. Mr. Miller has been in the environmental field since 2009 with a variety of domestic and international experience. While acquiring his BS in Biology, he had an internship with the Fish and Wildlife Service in Region 5 and conducted independent honors research on the diet selectivity of White Perch in Lake Champlain. After graduating, he worked for the Colorado Division of Wildlife as an aquatic technician before attending graduate school. While in graduate school he worked at the Environmental Institute of Houston conducting surface water assessments, wetland delineations, fisheries and terrestrial biological surveys. His graduate thesis characterized the impact of freshwater inflow on the biological community of a Texas riverine estuary.

Mr. Miller's professional expertise includes environmental construction permitting and inspections, aquatic and terrestrial habitat utilization studies, collection of endangered species, and wetland delineations. Environmental permitting experience with upstream and FERC regulated midstream oil & gas projects. Environmental impact assessment experience includes managing applicant prepared environmental impact statements (EIS) and contributing to sections of third-party EIS's for proposed pipeline projects. He has conducted fisheries and benthic surveys in rivers, lakes and estuaries. Other survey and analytical involvement includes contaminated groundwater monitoring, environmental site assessments, and waterbody recreational use assessments. Mr. Miller has international experience in Canada and domestic experience in Texas, Arkansas, Louisiana, Mississippi, Alabama, Tennessee, Kentucky, Virginia, West Virginia, Ohio, Pennsylvania, New Mexico, Arizona, Colorado, New York, and Vermont working for oil & gas clients and governmental agencies.

### EDUCATION:

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THE UNIVERSITY OF HOUSTON—CLEAR LAKE • HOUSTON, TX

**Master of Science in Environmental Science (2014)**

SAINT MICHAEL'S COLLEGE • COLCHESTER, VT

**Bachelor of Science in Biology (2010)**

### AREAS OF EXPERTISE:

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- Environmental Site Inspections
- Environmental Construction Management
- Fisheries Surveys
- Surface Water Sampling
- Groundwater Monitoring and Soil Sampling
- 7 (c) Project Management
- Third-Party EIS Preparation
- Environmental Permitting
- Wetland Delineation
- Threatened & Endangered Species

## REPRESENTATIVE PROJECT EXPERIENCE:

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### NEPA Applications, EIS

- **Spectra Energy – Texas Eastern Longwall Mining Projects (PA, WV)**  
Coordinate and execute environmental permitting and applicant prepared resource report preparation for 7(c) FERC regulated pipeline construction projects. Serve as subject matter expert directly representing the client in weekly internal meetings and communications with contractors or agencies. 2015-current
- **Kinder Morgan CO2 Company – Lobos CO2 Pipeline (NM, AZ)**  
Author for the preparation of the BLM third-party EIS for a 255-mile CO<sub>2</sub> pipeline project. Consultation and coordination were primary considerations for analysis, also contributed to threatened and endangered species and wildlife chapters. 2014-current.

### Environmental Sampling, Permitting, and Due Diligence

- **Spectra Energy – Environmental Permitting (TX, LA, AR, AL, TN, MO, TN, KY, OH, VA, WV, PA)**  
Manage environmental permitting for Operations projects across multiple business units of Spectra in order to maintain pipeline integrity in accordance with DOT safety standards. These projects were generally under FERC blanket authorization including anomalies, cathodic protection installs, pipe replacements, and launcher/receiver installations. 2014- current.
- **Various Clients and Projects (TX)**  
Served as the environmental inspector for pipeline and transmission construction projects to insure requirements and best management practices of the Stormwater Pollution Prevention Plan were met. 2014.
- **Esso Oil – Kearn Oil Sands Project (AB, Canada)**  
Communicated environmental regulations to seven major contractors responsible for building an oil sands operation on behalf of the client. Supported site planning at a senior management level as part of the construction management team. Reviewed work plans, best management practices, and various permits by contractors to verify that they met provincial and federal regulatory requirements in Northern Alberta. Managed construction activities to ensure they were in compliance with open and closed circuit water, waste, spills, and wildlife interactions. Lead and participated in site-wide meetings involving various working groups. Involved in environmental incident investigations during construction and operation of the facility. 2013.
- **Environmental Institute – Brazos Estuary Aquatic Community Assessment Project (TX)**  
Designed, implemented and authored report evaluating multi-decadal changes in the nekton community of the lower Brazos River. Over the course of the study, collected and identified 110 species and over 146,000 organisms. Served as project manager, responsible for managing a team of research associates, assistants and volunteers to insure the sampling effort consistently met the sampling design. The research determined that fluctuations in freshwater inflow greatly impacted the physiochemical and biological communities of a riverine estuary. 2011-2014.
- **Various Clients and Projects (TX)**  
Conducted groundwater and soil logging surveys in fulfillment of Phase II environmental site assessments. These were abandoned oil & gas facilities that were suspected of contamination. 2013.
- **Texas Parks and Wildlife – Various Projects (TX)**  
Monitored diamondback terrapins in Galveston Bay, Texas using radio telemetry and random transect surveys. Conducted surveys of the threatened piping plover to determine habitat utilization, philopatry and migration with radio telemetry. Modeled juvenile blue crab growth through mark and recapture surveys in an adjacent creek to Galveston Bay. Conducted surveys of piping plover habitat usage. 2011-2013.
- **Harris County Flood Control District – Urban Stream Habitat and Biomonitoring (TX)**  
Determined the integrity of Harris County streams and the impacts of urbanization. Fishes were collected by seine and backpack electrofishing units. Benthic macroinvertebrates were collected by kick sampling. Water quality, stream morphology and riparian characteristics were also measured. 2011-2012.

- **EPA – National Wetland Condition Assessment (TX)**  
Assigned on the Texas field crew as part of the first-ever national survey on the ecological condition of the Nation’s wetlands. Identified plants and hydric soils on coastal Texas wetlands. The purpose of these surveys was to generate statistically-valid and environmentally relevant reports on the condition of the Nation’s water resources. 2011.
- **TCEQ – Recreational Use Attainability Analyses (TX)**  
Collected data in streams regarding surface water quality and recreational use. Followed this effort up by interviewing various public officials and citizens on stream usage. The purpose of these surveys was to ascertain the actual recreation occurring on the streams and, if necessary, to assign a more appropriate use. 2011.
- **Colorado Division of Wildlife – Various Projects (CO)**  
Main tasks included sensitive species restoration, fisheries population management, fish habitat utilization and conducted fish kill investigations in the Southwest region of Colorado. 2010.
- **USFWS – Various Projects (VT, NY)**  
Conducted stream habitat and fish community population surveys. Developed federal protocol for presence/absence of Brook Trout in alpine streams. Also assisted with research analyzing riparian sapling health to determine best species for bank restoration projects. 2009.

#### **CERTIFICATIONS/TRAINING:**

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- OSHA HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE - 40 HOUR
- SAFETY LEADERSHIP
- ABORIGINAL AWARENESS
- PADI OPEN WATER SCUBA DIVING

#### **PRESENTATIONS/PUBLICATIONS:**

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- Evaluation of Multi-decadal Changes in the Nekton Community of the Lower Brazos River: Potential Influence of Freshwater Inflow. Presented at 2012 Gulf Estuarine Research Symposium, Dauphin Island AL and 142<sup>nd</sup> Annual American Fisheries Society Meeting, Minneapolis, MN. 2012.
- Diet Selectivity of White Perch (*Morone americana*) in Lake Champlain. Presented at the 66<sup>th</sup> Annual Northeast Fish and Wildlife Conference in Boston, MA. April 2009.