

Jon Schmidt, Ph.D.

Vice President, Environmental & Regulatory

Education + Training

- Ph.D., Biological Sciences, Florida State University
- M.S., Biological Sciences, University of Bridgeport
- B.S., Marine Biology, University of Massachusetts - Dartmouth

Select Publications

- R.A. Brooks, J. Schmidt, M.C. Aubele, 2009, Mitigating for Construction Impacts of an Offshore Pipeline in the Gulf of Mexico, Proceedings of the Offshore Mediterranean Conference and Exhibition in Ravenna, Italy, March 25-27, 2009.
- Schmidt, J.A., S. Ellsworth, R. Allen Brooks, M.C. Aubele, and H. Ed Watkins, 2007, Monitoring, Analysis show rapid Gulf of Mexico Seafloor Recovery, Oil and Gas Journal, Part 1--Jan 1, 2007, pp 58-61.
- Schmidt, J.A., S. Ellsworth, R. Allen Brooks, M.C. Aubele, and H. Ed Watkins, 2007, ROV, diver-collected data show post construction epifaunal health, Oil and Gas Journal, Part 2—Jan 8, 2007, pp 52-57.
- Schmidt, J.A., S. Ellsworth, R. Allen Brooks, M.C. Aubele, and H. Ed Watkins, 2007, Limestone boulders, artificial reef modules provide seafloor mitigation, Oil and Gas Journal, Part 3—Jan 15, 2007, pp 60-64.
- Schmidt, J.A., S. Ellsworth, R. Allen Brooks, M.C. Aubele, and H. Ed Watkins, 2007, Habitat replacement increases flora-fauna diversity, abundance, Oil and Gas Journal, Part 4—Jan 22, 2007, pp 50-54.

**Work performed at previous firm*

Jon A. Schmidt is currently the Vice President, Environmental & Regulatory Services of EXP Energy Services Inc. He joined EXP in May of 2009. Prior to joining EXP, Jon was the Senior Vice President with AECOM (and ENSR) from 1996 through 2009, responsible for all midstream, LNG, and oil pipeline infrastructure permitting and regulatory work. Jon started his career with Ecology and Environment (now RPS) after graduate school, responsible for permitting and regulatory work for powerlines, pipelines, DoD facilities (Navy), and development projects.

Mr. Schmidt has extensive experience in environmental management, particularly with respect to the pipeline industry including: environmental regulatory strategy development and project planning, project management, environmental surveys, permitting, and environmental inspection. In over 30 years, he has permitted over 30,000 miles of pipeline projects in most states in the US for mid-stream pipeline companies, gas distributors, and producers. He has also permitted LNG facilities, refined products, natural gas, and crude oil pipelines and terminals throughout the US.

Currently, Jon is the Project Manager for the Summit Carbon Solutions Midwest Carbon Express (MCE) Project in Iowa, Minnesota, Nebraska, South Dakota and North Dakota. The MCE project entails almost 2,000 miles of 4- to 24-inch pipeline, pump stations, and CO₂ capture facilities that will transport 10-12 million tons of CO₂ to sequestration facilities in North Dakota. EXP's role is to serve as owner's environmental project manager responsible for coordinating environmental and cultural surveys of other contractors, managing tribal engagement and use of tribal monitors during field surveys, preparing the North Dakota Public Service Commission application, South Dakota Public Utilities Commission application, and assisting with the Iowa Utilities board filing. EXP is also overseeing and reviewing federal and state environmental permit applications prepared by others and managing environmental data, including field survey data and QA/QC of the data for use in applications.

Jon is also currently the Project Manager for the Blue Marlin Offshore Port (BMOP) Deepwater Port licensing. This includes the management of the USCG/MARAD filing process; agency consultation; on and offshore field survey coordination and incorporation of data into the permitting process; management and coordination of over 5 subcontractors for surveys, risk assessment and spill modeling; navigation planning and port operational design; and on and offshore cultural and biological survey firms. Through this and other projects, Jon excels in strategic planning and permitting for a myriad of projects for the energy industry, department of defense, and governments.

Prior to joining EXP, Mr. Schmidt had a wide variety of experience in the midstream energy industry, including work on and offshore in the US and around the world.

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- Schmidt, J.A. and S. Ellsworth, 2003, Managing the CZMA Process for Pipeline Permitting, presented at the International Offshore Pipeline Workshop in New Orleans, February 26, 2003.
- Schmidt, J.A. and R. Hoepner, 2002, Gulfstream Natural Gas Pipeline System Case Study in Environmental Permitting, presented at the Onshore Pipeline Conference, Amsterdam, December 5, 2002.
- Schmidt, J.A., and K. Kiefer, 1994, GIS/GPS Data Acquisition for the SITCO/SunShine Pipeline Projects, in Geographic Information Systems for the Pipeline Industry, 3rd Annual Conference Proceedings, Houston, Texas, pp. 15-1 to 15-18.
- Gallagher, G.A., D.W. Heatwole, J.A. Schmidt, and P.V. Witt, 1993. Applications of GIS in Siting of Linear Facilities in Current and Future Priorities for Environmental Management, 18th Annual NAEP Conference Proceedings, Raleigh, North Carolina, pp. 451-549.
- Schmidt, J.A., M. MacLaughlin, and S.O. Sanborn, 1992. Performance of Habitat/Biota Surveys of Sensitive Ecosystems as Part of Multi-site Investigation at the Naval Air Station Pensacola, paper presented to the American Defense Preparedness Association, 18th Annual Symposium, Washington, D.C.
- Schmidt, J.A., 1987. Dynamics of Benthos in Vegetated Marine and Freshwater Communities, Bulletin of the Ecological Society of America, 68(1): 53-54.

Project Experience - Continued**Energy Transfer, 42-mile onshore, 100-mile offshore Blue Marlin Offshore Port (BMOP) Project**

Starting in 2018 with early feasibility studies and conceptual project analyses, EXP continued their role with Energy Transfer to manage the permitting, licensing, and agency consultation coordination for the BMOP Deepwater port oil export project. The project involves a new pump station adjacent to the existing Sunoco Nederland tank farm in Texas, a new 42-inch diameter pipeline across Sabine Lake to tie into the existing Stingray pipeline system in Cameron Parish, Louisiana, and the conversion of approximately 100 miles of 36-inch pipeline from natural gas to oil service, including two offshore platforms—one of which will serve as the Deepwater port. Jon, as project manager, oversaw the development of the USCG/MARAD Deepwater port application, federal and state permit application, field surveys and data analysis, and agency coordination and consultation to receive a complete application determination on the initial filing. EXP is now assisting Energy Transfer in the post application phase and development of the EIS by the USCG.

Alaska Gasline Development Corporation (AGDC), 806-mile Alaska LNG Project

Starting in the fall of 2016 to present, EXP has continued their environmental leadership role for the Alaska LNG Project. This included bringing AGDC up to speed on progress of deliverables, surveys, and gaps necessary to be filled in order to progress the Project through the FERC process. In April 2017, EXP completed the FERC application for an on-time delivery of one of the largest FERC applications ever filed. Each copy consisted of over 58,000 pages of materials. EXP managed the development of the Environmental Report (ER) and worked with outside counsel on the Section 3 application to ensure an on-schedule delivery. EXP is continuing the support post-application, including responding to data requests and preparation of and support to the various federal, state and local permit applications and agency engagement.

ExxonMobil Development Corporation, 803-mile Alaska LNG Project.

EXP was hired to continue the work of the Alaska Pipeline Project under new leadership, ExxonMobil Development Corporation. Jon was Project Director overseeing EXP's role as owner's environmental representative overseeing a team of Alaskan-based and lower 48 consulting firms to undertake the extensive field work, regulatory coordination, and management of the GIS database. This included field work on and offshore of Alaska, air monitoring studies, noise studies, and modeling work necessary to support the NEPA process and permitting. EXP managed all project GIS data (environmental, engineering, and socioeconomic/stakeholder relations) and developed a web-based interface that was username/password protected (called Web Mapper) for Project team members to view and utilize the Project data without accessing the database itself. A comparable web mapper interface was developed for agencies to access and review the routing progress as field work ensued. Data and uses included all field data, agency supplied data, immersive

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video of the preferred route, high quality imagery, and a stakeholder engagement tool that tracked all landowner, public, and agency meetings. The stakeholder tool was GPS enabled and allowed Project personnel to input meeting results and minutes real-time in the field using a smart phone, tablet or computer. Applications within the tool allow for summary reports, queries, and tracking of follow-up items.

EXP was hired in 2012 to conduct the LNG plant siting work with engineering firms to identify, screen, and select preferred and alternative sites for the facility. In addition, EXP supported pipeline engineering to identify a preferred as well as alternative routes to connect with the alternative LNG sites. This information was used to form the basis of the FERC pre-filing request that EXP prepared.

ExxonMobil Development Corporation, 803-mile Alaska LNG Project, continued.

EXP supported the partnership through the FERC pre-filing process, responsible for completing the draft Resource Reports, agency coordination and interface, management of the Project data and development of numerous internal and external presentations and data summary/progress reporting. In mid-2016, ExxonMobil Development Corporation and other partners wound down their involvement and transferred the Project over to the Alaska Gasline Development Corporation, the quasi-state entity tasked with building a gas pipeline project to serve Alaska and the LNG markets. Agencies and the partnership highlighted EXP's work to the Alaska legislature in managing and facilitating the Project's success through the pre-filing process.

TransCanada/ExxonMobil Development Company as Alaska Pipeline Project (APP), 754-mile, Alaska Pipeline Project, Alaska.

Jon served as a member of the company Environment, Regulatory, and Land (ERL) management team for TransCanada and ExxonMobil to direct consulting firms conducting the environmental field surveys, agency consultations, and development of the FERC application for the proposed APP. His role focused on developing and implementing a regulatory strategy lined up with the commercial realities of the project. Jon directed consultants on the scope and efforts required for field surveys, the Resource Reports, and agency meetings and pre-filing activities. He wrote an overarching permitting roadmap and strategy, individual agency permitting plans, and helped implement through agency meetings and workshops to address and resolve timing and level of detail issues with the Alaskan agencies.

Keystone XL Pipeline, Montana, South Dakota, Nebraska, Kansas, Oklahoma, and Texas.

For the expansion of the Keystone pipeline, Jon served as the overall environmental manager reporting directly to TransCanada. Keystone XL is a 36-inch 1,375-mile crude oil pipeline to the Gulf Coast of the US. Jon's role was similar to that on the Keystone project, but with overall responsibility for environmental compliance. He managed several firms that carried out the field surveys, report writing, and permit application preparation. He served as expert witness in the South Dakota Public Utilities Commission (SD PUC) process as well as managed the Montana Facilities Siting Act application and process. EXP also managed the field surveys, regulatory consultation, and coordination with local electric cooperatives for the permitting of over 277 miles of electric transmission lines associated with the Project to power the pump stations.

Keystone Pipeline, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, Missouri, and Illinois.

Was overall account manager and project director for AECOM as they served as environmental management contractor for Trow Engineering Consultants, owner's engineer for the TransCanada Keystone Project. Keystone is an approximate 1,300-mile crude oil pipeline. Jon was responsible for the overall environmental regulatory strategy for the Department of State Presidential Permit application and EIS process. This effort entailed the coordination with the USACE across multiple districts, multiple USFWS field offices, the NRCS, the South Dakota PUC, North Dakota PSC, and multiple state agencies in each state. Jon's role also included senior review on the multiple filings that were

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made to the agencies, consultation coordination and meetings, and negotiation of permit conditions, and a Conservation Agreement with the USFWS for Migratory Bird Treaty Act mitigation. Jon was also pivotal in negotiating the USACE permitting to be a NWP for all states crossed and mitigation projects to cover compensation in all states crossed. EXP also managed the field surveys, regulatory consultation, and coordination with local electric cooperatives for the permitting of over 200 miles of electric transmission lines associated with the Project to power the pump stations.

El Paso Energy Bridge Gulf of Mexico LLC, Excelerate Gulf of Mexico LNG Import Terminal and pipeline, Gulf of Mexico.

Project Director, for the preparation of the MARAD application for this offshore terminal where LNG would be delivered to buoys and transported ashore by new pipeline. This was one of the first applications under the DWP for an LNG facility. ENSR assisted with permitting and agency consultation/negotiation. The terminal consists of a buoy, mooring anchor system, flexible riser, seafloor manifold, associated pipelines, and metering platform 116 miles offshore of Louisiana.

ConocoPhillips Company, Compass Port LNG Terminal (Deepwater Port) and Compass Pass Pipeline, Gulf of Mexico.

Project Director, ConocoPhillips Company contracted ENSR to assist with the licensing of its proposed Compass Port liquid natural gas facility in the northern Gulf of Mexico off the coast of Alabama. ENSR's services included: 1) developing the environmental report for the deepwater port (DWP) license application to the Maritime Administration (MARAD) and the U.S. Coast Guard (USCG), and 2) managing the development of the entire DWP license application per the DWP Act of 1974, as amended.

Related services included: 1) regulatory outreach, 2) biological impact assessment, 3) water discharge modeling, 4) air emissions modeling, 5) Environmental Protection Agency permitting (air and water discharges), U.S. Army Corps of Engineers permitting, 5) wetland surveys, 6) threatened and endangered species surveys, and 7) development and coordination of a biological sampling plan, among other services. Work scope included working with the University of South Alabama Dauphin Island laboratory to design and execute an 18-month biological monitoring program of the Project site offshore of Alabama. The study included the development of and implementation of discrete water depth plankton sampling to determine the cyclical movement of plankton in the water column over the course of a day, week, month and year. This information was instrumental in completing the complex modeling of ichthyoplankton impacts from water use to re-gassify the LNG into natural gas for the EPA discharge permitting.

ConocoPhillips Company, Environmental Services for Licensing of Proposed Beacon Port Liquid Natural Gas Facility, Gulf of Mexico

Project Director, ConocoPhillips Company contracted ENSR to assist with the licensing of its proposed Beacon Port liquid natural gas facility in the northern Gulf of Mexico. ENSR's services included: 1) developing the environmental report for the deepwater port (DWP) license application to the Maritime Administration (MARAD) and the U.S. Coast Guard (USCG), and 2) managing the development of the entire DWP license application per the DWP Act of 1974, as amended.

Related services included: 1) regulatory outreach, 2) biological impact assessment, 3) water discharge modeling, 4) air emissions modeling, 5) Environmental Protection Agency permitting (air and water discharges), U.S. Army Corps of Engineers permitting, 5) wetland surveys, 6) threatened and endangered species surveys, and 7) development and coordination of a biological sampling plan, among other services. Work scope included working with Louisiana Universities and NOAA Fisheries to develop a workable background data set of fisheries larvae information for the Project site offshore of Louisiana.

Jon Schmidt, Ph.D. - *continued***Vice President, Environmental & Regulatory****Project Experience - Continued****Liberty Natural Gas, L.L.C., Port Ambrose Project, Offshore New York**

Project Manager for the Port Ambrose Project which consists of a deepwater port and a subsea natural gas pipeline system that will transport revaporized natural gas into the growing markets in the New York region. Assisted in the management and preparation of the Deepwater Port Application to the U.S. Coast Guard (USCG) and Maritime Administration (MARAD) under the Deepwater Port Act and the Energy Policy Act of 2005. Prepared Federal and State permit applications, clearances, and approvals for construction of the project. Prepared and provided oversight in the preparation of the Environmental Report for the proposed onshore New Jersey pipeline in support of the FERC application pursuant to Section 7 of the Natural Gas Act using FERC's traditional filing process.

Texas Offshore Port System (TOPS), Offshore Port and Pipeline, Texas and GOM

Project Director for the TOPS Project which consisted of oversight and preparation of a Deepwater Port Application to the USCG and MARAD. Construction and operation of the proposed deepwater port would serve as an offshore crude oil receiving terminal and transmission facility. Additional pipelines were also proposed to be constructed from a proposed tank farm to allow for routing of crude oil to existing oil terminals in the Texas City and Port Arthur, Texas area.

OceanWay Secure Energy LNG Deepwater Port, Woodside Energy, California

Corporate Sponsor and Project Manager for the preparation of a deepwater port application to MARAD for an offshore LNG terminal off Southern California. ENSR developed the initial siting and feasibility study; prepared the DWP permit application to the USCG and the pipeline franchise application to the City of Los Angeles; prepared the other key federal permits (including NPDES, 404/10 USACE, and EPA air permits); provided a seconded pipeline engineer to lead the pipeline engineering team; supported the project team during agency and community meetings; assisted in the selection of the third-party EIS/EIR contractor and the interface between the contractor, the USCG, the City, and Woodside; and consulted on the CEQA/NEPA, DWP, the California Coastal Commission, and other permitting processes.

AES Ocean Express Pipeline Third Party Environmental Impact Statement

Served as Project Director for the Environmental Impact Statement (EIS) prepared for the AES Ocean Express pipeline project from the Economic Exclusion Zone (EEZ) to Broward County, Florida. This project ties into a pipeline and LNG facility to be built in the Bahamas. ENSR's role is to serve as the Federal Energy Regulatory Commission's (FERC's) extended staff in preparing the EIS. This included several offshore dives with agencies to review pipeline routing as well as assess impacts of the proposed construction methods. To date, a PDEIS has been drafted for regulatory review by the MMS, NMFS, FERC, and the USACE.

Ingleside Energy Center and San Patricio Pipeline, Oxy Energy Ventures, Corpus Christi, Texas.

Jon served as the Project Manager overseeing the preparation of the FERC filing for a new LNG regas facility collocated with Occidental's chemical plant and power plant near Corpus Christi, Texas. Jon coordinated the field surveys required for the facility location, the marine studies to accommodate the dredging of a new berth and pier, as well as studies along the 80+ mile pipeline from the facility to the interstate pipeline grid. Jon worked with Oxy's energy services staff to utilize waste heat from the power plant for regasification, air modeling and coordination with the plant's existing air permits, and coordination of the NHPA 106 and Section 7 ESA consultation required for the FERC application.

Jon Schmidt, Ph.D. - *continued***Vice President, Environmental & Regulatory****Project Experience - Continued****Bayou Casotte Energy LLC, Casotte Landing Natural Gas Import Terminal, Pascagoula, Mississippi**

Jon acted as Project Director for the FERC licensing and permitting of a liquefied natural gas import terminal adjacent to Chevron's Pascagoula refinery at Moss Point, Mississippi. The FERC filing covered the regasification facilities, air modeling and permitting, USACE permitting and dredge disposal studies, and the water use permitting for hydrotesting the LNG storage tanks. Because the site location and required dredging impacted the Gulf Sturgeon, a Section 7 ESA consultation was required to complete the EIS.

Cypress Pipeline Project, 166-mile Natural Gas Pipeline, Coastal Georgia and Florida

Project Director for permitting the Cypress Project, which included route analysis, agency consultation, FERC Environmental Report preparation, wetland delineation report to USACE and FERC, Environmental Resource Permit application to the state of Florida, and specialized field surveys for Gopher Tortoises.

Elba Island LNG Import Terminal Reactivation, Southern LNG Inc.—An El Paso Company, Georgia.

Project Director for the successful 1999–2000 certification for reactivation of the Elba Island Import Terminal.

Gulfstream Natural Gas System, Environmental Management of Pipeline Construction Project, Gulf of Mexico, Mississippi, Alabama, Florida.

Project Director for siting, routing, field surveys, and permitting for 775-mile pipeline construction project. One of the largest greenfield projects permitted in the Gulf of Mexico, it involves over 400 miles of 36-inch pipeline installation in the Gulf of Mexico and state waters for Florida, Mississippi and Alabama. The project has involved the coordination of over 100 regulatory agencies, and over 15 public meetings with landowners, the general public and over 30 environmental groups. Jon developed and led the Team Permitting (Florida) and FERC coordination aspects on behalf of the client. Included assessing project impacts to live bottom (reefs) in the Gulf of Mexico and impacts to threaten and endangered marine turtles and mammals. Complex modeling of reef impacts, recovery and mitigation measures were negotiated with the NMFS, BOEM (then MMS), State of Florida and USACE (see papers below).

Destin Pipeline Company, LLC (Southern Natural Gas Affiliate), Destin Pipeline Project - Construction of Natural Gas Pipeline, Gulf of Mexico to Clarke County, Mississippi.

Project Manager for environmental aspects of construction project which included the installation of 206 miles of 36-in outside-diameter (OD) and 30-in OD pipeline, installation of 2.4 miles of 16-in OD pipeline in Mississippi, installation of four-meter stations, construction of a platform in the Gulf of Mexico, and construction of two new compressor stations in Mississippi. Tasks included Alternatives Analysis for selection of a preferred route, environmental surveys, permitting, and on-site environmental inspection.

Blue Atlantic Transmission System, Environmental Management of Pipeline Project, Nova Scotia Canada to New York.

Project Director for the siting, routing, field surveys, regulatory permitting and meetings, and FERC filing for an 850+ mile large diameter pipeline from Nova Scotia into the New York marketplace. The project has involved meeting with all the New England state regulatory bodies, the FERC, NMFS, USACE, MMS, and NOAA to discuss routing and field survey requirements. Roundtable agency discussions on impacts of the pipeline on the sea bottom to the lobster fisheries were incorporated into a publication still used today by agency decision makers on assessing impacts of offshore projects to lobster movements and survival.

Jon Schmidt, Ph.D. - *continued***Vice President, Environmental & Regulatory****Project Experience - Continued****Etowah LNG Company, LLC, Etowah LNG Peakshaving Facility and Pipeline Construction Project, Polk County, Georgia.**

Project Director for all environmental aspects of project related to construction of a new 2.5-billion cubic ft. liquefied natural gas peakshaving facility and 12.49 miles of 12.75-in OD natural gas pipeline. Directed team responsible for: preparation of FERC 7(c) filing and Biological Survey Report; conducting biological field surveys of the jurisdiction and non-jurisdictional facilities (including wetlands, species of concern, and surveys for construction constraints); assisting in the siting of the Etowah Pipeline; preparing Land Disturbing Activity; permitting for the construction of the jurisdictional facilities; preparing the application to the USACE for Section 404 permit; coordinating with surveyors to quickly complete field surveys; and performing agency consultations and negotiations.

TransCanada/ANR partnership, 800+ mile SunShine Pipeline Project, Florida, and Alabama.

Technical Project Manager. Managed the technical team to put together the state of Florida Siting Application as well as directed the effort for the FERC ER. Managed the technical efforts and data analysis for the cultural resource and biological surveys using GPS/GIS. Participated in the 36 public meetings and coordinated with 80 regulatory agencies from local, regional, state and federal agencies to coordinate comments and simplify licensing/permitting conditions. Put together a regulatory and technical Mitigation Task Force to constructively deal with the impact to over 1,000 wetland crossings.

TransContinental Pipe Line Company, Southeast Mainline Looping Project, Alabama, Georgia, and North Carolina.

Directed the biological field survey efforts, FERC ER preparation, and provided support to TransContinental for FERC data requests.

Viking Voyageur Pipeline Company, Viking Voyageur Pipeline Project, Minnesota, Wisconsin, and Illinois.

Project Director for 800+-mile project which included providing siting, biological and cultural resource field surveys, FERC ER preparation, and permitting support and coordination for the joint TransCanada and NSP Power project.

ANR, LSP Power Project, Mississippi.

Project includes the field surveys, permitting and FERC ER preparation for the 12-mile lateral.

Southern Natural Gas Company, Southern Natural Zone III Expansion Project, Alabama, and Georgia

Project director for the Southern Natural Zone III Expansion Project (27 miles looping in 3 states with compression), FERC Section 7(c) Environmental Report (ER), field Surveys, permitting, and environmental inspector's manual preparation.

Florida Power Corporation, Environmental Master Services Agreement, Florida.

Projects included jurisdictional wetland delineations at the Higgins Power Plant, waste water monitoring at the Monticello facility.

ANR Pipeline Company, Patterson Looping Project, Gulf of Mexico, and Louisiana

Project director for 37-mile project which included FERC ER preparation, federal and state permitting, and agency negotiation.

Southern Natural Gas Company, Approximately Fifteen 7(c) and 7(b) Projects Totaling 600 Linear Miles, LA, MI, AL, GA, TN, SC, NC, FL, and Gulf of Mexico.

Project Manager and Director providing air permitting, contamination assessment, audit and environmental inspection services for regulated facilities, including abandonment, abandonment and replacement, and compressor station abandonment for regulated facilities (in GA, MS, AL, LA and TN).

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Project manager for several US Navy EAs which were completed for proposed facilities or Navy actions. Projects included the Camp Pendleton Warfare Training facilities, the Naval Warfare Training Facilities on Isla Pincros, Puerto Rico, and the ecological risk assessment at the Naval Air Training Center in Pensacola, Florida. Managed the efforts to conduct a siting alternatives analysis study along the Atlantic seaboard for the shock testing for the new class of submarine, the Sea Wolf. Project utilized satellite imagery to create databases and a GIS to manage the information. Required to assess impacts of underwater detonation of explosives to marine mammals and endangered species.

Chandeleur Pipeline Company, Chandeleur Destin Extension Project and Chandeleur Expansion Project, Mississippi, and Gulf of Mexico, and Louisiana

Project director for Chandeleur Destin Extension project (4 miles) and Chandeleur Expansion project (30 miles). ENSR provided field survey, FERC ER preparation and permitting support until the project was removed from consideration by Chandeleur. This included a FERC 7(b) abandonment filing to facilitate system flow and efficiency.

Discovery Pipeline Company LLC, Discovery Pipeline Project, Gulf of Mexico, and Louisiana.

Project manager for 80-mile project where ENSR was asked to provide a fast track ER for filing with the FERC and support to Discovery through the FERC review and certification process.

Southern Natural Gas Company, Southern Natural East Tennessee Expansion Project, Alabama, Georgia, and Tennessee.

Project Director for the project. On a fast track basis, ENSR conducted biological field surveys, completed the FERC ER and survey reports, agency consultation for filing with the FERC and state and federal agencies in 45 days. Completed all permitting and construction implementation plans. Provided EIS and managed environmental inspection.

Southern Natural Gas Company, North Alabama Pipeline Project, Alabama.

Project Manager for Southern Natural's 122-mile North Alabama pipeline project in Tuscaloosa, Fayette, Walker, Cullman, Morgan, and Madison counties, Alabama. Project involves route alternatives analysis, FERC 7(c) ER, field surveys using GPS/GIS, and public meeting/FERC support through the EIS process, permitting, and agency negotiation. Currently providing EIS and inspection services.

Tenneco, Tenneco West-East Pipeline Project, Louisiana, and Mississippi.

Project management involved preparation of the ER for a 225-mile project, management of the biological and cultural resource surveys in Tennessee's Vicksburg field office, and coordination with state and federal agencies and FERC.

International**TransCanada Pipelines, Colombia.**

For TransCanada's first pipeline project in Colombia, Jon served as the technical reviewer and in-country consultant coordinator between the local environmental consulting firms and TCPL's project staff. He helped the locals develop the scope of work for the EIA with the regulators, oversaw implementation, and assisted in impact assessment development to ensure permitting conditions could be implemented in the field by TCPL.

ENSR (now AECOM) – Senior Vice President

Responsibilities included: Part of senior management team at ENSR/AECOM that oversaw all of the company's consulting services related to pipelines and LNG facilities. This included ensuring that staff resources were available across the country and around the world to support key clients on all pipeline and LNG projects. Jon was also

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account manager for TransCanada, El Paso, and ConocoPhillips while overseeing the company's mid-stream services line.

PDVSA, eastern Venezuela.

Working with Willbros Engineers, Jon served as the project manager for a routing and feasibility study for the Caripito-Guiria oil pipeline project in the Orinoco River basin. This project involved siting a new oil pipeline from interior E & P locations, across virgin tropical wetland forests, to the coast for PDVSA to build a new oil refinery and shipping facilities to export this new source of crude. Working with local environmental and engineering firms, Jon oversaw the route development, aerial reconnaissance, and report preparation. He participated with Willbros in presenting the study's results to the PDVSA management.

Endesa, Chile

For two separate projects on the Bio-Bio River, Jon served first as a task leader for an Environmental Impact Assessment (EIA) to the International Finance Corporation (IFC) for a hydro-electric dam, the first in a series of 5 to be built on this Clase VI river. This project was the first Category A EIA to be reviewed and approved by the IFC. On a subsequent project, Jon was the project manager for a downstream impact and flow study related to the EIA. Issues and concerns related to the operations of the dam resulted in this additional study where Jon had to coordinate and manage local University professors specializing in endemic fish species, hydrologists, modelers, and riverine ecologists coupled with E & E's ecological and modeling staff. He managed his work efforts from Santiago Chile and served as the principal negotiator between Endesa and the IFC on flow conditions for dam operations.

Ecology and Environment Inc. – Senior Environmental Scientist

Responsibilities included: Served as project manager and project director on energy related projects throughout the US and overseas. Specialties included marine impact assessments and NEPA document preparation for energy projects.

While with E&E, Jon managed an environmental services contract with Florida Power Corporation (FPC) to provide permitting and environmental survey services for new peaking turbine locations, powerlines, and other facilities. Jon also managed several environmental assessments for the US Navy for proposed new facilities in Virginia, for testing the Seawolf class of submarine in the Atlantic, at Roosevelt Roads Puerto Rico, and at NAS Pensacola.