NATIONAL ASSOCIATION OF ENVIRONMENTAL PROFESSIONALS

Texas A&M University
College Station, Texas
October 18, 2011
PROFESSIONAL CAREER OPPORTUNITIES

• Environmental Consulting Firms
• Financial Institutions
• Environmental Law Firms
• Federal, State & Local Government

• Industry
  – Oil & Gas
  – Petrochemical
  – Mining
  – Utilities
    • Fossil
    • Nuclear
    • Wind
DESIRED DEGREES

- Engineering
  - Environmental
  - Chemical
  - Civil
- Geology
- Environmental Science
- Biology
- Chemistry

- GIS
- Safety
CONSULTING SERVICES

- Site Assessments
  Phase I & Phase II
  Compliance Audits
  PCA

- Permitting & Compliance
  Stormwater, SWP3s
  SPCC Plans
  Wastewater Discharge
  Noise Monitoring
  Risk Management Plans

- Remediation
  Risk Assessments
  Remediation Design
  Brownfield Redevelopment

- Air Quality
  Emission Inventory
  Air Permitting
  Emission Calculation
  Dispersion Modeling
  Applicability Determination
CONSULTING SERVICES
(Continued)

- Risk Management
  Risk Management Plans (RMPs)
  Process Safety Management Plans
  Community Relations

- Solid & Hazardous Waste
  RCRA Part B Permitting
  Waste Minimization
  Contingency planning

- NEPA Services
  Endangered Species Surveys
  Species Relocation
  Habitat Conservation Plans

- Wetlands
  Wetlands Delineations
  Wetlands Restoration, Mitigation, Creation
  Coastal Zone Studies
CONSULTING SERVICES
(Continued)

- Industrial Hygiene
  Chemical Exposure
  Safety Training
  Indoor Air Quality
  Asbestos, Lead-Based Paint, Mold Surveys & Abatement

- Information Management
  GIS Mapping
  EMS Development

- Geologic & Hydrogeologic
  Subsurface Investigations
  Landfill Investigations
  Groundwater Monitoring
  Geophysical Investigations
  Groundwater Modeling

- UST Assessment & Closure
  Soil & Groundwater Assessment/Remediation
  Removal & Disposal
  Facility Design
CONSULTING SERVICES
(Continued)

- Power Services
  Transmission Distribution Routing Studies
  Radiological Monitoring Programs
  Radiological Decommissioning
  Combined Construction
  Operating License Application

- Engineering Services
  Grading & Draining Analysis
  Flooding Analysis
  Dam Failure Analysis
  Seismic Analysis
CAREER TRACTS – ENVIRONMENTAL CONSULTING

• Staff Scientist/Geologist/Engineer
  Conduct Phase I & Phase II Investigations
  NEPA Assessments
  Asbestos, Lead-Based Paint Surveys, Mold Surveys
  UST Removals/Investigations
  Subsurface Investigations
CAREER TRACTS – ENVIRONMENTAL CONSULTING (Continued)

• Project Management

Main Point of Contact With Client

Responsible for Technical, Financial & Administrative Success of Projects

Responsible for Ensuring the Project is Completed on Time, On Budget, Within Scope & at Desired Performance Level & Quality

Demonstrated capability as technical contributor on projects
PROJECT MANAGEMENT
(Continued)

- Meaningful participation on a major proposals
- Demonstrated ability to work with people
- Good communication skills
- Ability to lead and direct other people
- Sufficient understanding of project management tools such as scheduling software
CAREER TRACTS – ENVIRONMENTAL CONSULTING (Continued)

• Subject Matter Expert
  Specialty/Niche advanced expert in some specific area
  Groundwater Modeling
  Air Modeling
  Specific Endangered Species
  Specific Archeological Niche
CAREER TRACTS – ENVIRONMENTAL CONSULTING (Continued)

• Office Manager
  Business Development Responsibilities
  People Management
  Profit & Loss Responsibility
  Training & Mentoring
  Strategic Planning
CAREER TRACTS – ENVIRONMENTAL CONSULTING (Continued)

• Operations Manager
  Multiple Offices
  Business Development Responsibilities
  People Management
  Profit & Loss Responsibility
  Training & Mentoring
  Higher Level Strategic Planning
  Contracting/Legal Issues
The Federal Deposit Insurance Corporation (FDIC) is an independent agency created by Congress that maintains the stability and public confidence in the nation’s financial system by insuring deposits, examining and supervising financial institutions and managing receiverships.

For over 15 years, ENERCON has been the National Advisory Services Contractor for the FDIC Environmental Department. In that capacity, ENERCON has performed several tasks for the FDIC.
FDIC NATIONAL ENVIRONMENTAL ADVISORY SERVICES CONTRACTOR

Technical Advisory Services

- Review and track environmental reports conducted on FDIC owned real estate (ORE) and pre-foreclosed loan (PFL) assets. The environmental reports consist of environmental checklist; Phase I, II, III Environmental Site Assessment (ESA), comprehensive surveys (such as asbestos or lead-based paint).
- Track the progress, costs, correspondence, and points of contact for FDIC advanced phase projects
- Prepare statements of work for advanced phase ESAs, and review contractor bids and deliverables
- Periodically conduct site visits to check the status of advanced phase projects and provide technical oversight
- Provide interaction with various local, state, and federal regulatory agencies in cooperation with the FDIC
Technical Advisory Services (Cont.)

- If an FDIC ORE asset entered into an environmental remediation escrow agreement with a Buyer, ENERCON monitors the escrow account, reviews disbursement requests from the Buyer for remediation costs incurred at the property, make recommendations to the FIDC for payment, and provided account tracking reports to the FDIC.

- Prepare expenditure cases and memoranda for FDIC upper management with regard to such items as remediation agreements and fund addition approvals.

- Leaking Petroleum Storage Tank (LPST) reimbursement application preparation and tracking. ENERCON’s efforts with state LPST reimbursement programs has resulted in the FDIC recouping approximately $2.9 million dollars of expended funds.
ENERCON serves as the sole provider of environmental review services across the spectrum of business lines for a national financial institution. Provided services include:

- Pre-lending evaluation of environmental due diligence to determine credit risks on loans secured with real estate and other collateral on an as needed basis.
- Evaluation of environmental due diligence on all Special Assets prior to foreclosure or deed-in-lieu of foreclosure.
- Oversight, management, and evaluation of Phase II Environmental Site Assessment activities on all Special Assets prior to foreclosure or deed-in-lieu of foreclosure.
- Remedial services on Bank owned assets on an as needed basis.
The National Environmental Policy Act of 1969 (42 U.S.C. 4321-4347) is the basic national charter for the protection of the environment. It establishes policy, sets goals, and provides a means for carrying out the policy.

NEPA’s police assures that all branches of the government give proper consideration to the environment prior to performing any major federal action that could significantly affect the environment.

Federal actions include but are not limited to construction of highways, airports, certain buildings, parklands, military complexes, or any other project where federal funds will be used.

The Environmental consequences of these federal actions must be assessed by agency decision-makers, such as ENERCON, with different levels of review depending on the severity of significant effects.
NEPA SERVICES

The levels of NEPA review include:

1. Categorical Exclusions – prepared when significant effects are not anticipated
2. Environmental Assessment – prepared when significant impacts are uncertain
3. Environmental Impact Statement – for actions that significantly affect environment

ENERCON is in the process of completing a Categorical Exclusion for the City of Fort Worth. For this project, the City is seeking federal funds to reroute Live Oak Street around nearby railroad tracks for community safety. A portion of Live Oak Street that will be rerouted is shown below.
CITY OF FORT WORTH
EXAMPLE PROJECTS

Highway Expansion Project Due Diligence, investigation & Remediation

2004 & 2005 – ENERCON performs Phase I ESAs of several commercial and industrial properties along proposed highway corridor

2006 to 2009 – ENERCON performs subsurface investigations at several properties where ESAs identified RECs
2009 to 2011 – ENERCON performs risk based assessment and remediation activities at contaminated sites to achieve regulatory closure and facilitate highway construction.

CITY OF FORT WORTH
EXAMPLE PROJECTS
City of Fort Worth - Projects

Convention Center - Gasoline UST removed in 2007 where no indication of release was identified; however, fill debris in excavation was suspect to have been source of PAHs in confirmation samples. Three (3) monitor wells installed in 2009 for LPST assessment. Source of PAHs was identified as a “tar well” from historic occupant of the property. Status report and LPST closure request submitted to TCEQ in September 2009.

Technicoat – APAR submitted in January 2009 to address provisions of the 1999 Agreed Order. Vinyl chloride in one (1) on-site monitor well presently shows contaminant concentrations exceeding the critical PCL. TCEQ comments to the APAR submittal were addressed in July 2009. Upon approval of the APAR, the goal is to enter the site into the VCP with site closure options to be evaluated at that time.

Carr Construction – No soil contamination above PST program Action Levels. Currently preparing an LPST Assessment Report per TAC 334 to address benzene in groundwater.
City of Fort Worth Projects

NEPA PCEs - Magnolia Street Closure, Live Oak Connector, and Wayfinding Guide Sign PCEs submitted to TXDOT in August and September 2009. Magnolia Village Streetscaping and Garden Acres Turn Lane PCEs in progress.

Noise Surveys – United States Department of Housing and Urban Development (HUD) Environmental Noise Assessments associated with vehicular, aircraft and railroad traffic completed in September 2009 for 18 City owned sites that have were proposed Habitat for Humanity infill developments.

NEPA FCC Section 106 - Communication tower construction notifications completed for Bolt Street Dispatch and Rolling Hills Water Treatment Plant. Currently completing Holly Water Treatment Plant Section 106 notification.
City of Fort Worth - Projects

Trinity River Vision – Currently preparing a work plan for submittal to TCEQ describing the change in surface use at the City’s Police Vehicle Impound per 30 TAC Chapter 330 Subchapter T. The impound site, which is constructed on a closed landfill, is expected to receive spoils from the creation of additional valley storage associated with the Trinity River Vision project.

SPCC Plans - Currently preparing updated SPCC plans for six (6) city owned facilities.
ENERCON was awarded an Environmental Consulting Services Contract for the Love Field Modernization Program (LFMP) in January 2011. The LFMP is a $519 million capital improvement project for Dallas Love Field Airport. The program is funded through a partnership with the City of Dallas and Southwest Airlines. This contract is expected to run through 2015.
LOVE FIELD AIRPORT
EXAMPLE PROJECTS

Projects under this contract include:

• General on-call environmental consulting related to the on-going construction Vapor-intrusion modeling of contaminants
• Implementation of the LFMP Contaminated Materials Management Plan
• Professional consulting involving interface with State and Federal regulatory agencies
• Waste water discharge permitting support
• On-Call soil screening for VOCs and Metals with hand-held field instruments
• Oversight and reporting for aviation fuel line removal
• Documentation and tracking for generated wastes (soils, water, etc.)
• Oversight and documentation of construction activities as related to environmental compliance at the site
• Stormwater compliance assistance
LOVE FIELD AIRPORT
EXAMPLE PROJECTS

Fuel Line removal and installation activities at Love Field Airport