

**ENVIRONMENTAL ENGINEERING, CONSTRUCTION, AND
SUPPORT SERVICES**

**STATEMENT OF
QUALIFICATIONS**

2006
VERSION 4.1



**ENGINEERING,
CONSTRUCTION &
SUPPORT SERVICES**

U.S. SBA 8(a) Certified

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1. INTRODUCTION

Environmental Assessment and Remediation Management, Inc. doing business as EAR Engineering, Construction, and Support Services (EAR) is an engineering, construction, and support services company with offices in southern and northern California. We believe that we have ideal geographic coverage to support all of California and that we have the required staff to meet your needs immediately.

The following sections provide additional information about the proposed team.

1.1. ABOUT EAR ENGINEERING, CONSTRUCTION & SUPPORT SERVICES



EAR is headquartered in Riverside, California and has a regional office in Monterey, California. Founded in 1993, EAR is a full service environmental engineering, construction, and support services company that provides a diversity of experience and comprehensive expertise in addressing our client needs. We have extensive experience in remediation; demolition; and lead, mold and incidental asbestos abatement projects. Our clients include federal, state, and local agencies and privately-owned project sites throughout the western United States.

We take great pride in the personal service we offer to our clients and are committed to providing high quality services at reasonable costs. Our high caliber of work begins and ends with our 80 staff members that include registered professional engineers (chemical, civil, electrical and environmental), geologists and hydrogeologists; environmental scientists; toxicologists and field professionals. We have sought to integrate the cutting edge of design with a high level of environmental and construction expertise. Our primary goal is to provide a level of service unparalleled within the modern engineering community. To achieve these means, we have chosen to take a “hands on” approach to problem solving. It is not uncommon to see Principals, Project Managers, Environmental Engineers and Project Coordinators together at a project site seeking to better understand or resolve the intricacies of a design or construction element. Within this framework, each member of the EAR project team becomes familiar with each assigned project, from inception to completion. With this level of involvement and “personalization,” a great deal of pride is placed in each project by each team member which serves to elevate the level of internal quality far above the norm and ensures that, along the life of the project, multiple checks and balances are scheduled and implemented.

Services provided by EAR are as follows:

- Phase I and Phase II Environmental Site Assessments
- Feasibility Studies
- Remediation Services
 - Groundwater, Vapor, and Soil Sampling
 - Soil Vapor Extraction, Groundwater Pump and Treat, Permeable Reactive Barrier, and Biobarrier Systems Installation and Operation and Maintenance
 - Well Installation, Abandonment, and Destruction
 - Geoprobe® Boring Installation
 - Monitoring Reports, Remedial Action Work Plans, and Corrective Action Plans
- Underground Storage and Aboveground Storage Tanks
 - Installations & Removals
 - Repairs & Upgrades
- Security Reinforcement
 - Barricades & Fencing
 - Intrusion Deterrent Systems
 - CCTV/Alarm Systems
- General Construction Services
 - Management and Inspections
 - Design Build
 - Historical Building Renovation
 - Tenant Improvements
 - Electrical Repairs
 - ADA Compliance
 - Asphalt & Concrete Paving
- Demolition
 - Commercial/Industrial/Residential
 - Lead/Asbestos/Mold Abatement
 - Pipe Pigging/Abandonment

EAR is a California state registered contractor (registration #708748) capable of bonding up to \$1,000,000 on environmental and \$5,000,000 on construction projects. In addition to being a Arizona registration, EAR is registered with the California Contractors State License Board (license number 708748) in the classifications of: A – General Engineering, ASB – Asbestos Abatement, B – General Building, C8 – Concrete Paving, C10 – Electrical, C12 – Earthwork, C21 – Demo/Building Moving, and HAZ – Hazardous Materials Management. EAR is a U.S. SBA 8(a) certified firm.

2. REMEDIATION SERVICES EXPERIENCE

EAR offers a variety of technical staff that can be utilized to assist your firm with varying tasks related to remediation projects. Following are a couple examples of EAR projects.

PROJECT EXAMPLE 1 – REMEDIATION SYSTEM OPERATION AND MAINTENANCE, MARINE CORPS BASE CAMP PENDLETON

Project Site: Underground Storage Tank Sites 2459, 2666, 13 Area and 22 Area, Marine Corps Base Camp Pendleton, California

Client: Southwest Division Naval Facilities Engineering Command

Contract Amount: \$1,907,648

Period of Performance: January 28, 2004 through January 24, 2008

PROJECT HIGHLIGHTS

- ◆ Operates, maintains, and optimizes bioventing/biosparging, biobarrier, soil vapor extraction, and total fluid recovery pump systems to remediate contaminated soil and groundwater.
- ◆ Collects groundwater samples quarterly using micro purge.
- ◆ Submits monthly remediation progress reports and semi-annual groundwater reports.

The Southwest Division Naval Facilities Engineering Command contracted EAR to operate, maintain and optimize bioventing/biosparging, biobarrier, soil vapor extraction (SVE), and light non aqueous phase liquid (LNAPL) total fluid recovery remediation systems (remediation systems) installed at four Underground Storage Tank (UST) sites (Sites 2459 and 2666, and 13 and 22 Areas) located at the Marine Corps Base (MCB) Camp Pendleton, California.

The systems at UST Sites 2459 and 2666 are designed to remediate petroleum hydrocarbon impacted soil and

groundwater using bioventing and biosparging, respectively. The systems were constructed such that a single packaged compressor unit delivers air into for bioventing and biosparging purposes. EAR conducts weekly operations and maintenance of the remediation systems, documents operating parameters, collects groundwater samples (micro purge) quarterly, performs semiannual respiration test, and submits remediation progress reports monthly and groundwater reports semi-annually.



UST Site 2459 Remediation System



UST Site 2666 Remediation System



13 Area SVE and LNAPL total fluids recovery systems

The remediation system at 13 Area Gas Station was designed to recover petroleum hydrocarbon impacted soil and groundwater using a SVE (catalytic oxidizer) and LNAPL total fluids recovery pump system (compressor, timer, seven pneumatic pumps, oil water separator, and 2,000 gallon free-product tank). EAR conducts weekly operations and maintenance of the remediation systems, documents operating parameters, collects weekly vapor samples, collects groundwater samples quarterly (micro purge), and submits remediation progress reports monthly and groundwater reports semi-annually.

EAR also operates two biobarrier remediation systems at the 22 Area Gas Stations. These two systems were designed to treat methyl tertiary butyl ether (MTBE) in groundwater and are composed of Allen Bradley Program Logic Controllers (PLC), compressors, oxygen generators, surge tanks, holding tanks, and 122 oxygen injection wells. EAR conducts weekly operations and maintenance of the remediation systems, documents operating parameters, collects groundwater samples quarterly (micro purge), and submits remediation progress reports monthly and groundwater reports semi-annually.



22 Area Leading-Edge Biobarrier Remediation System



22 Area Mid-Plume Biobarrier Remediation System

PROJECT EXAMPLE 2 – INSTALLATION AND OPERATION OF SOIL VAPOR RECOVERY AND GROUNDWATER TREATMENT SYSTEMS – CORONA, CALIFORNIA

Project Site: Former Smog Check, Corona, California

Client: Carlos Padilla

Contract Amount: \$287,000 (Clean-up Fund site)

Period of Performance: March 1989 through March 2006

PROJECT HIGHLIGHTS

- ◆ *Phase I ESAs*
- ◆ *Phase II Site Assessments and Remedial Investigations*
- ◆ *Soil Gas Surveys performed*
- ◆ *Soil Excavation and Vapor Extraction conducted*
- ◆ *Groundwater Treatment System installed*
- ◆ *Site Closure Report approved*

Mr. Carl Padilla contracted EAR to perform several Phase I ESAs of his properties throughout Riverside County, California. One of these properties was a former gasoline service station located in a commercial and residential area of Corona, California. A gasoline leak was discovered at the former Smog Check of Corona when four underground gasoline storage tanks were removed in March 1989. EAR developed the methodology for determining the extent of the contamination as well as the strategy for cleaning up the contamination. EAR conducted a soil gas survey, collected soil and water samples, and then installed and sampled groundwater monitoring wells to confirm the results of the soil gas survey and the sampling. In an effort to determine what was the most efficient

and cost effective method to remediate the soil and groundwater, EAR conducted feasibility studies, such as a vapor extraction test, and concluded that excavating the soil and installing a pump and treat system were the most cost effective methods of remediation. Soil was removed, and a groundwater treatment system was installed. Other remediation scenarios were considered but were postponed until further information could be obtained and project costs could be reduced. Efforts to remediate the groundwater were considered a success since only residual concentrations of gasoline remain at the property. EAR submitted the Site Closure Report and obtained approval from local regulatory agency.



Well Installation at Former Smog Check Site

3. EQUIPMENT RENTAL AND TECHNICAL SUPPORT SERVICES

Equipment Rentals

EAR offers SVE equipment rentals for short term remediation needs. Field Technicians and engineers are available to assist in troubleshooting, perform pilot study tests, and perform operation and maintenance. EAR has 18 SVE units varying from thermal and catalytic oxidizers to blower packages with two 1,000 pound activated carbon vessels and a high vacuum dual phase extraction unit. EAR's fleet of SVE units include Solleco, Thermtech, Baker Furnace, KIS, and Barneby Sutcliff systems. All EAR SVE units are trailer mounted and South Coast Air Quality Management District permitted.



All EAR SVEs are trailer mounted and ready to mobilize on site

Technical Engineers

EAR's Technical Engineers are available to manage projects, perform field sampling, prepare and review technical documents, and coordinate and procure subcontractors.

Technical Editing Services

EAR offers Technical Editing Services for reports and documents. EAR's Technical Editing staff can provide technical editing services for environmental reports and documents onsite or through electronic correspondence.

Sampling Technician Services

EAR offers sampling technician and sampling coordinator services. EAR's samplers are trained to perform groundwater sampling (including micro purge/low flow sampling), soil vapor sampling, and soil sampling.

Construction and General Labor Services

EAR also has staff available for construction and general labor needs. EAR's laborers are 40 hour HAZWOPPER certified and can perform a variety of tasks including piping, welding, masonry, demolition, and operating jack hammers and jumping jacks. Select EAR staff are certified fork lift operators and wheel loader drivers.