



**Engineering &
Environmental**
CONSTRUCTION

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REMEDIATION SYSTEMS INSTALLATION

CASE STUDY

PROJECT OVERVIEW

Project Name: Soil Vapor Extraction / Air Sparge System Installation

Location: Riverside CA

Job Type: Remediation System Installation

DESCRIPTION

Installing a 36-well Soil Vapor Extraction (SVE) System and 12-well Air Sparge (AS) System to optimize the clean-up of our client's high-profile project. This site required more than a standard remediation system installation – incorporating additional trenching, building rehabilitation, tank and pipe installations, crash barriers, parking lot resurfacing, and the excavation of VOC contaminated soils into the original scope.



MAIN TASKS

- SVE/AS systems installation
- Significant lengths of trenching and saw-cutting – through 12" thick, reinforced concrete
- Installation of 5,000ft of welded HDPE and 10,000ft of 2-12" PVC conveyance lines
- Rehabilitation of a 60' x 60' x 40' building to house the equipment including the installation of steel piping (carbon, stainless, and galvanized), all mechanical elements, and a PID room
- Equipment installation, including (2) 10,000lb carbon tanks, knock out pots, compressors, and receivers
- Generator refurbishment and relocation
- Mechanical and electrical work, including fiber optic runs and PLC system installation
- 30,000 square feet of asphalt paving and additional concrete forming / pouring
- Excavation and disposal of 1,000+ tons of contaminated soil



CHALLENGES

Cutting Through Reinforced Concrete – Initially, one of the biggest challenges was saw-cutting and the subsequent removal of a large quantity of 12” thick, heavily reinforced concrete.

Undocumented Utility Lines – While we were trenching and saw-cutting, we discovered multiple undocumented underground lines and utilities, as well as VOC contaminated soils. Our team was subsequently asked to perform exploratory excavations in various locations – resulting in the discovery and removal/capping of 30 lines. An additional 1,000 tons of VOC contaminated soil also required excavation and disposal.

Traffic Controls – This project was located in a high-traffic area, which required sitewide traffic control and notifications to ensure the safety of on-site staff and the surrounding community.

INTERESTING POINTS

The success of this high-profile installation – and our team’s ability to safely and efficiently implement solutions to unexpected circumstances – resulted in E&E being awarded the ongoing operations & maintenance contract for this system. This project also initiated the subsequent award of multiple high-visibility and high-value construction and remediation projects.

ABOUT E&E CONSTRUCTION

Engineering and Environmental Construction (E&E) was founded in 2006 with a primary focus on the installation of environmental remediation systems. Over the years, we’ve continually expanded our skill-sets to become one of the industry’s leading purveyors of full-service construction services – both within the environmental industry and in general construction. Today, we are proud to offer a wide range of highly specialized environmental engineering capabilities and a full-suite of general construction services to support our clients’ ever-evolving needs.



STATEMENT OF QUALIFICATIONS

Engineering and Environmental Construction, Inc (E&E) is a privately held corporation established in 2006. E&E’s main construction offices are based in Huntington Beach, CA. We are licensed to conduct operations throughout California, Arizona, Nevada, and Washington.

Contractor Licenses and Certifications Include (but aren’t limited to):

- Class A General Engineering License
- B General Building License
- C-10 Electrical License
- C-36 Plumbing License
- Hazardous Substances Removal License
- Annual OSHA Excavation & Trenching Certification
- Remedial Action Certification
- SCAQMD Rule 1166 – Various Locations Permit

E&E is recognized as an SBE with many entities, such as the DGS, and we are also pre-cleared by Homeland Security for access to ports and military installations. We maintain a Zero Incident Safety Record and a 0.78 Experience Modification Rate (EMR), among other H&S recognitions.

CONTACT US

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