



**Engineering &
Environmental**
CONSTRUCTION

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EXCAVATION OF CONTAMINATED SOIL

CASE STUDY

PROJECT OVERVIEW

Project Name: Soils Excavation and Remediation

Location: Port of Los Angeles – California

Job Type: Soils Excavation and Disposal

DESCRIPTION

Excavating, stockpiling, and loading 15,000 tons of lead-contaminated soil from the Port of Los Angeles, and backfilling the site, once the contaminated soils had been excavated. This complex project overcame significant challenges related to minimizing costs, maximizing safety, accommodating the close proximity of high voltage utility lines and high-traffic areas, and addressing significant weather conditions.



MAIN TASKS

- Excavate 15,000 tons of lead-contaminated soils
- Protect in place the high-tension footings of overhead power line pylons which were located at the center of the site
- Segregate and maintain stockpile soils based on the 3 levels of contamination present on the site
- Maintain all BMPs throughout the project
- Conduct constant inspections of the stockpiles' covers and anchors – ensuring the integrity of the dust control coverage
- Load contaminated soils for transportation and disposal while avoiding cross-contamination
- Create and implement strategic transportation plans to address safety concerns relating to the high-traffic nature of the site's ingress and egress
- Backfill entire excavated area with clean imported crushed rock and soils
- Complete a rough grade for the final area



CHALLENGES

Segregating Soils – This site contained three levels of contamination, so careful segregation and stockpiling was required. This maximized the efficiency of loading and minimized the cost of disposal – since all of the soil didn't carry the same hazardous material classification.

Utility Line Proximity – Special precautions were necessary for the excavation equipment and water cannons due to the close proximity of high voltage overhead cables and power line pylons.

Weather – Powerful winds created the need for reinforced contamination safeguards, including visqueen stockpile covers that were safely anchored by an augmented system of ropes and sandbags.

INTERESTING POINTS

Considerations and plans for this project extended beyond the confines of the immediate site. Since the ingress and egress to the area involved high-traffic streets and a major junction, plans were developed to address concerns related to traffic flow and safety. This included the effective deployment of flagmen, implementation of strict traffic control protocols, and a strategically chosen point of egress to maximize traffic visibility and minimize risk. To further protect the surrounding area, a two-stage decontamination area ensured containment on the site, and road sweepers were deployed to ensure any tracking was contained and remediated.

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.

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