

# LANDFILLS

## CASE STUDY

### PROJECT OVERVIEW

**Project Name:** Landfill System Upgrade

**Location:** Los Angeles CA

**Job Type:** Vapor Recovery System Installation

### DESCRIPTION

Conducting a major system upgrade on an EPA Superfund Site north of Los Angeles contain the toxic vapors and liquid waste that resulted from a former hazardous waste disposal facility. The Oil Landfill System Upgrade was a complex project that included the installation of landfill vapor recovery well heads, leachate pumping wells, and multiple HDPE and PVC lines – all while navigating extensive reporting and compliance requirements associated with Superfund Sites.



### MAIN TASKS

The installation of:

- Landfill vapor recovery well heads
- Multiple PVC lines and custom fittings to accommodate hillside angles, including 1,000ft of 24-inch PVC lines for vapor collection with 4-inch lateral lines connected to gas wells for Methane recovery
- Treatment components for a Leachate Pumping and Treatment System
- Multiple HDPE lines, including Dual Contained HDPE Leachate Conveyance Lines, HDPE Micro Turbine Lines, and HDPE Compressed Air Lines
- Large vaults that tied into existing double-contained leachate lines
- New well boots that tied into existing HDPE lines



## CHALLENGES

Multi-Party Coordination – By their very nature, EPA Superfund Site Projects are uniquely challenging because of the significant oversight and the hazardous nature of the materials. This involved the added complexity of being a multi-company project that required high levels of coordination, team work, and communication.

Active Lines with Hazardous Materials – The greatest direct challenge of this project involved tying into active leachate lines. At each stage of this process, including line flushing, the highest levels of precautions were maintained due to the toxic nature of the leachate. Additionally, the system needed to remain in working order on a daily basis, so our team needed to ensure limited downtime when performing all tie in tasks.

## INTERESTING POINTS

- The project required digging up portions of the old landfill and relocating the buried debris for a future development project.
- This resulted in unknown components of the project that required intense monitoring and teamwork to ensure compliance to the highest standards of Health & Safety.

## 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

Engineering & Environmental Construction, Inc.  
7071 Warner Ave., Suite F-404  
Huntington Beach CA 92647

Phone: 714 897 8705

Fax: 949 767 5868

Email: [info@eandeconstruction.com](mailto:info@eandeconstruction.com)

[www.eandeconstruction.com](http://www.eandeconstruction.com)

