



**Engineering &
Environmental**
CONSTRUCTION

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DECOMMISSIONING & DECONTAMINATION

CASE STUDY

PROJECT OVERVIEW

Project Name: Heat Treatment Facility
Decontamination and Decommissioning

Location: Santa Fe Springs, CA

Job Type: Decontamination, Decommissioning and
Demolition

DESCRIPTION

E&E was contracted to safely decontaminate and decommission an abandoned heat treatment and manufacturing site. The contract required the site, which spanned several acres, be cleared of all contaminants, all existing equipment, and any related structures in order to prepare the property for redevelopment.



MAIN TASKS

- Decontamination of surfaces and disposal of hazardous chemicals using Level B & C Personal Protective Equipment (PPE)
- Countless apparatus and process lines needed to be carefully removed, avoiding chemical reactions and clearing the way for the demolition of the main structures.
- Hot work and use of large excavators with shears inside buildings to deconstruct and demolish manufacturing equipment
- Safely remove a large quantity of solidified Sodium Nitrate
- Contain and dispose of thousands of gallons of hazardous rinsate
- Ensure concrete pad was free of equipment, and contamination.



CHALLENGES

The Unknowns – Many chemicals in use on the facility were unidentified when E&E mobilized. Extensive testing and continual monitoring activities were employed to ensure correct handling protocols were being followed at all times. Additionally, no site plans or as-builts were available during de-construction. Continual assessment of the structures was necessary. The ability to remain malleable was of paramount importance as E&E discovered new obstacles, situations, utilities and COC's.

INTERESTING POINTS

During the project, E&E discovered over 200 tons of solidified Sodium Nitrate. This was used in two large dip tanks as part of the heat treatment process. The cost of disposing of this material was extremely high and was immediately identified as a major financial burden to the client. E&E researched the material and also tested its purity, and it was surprisingly clean. After exhaustive research, E&E located a manufacturer in Illinois who could use the material. E&E arranged for the owner to fly into California where E&E subsequently negotiated a deal to load the material into supersacks and loaded them onto trucks provided by the Illinois purchaser. Consequently converting the waste to a product, and saving the client from a huge unexpected cost!

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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