

# PROJECT SNAPSHOT

## TCH Treatment of Creosote and SVOCs (PCP, PAHs and Dioxins) to 350°C at former Wood Treatment Facility

High Temp  
TCH

**Location:** Alhambra, California

**Client:** Southern California Edison

**Contamination:** Petrachlorophenol, PAHs, creosote, (wood) and dioxins

**Volume:** 16,200 cy

**Goal:** Achieve mass removal and <0.065 TDEQ

**Number of Heaters:** 785 (two phases)

**Duration:** 15.5 months of operation (both phases)

**Mass Removed:** 870,000 lbs.

## WHAT MAKES THIS PROJECT UNIQUE?

This is the largest high temperature ISTR project ever undertaken at a wood treatment site. The only alternative deemed capable of achieving the unrestricted land use goal was soil excavation followed by off-site incineration. The thermal solution was approximately 40% lower cost than the excavation/incineration alternative for this F-listed waste.

### Important Project Details

- **Approach:** TerraTherm installed 785 thermal wells, including 654 heater-only and 131 heater-vacuum wells at 7 ft spacing at the site. The target temperature to achieve destruction and removal of all COCs including dioxins was 335°C.
- **Challenges:** An extensive community involvement program was undertaken by Southern California Edison and TerraTherm, and in response to community concerns and additional contingencies were included in the system design, including redundant air treatment equipment, process blowers, stack testing events and longer operator hours.
- **Results:** Over the course of the project, TerraTherm reduced mean B(a)P-E and TDEQ concentrations in soil from 30.6 mg/kg and 0.018 mg/kg (pre-treatment) to 0.059 mg/kg and 0.00011 mg/kg (posttreatment), respectively; thereby meeting the remedial goals, and resulting in a No Further Action letter from the Department of Toxic Substances Control.



## CONTACT INFO

Jeff Brink  
720.940.4885  
jbrink@cascade-env.com  
www.terratherm.com



**TERRATHERM**  
a Cascade Company