

ESTD / E-13-01 — Angoulême, France

Pilot-scale Ex-Situ Thermal Desorption (ESTD) of soil contaminated with organochlorine pesticides (DDT, DDD, DDE) from a former insecticide manufacturing site.

SITE DESCRIPTION

Treated Volume	39 m³ of contaminated soil (pilot, 62.4 T)
Thermal technology	Ex-Situ Treatment (ESTD)
Main contaminant	DDT, DDD, DDE (organochlorine pesticides)
Max. concentration	1,233 mg/kg (average pilot concentration before treatment: 3,660 mg/kg sc)
Site challenges	Former insecticide manufacturing site (GEIGY company, active 1946-1949); pilot required to validate laboratory results before considering full-scale application
Project Timeline	2013

SOLUTION

Treatment Method	Ex-Situ thermal desorption pilot pile (39 m³ / 62.4 T)
Treatment program	7 heating tubes, target temperature 250°C
Schedule	Mobilisation: 7 days · Heating: 27 days · Sampling: 16 May 2013 · Demobilisation: 3 days
Contaminated Vapors Management	Not specified in source document

RESULTS

✓	39 m³ of contaminated soil treated (pilot scale)
✓	Residual concentration reduced below the 5 ppm target (5 mg/kg ms)
✓	Pilot results validated in partnership with OGD and BURGEAP, confirming feasibility ahead of full-scale application

Client: Angoulême (city) • Partner: OGD • Consultant: BURGEAP • Date: 2013

Reconstructed from internal reference sheet E-13-01-SNPE_FR_ANGOULEME_PILOT.pdf — Haemers Technologies (internal document, draft).