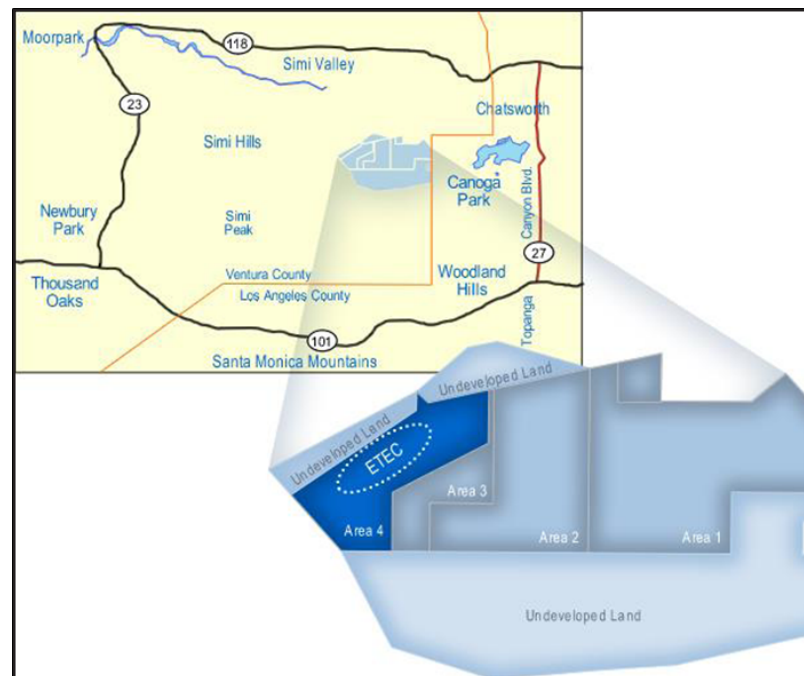




Background

- DOE activities within Area IV primarily involved liquid metals research and nuclear energy development, from the mid-1950's to the late 1980's.
- The United States Environmental Protection Agency's radiological soil investigation in the Area IV and Northern Buffer Zone was completed in 2012.
- The December 2010 Administrative Order on Consent for Remedial Action (AOC), signed by DTSC and DOE, require three phases of soil chemical investigation. This investigation was completed in 2014. The radionuclide and chemical results of these investigations are currently being used for cleanup planning.
- Chemical and radionuclide releases have occurred to soil and groundwater, and the AOC requires soil cleanup to local background or method detection limit, with the cleanup decision levels presented as DTSC-approved look up table values.



Santa Susana Field Laboratory – Area IV and Northern Buffer Zone



Progress Made

Soils characterization completed

3,600+ radionuclide samples

6,500+ chemical samples

100+ soil vapor samples

Results used for cleanup planning

Groundwater Source Investigations

Per the DTSC-approved Final RCRA Facility Investigation (RFI) groundwater work plan, significant field activities are currently in progress to complete groundwater investigation for portions of Area IV under DOE responsibility. Activities include installation of new shallow and deep monitoring wells, well rehabilitation, and sampling of groundwater monitoring wells and seeps and springs.

Soil Treatability Studies -Five Studies Completed and Reports Submitted*

1. Phytoremediation of Soil Contaminants
2. Natural Attenuation of Soil Contaminants
3. Partitioning of Soil Contaminants
4. Bioremediation of Soil Contaminants
5. Mercury in Soil Contaminants

Upcoming Submittals

Submittal of Soil Chemical Data Summary Report (mid 2016)

Cleanup planning: submittal of draft Soils Remedial Action Implementation Plan (late 2016)

DOE/DTSC Technical Documents

DTSC web site:

http://www.dtsc.ca.gov/SiteCleanup/Santa_Susana_Field_Lab/ssfl_document_library.cfm

- Go to “DOE Area IV,” then select topic of interest

DOE web site:

<http://www.etec.energy.gov/>

DTSC Contact

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*To see these documents on the DTSC-SSFL web site, please go to “[Document Library](#)”, then “[Department of Energy \(DOE\) Area IV](#)”, then “[Soil Treatability Studies](#)”