



Santa Susana Field Laboratory Area IV

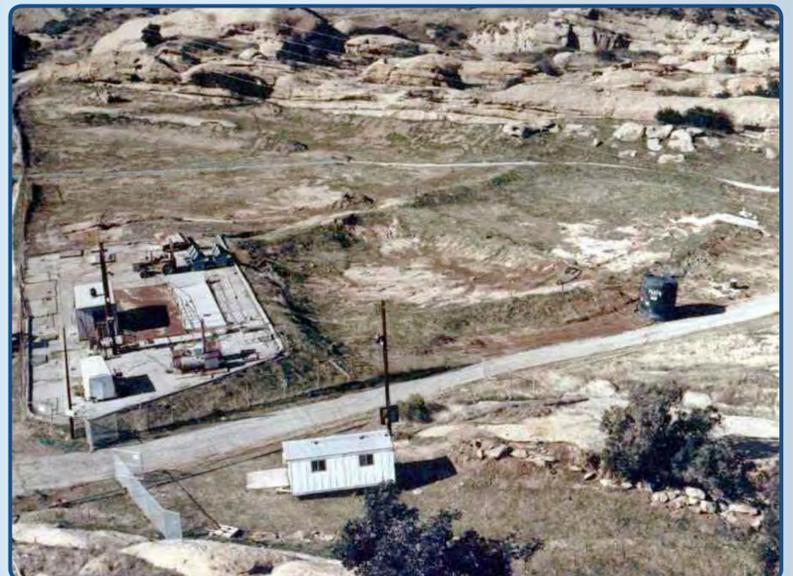
What governs SSFL groundwater cleanup? 2007 Consent Order

Two prongs of groundwater studies

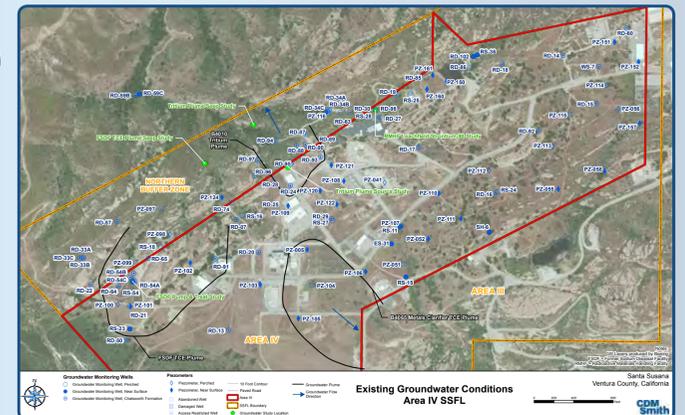
1. USEPA completed sampling for radioactive materials in groundwater in 2011
2. DOE's groundwater investigation for chemicals focuses on three areas:

▶ Former Sodium Disposal Facility

- DOE plans a Groundwater Interim Measures pump test to assess the ability to remove TCE from groundwater and associated bedrock using conventional pumping and treatment technologies.
- DOE is also working with NASA and Boeing on a thermal treatment study to assess feasibility of using heat to remove TCE from contaminated bedrock cores.
- DOE and University of Guelph are installing groundwater seep monitoring wells in the Northern Buffer Zone to assess extent of TCE plume.



Groundwater Focused Study Areas within Area IV



▶ Tritium plume

To complete definition of tritium plume, DOE and University of Guelph are:

- Installing groundwater seep monitoring wells in the Northern Buffer Zone
- Collecting additional core samples at the source location



PHOTO: University of Guelph G360 Centre for Applied Groundwater Research

▶ Radioactive Materials Handling Facility leachfield

University of Guelph will sample bedrock core at leachfield location:

- To identify extent of Strontium-90 contamination
- To assess current levels of TCE in bedrock



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