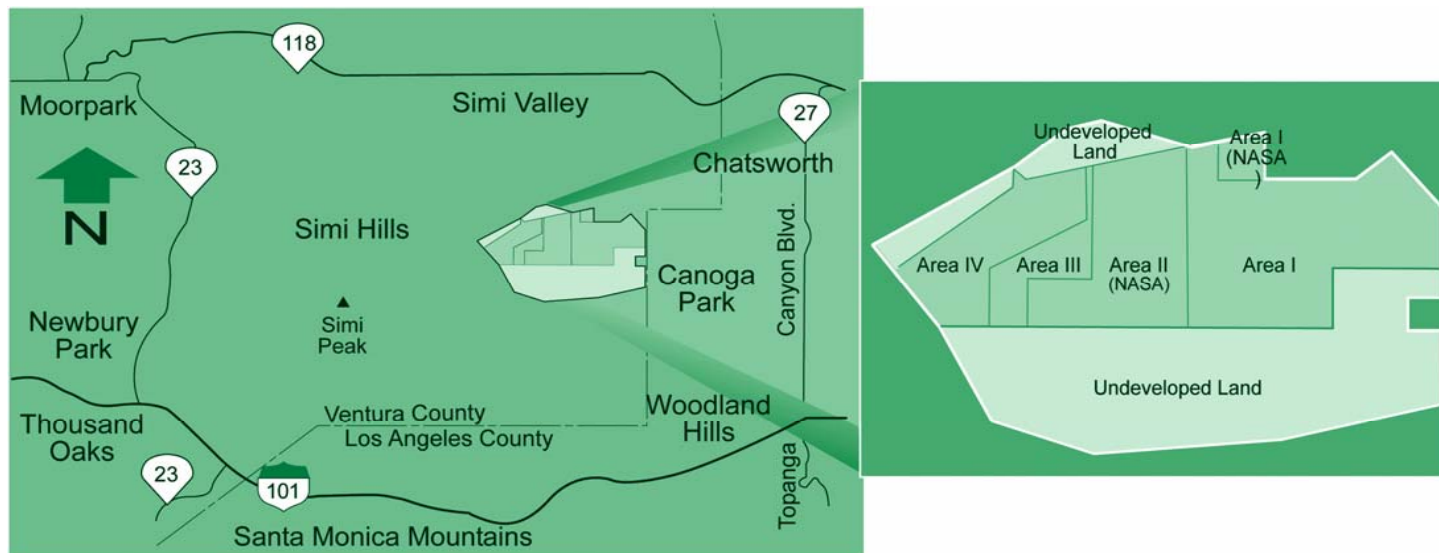


Area IV Santa Susana Field Laboratory Environmental Impact Statement (EIS)



Pre-Solicitation Conference
and Site Visit

16 August 2007



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Agenda

- 0830 – 0845 Introduction and Administrative
(Thomas Johnson – Deputy Federal Project Director)
- 0845 – 0915 Opening Remarks – Project Overview
(Thomas Johnson – Deputy Federal Project Director)
- History Current Activities
 - EA/FONSI Area IV EIS
- 0915 – 0945 EIS Project Details
(Stephanie Jennings – Document Manager/COR)
- Public Involvement Pre-scoping Activities
 - Project Schedule
- 0945 – 1000 Acquisition Process and Questions/Answers
(David Hincks – Contracting Officer)
- 1015 – 1215 Site Tour (Bus transportation provided)
- 1830 – 2200 SSFL Working Group Meeting



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Opening Remarks

Project Overview

Thomas Johnson
Deputy Federal Project Director



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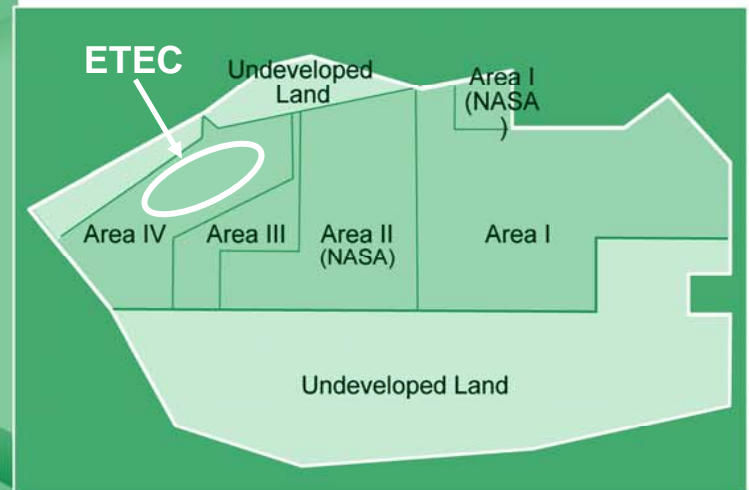
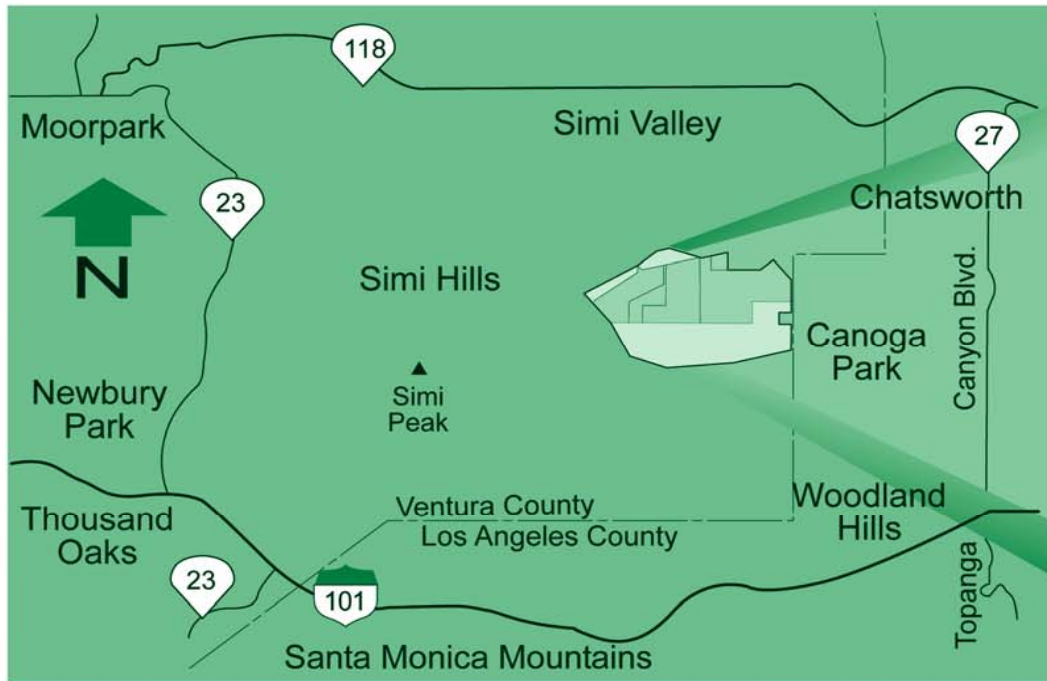
An aerial photograph of the San Fernando Valley in California. The image shows a vast, hilly landscape with green vegetation and rocky outcrops. In the background, a city is visible, and further back, a range of mountains with snow-capped peaks stretches across the horizon under a clear blue sky. The text 'San Fernando Valley' is centered in the upper portion of the image. In the middle ground, a small town or industrial site is labeled 'Santa Susana'. In the lower-left foreground, two white arrows point towards a valley, with the text 'Simi Valley' positioned above them.

San Fernando Valley

Santa Susana

Simi Valley

Santa Susana Field Laboratory (SSFL)



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SSFL Landownership

- Boeing owns the majority portion of the 2,849-acre property
 - Areas I (671 acres)
 - Area III (114 acres)
 - Area IV (290 acres)
 - Buffer Zones (182 acres to the north and 1143 acres to the south)
- Area II (404 acres) and a part of Area I (42 acres) are owned by NASA. Although NASA owns portions of the SSFL, the site has been continually operated by Boeing and its predecessor companies.
- Historically, the DOE leased a 90-acre portion of Area IV {Energy Technology Engineering Center (ETEC)} for government sponsored activities

Two Primary Functions at SSFL

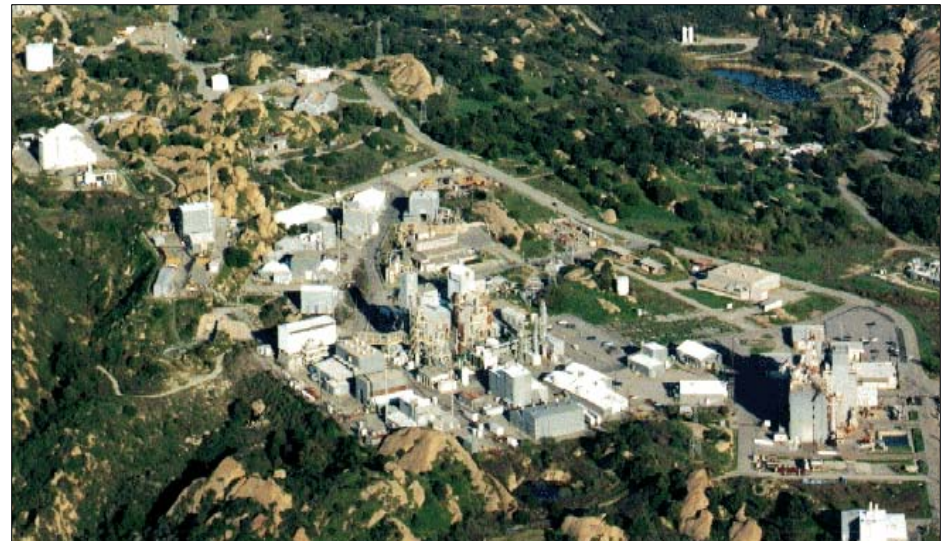


Rocket Engine Testing for NASA/Boeing

- Six Test Stands – 17,000 Rocket Engine & Component Tests (2 Boeing, 4 NASA)
- Last test March 3, 2006
- Active Operations are limited to Laser Research

Nuclear Research & Liquid Metal Research for DOE

- Ten reactors
- Sodium component test facilities
- Last nuclear program 1988



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Energy Technology Engineering Center (ETEC)

- The Atomic Energy Commission (AEC), a predecessor agency of DOE, funded nuclear energy development in Area IV starting in the mid-1950s.
- ETEC was established in the early 1960s by the AEC, as a center of excellence for liquid metals technology
- The ETEC is located within Area IV of the Santa Susana Field Laboratory and occupies 90 acres
- Research conducted at ETEC mostly involved the development and testing of components used in liquid sodium systems

Area IV Remediation

- DOE is committed to successfully remediating Area IV
- The DOE responsibility includes meeting the conditions of the RCRA permit closures and completion of correction action for soils and groundwater
- Federal and State regulators, State and local governments, natural resources trustees, the general public, and other interested parties have questions and concerns about the cleanup progress and environmental conditions at Area IV

Radiological Facilities D&D

FACILITY NUMBER	FACILITY TITLE	ROCKETDYNE OPERATIONS	VERIFICATION SURVEYS	EPA INSPECTION	OWNER	RELEASED BY	RELEASE DATE	BUILDING DEMOLITION DATE
OCY	Old Conservation Yard	D&D and survey complete	ORISE, DHS	-	Boeing	DHS	1995	Land Only
RMHF	Radioactive Materials Handling Facility	Inactive	-	-	DOE	-	pending EIS outcome	pending EIS outcome
003	Engineering Test Building	D&D and survey complete	ANL	-	Boeing	DOE	1985	1999
005	Uranium Carbide Fuel Facility	D&D and survey complete	ORISE, DHS	-	Boeing	DHS	1995	1996
009	Organic Moderated Reactor, Sodium Graphite Reactor	D&D and survey complete	DHS	-	Boeing	DHS	1999	Not Planned
011	Radiation Instrument Calibration Laboratory	Survey complete	DHS	EPA Oct 2001	Boeing	DHS	1998	Not Planned
010	SNAP-8 Experimental Reactor	D&D and survey complete	ANL	-	DOE	DOE	1982	1983
012	SNAP Critical Facility	D&D and survey complete	ORISE, DHS	EPA Jan 2000	DOE	DOE, DHS	1997	2003
17th St.	17th St. Drainage Area	D&D and survey complete	ORISE, DHS	-	Boeing	DHS, DOE	2004-2005	Land Only
019	Flight System Critical Assembly	D&D and survey complete	ORISE, DHS	EPA Oct 2001	DOE transferred to Boeing	DOE	2005	Not Planned
020	Hot Lab Bldg.	D&D and survey complete	DHS	-	DOE	DHS (concrete)	1997-1999	1997-99
020	Hot Lab Land	Survey complete	ORISE, DHS	-	DOE	DOE	2005	Land Only
023	Corrosion Test Loop	D&D and survey complete	ORISE, DHS	-	DOE	DOE, DHS	1997	1999
024	SNAP Environmental Test Facility	Inactive	-	-	DOE	-	pending EIS outcome	pending EIS outcome



Radiological Facilities D&D

FACILITY NUMBER	FACILITY TITLE	ROCKETDYNE OPERATIONS	VERIFICATION SURVEYS	EPA INSPECTION	OWNER	RELEASED BY	RELEASE DATE	BUILDING DEMOLITION DATE
029	Radiation Measurement Facility	D&D and survey complete	ORISE, DHS	EPA Jan 2000	DOE	DOE, DHS	1997	pending EIS outcome
030	van de Graaf Accelerator	D&D and survey complete	ORISE, DHS	-	DOE	DOE, DHS	1997	1999
055	Nuclear Materials Development Facility	D&D and survey complete	ORAU	EPA Oct 2001	Boeing	NRC	1987	Not Planned
059	SNAP Ground Prototype Test Building	Phase I D&D and survey complete	ORISE, DHS	EPA Oct/Dec 2000	DOE	DOE	2003	2003-4
059	059 Land	Phase II and Land	ORISE, DHS	-	DOE	-	pending EIS outcome	Land Only
064	Fuel Storage Facility	D&D and survey complete	ORISE, DHS	-	DOE	DOE, DHS	1996	1997
064SY	064 Side Yard and land	D&D and survey complete	ORISE, DHS	-	DOE	DOE	2005	Land Only
073	Kinetic Experiment Water Boiler	D&D and survey complete	ANL	-	ERDA	ERDA	1976	1976
093	L-85 Reactor	D&D and survey complete	ORAU	-	Boeing	NRC	1987	1995
100	Fast Critical Experiment Laboratory	D&D and survey complete	NRC	EPA Oct 2001	Boeing	NRC	1980	Not Planned
143	Sodium Reactor Experiment	D&D and survey complete	ANL	-	Boeing	DOE	1985	1999
363	R&D Laboratory	D&D and survey complete	ORISE, DHS	EPA Jan 2000	Boeing	DHS	1998	2001
373	SNAP Critical Facility	D&D and survey complete	DHS (doc. review only)	-	Boeing	DHS	1995	1996-99
654	Interim Storage Facility	D&D and survey complete	ORISE, DHS	-	DOE	DOE	2005	Land Only
886	Sodium Disposal Facility	Rad. D&D and survey complete	DHS	-	Boeing	DHS	1998 (Land)	1991(Bldg)



Sodium Facilities D&D

Facility Number	Facility Title	Use	Owner	Building Demolition Date
462	SPTF	Pump Testing	DOE	Pending EIS outcome
463	CHCF	Cleaning & Handling	DOE	Pending EIS outcome
355	SCTI	Steam Generator Testing	DOE	2003
026	SCTL	Component Testing	DOE	2003
032	LMDL-1	Component Testing	DOE	2002
057	LMDL-2	Component Testing	DOE	1999
059	LLTR	Sodium-Water Reaction Tests	DOE	2004
013	TTF	Thermal Transient Testing	DOE	2003
133/029	HWMF	Sodium Component Processing	DOE	Pending EIS outcome



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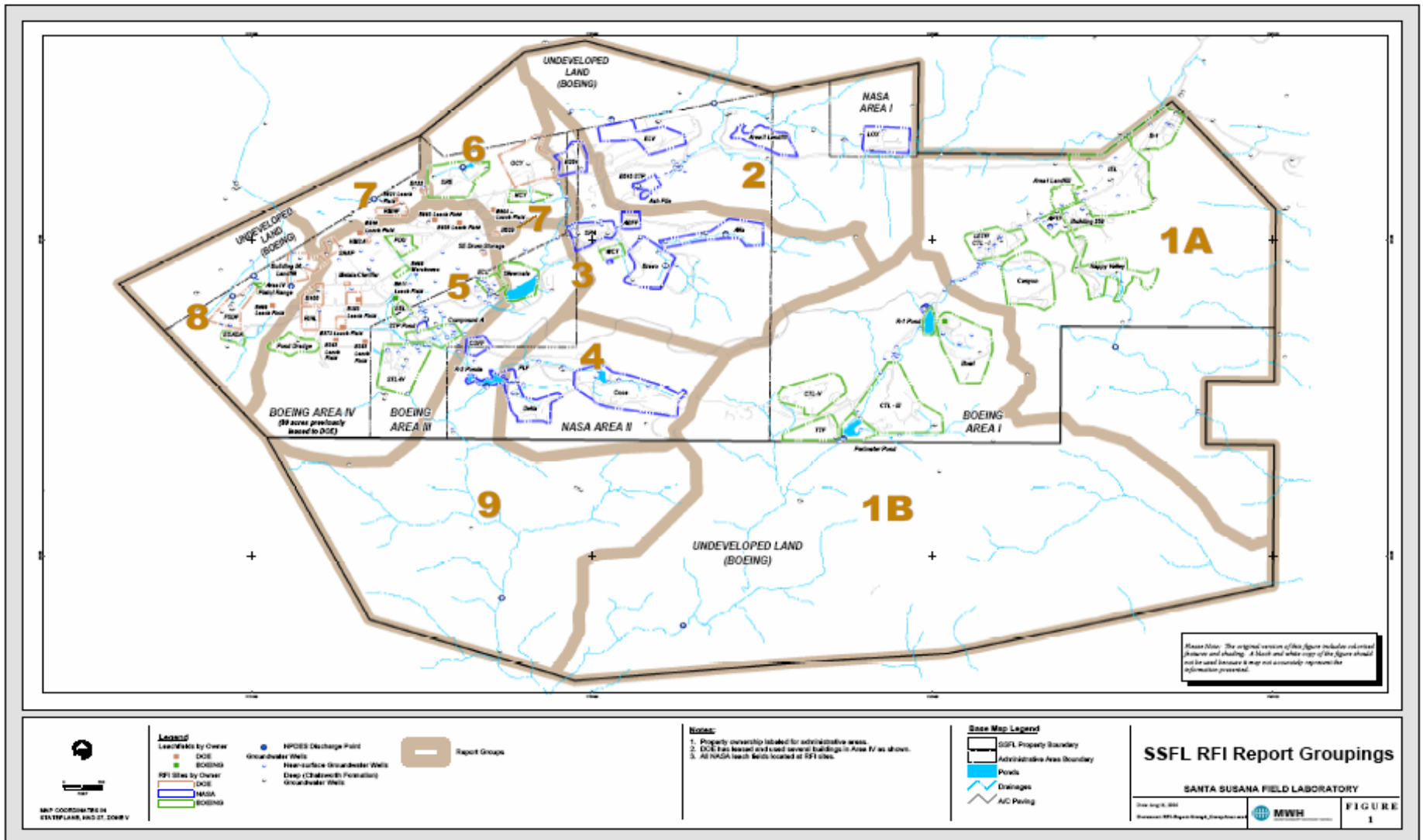
Other Facilities D&D

Facility Number	Facility Title	Use	Owner	Building Demolition Date
483	Trailer	Pump Testing	DOE	2002
484	Trailer	Cleaning & Handling	DOE	2002
485	Trailer	Steam Generator Testing	DOE	2002
486	Trailer	Component Testing	DOE	2002
356	Support Building	Office	DOE	2003
357	Support Building	Support	DOE	2003
358	Support Building	Support	DOE	2003
359	Support Building	Support	DOE	2003
626	SNAP	Storage	DOE	2003
036	SNAP	Office	DOE	2002
037	SNAP	Office	DOE	2002
039	SNAP	Office	DOE	2003

Remaining Area IV Closure Activities

- Completion of Environmental Impact Statement (EIS) for Area IV
- D&D of four DOE facilities and associated contaminated soils within building footprint
 - Hazardous Waste Management Facility (HWMF) using RCRA Closure Plan
 - Sodium Pump Test Facility (SPTF) using AEA authority
 - Radioactive Materials Handling Facility (RMHF) using EE/CA and RCRA Closure Plan
 - SNAP Environmental Test Facility (Bldg. 4024) using EE/CA
- Complete RCRA Corrective Action process for all DOE Solid Waste Management Units and Groundwater

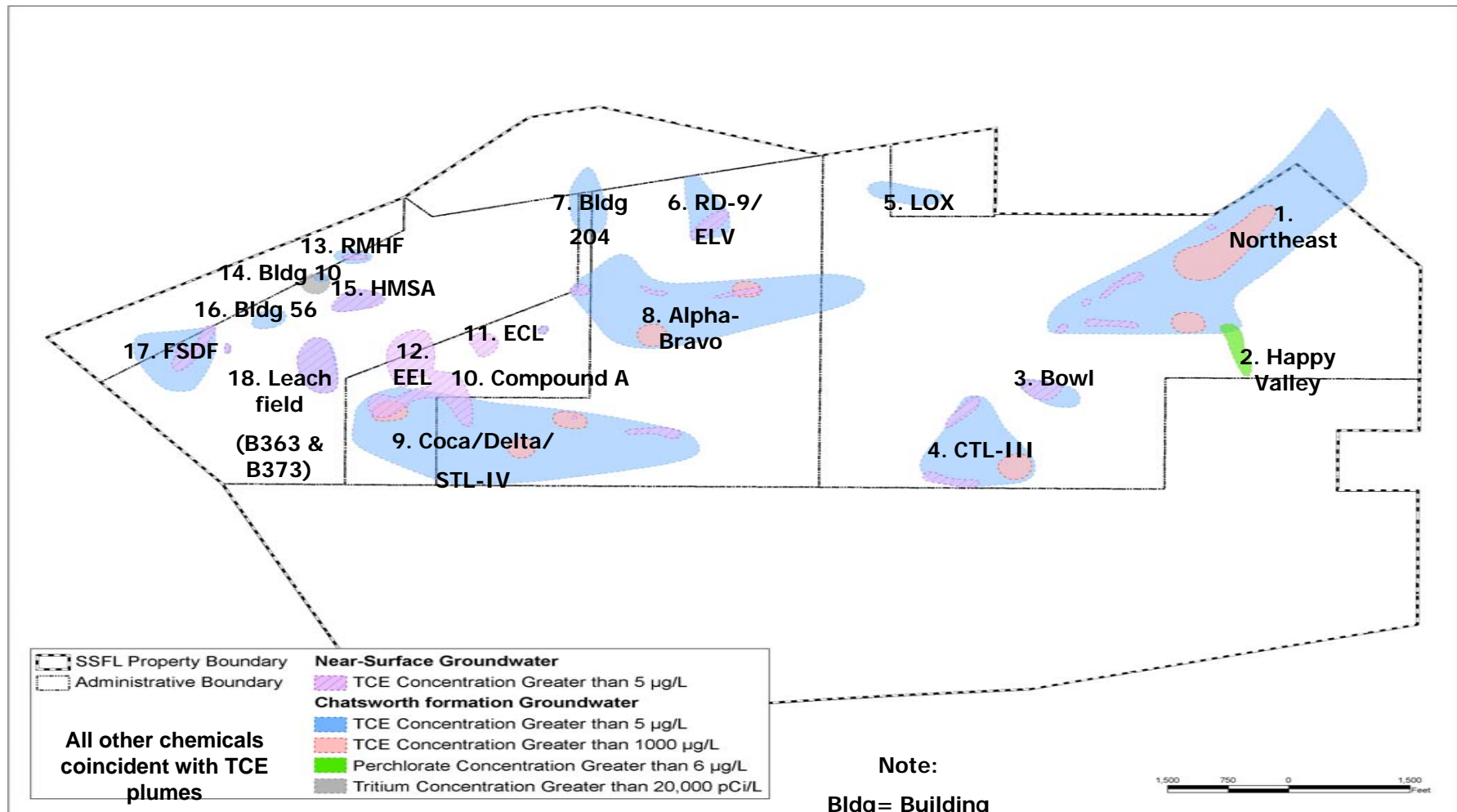
SSFL RFI Report Groupings



DOE Solid Waste Management Units (SWMUs)

- Group 6: Old Conservation Yard and B/4064 Leach Field
- Group 8: Former Sodium Disposal Facility, B/4056 Landfill, B/4009 Leach Field
- Group 5: B/4059 and surrounding area, B/4065 Metals clarifier, B/4100 Trench, B/4020 Hot Lab, Hazardous Materials Storage Areas, Combined Leach Fields (4010, 4030, 4093, 4353, 4363, 4373, 4383)
- Group 7: RMHF, B/4021 Leach Field, B/4029 Reactive Material Storage Yard, B/4133 HWMF
- Group 9: Silvernale Reservoir Upgradient Sites

SSFL GROUNDWATER PLUMES



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Regulatory Oversight

Local

Ventura County Air Pollution Control District

Ventura County Health Department

Los Angeles County Fire

Los Angeles City Fire

Ventura County Fire

State

Department of Toxic Substances Control

Department of Health Services

- Radiologic Branch
- Environmental Branch

CAL/Occupational Safety & Health Administration

Regional Water Quality Control Board

Federal

U.S. Environmental Protection Agency



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Prior ETEC NEPA Analysis

- Cleanup activities prior to 2003 were performed under NEPA utilizing categorical exclusions
- DOE issued an Environmental Assessment (EA) and corresponding Finding of No Significant Impact (FONSI) in March 2003
 - Preferred Alternative was identified as cleanup using 15 mrem/yr standard plus ALARA for facility decontamination and decommissioning
 - All radioactive, mixed, hazardous, and non-hazardous waste would be transported offsite to approved facilities

EA and FONSI Challenged

- Plaintiffs alleged that:
 - DOE violated NEPA; Endangered Species Act; and, Comprehensive Environmental Response, Compensation, and Liability Act
 - Should have considered a wider range of alternatives
 - Cumulative effects of all contaminants (radiological and chemical) in all media (soil and groundwater)
 - Potential effects on surrounding communities
- Regulators (State and EPA)
 - Methodology used to obtain data (instrumentation type, number and capability; grid distances; exclusion of 25% of Area IV from characterization, etc.)
 - Failed to address past releases and their resultant cleanup
 - Failed to address effects of both radiological and chemical exposure
 - Failed to address radiological contamination in groundwater
 - Not using CERCLA risk-based calculations and remediating to 10^{-6} vs. using dose-based calculations (15 mrem/yr)



Regulatory Environment

- State Department of Toxic Substance Control
 - Issued Consent Order under RCRA for the investigation and remediation of soil and groundwater units
- US EPA
 - Conducting a Preliminary Assessment/Site Inspection of the Santa Susana Field Laboratory including Area IV for potential listing on the National Priorities List
 - Results expected by end of 2007 or early spring 2008

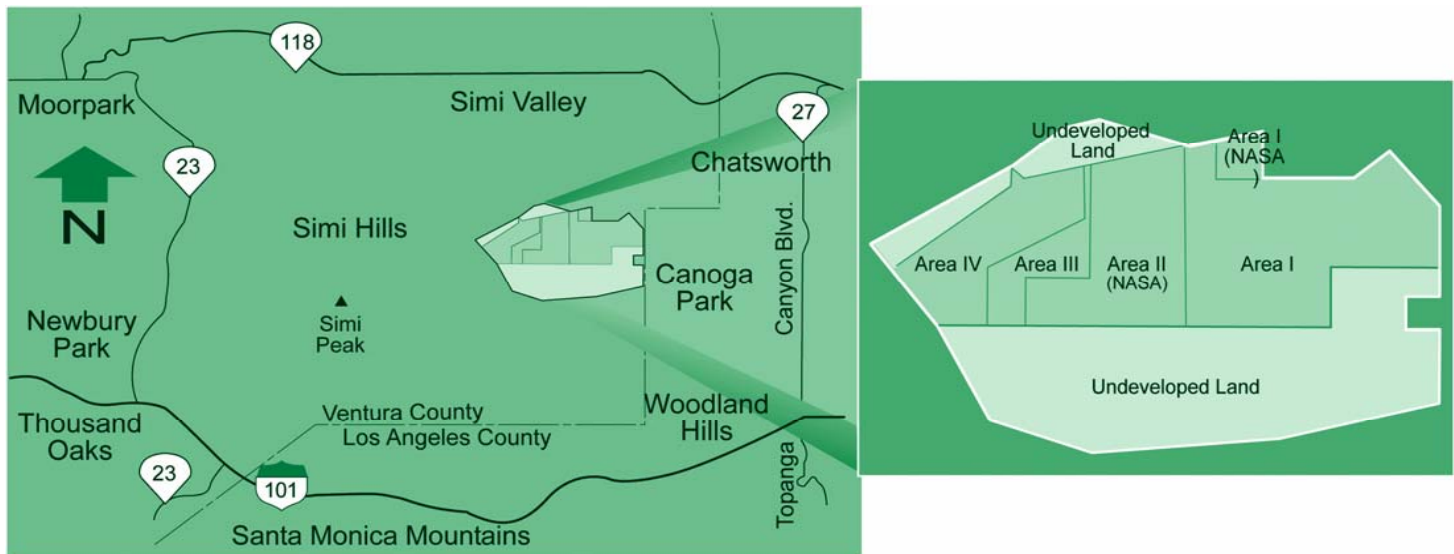
Additional Information

- Historical Information on the various facilities is available on the ETEC website
 - <http://apps.em.doe.gov/etec>
- EIS specific information is available on the following website
 - http://www.emcbc.doe.gov/ETEC_EIS
- DOE NEPA specific information and guidance
 - <http://www.eh.doe.gov/nepa/>

DOE Commitments

- Prepare an EIS for Area IV of SSFL including ETEC
- Issue an Advance Notice of Intent to prepare EIS
- Coordinate with Federal and State regulators, State and local governments, natural resources trustees, the general public, and other interested parties who have questions and concerns about the cleanup progress and environmental conditions at Area IV

Area IV Santa Susana Field Laboratory EIS Details



Stephie Jennings
NEPA Document Manager
U.S. Department of Energy
Office of Environmental Management

Issues/Concerns for Area IV EIS

- EIS needs to consider and evaluate wide range of alternatives that consider:
 - Appropriate action levels
 - Potential cumulative effects on and off-site
 - Soil and groundwater contamination
 - Chemical and radiological contamination
- Potential future land use
- Previous sampling and analysis methods questioned by plaintiffs, stakeholders, and regulators

Public Participation

- Critical to have early active community involvement
- DOE has a Public Participation Policy to actively seek, consider and incorporate the views of its stakeholders
- Key component of EIS must be early, often, and comprehensive approach to public participation
- High level of stakeholder/ public, regulator, and congressional interest in EIS process and outcome

Pre-scoping Activities

- Develop stakeholder/ public, regulator, and interested party participation plan for approach to EIS:
 - Emphasize early stakeholder/public participation
 - Involve all interested parties in commenting on the EIS scope
 - Determine effective process for scoping
 - Potential additional characterization will occur following completion of gap analysis. Gap Analysis will be created utilizing stakeholder input.
- Advance Notice of Intent being prepared to announce pending EIS and receive early public comment and involvement in EIS process

Pre-Scoping Phase

- July-December 2007
 - Prepare and publish in Federal Register Advance Notice of Intent to conduct EIS
 - Solicit comments on how to conduct pre-scoping activities
 - Conduct pre-scoping stakeholder participation including interviews and meetings to receive input for sampling and analysis plans, scoping format and process, and nature and preliminary scope of EIS
 - Conduct gap analysis with stakeholder input to develop data quality objectives and potential need for additional sampling

Scoping and Screening Phase

- January-February 2008
 - Prepare and publish Notice of Intent
 - Conduct scoping meetings
 - Continue interactive public participation
 - Develop and publish scoping report and plan for EIS

- March-August 2008
 - Conduct additional sampling and analysis

Draft EIS

- September 2008 through February 2009
 - Develop Draft EIS
 - Purpose and need for action
 - Affected environment
 - Environmental consequences of alternatives
 - Alternative comparison
 - Mitigation measures
- February through June 2009
 - Public Process
 - Notice of Availability
 - Public hearings
 - Public comment period



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Final EIS and ROD

- June-August 2009
 - Prepare final EIS
 - Prepare responses to public comment
 - Notice of Availability of Final EIS
- August through September 2009
 - Prepare Record of Decision
 - Approval process Record of Decision
 - Public notice



DOE Commitments

- Prepare an EIS for Area IV of SSFL including ETEC
- Issue an Advance Notice of Intent to prepare EIS
- Coordinate with Federal and State regulators, State and local governments, natural resources trustees, the general public, and other interested parties who have questions and concerns about the cleanup progress and environmental conditions at Area IV

Acquisition Process

David Hincks
Contracting Officer



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Acquisition Process

- Schedule
 - Sep 07 -- Issue RTP
 - Oct 07 -- Proposals Due
 - Nov 07 -- Award
- Proposal Volumes
 - Technical and Management
 - Cost
 - Past Performance

Acquisition Process (cont.)

- Website: www.emcbc.doe.gov/ETEC_EIS
 - RTP, Reference Docs, Q&A
 - Subcontracting POCs
 - Password protection (select documents)
- Communicate through the Contracting Officer
- Written Questions

Scheduled Activities

- 1015 – 1215 Site Tour
- 1830 – 2200 SSFL Working Group Meeting

Thank you for attending!