



Department of Toxic Substances Control



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SANTA SUSANA FIELD LABORATORY STATUS REPORT JUNE 2011

The purpose of this update is to inform the community of Santa Susan Field Laboratory (SSFL) activities that have occurred from May 21, 2011 through June 24, 2011 and activities that are expected to occur in the next 30 days.

Activities Completed:

Soil Investigations:

Area IV Co-located sampling efforts:

DTSC and DOE presented a brief update on chemical co-located sampling activities at DTSC's June 1, 2011 technical round table meeting held at DTSC's Chatsworth office

Field work for the co-located sampling for chemical analysis with the US EPA radiological sampling locations continued in Area IV.

- HSA-5C
 - All field work completed
 - All chemical analytical data received and 97% of analytical data have been validated
- HSA-5B
 - All field work completed
 - All chemical analytical data received and are being validated
- HSA-5A
 - All field work completed
 - 85% of the chemical analytical data received
- HSA-8N
 - All field work completed
 - 50% of the chemical analytical data received
- HSA-8N
 - On June 16, 2011, DTSC approved DOE's submittal "Revised Addendum No. 3 to the Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV, EPA Subarea 8N Soil Sampling

(Revised 8 North Addendum, CDM Federal Programs Corporation, June 2011)" for the Santa Susana Field Laboratory (SSFL). The Revised 8 North Addendum includes changes that address soil vapor probe installation and additional associated soil sampling.

- On June 22, 2011, DOE and DTSC hosted a general public site visit to observe installation of soil vapor probes in HSA Subarea 8 North.
- HSA-5D North
 - All surface sampling completed
 - 50% of soil borings completed
 - 50% of the chemical analytical data received

Group 1B & Group 9 RFI Reports:

- DTSC received public comments on the Group 1B and Group 9 RFI reports. The comments will be considered and included, as appropriate, with DTSC comments on the RFI reports.

Rural Residential Risk Based Screening Level Development:

- As part of DTSC's review of risk assessment processes applicable to portions of SSFL previously operated by Boeing Corporation, DTSC is working to resolve the final issues concerning Boeing's proposed Comprehensive List of Chemicals and Logic Flowchart for inclusion/exclusion of chemicals on the list. Once resolved, Boeing's consultants can complete calculation of rural residential soil Risk-Based Screening Levels (RBSLs). Outstanding issues are or have been:
 - DTSC is reviewing responses to DTSC's questions regarding the inclusion/exclusion of chemicals on the Comprehensive List of Chemicals and Logic Flowchart.
 - DTSC is working with Boeing's consultants regarding appropriate surrogate toxicity values and agricultural animal uptake factors for chemical of potential concern that lacking this information.
 - DTSC provided Boeing's consultants risk assessment exposure parameters to ensure compliance with SB990 (i.e., Exposure Duration of 40 years for the rural resident, as well as default values for particulate and subsurface volatile organic compound vapor dispersion into ambient air.) Per SB990, the parameters coincide with those listed in the User's Guide for EPA radioisotope preliminary remediation goals (RAD PRGs). DTSC has concluded that risk assessment exposure parameters used to calculate RBSLs now comply with SB990.

Groundwater Investigations:

Data Gap SAP

- DTSC met with Boeing and NASA representatives at SSFL on June 13 to resolve DTSC's Data Gap SAP conditions and conduct site visits to the proposed well and trench locations;
- **Boeing locations:**
 - Happy Valley fault characterization well location tentatively identified, and trenching locations identified. Rock core samples will be collected.
 - CTL-V source zone well location tentatively identified.
 - Area I Burn Pit source zone well location identified.
- **NASA locations:**
 - Coca source zone not accessible due to hydrogen purge. Site visit rescheduled for either 6/27 or 6/28.
 - WS-9A replacement extraction well tentative location will be verified after further results of a hydraulic connectivity study currently underway and the results of local geologic mapping.
 - Burro Flats Fault trenching locations tentatively identified. Additional trenching may be undertaken based on the results of the hydraulic study and local geologic mapping.
- **DOE locations**
 - SRE source zone well pair location identified in the footprint of the former pond.
 - Trenching locations in the FSDF Structure area identified.

- Boeing will conduct temperature profiling in C-8.

Chemical Background Study:

- On June 1, 2011, DTSC hosted a technical round-table meeting with Stakeholders to present and discuss results of the laboratory-evaluation process and recommendations for the background study's primary and secondary candidate labs. The meeting also served as the end of the public-review-and-comment period for the chemical background
 - sample locations addendum,
 - laboratory-evaluation technical memorandum, and
 - revised Quality Assurance Project Plan.
- Following the June 1 meeting, DTSC received comments (via e-mail and regular mail) on these draft documents from several community members plus the Responsible Parties as represented by Boeing.
- On June 8, 2011, DTSC hosted a mandatory pre-field meeting with community members interested in participating in the sampling activities. Community members received a health & safety briefing, logistics information, signed liability waivers, and selected days to attend the sampling events.

Feasibility Study: *No New Updates*

Building Demolition:

- Demolition activities continued in Group 1A, at the former Canyon Test Area, and in Group 1B at CTL V.

Interim Source Removal Actions:

- DTSC participated in weekly project calls involving review and approval of soil confirmation sampling plans and sampling results from ongoing soil excavation activity occurring at IEL-2 soil excavation area. The purpose of the IEL-2 excavation is to address elevated cadmium, lead, and mercury in soil. The IEL-2 excavation was completed during the last week of May. Excavation back filling and site grading was completed in the first week of June.

Permits: *No New Updates*

Public Outreach:

- The DTSC SSFL website calendar continues to be updated on a regular basis with meeting information. Please refer to www.dtsc-ssfl.com
- Developing a plan to address repository space issues. LA County libraries and the DTSC file room are running out of space for additional hard-copy files.

Activities Proposed for the Next 30 Days:

Soil Investigations:

Area IV Co-located sampling efforts

- HSA-5D North
 - Continue co-located sampling for chemical analysis with the US EPA radiological sampling locations.

Group 1B and Group 9 RFI Reports:

- Public comments submitted to DTSC on the RFI reports will be considered and included, as appropriate, with DTSC comments on the RFI reports.
- DTSC anticipates holding a technical roundtable meeting on these two RFI reports during the latter part of July (date TBD). The consultants that developed the documents will provide a summary of the RFI reports and DTSC will summarize our comments during the roundtable and allow for discussion on each report. Additional sampling is needed for the sites within each of these Groups.

Group 5 RFI_Human Health Risk Assessment:

- DTSC anticipates submitting comments on the human health risk assessment (HHRA) for the Group 5 Building 65 Metals Lab Clarifier, dated November 2008. This HHRA was constructed based on potential exposures to the Suburban Residential Receptor and the Recreational Receptor as discussed in DTSC's Standardized Risk Assessment Methodology, version 2 (SRAM-2). Major issues remaining to be resolved in the HHRA's include the appropriate method to evaluate indoor air health risks associated with diffusion of VOCs from subsurface soils and groundwater, and whether direct exposure to contaminants in groundwater through its beneficial use should be included, as recommended in SRAM-2.

Groundwater Investigations:

- A 60-day public comment period will be held for the Site wide Groundwater Remedial Investigation Report. The comment period will end on August 31, 2011. DTSC will host a public meeting on
- DTSC will host a public meeting on August 11, 2011. A fact sheet containing more details will be distributed to community members July 1, 2011. A public notice announcing the meeting and comment period will be published on June 30, 2011 in the Simi Valley Acorn, Ventura County Star and the LA Daily News. It will also be distributed via DTSC's SSFL e-mail blast.

Chemical Background Study:

- DTSC will finalize the Chemical Background Study Sampling and Analysis Plan (SAP) and post it to the SSFL website.
- DTSC will finalize the "locations addendum" to the SAP documenting the study's proposed sample locations.
- DTSC expects chemical background sampling to begin in July and continue into August.

Feasibility Study: No New Updates

Treatability Study:

- Boeing will provide responses to DTSC comments and additional testing information.

Building Demolition:

- Boeing anticipates completion of the demolition of CTL-V in Group 1B and will begin installing CTL-V post-demolition erosion control measures.
- Demolition activities (Boeing) will continue at the Canyon Test Area in Group 1A
- Demolition activities (Boeing) are expected to begin at CTL-III in Group 1B.

Interim Source Removal Actions:

- Boeing will begin field activities for ISRA Phase III planned excavation at Ash Pile/ Sewage Treatment Plant Area (AP/STP1) areas; AP/STP-1B, AP/STP-1C1, AP/STP-1C2, AP/STP-1E1, AP/STP-1E2, and AP/STP-1E3. Anticipated field activities include vegetation clearance, utility clearance, field mobilization, install construction BMPs at 2011 ISRA areas on NASA property (Jun 20-24), and pre-field work site walk with RWQCB on June 24, and initiation of planned excavations at 2011 ISRA areas on NASA property on June 27. DTSC plans to participate in weekly meetings associated with ongoing ISRA activities.

Permits:

- In late June 2011, DTSC anticipates issuing decisions for Class 1* permit modifications to post-closure permits for The Boeing Company (Boeing) and the National Aeronautics and Space Administration (NASA) to amend the closure plans for eight inactive groundwater treatment units. The Class 1* permit modification notification was submitted on February 3, 2011, by Boeing for both post-closure permits.

Public Outreach:

- DTSC and DOE will continue to host future public tours, for the collocated sampling efforts, on the second Wednesday of each month.
- On June 29, 2011, DOE and DTSC will present and discuss the chemical co-located sampling location selection/deselection criteria and locations for HSA Subarea 6. The meeting will be held at DTSC's Chatsworth office and simultaneously via internet.
- On July 13, 2011, DOE and DTSC will jointly host a general site visit to observe the chemical and radiological co-located sampling activities in Area IV.
- On August 11, 2011 Public Meeting SSFL Site Groundwater Remedial Investigation Report - 6:30 PM, Simi Valley City Council Chambers, 2929 Tapo Canyon Road, Simi Valley 93063

The next SSFL PPG meeting will be held on July 27, 2011 at 6:00 pm in the DTSC Chatsworth office.

DTSC will continue to provide monthly updates regarding the progress of the site investigation and cleanup process to the community.