

Transmittal

Date: 30 October 2003

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Subj: Status Report for Various Navy Environmental Restoration Program Projects
National Aeronautics and Space Administration (NASA)
Crows Landing Flight Facility

The purpose of this status report is to provide a brief update on work in progress.

Underground Storage Tank (UST) Program

UST Cluster 1 – Tanks CL-1, CL-2, and CL-3

UST Cluster 1 overlies the Administration Area Plume. Fifty-seven (57) individual vapor extraction wells were tested during the period from August 2000 through January 2001. Optimization activities were conducted with portable Soil Vapor Extraction (SVE) treatment units from January 2001 through summer 2002, and total volatile petroleum hydrocarbon (TVPH) concentrations were significantly reduced. During the summer 2002 sampling event, TVPH concentrations exceeded 2,500 parts per million by volume (ppmv) in one vapor extraction well near the former dry well. SVE treatment was suspended for approximately 6 months from September 2002 until March 2003. SVE treatment and rebound testing began again

in late March 2003. The most recent rebound test began on 14 October 2003 following a pause from 6 to 14 October 2003.

UST Cluster 2, UST 109, and UST 117

Data is in the process of being evaluated and compiled for closure documentation for the UST sites.

Installation Restoration Program

Site 11 – Former Disposal Pits Area

The Navy completed a Draft Engineering Evaluation/Cost Analysis (EE/CA) for a non-time critical removal action to remove the buried waste and ordnance materials from Site 11 in mid-June 2003. Advance comments were received from DTSC and responses to comments were submitted in October 2003.

Site 11A - Current and Former Sewer Systems

The Navy is preparing for trenching near and beneath the NASA field office trailers to remove buried waste and debris. The Removal Action Report for the time-critical removal actions at the former oxidation pond area was issued on 29 August 2003. A transmittal describing the findings in the vicinity of the NASA field office trailers was submitted in October 2003.

NASA Field Office Trailers at Site 11A.



Site 17 – Demolished Hangar Area and Administration Area Plume

Groundwater extraction continued in the vicinity of the former dry well at UST Cluster 1 in October 2003.

The in-situ submerged oxygen curtain (iSOC) groundwater remediation system was started on 22 September 2003 and was operated during October 2003.

Photograph of well field for iSOC system near Former UST Site 117.



Other Projects

Community Relations Program

The Navy continued to maintain the information repository at the library in Patterson.

Basewide Groundwater Sampling

The RWQCB comment on the report for the 11th groundwater sampling event was received, and the Navy response to the comment was submitted in October 2003. The report for the 12th groundwater sampling event (August 2003) is in the process of being prepared. The 12th sampling event included sampling of selected wells for perchlorate. The next routine sampling event is scheduled for early November 2003.

Clearance Surveys

The Navy is evaluating historical records and preparing for clearance surveys for potential ordnance items at Site 18 (Live Ammunition Area and Target Berm) and the area near Little Salado Creek and Ike Crow Road. On 5 June 2003, two 20-mm shells were discovered by an agricultural worker at a location near the Live Ammunition Area. An information package for the June 2003 survey was submitted in October 2003.

Water Level Monitoring

Automated water level indicators continue to record water levels at several locations. Water level data is presented in routine groundwater monitoring reports.

The information pertaining to pumping of irrigation wells on the Facility is summarized in the following table.

**Pumping Activities at Irrigation Water Supply Wells and Other Wells
 NASA Crows Landing Flight Facility - Updated October 2003**

Field 10 Well 6S/8E-20(NALF)-south of runway [flow: approximately 2,500 gpm] Nearby water level indicator at BGMW01 Screened from approximately 122 to 250 feet below ground surface. Date(s) of Pumping	Field 8 Well 6S/8E-20C1 Central section of facility near Little Salado Creek [flow: approximately 1,200 gpm] Nearest water level indicator at BGMW01 Perforated intervals from approximately 144 to 600 feet below ground surface. Date(s) of Pumping	Field 3 Well 6S/8E-8 (NEW) Northern section of facility, west of UST Cluster 2 [flow: approximately 1,500 gpm] Perforated intervals from approximately 200 to 595 feet below ground surface. Pump is located at approximately 280 feet bgs. Date(s) of Pumping	NASA Water Supply Well (near Building 151) Within approximately 500 feet of the southern section of the Administration Area Plume Screened from 210 to 235 feet bgs No data on pumping activities
<i>Calendar Year 2001</i>			
13-15 April 2001; 26-29 April 2001			
26-29 May 2001			
8-10 June 2001; 14-16 June 2001; 20-22 June 2001		14-20 June 2001	
3-7 July 2001; 13-18 July 2001; 26-29 July 2001	6-11 July 2001; 19-24 July 2001	4-9 July 2001; 13-20 July 2001; 22-31 July 2001	
	30 July - 3 August 2001		
	15-18 August 2001; 25-28 August 2001	3-10 August 2001; 15-20 August 2001; 23-31 August 2001	
		4-14 September 2001; 17-22 September 2001	
Total of 35 days of pumping in the year 2001 (with 15 days of pumping in July 2001).	Total of 25 days of pumping in the year 2001 (with 14 days of pumping in July 2001).	Total of 73 days of pumping in the year 2001 (with 24 days of pumping in July 2001).	
<i>Calendar Year 2002</i>			
January-February 2002 - no use	January-February 2002 - no use	January-March 2002 - no use	
27-30 March 2002	March 2002 - no use		
1-4 April 2002; 6-8 April 2002; 11-14 April 2002; 19-21 April 2002; 23-26 April 2002	April 2002 - no use	4-6 April 2002; 18-20 April 2002	
25-31 May 2002	May 2002 - no use	15-20 May 2002	
1-3 June 2002; 13-19 June 2002; 29-30 June 2002	5-7 June 2002; 10-12 June 2002; 26-30 June 2002	1-6 June 2002	
8-10 July 2002; 18-20 July 2002	11-14 July 2002; 25-28 July 2002	5-10 July 2002; 12-17 July 2002	
August 2002 - no use	3-8 August 2002; 14-17 August 2002	6-8 August 2002; 12-15 August 2002	
September - December 2002 - no use	September - December 2002 - no use	September - December 2002 - no use	
Total of 47 days of pumping in 2002 (with 6 days in July 2002)	Total of 30 days of pumping in 2002 (with 9 days in July 2002)	Total of 37 days of pumping in 2002 (with 12 days in July 2002)	
<i>Calendar Year 2003</i>			
January - March 2003 No Use	January - March 2003 No Use	January - March 2003 No Use	
April-October 2003 - waiting for data	April-October 2003 - waiting for data	April-October 2003 - waiting for data	

BCT Meetings/Conference Calls during 2003

Date of Meeting	Comments
29 January 2003	Conference call. Final meeting notes issued 20 February 2003.
10 April 2003	Conference call. Final meeting notes issued 24 April 2003.
30 April 2003	Technical Conference Call with RWQCB on UST Program Sites
21 May 2003	Technical Conference Call with RWQCB on groundwater remediation demonstration project (iSOC)
12 June 2003	Technical Conference Call with RWQCB, DTSC, & IWMB
18 June 2003	Technical Conference Call with Stanislaus County on well closure procedures
15 July 2003	Technical Conference Call with DTSC on detailed project schedule milestones
23 October 2003	BCT Meeting
Site Visits	
19 February 2003	Navy/RWQCB Site Visit
22 May 2003	Navy/RWQCB Site Visit
22 September 2003	Navy/RWQCB Site Visit - iSOC demonstration project
23 October 2003	BCT Site Visit

Significant Regulatory Submittal Overview

Document	Date Submitted by Navy to BCT	Notes pertaining to the submittal of regulatory review comments
Annual Basewide Groundwater Report	18 April 2002	RWQCB: comments dated 6 May 2002
Annual Basewide Groundwater Report	30 December 2002	
Summary Report, Time-Critical Removal Actions, UST Site 117 Vicinity	7 February 2003	RWQCB comments dated 7 April 2003.
Environmental Business Plan update (final)	3 March 2003	RWQCB comments dated 8 May 2003.
Ninth Quarterly GW Report	7 March 2003	RWQCB comments dated 8 April 2003.
Updated Project Plans	7 March 2003	RWQCB comments dated 29 April 2003.
Groundwater Gradient Transmittal	13 March 2003	
Bell Road information package	20 March 2003	RWQCB comments dated 29 April 2003.
Geophysical Survey Report	7 April 2003	RWQCB comments dated 16 May 2003. SWDIV Response dated 6 June 2003.
Pumping Test Information Package (117-EX-03)	7 April 2003	RWQCB comments dated 29 April 2003.
Site 11A excavation information package	29 April 2003	
Project Plans, Site 11A	7 May 2003	RWQCB comments dated 4 August 2003 (RWQCB defers to DTSC on the cleanup level for residual lead in soil)
Project Plans, Groundwater Remediation Demonstration Project (iSOC)	Draft 4 June 2003 Final 17 June 2003	RWQCB comments on draft dated 6 June 2003
Tenth Quarterly GW Report	9 June 2003	
Draft EE/CA, Site 11	13 June 2003	RWQCB comments dated 25 June 2003 Advance DTSC comments received in October 2003.
Summary Report, UST CL-7	18 June 2003	RWQCB comments dated 10 September 2003 (concurrence that no further remedial actions are required for UST CL-7).
Report on OE discovery near Site 18 South	24 June 2003	
Draft Project Plans for Removal Action at Site 11	8 July 2003	RWQCB concurrence received in October 2003. Advance DTSC comments received in October 2003.
UST CL-40 Transmittal	14 July 2003	RWQCB letter dated 5 September 2003 (concurrence that no further remedial actions are required for UST CL-40).
Information Transmittal - CERCLA Administrative Record Index Update	16 July 2003	
Abandoned Water Supply Wells, 6S/8E-20A1 and 6S/8E-20H1	22 July 2003	RWQCB letter dated 5 August 2003 (concurrence that no further actions are required for wells 6S/8E-20A1 and 6S/8E-20H1).
11 th Quarterly GW Report	14 August 2003	RWQCB letter with comment dated 10 October 2003.
Closure of Inactive Groundwater Wells	28 August 2003	RWQCB letter dated 10 October 2003 (concurrence on proposal to close selected wells).
Removal Action Report, Site 11A	29 August 2003	
Information Package, Area north of IRP Site 11	7 October 2003	
Information Package, IRP Site 11A	9 October 2003	
Information Package, Geophysical Survey	9 October 2003	

Planned Regulatory Submittals – October 2003 through January 2004

Document	Planned Submittal Date	Comments
Twelfth Quarterly GW Report, August 2003 Sampling Activities	November 2003	
Final EE/CA Documentation, Site 11	November/ December 2003	
UST documentation	November/ December 2003	For technical conference call or meeting
Annual GW Report	December 2003	
Draft Environmental Business Plan Update	December 2003/ January 2004	

Requests to NASA for Information

Item	Approximate Date(s) or Schedule for Completion
Request for siting and aquifer testing information on the NASA Water Supply Well that is located within 400 feet of Administration Area Plume	Discussed as a requirement for the groundwater conceptual model during November 2001 BCT meeting in Sacramento. Formal written request for information on the well on 14 January 2002. Completion date for aquifer test: unknown
Navy Review Comments dated 31 May 2002 on Environmental Baseline Survey Update (NASA March 2002)	Completion date for response to Navy comments: Unknown.

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File: CLOCTOBER2003STATUSRPT.DOC

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Transmittal

Date: 30 Oct 2003

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Subj: CERCLA ADMINISTRATIVE RECORD MATERIALS
NALF Crows Landing

Installation: NALF Crows Landing

UIC Number: N60211

Document Title: October 2003 Status Report

Author: Lynn Hornecker

Recipient: BCT

Record Date: 30 Oct 2003

Approximate Number of Pages: 8

Sites: All

Key Words: status report

Contract: N/A

CTO Number: N/A