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Transmittal

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Subj: Status Report for Various 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 began again in late March 2003 and SVE testing is in progress in July 2003.

UST Cluster 2, UST 109, UST 117, and UST CL-40

Data is in the process of being evaluated and compiled for closure documentation for the UST sites. Documentation was recently submitted for UST CL-7 and UST CL-40.

Installation Restoration Program

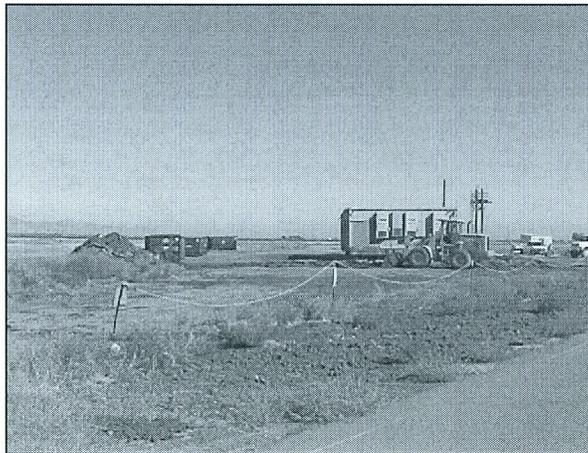
Site 11 – Former Disposal Pits Area

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.

Site 11A - Current and Former Sewer Systems

Filling of the excavated areas at Site 11A was completed in July 2003. Removal of pavement and surface structures in preparation for the exploratory trenching beneath the NASA compound began in mid- July 2003, and a photograph of the field activities follows.

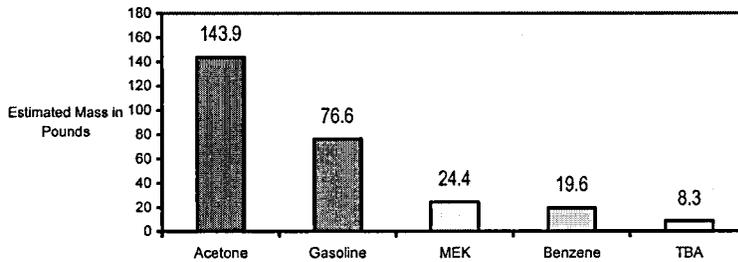
Photograph. Removal of pavement at NASA Compound, IRP Site 11A.
Date of Photograph: 15 July 2003



Site 17 – Demolished Hangar Area and Administration Area Plume

Groundwater extraction continued in the vicinity of the former dry well at UST Cluster 1 and at 117-EX-03 in July 2003. Cumulative mass removal estimates for selected contaminants are shown in the following chart.

Chart. VOC Contaminant Mass Removal Estimates for Primary Contaminants
(December 2000 through June 2003: Approximately 275 pounds)
Transitional Groundwater Extraction Activities at the Administration Area Plume
Former Dry Well and UST Site 117 Source Areas
NASA Crows Landing Flight Facility



Final project plans were completed in June 2003 for a groundwater remediation demonstration project at the eastern section of the plume. Drilling of the demonstration project wells is tentatively scheduled to begin around 18 August 2003.

Other Projects

Community Relations Program

The Navy continued to maintain the information repository at the library in Patterson. A fact sheet with information on the groundwater sampling and extraction activities was completed in June 2003.

Basewide Groundwater Sampling

The 11th groundwater sampling event is scheduled for mid-August 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). The Navy completed the construction of fences around both areas of Site 18 in June 2003.

On 5 June 2003, two 20-mm shells were discovered by an agricultural worker at a location near the Live Ammunition Area. The Navy has conducted geophysical surveys of the area and a survey report is expected to be completed by early August 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 is summarized in the following table.

**Pumping Activities at Irrigation Water Supply Wells and Other Wells
 NASA Crows Landing Flight Facility - Updated July 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
Calendar Year 2001			
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).	
Calendar Year 2002			
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)	
Calendar Year 2003			
January - March 2003 No Use	January - March 2003 No Use	January - March 2003 No Use	
April-July 2003 - waiting for data	April-June 2003 - waiting for data	April-June 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
<i>Site Visits</i>	
19 February 2003	Navy/RWQCB Site Visit
22 May 2003	Navy/RWQCB Site Visit

Significant Regulatory Submittal Overview

Document	Date Submitted by Navy to BCT	Notes pertaining to the submittal of regulatory review comments
Draft Work Plans, Revision 2	19 March 2001	RWQCB: comments dated 3 April 2001 DTSC: no comments received
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, November 2002 Sampling Activities	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	
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
Summary Report, UST CL-7	18 June 2003	
Geophysical Survey near Site 18 South	20 June 2003	
Report on OE discovery near Site 18 South	24 June 2003	
Draft Project Plans for Removal Action at Site 11	8 July 2003	
UST CL-40 Transmittal	14 July 2003	

Planned Regulatory Submittals – July through October 2003

Document	Planned Submittal Date	Comments
Information Package, UST Cluster 1 Vadose Zone	August 2003	
Final EE/CA Documentation, Site 11	September 2003	
Eleventh Quarterly GW Report, May 2003 Sampling Activities	September 2003	
TCRA Summary Report for Site 11A	September 2003	

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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Transmittal

Date: 18 July 2003

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NALF Crows Landing

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