

## Transmittal

Date: 12 June 2002

From: Lynn Marie Hornecker

To: **Marianna Potacka**  
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**James Barton**  
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**Francesca D'Onofrio**  
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**Office of Military Facilities**  
**8800 Cal Center Drive**  
**Sacramento, California 95826**

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 an update on work in progress.

### *Underground Storage Tank (UST) Program*

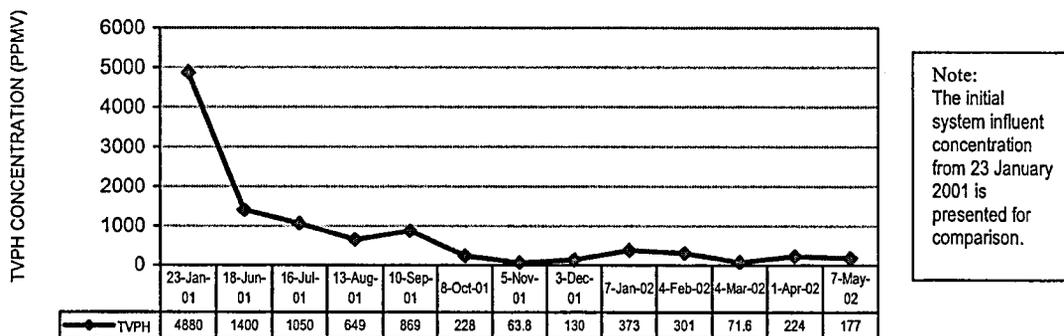
#### *UST Cluster 1 – Tanks CL-1, CL-2, and CL-3*

UST Cluster 1 is located adjacent to Installation Restoration Program (IRP) Site 17 (Site 17) – the Demolished Hangar Area. Fifty-seven (57) individual vapor extraction wells were tested during the period from August 2000 through January 2001. Optimization activities are in progress using selected vapor extraction wells, and one portable Soil Vapor Extraction (SVE) treatment unit is in use at the site. The most recently collected Total Volatile Petroleum Hydrocarbon (TVPH) concentration measurements are shown in Table 1 and Chart 1. *More than 21,660 pounds of TVPH have been removed from the vadose zone at UST Cluster 1.*

**Table 1. PRELIMINARY Data for Soil Vapor Extraction (SVE) Optimization Activities at Underground Storage Tank (UST) Cluster 1**

Well ID	Screened Interval (feet below ground surface)	Well Diameter (inches)	Estimated Radius of Influence in Feet (at 0.1 inch of water /at 0.5 inch of water)	Influent Vapor Concentration TVPH (ppmv) [combined influent from ten extraction wells]	Comments or Date of Sampling Event
<i>Optimization</i> 18 June 2001—					
CL1-VW-02 (S)	15 – 25	2	90/10	1,400	18 June 2001
CL1-VW-02(D)	40 – 55	4	70/25		
CL1-VW-10 (M)	38 – 43	2	80/25		
CL1-VW-11 (M)	38 – 43	2	70/15		
CL1-VW-11 (D)	46 – 56	4	110/40		
CL1-VW-12 (D)	45 – 55	4	120/45		
CL1-VW-13 (D)	46 – 56	4	100/55		
CL1-VW-20 (M)	27 – 32	4	85/40		
CL1-SV-01 (A)	20 – 30	2	65/20		
CL1-SV-01 (C)	46 – 60	4	65/35		
"				1,050	16 July 2001
"				649	13 August 2001
"				869	10 September 2001
"				228	8 October 2001
				63.8	5 November 2001
				130	3 December 2001
				373	7 January 2002
				301	4 February 2002
				71.6	4 March 2002
				224	1 April 2002
				177	7 May 2002
				Waiting for lab report	4 June 2002

**Chart 1. Total Volatile Petroleum Hydrocarbon (TVPH) Concentrations at UST Cluster 1 Selected Influent Concentrations from the Group of Vapor Extraction Wells (Preliminary Data Available As Of June 2002)**



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

*More than 2,000 pounds of petroleum hydrocarbons have been removed from the vadose zone at UST Cluster 2.* Data is in the process of being evaluated and compiled for closure documents.

### ***Installation Restoration Program***

#### **Site 11 – Former Disposal Pits Area**

The Navy began addressing regulatory review comments on the Site 11 feasibility study report in February 2002. Advance comments were received from DTSC in mid- April 2002, and the Navy is in the process of addressing the comments.

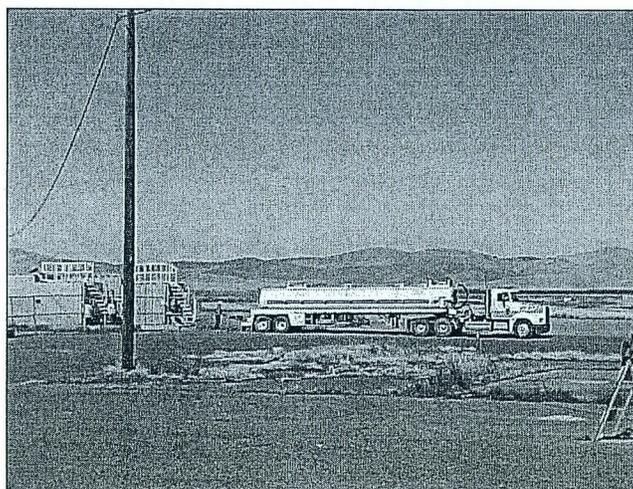
#### **Site 11A - Current and Former Sewer Systems**

The Navy substantially completed the evaluation of additional geophysical survey data for the oxidation ponds of the original (former) sewage plant. Several additional subsurface anomalies were identified. The Navy is evaluating potential constraints caused by nearby structures and utilities while planning for future exploration of the anomalies.

#### **Site 17 – Demolished Hangar Area and Administration Area Plume**

Groundwater extraction continued in the vicinity of the former dry well and near former UST Site 117. Chart 2 shows contaminant concentrations at well CL1-MW-12(S) near the former dry well at the southern section of the Administration Area Plume. More than 1 pound of contaminant mass was removed during each week of groundwater extraction activities in May 2002. *More than 195 pounds of contaminants have been removed from the groundwater as of 30 May 2002 in the former dry well vicinity since groundwater extraction activities began.*

Extracted groundwater was transported to an off-site treatment and disposal facility in late May 2002 as shown in the following photograph.



The Navy is in the process of re-evaluating remedial alternatives and revising the feasibility study for IRP Site 17.

### ***Other Projects***

#### ***Groundwater Sampling***

Groundwater sampling for the Spring 2002 event was conducted the week of 13 May 2002 and compilation of data is in progress. Responses to RWQCB comments on the annual report were issued on 20 May 2002.

#### ***Record Search Activities***

Acquisition and review of historical and technical documentation continues. Facility drawings and documentation pertaining to the NASA water supply well (located within 400 feet of the edge of the Administration Area Plume) were formally requested from NASA on 14 January 2002. Facility drawings and plans have not been received by the Navy as of June 2002.

The Navy requested information (public records) pertaining to RCRA permits and/or RCRA issues at the former NALF Crows Landing from the California Department of Toxic Substances Control (Fax (916) 324-3158) on 5 April 2002. A response was received on 30 April, and records were reviewed and copied on 21 May 2002. Copies of the RCRA-related correspondence were provided to NASA on 21 May 2002 for potential use in the EBS update.

#### ***Water Level Monitoring***

Automated water level indicators continue to record water levels at several locations. The 2002 irrigation season began in late March 2002, and water level data will be presented in groundwater monitoring reports. The information pertaining to pumping of irrigation wells is summarized in the following table.

**Table 3. Pumping Activities at Irrigation Water Supply Wells and Other Wells  
 NASA Crows Landing Flight Facility - Updated June 2002**

<p>Field 10  <b>Well 6S/8E-20(NALF)</b>-south of runway  <i>[flow: approximately 2,500 gpm]</i>            Nearby water level indicator at BGMW01   <i>Screened from approximately 122 to 250 feet below ground surface.</i></p> <p><b>Date(s) of Pumping</b></p>	<p>Field 8  <b>Well 6S/8E-20C1</b>            Central section of facility near Little Salado Creek  <i>[flow: approximately 1,200 gpm]</i>            Nearest water level indicator at BGMW01   <i>Perforated intervals from approximately 144 to 600 feet below ground surface.</i></p> <p><b>Date(s) of Pumping</b></p>	<p>Field 3  <b>Well 6S/8E-8 (NEW)</b>            Northern section of facility, west of UST Cluster 2  <i>[flow: approximately 1,500 gpm]</i>            Nearby water level indicator at Cluster 2   <i>Perforated intervals from approximately 200 to 595 feet below ground surface.</i></p> <p><b>Date(s) of Pumping</b></p>	<p><b>NASA Water Supply Well (near Building 151)</b>            Within approximately 500 feet of the southern section of the Administration Area Plume             Screened from 210 to 235 feet bgs   <b>No data on pumping activities</b></p>
<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		14-20 June 2001	
20-22 June 2001			
3-7 July 2001	6-11 July 2001	4-9 July 2001	
13-18 July 2001	19-24 July 2001	13-20 July 2001	
26-29 July 2001	30 July – 3 August 2001	22-31 July 2001	
	15-18 August 2001	3-10 August 2001	
	25-28 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-May 2002 – no use	January-March 2002 – no use	
27-30 March 2002			
1-4 April 2002		4 – 6 April 2002	
6-8 April 2002		18 – 20 April 2002	
11-14 April 2002			
19-21 April 2002			
23-26 April 2002			
25-31 May 2002		15-20 May 2002	

**Meetings**

***BCT Meetings during 2002***

<b>Date of Meeting</b>	<b>Comments</b>
31 January 2002	Conference call
27 March 2002	Meeting in Sacramento. Draft final meeting summary issued on 25 April 2002.
29 May 2002	
3 June 2002	Technical conference call – routine groundwater monitoring program.
26 June 2002	Site visit at Crows Landing
31 July 2002	

**NOTE: PLEASE NOTIFY MARIANNA POTACKA 7 DAYS IN ADVANCE OF THE NEXT MEETING IF CHANGES TO THE AGENDA ARE PROPOSED.**

***Significant Regulatory Submittal Overview***

<b>Document</b>	<b>Date Submitted by Navy to BCT</b>	<b>Notes pertaining to the submittal of regulatory review comments</b>
Draft Work Plans, Revision 2	19 March 2001	RWQCB: comments dated 3 April 2001 DTSC: no comments received
Revised Site 17 Feasibility Study	27 June 2001	RWQCB: comments dated 27 September 2001 DTSC: no comments received
Aquifer testing activities	4 June 2001	RWQCB: comments dated 14 June 2001 DTSC: no comments received
Action Memorandum, Time-Critical Removal Actions, 1,2-DCA and Carbon Tetrachloride Source Areas	16 August 2001	RWQCB: comments dated 24 September 2001. DTSC: no comments received
Project Plans, In Situ Treatment, 1,2-DCA Source Area	30 October 2001	RWQCB: comments dated November 2001 DTSC: no comments received
Draft Final Feasibility Study, IRP Site 11 (Disposal Pits)	16 November 2001	RWQCB: comments dated 17 January 2002 IWMB: comments dated 28 January 2002 DTSC: advance comments received in mid-April 2002
Draft Environmental Business Plan update	15 December 2001	RWQCB: comments dated 27 December 2001 DTSC: no comments received
Fourth Quarterly Monitoring Report	7 December 2001	RWQCB: comments dated 19 February 2002
Fifth Quarterly Monitoring Report	15 February 2002	RWQCB: comments dated 23 April 2002
Annual Basewide Groundwater Report	18 April 2002	RWQCB: comments dated 6 May 2002
Planned changes to routine groundwater sampling program	2 May 2002	RWQCB: comments received by telephone call on 9 May 2002

Planned Submittals – June through October 2002

Document	Planned Submittal Date	Comments
Quarterly GW Report, February 2002 Sampling Activities	June 2002	
Letter Report, Various Surveys and Trenching Activities at IRP Site 11	June 2002	
Quarterly GW Report, May 2002 Sampling Activities	September 2002	
Action Memorandum, Removal Actions	September 2002	

***Miscellaneous Activities***

The Navy submitted formal comments in late May 2002 (see attachment) on NASA's EBS dated March 2002.

The notification for the 26 June 2002 site tour is attached.

The Navy received authorization from NASA in early June 2002 to destroy two inactive water supply wells and one pump house.

**Attachments:**

- Notification of Site Tour, 26 June 2002
- Proposed Agenda Items for 31 July 2002 BCT Meeting
- Navy letter dated 31 May 2002 with EBS comments

CF:

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Hazardous Materials Division  
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File: cjjune2002statusrpt.doc

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Tom Doszkocs  
General Services Administration

SWDIV/EFA-W team members  
Project File (Crows Landing)

Attachment 1

Notification

**Technical Briefing and Site Tour  
NASA Crows Landing Flight Facility  
Navy Environmental Restoration Program**

**26 June 2002, 10 A.M. to 1 P.M.**

- Technical briefing will include the calibration and operation of the data loggers, proposed field work at the sewer systems (Site 11A) and Site 11, and the status of field work at various sites.
- Site tour may include UST Cluster 1, groundwater extraction sites, sewer systems, active irrigation wells, and other sites as time permits.

Attachment 2

Proposed Agenda

**NASA Crows Landing Flight Facility  
Environmental Restoration Program**

**Project Managers' Meeting**

**31 July 2002, 10:30 A.M.**

- 1. Navy Update**
- 2. Regional Water Quality Control Board Update**
- 3. Department of Toxic Substances Control Update**
- 4. Integrated Waste Management Board Update**
- 5. National Aeronautics and Space Administration (NASA) Update**
- 6. Stanislaus County Update**
- 7. GSA Update**
- 8. Tentatively Schedule next Meeting Date and Adjourn**



DEPARTMENT OF THE NAVY  
OFFICE OF THE GENERAL COUNSEL  
COUNSEL FOR SOUTHWEST DIVISION  
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1220 PACIFIC HIGHWAY RM 250  
SAN DIEGO, CALIFORNIA 92132-5189

5090  
Ser 09C.NB/ 5566  
May 31, 2002

Ms. Sandy Olliges  
National Aeronautics and Space Administration  
Ames Research Center  
MS218-1  
Moffett Field, CA 94035-1000

Dear Ms. Olliges:

The conditions of property presented by the National Aeronautics and Space Administration (NASA) in the Environmental Baseline Survey (EBS) of the NASA Crows Landing Flight Facility fail to mention two important issues.

First, the EBS describes the sewer system as if it has a current permit to operate and a permit to discharge untreated or partially treated sewage to the ground. We are not aware of an active permit to operate the sewage treatment system. Additionally, we believe the sewer system has leaks. The sewer system should not be used while it is under investigation by the Navy.

Secondly, the Navy is concerned that there is the potential presence of UXO at the former airplane target berm area (IRP 18) and at the former live ammunition area (IRP 18).

Finally, we also note that NASA applied for and was issued an EPA ID Number (CAD983673385) for over fifty hazardous waste codes. However, no discussion is found in the EBS of any activities by NASA that may have generated hazardous waste.

If you have questions regarding these issues, please call me at (619) 532-0909.

Sincerely,

NICHOLAS R. BOLLO  
Associate Counsel

## Transmittal

Date: 17 June 2002

From: Lynn Marie Hornecker *LMAH*  
Code 06CC.LMH

To: Diane Silva  
Code: ~~01LS.DS~~ 05G.DS  
Administrative Record Manager

Subj: **CERCLA ADMINISTRATIVE RECORD MATERIALS**  
NALF Crows Landing

Installation: NALF Crows Landing

UIC Number: N60211

Document Title: June 2002 Status Report

Author: Lynn Marie Hornecker

Recipient: James Barton LWOQB, Francesca D'Onofrio DBc  
Marianna Potacka SWAV

Record Date: 12 June 2002

Approximate Number of Pages: 12

Sites: Sites 11, 11A, 17 and all UST sites

Key Words: status report

Contract: N/A

CTO Number: N/A