

Transmittal

Date: 23 October 2002

From: Lynn Marie Hornecker

To: **Marianna Potacka**
BRAC Environmental Coordinator
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BRAC Operations Office
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James Barton
California Regional Water Quality Control Board
Central Valley Region, Sacramento Office
3443 Routier Road, Suite A
Sacramento, California 95827-3003

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California Department of Toxic Substances Control
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, and optimization activities were conducted from January 2001 through summer 2002. Evaluation of data is in progress.

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. The Navy submitted responses to NASA comments (dated August 2002) on the UST Cluster 2 data package on 12 September 2002. The Navy submitted responses to RWQCB comments on 4 October 2002.

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. Comments were received from DTSC in June and July 2002, and the Navy is in the process of addressing the comments.

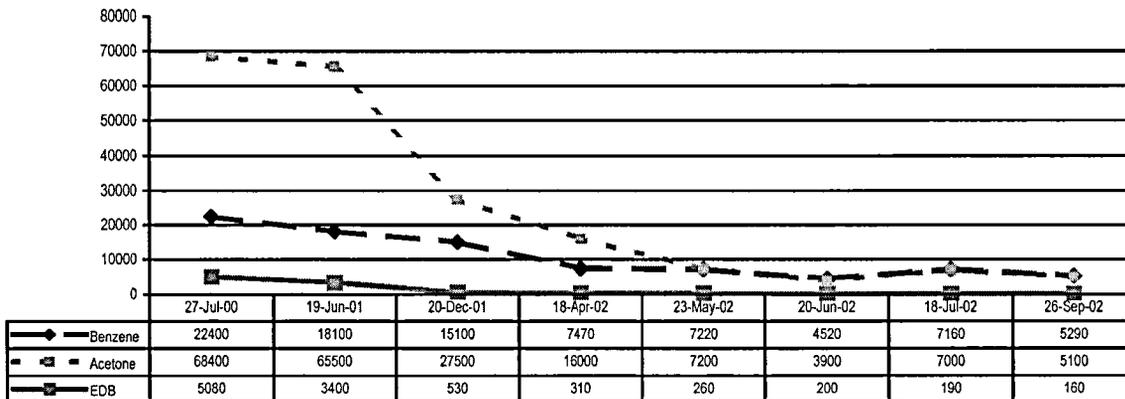
Site 11A - Current and Former Sewer Systems

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. Exploratory trenching activities were conducted at selected geophysical survey anomaly locations from approximately 12 through 20 August 2002, an information package was sent to team members on 27 September 2002, and the Navy is preparing to implement a removal action to remove waste from the oxidation pond area of the original (former) sewer system. Field activities are tentatively scheduled to begin in December 2002.

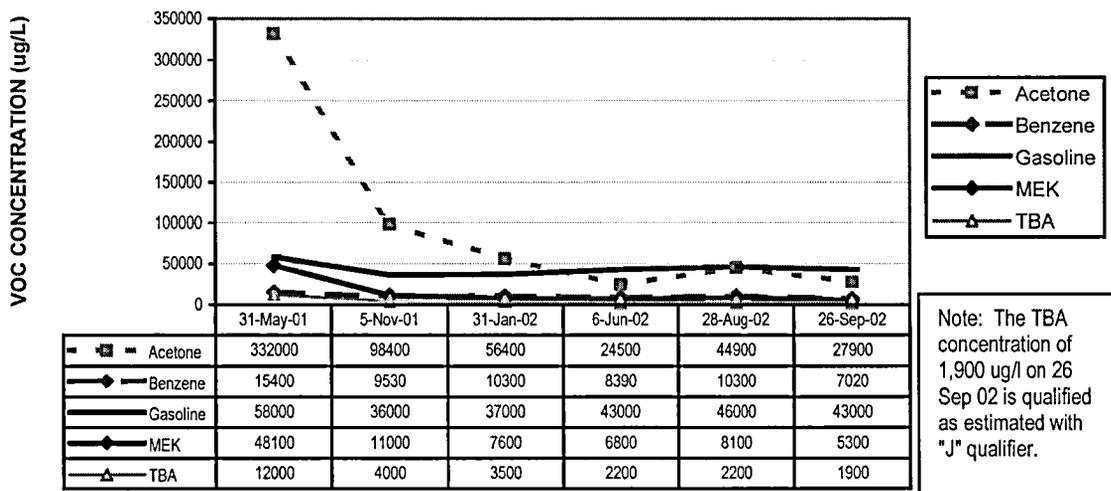
Site 17 – Demolished Hangar Area and Administration Area Plume

Groundwater extraction continued in the vicinity of the former dry well and near former UST Site 117. Selected VOC concentrations from samples collected from wells CL1-MW-12(S) and CL1-EX-01 are shown in the following charts.

**Selected VOC Concentrations at Well CL1-MW-12(S) Near Former Dry Well
 PRELIMINARY DATA**



**Selected VOC Concentrations at Well CL1-EX-01 (screened from 56 to 76 feet bgs)
 PRELIMINARY DATA**



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

Other Projects

Community Relations Program

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

The Navy issued a fact sheet with an update on the environmental restoration program activities at the oxidation pond area at the former (original) sewer system at Site 11A in early October 2002.

Basewide Groundwater Sampling

Groundwater information is being compiled for the next annual groundwater report.

Abandoned water supply well 6S/8E-9M1 was surveyed by video camera on 5 September 2002. The well is approximately 520 feet deep. Copies of the survey were provided to Stanislaus County and the RWQCB. Stanislaus County will review of the well survey information, and they will determine whether or not the well should be destroyed (or maintained for potential future use).

The Navy is preparing for an investigation of groundwater conditions along Bell Road in the vicinity of existing monitoring wells 17-MW-25(S) and 17-MW-25(MS). The field activities are tentatively scheduled to begin in November 2002.

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 ended in August 2002. Water level data will be presented in 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 September 2002

Field 10 Well 6S/8E-20(NALF) -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> Date(s) of Pumping	Field 8 Well 6S/8E-20C1 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> Date(s) of Pumping	Field 3 Well 6S/8E-8 (NEW) 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. Pump is located at approximately 280 feet bgs.</i> 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		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-February 2002 – no use	January-March 2002 – no use	
27-30 March 2002	March 2002 – no use		
1-4 April 2002	April 2002 – no use	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	May 2002 – no use	15-20 May 2002	
1 - 3 June 2002	5-7 June 2002	1-6 June 2002	
13 – 19 June 2002	10-12 June 2002		
29 – 30 June 2002	26-30 June 2002		
8 - 10 July 2002	11-14 July 2002	5 - 10 July 2002	
18 – 20 July 2002	25 – 28 July 2002	12 – 17 July 2002	
August 2002 - no use	3-8 August 2002	6 – 8 August 2002	
	14-17 August 2002	12 – 15 August 2002	
September 2002 - no use	September 2002 - no use	September 2002 - no use	

Miscellaneous Activities

The Navy received the DSMOA Semi-Annual Report for Military Facilities dated 11 October 2002 for the period from January 2002 through June 2002. The DSMOA report for Crows Landing does not include information pertaining to field response actions (CERCLA and petroleum corrective action program) that were conducted during the period from January 2002 through June 2002. The Navy conducted soil vapor extraction activities at UST Cluster 1 and groundwater extraction activities at two source areas within the Administration Area Plume, and these activities resulted in the removal of contaminants from the soil and groundwater. Additionally, during the January 2002 through June 2002 period, the Navy completed deep borings in order to collect information to refine the hydrogeological model of the Administration Area Plume. Excerpts from the DSMOA Report are attached to this status report.

The Navy acquired the attached satellite image of the Crows Landing vicinity during the summer 2002. The image shows the former airfield, the San Joaquin River, and the nearby communities of Patterson and Crows Landing.

Historical use and/or storage of ordnance

The Naval Ordnance Safety and Security Activity (NOSSA) conducted an inspection of the former NALF Crows Landing on 1 August 2002, and the letter presenting the results of the inspection is included as an attachment to this status report. The Navy team is coordinating with NOSSA for future activities.

In October 2002, the Navy removed the concrete foundations of several former ammunition magazines in the vicinity of IRP Site 11. The removal of these structures will facilitate future inspections for ordnance items.

Meetings

BCT Meetings during 2002

Date of Meeting	Comments
31 January 2002	Conference call
27 March 2002	Meeting in Sacramento
29 May 2002	Conference call
3 June 2002	Technical conference call – routine groundwater monitoring program.
26 June 2002	Site visit and technical briefings at Crows Landing
31 July 2002	BCT Conference Call
25 September 2002	BCT Conference Call Draft Meeting Summary Issued 15 October 2002.
3 October 2002	UST Cluster 2 conference call (Subject: Review of RWQCB comments dated 18 September 2002)
9 October 2002	OE conference call (Subject: Review of DTSC comments dated June and July 2002 (Site 11 FS))
20 November 2002	BCT Meeting or Conference Call

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

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
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: comments dated 13 June 2002 and 16 July 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
Sixth Quarterly GW Report, February 2002 Sampling Activities	28 June 2002	RWQCB: comments received 25 July 2002
Interim data summary, IRP Site 11A with planned trenching locations	12 July 2002	RWQCB: Comments received and discussed during Navy/RWQCB conference call
Interim data summary, UST Cluster 2	25 July 2002	Comments requested by 15 August 2002. RWQCB: Comments dated 18 September 2002.
Seventh Quarterly GW Report, May 2002 Sampling Activities	12 September 2002	RWQCB:
Interim data summary, Former Oxidation Basins Exploratory Trenching Results, Site 11A	27 September 2002	

Planned Submittals – October through December 2002

Document	Planned Submittal Date	Comments
Action Memorandum, Removal Actions at Site 11A	October 2002	
Planning Documents, Removal Actions at Site 11A	November 2002	
Annual Basewide Groundwater Report	November 2002	
Summary Report, Time-Critical Removal Actions, UST Site 117 Vicinity	December 2002	

Requests to NASA for Information

Item	Approximate Date(s) or Schedule for Completion
Request for Facility Drawings	Telephone request for information in August 2001. Formal written request for information on 14 January 2002. Completion date: unknown
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. 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

Attachments:

- Proposed Agenda Items for 20 November 2002 BCT Meeting
- Satellite image of Crows Landing vicinity (Source: Globexplorer)
- Excerpt for Crows Landing from DSMOA Semi-Annual Report dated 11 October 2002 for the period from January 2002 through June 2002
- Naval Ordnance Safety and Security Activity (NOSSA) letter dated 27 September 2002

CF:

Mike Sonke
Stanislaus County
Hazardous Materials Division
Department of Environmental Resources
3800 Cornucopia Way, Suite C
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Don Chuck
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Office of Environmental Services
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Moffett Field, California 94035-1000

Alan Berry
California Integrated Waste Management Board
Closure and Technical Services, Mail Stop 20
1001 I Street
Sacramento, CA 95812-4025

Tom Doszkocs
General Services Administration

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

Attachment

Proposed Agenda

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

Project Managers' Meeting or Conference Call

20 November 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**

Attachment

Satellite Image of Crows Landing Vicinity
With Former NALF Crows Landing near the center of the image
Approximate Date: 2001





Department of Toxic Substances Control



Edwin F. Lowry, Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Winston H. Hickox
Agency Secretary
California Environmental
Protection Agency

Gray Davis
Governor

October 11, 2002

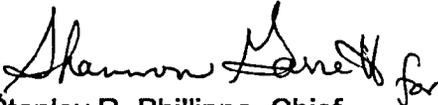
Mr. Paul Lancer
Headquarters
United State Army Corps of Engineers
Environmental Restoration Division
Policy & Requirements Branch (CEMP-RI)
441 G Street, Northwest
Washington, D.C. 20314-1000

Dear Mr. Lancer:

This letter is a confirmation that the Department of Toxic Substances Control has sent you an electronic transmittal of the DSMOA Semi-Annual Report for the period covering January 2002 through June 2002.

Should you have any questions, please contact Mr. Curvin Lee at (916) 323-3506.

Sincerely,


Stanley R. Phillippe, Chief
Office of Military Facilities Division

cc: Mr. Curvin Lee
Planning and Management Branch
Department of Toxic Substances Control
P.O. Box 806
Sacramento, California 95821-0806

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.dtsc.ca.gov.

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

OFFICE OF MILITARY FACILITIES DIVISION



**SEMI-ANNUAL REPORT
JANUARY 1 – JUNE 30, 2002**

**Crows Landing Flight Facility
Semi-Annual Report January 1 – June 30, 2002**

CALSTARS: 100245

STATUS: CLOSED

OFFICE: SACRAMENTO

Progress:

1. The IRP program has been amended based on the Navy's decision to reassess the project by conducting additional investigations in order to better definite the extent of contaminant concentrations in the Administration Area Plume.
2. Investigations were conducted at the abandoned landfill site (Site 11) in order to more accurately define the areas of buried waste.
3. Status of Appendix E, Year 2 is attached.

Challenges:

1. Continue to work closely with the Navy to assist in the transfer of uncontaminated property to Stanislaus County.
2. Continue to work with the Navy, as part of the BCT, to involve the State in the IRP process and to assist in oversight of the clean up program.

JOINT CA EXECUTION PLAN PROGRESS REPORT
 JANUARY 1 – JUNE 30, 2002
 REPORTING PERIOD

Service: Navy
 Name of Installation: NASA Crows Landing Flight Facility
 Project or Operable Unit:
 State: California

Funding Source

DERP _____
 BRAC 1 _____
 BRAC 2 _____ X _____
 BRAC 3 _____
 BRAC 4 _____

ACTIVITY, WORK, AND DELIVERABLE IDENTIFIED IN THE FY 01/02 APPENDIX E FOR YEAR 1	STATUS OF WORK
Draft UST Cluster 2 Closure report	Delayed
UST Cluster 1 remedial system quarterly status report	RWQCB reviewed/commented
Admin. Area Construction Oversight	Delayed
Admin Area System Start-Up	Delayed
Admin Area remedial system quarterly status reports	Delayed
Final UST Cluster 2 closure report	Delayed
Meetings (12 meetings)	Meetings held (on-going)



DEPARTMENT OF THE NAVY
NAVAL ORDNANCE SAFETY & SECURITY ACTIVITY
FARRAGUT HALL BLDG D-323
23 STRAUSS AVENUE
INDIAN HEAD MD 20640-5555

8020
Ser N7122/936
27 Sep 02

From: Commanding Officer, Naval Ordnance Safety and Security Activity
To: Commander, Southwest Division, Naval Facilities Engineering Command (Code 06CC.LMH/MP)

Subj: CLOSEOUT INSPECTION OF FORMER NAVAL AUXILIARY LANDING FIELD, CROWS LANDING, CA

Ref: (a) NAVSEA OP 5 Vol 1

Encl: (1) Sites Visited

1. A closeout inspection visit was conducted in accordance with paragraph 2-1.13 of reference (a) at the former Naval Auxiliary Landing Field (NALF), Crows Landing, California on 1 August 2002. The purpose of this visit was to inspect those potential explosives sites that have been closed as a result of the Base Realignment and Closure action. Enclosure (1) provides a list of sites visited and the results of the inspection. No visible signs of any ordnance were detected at any of these sites.

2. As requested, a search of records at the Naval Safety Center, Norfolk, VA was conducted for any history of aircraft crashes at NALF Crows Landing. The Safety Center records revealed only one aircraft (P-3 type aircraft) crash, which occurred in 1991 near the intersection where the two runways meet. The contractor on-site indicated that a review of the Patterson (CA) Irrigator newspaper revealed that other aircraft crashes had occurred at the field but details were sketchy and exact locations could not be determined.

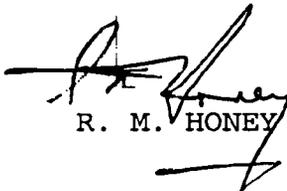
3. Random searches have been made of the sites noted in enclosure (1) by contractors with metal detector probes. Several anomalies were detected but no live ordnance was found. Contractors on-site have records indicating where those probes were made and material unearthed.

4. All records reviewed indicate that NALF Crows Landing was primarily used for navy aircraft "touch-and-go" training. However, there were as many as seven magazines located there since 1944, which suggests that training involving ordnance may have been conducted. Based on this assumption it is recommended that a thorough sweep of the sites be conducted utilizing a magnetometer or other metal detection system.

Subj: CLOSEOUT INSPECTION OF FORMER NAVAL AUXILIARY LANDING
FIELD, CROWS LANDING, CA

5. Appreciation is extended to Mr. Bob Hulet, Senior Project Manager, for SHAW Environmental and Infrastructure Inc., the on-site contractors involved in the clean-up of NALF Crows Landing, for the assistance and information provided during the visit.

6. Point of contact at Explosives Safety Support Office, Pacific (ESSOPAC) is Mr. M. E. Vickers, DSN 735-9560 or commercial (619) 545-9560.



R. M. HONEY

Copy to:
NOSSA ESSOPAC (N7P)

SITES VISITED

Magazine Area (Site 11)

Maps indicated a total of eight facilities in this area. Of those eight facilities all but one have been demolished except for the concrete pads/foundations of each. Records indicate that several 45 cal shells; one 3.5 inert Bazooka training round and four 2.75 inert rocket training rounds were found at this site using metal detectors. The one remaining facility was a small igloo type earth covered magazine that is severely deteriorated and is ready to be demolished. No visible signs of any ordnance were detected in this area.

Former Small Arms Range (Site 18)

Part of this range area is under cultivation by farmers. No visible signs of any ordnance were detected in this area. There are no facilities in this area.

Live Ammunition Area (Site 18)

This area is under cultivation. Reports indicate that two 20mm shells were found in this area in 1991. There are no facilities in this area. No visible signs of any ordnance were detected in this area.

P3 Crash Site

No visible signs of any ordnance were detected in this area.

Ready Service Locker Site

No facility/locker exists in this area. No visible signs of ordnance were detected in this area.

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1220 Pacific Highway
San Diego, CA 92132
Telephone: (619) 532-0783/Fax: (619) 532-0780

File: cladminrectrltr.doc

TRANSMITTAL

Date: 23 Oct 2002

From: Lynn Marie Hornecker *LMA*

To: Diane Silva
Code ~~01HS.DS~~ 05G.DS

Subj: CERCLA Administrative Record Materials
NALF Crows Landing

Installation: Naval Auxiliary Landing Field, Crows Landing

UIC Number: N60211

Document Title (or subject): Status Report

Author: Lynn Marie Hornecker

Recipient: Marianna Potacka, James Barton, others

Record Date: 23 October 2002

Approximate Number of Pages: 17

EPA Category: 01.1

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Contract: N/A

CTO Number: N/A