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TRANSMITTAL

Date: 22 October 2000

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

Documentation for the Underground Storage Tank (UST) Program and the Installation Restoration Program (IRP)

The Navy submitted a draft Revision 1 planning document describing seven (7) additional field activities at Crows Landing to the team members on 9 October 2000. The additional field activities were described in seven work plan attachments that were presented in Appendix H of the planning document. The Navy requested an expedited review of the draft planning document in order to begin fieldwork as soon as possible. Review comments were received from the Regional Water Quality Control Board (RWQCB) on 19 October 2000. The Department of Toxic Substances Control (DTSC) has indicated that they concur with the RWQCB comments. As of 19 October 2000, no comments were received from the NASA or Stanislaus County team members.

The Navy is in the process of preparing responses to comments (RWQCB comments dated 10 October 2000 and 19 October 2000), incorporating revisions to the planning document, and evaluating approaches (time-critical removal action versus testing activities) for the extraction of groundwater from the commingled plume (Administration Area Plume (groundwater beneath Site 17, UST 117, and UST Cluster 1)).

The following table provides a summary of the planned future field activities that are described in the Revision 1 planning document.

Table 1. Planned Field Activities Described in Draft Work Plan, Revision 1

Field Activity	Comments
Abandonment and closure of wells (Attachment 1)	Activities include the videographic surveying of two deep wells (the former water supply well at Building 151 and the former fire water supply well north of UST Cluster 2), the demolition of the pump house for the well near UST Cluster 2, the closure of the two deep wells, and the completion of the closure of two former monitoring wells at Site 11.
Geophysical surveying at Site 11 (Attachment 2)	Activities include an unexploded ordnance (UXO) survey for worker protection purposes followed by electromagnetic geophysical surveys to better delineate the boundaries of the former disposal pits.
Aquifer testing at UST Cluster 1 (Attachment 3)	Activities include aquifer testing at existing wells at the UST Cluster 1 vicinity and installation of an extraction well with a long-term groundwater extraction activity.
Surveying of sewer pipelines (Attachment 4)	Activities include videographic surveys of sewer pipelines in order to verify the conditions of the pipelines and geophysical surveys in order to ascertain the locations of structures that were located within or near the former sewage plants. Activities may include trenching to confirm the location(s) of the original sewer pipeline.
SVE testing at UST Cluster 2 (Attachment 5)	Activities include SVE testing, evaluation of test data including the evaluation of radius of influence measurements and soil vapor rebound effects, and confirmation soil sampling activities at UST Cluster 2.
Groundwater sampling (Attachment 6)	Activities include verification sampling at twenty-two (22) existing wells at or near UST Cluster 1, UST Cluster 2, UST Site 109, UST Site 117, Site 11, Site 17, and the three background wells locations.
Testing at UST Site 109 (Attachment 7)	Activities include verification soil sampling, SVE testing, and the evaluation of test data including baseline soil vapor concentrations and radius of influence measurements at UST 109.

Underground Storage Tank (UST) Program

Underground Storage Tank (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. A portable soil vapor extraction (SVE) treatment unit was mobilized to UST Cluster 1 in July 2000, and individual vent tests were initiated in early August 2000. The portable SVE unit is operating under a permit issued by the San Joaquin Valley Air Pollution Control District, has a blower capacity of 250 standard cubic feet per minute (scfm), and a thermal oxidizer that operates at or above 1,400 degrees Fahrenheit. The Navy submitted a permit application to the San Joaquin Valley Air Pollution Control District (SJVAPCD) for a second portable SVE unit (comparable to the unit currently operating at UST Cluster 1) for use at various UST sites, an authorization to construct was issued on 10 October 2000 by SJVAPCD, and a permit to operate will be issued upon completion of the appropriate inspections by SJVAPCD.

The wells identified in the following table have been or were in the process of being tested (for approximately 48 hours each) at the time this status report was written.

Table 2. PRELIMINARY Test Data for Vapor Extraction Wells at UST Cluster 1

Well ID	Screened Interval (feet below ground surface)	Well Diameter (inches)	Flow (scfm) / Vacuum (inches of water) at approximately 48 hours (end of test)	Estimated Radius of Influence in Feet (at 0.1 inch of water /at 0.5 inch of water)	Vapor Concentration at end of 48-hour test TVPH (ppmv)	Comments/Date of Completion of Testing Activities	
CL1-VW-20 (M)	27-32	4	15.2 / 90	85/ 40	5,750 [Acetone & MEK present in vapor samples]	4 August 2000	1
CL1-VW-22 (D)	48-53	4	20 / 70	95/ 50	252	9 August 2000	2
CL1-SV-01 (C)	46-60	4	23 / 110	65/ 35	87,100 [Acetone & MEK present in vapor samples]	11 August 2000	3
CL1-VW-04 (M)	36-41	2	10 / 107	55/ 10	1,330	16 August 2000	4
CL1-VW-23 (D)	48-53	4	18/ 110	105/ 45	7,100	18 August 2000	5
CL1-VW-03 (S)	16-26	2	37.5/ 84	90/ 35	984	23 August 2000	6
CL1-VW-19 (D)	46-56	4	22/ 106	90/ 50		25 August 2000	7
CL1-VW-08 (D)	46-56	4	20/ 37	85/ 30	2,610	30 August 2000	8
CL1-VW-25 (D)	48-53	4	12.5/ 108	80/ 35	4,460 [Benzene 4.95]	1 September 2000	9
CL1-VW-20 (S)	18-23	2	12.4/ 101	70/ 40		7 September 2000	10
CL1-VW-07 (M)	34-44	2	10.1/ 8	50/ 20	11,200	9 September 2000	11
CL1-VW-19(S)	21-26	2	11/92	75/ 30	914 [Acetone 1.35]	13 September 2000	12
CL1-VW-03(D)	47-52	4	20/90	90/ 40	3,500 [no solvents, no BTEX]	15 September 2000	13
CL1-VW-24 (D)	48 - 53	4	7/ 105	60/ 20	7,180 [Benzene 4.71]	20 September 2000	14
CL1-VW-21 (D)	43 - 53	4	20/ 32	110/ 45	237 [trace acetone and MEK in samples collected during first 24 hours]	22 September 2000	15
CL1-VW-08 (S)	25 - 34	2	20/ 35	90/ 25	1,350 [no BTEX compounds or acetone]	27 September 2000	16
CL1-VW-19 (M)	30 - 35	2	12.4/ 98	65/ 25	2,600 [trace acetone]	29 September 2000	17
CL1-VW-07 (D)	48 - 58	4	12.5/ 109	65/ 25		4 October 2000	18
CL1-VW-04 (D)	45 - 55	4	9.5/ 102	50/ 25		6 October 2000	19
CL1-VW-08 (M)	38 - 43	2		70/ 10		11 October 2000	20
CL1-VW-17 (D)	46 - 56	4		95/ 40		13 October 2000	21
CL1-VW-01 (S)	9 - 14	2				17 October 2000	22
CL1-VW-16 (M)	36 - 41	2					23
CL1-VW-11 (S)	25 - 34	2					24
CL1-VW-11 (M)	38 - 43	2					25
CL1-VW-11 (D)	46 - 56	4					26

Other Underground Storage Tank (UST) Sites and IRP Sites

Field activities may begin in November 2000 pending the completion of responses to comments and team concurrence on the final planning document.

Other Projects

Sewer Investigation

Field activities may begin in November or December 2000 at the former and current sewer system sites pending the completion of responses to comments and team concurrence on the final planning document.

Closure of Abandoned Irrigation Wells

Field activities may begin in November or December 2000 at the inactive or abandoned well sites pending the completion of responses to comments, concurrence from NASA on the destruction of the pump house structure associated with the former fire protection/irrigation water supply well near UST Cluster 2, acquisition of the appropriate Stanislaus County well destruction permits, and team concurrence on the final planning document.

Water Level Monitoring

The Navy plans to submit a technical memorandum describing proposed monitoring points for automated water level measurements in November or December 2000, and procurement and installation of water level data loggers will proceed following the review and acceptance of proposed locations by the team members.

Record Search Activities

Historical aerial photographs taken during 1943 were recently acquired from the Navy's San Bruno office, and one photograph, showing the former sewage treatment plant, is attached.

Meetings

- *26 September 2000:* A meeting pertaining to property transfer and reuse was held at the Regional Water Quality Control Board, Central Valley Region office in Sacramento.
- A telephone conference was conducted on 26 September 2000 (participants: Marianna Potacka (Navy), Lynn Hornecker (Navy), Jim Barton (RWQCB), Dan Ward (DTSC), and Brad Hicks (Stanislaus County)) to discuss the solvents and EDB that were identified in water samples collected in the UST Cluster 1 vicinity in July 2000.

Attachment

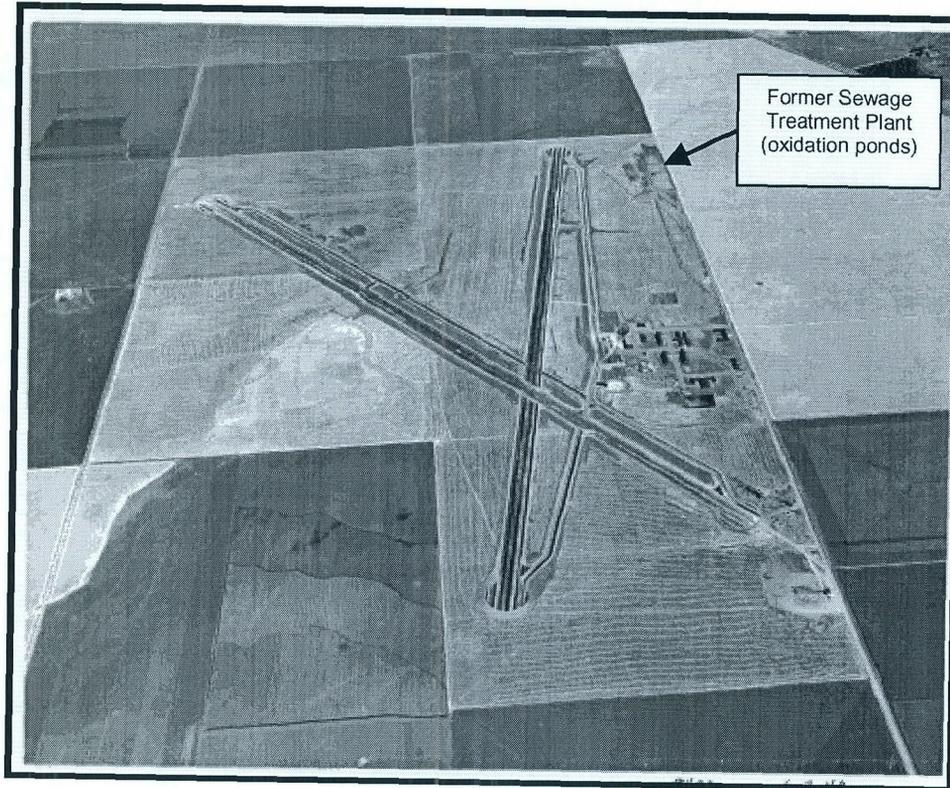
Historical photograph dated 1943

CF:

Brad Hicks (Stanislaus County)
Sandy Olliges (NASA)

Project File (Crows Landing)

Attachment
Historical Aerial Photograph
Former Naval Auxiliary Landing Field, Crows Landing, California
Date of Photograph: 1943



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NALF Crows Landing**

Installation: Naval Auxiliary Landing Field, Crows Landing

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